Thirteenth Annual Report of the

United States Tariff Commission

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1929



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UNITED STATES TARIFF COMMISSION

Office: Seventh and E Streets NW., Washington, D. C.

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JOHN F. BETHUNE, Secretary.

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LETTER OF TRANSMITTAL

UNITED STATES TARIFF COMMISSION, Washington, December 2, 1929.

MY DEAR MR. SPEAKER: In compliance with the provisions of section 708 of the act of Congress approved September 8, 1916, "to increase the revenue, and for other purposes," there is transmitted herewith a copy of the Thirteenth Annual Report of the United States Tariff Commission.

Very truly yours,

THOMAS O. MARVIN, Chairman.

Hon. NICHOLAS LONGWORTH, Speaker of the House of Representatives, Washington, D. C.

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THIRTEENTH ANNUAL REPORT OF THE UNITED STATES TARIFF COMMISSION

WASHINGTON, D. C., December 2, 1929.

To the Congress:

The United States Tariff Commission herewith submits its thirteenth annual report for the year 1928-29.

PERSONNEL

During the year the commission's membership has remained unchanged. In accordance with the provisions of the law requiring annual designation by the President, Commissioner Thomas O. Marvin was again designated chairman of the commission for a term of one year beginning January 15, 1929, and Commissioner Alfred P. Dennis was again designated vice chairman of the commission for a term of one year beginning July 22, 1929.

I. ORGANIZATION OF THE TARIFF COMMISSION

The Tariff Commission was created by the provisions of Title VII of the revenue act of September 8, 1916. (U. S. Code, title 19, secs. 91-106.) As thus established, the commission was primarily an advisory body, whose function was to gather and prepare for the use of the President and the Congress economic and industrial information concerning the foreign and domestic trade of the United States as related to and affected by customs duties, laws, regulations, and usages, not only in the United States but in other commercial nations as well. The precise scope of the commission's work as thus defined was extended and much enlarged upon the enactment of the special provisions of sections 315, 316, 317, and 318 of the tariff act of 1922. (U. S. C., title 19, secs. 93, 95, 100, 102-104, 154-158, 174-180.)

Section 315 authorizes the President, after investigation by the Tariff Commission, to proclaim such changes in classification or increases or decreases in rates of duty, within the limit of 50 per cent thereof, as may be necessary to equalize ascertained differences in costs of production of like or similar articles in the United States and in the principal competing foreign country. The section provides further that when such action by the President does not equalize differences in costs of production of articles upon which the duty is assessed wholly or in part upon the basis of their valuation he shall proclaim such findings and thereafter the duty shall be assessed upon the American selling price as defined elsewhere in the statute, but the rate of duty shall not be increased. The section further provides that certain factors shall be taken into consideration in determining differences in costs of production, that no increase or decrease in any rate of duty shall be proclaimed in excess of 50 per cent of the existing rate, and that no article may be transferred from the dutiable list to the free list or vice versa, nor shall the form of any duty be changed.

Section 316 declares unlawful unfair methods of competition and unfair acts in the importation and sale of foreign articles. It provides that the Tariff Commission shall investigate alleged violations of these provisions and shall report thereon to the President, who is empowered to assess certain additional duties to offset the practices complained of, or in extreme cases to forbid entry to imported articles.

Section 317 deals in a comprehensive manner with discrimination by foreign countries against the commerce of the United States. It imposes upon the Tariff Commission the duty to ascertain and at all times to be informed, whether any such discriminations against the commerce of the United States as States as enumerated in the section are practiced by any country, and, upon the discovery of such practices, to bring them to the attention of the President with recommendations. The President is authorized, whenever he shall find the existence of such discriminatory practices, to specify and proclaim new or additional rates of duty as he may determine will offset such practices, or he may direct the exclusion from importation of such articles of the offending country as he may deem the public interests of the United States require.

Section 318 provides that in addition to other duties previously imposed upon it by law, the Tariff Commission shall ascertain conversion costs and costs of production of articles in the principal growing, producing, or manufacturing centers of the United States, whenever, in the opinion of the commission, it is practicable, and shall ascertain in foreign countries when feasible the costs of like or similar articles for comparison. The commission is also directed by this section to describe and keep on file samples of imported articles and domestic articles which are comparable, to ascertain the import costs of such foreign articles and the selling prices in the United States of comparable domestic articles, and to ascertain all other pertinent facts affecting competition between domestic and imported articles in the principal markets of the United States. This section authorizes the establishment and maintenance of an office of the commission at the port of New York, and authorizes the commission to adopt an official seal, which shall be judicially noticed.

Sections 700 and 701 of the act of 1916 provide that the commission shall consist of six members, that it shall appoint a secretary, and shall have authority to employ such special experts, clerks, and others as may be necessary for the performance of its duties. It is the purpose of the commission to have a technically trained staff to assist it in the consideration of all problems involved in its work and a sufficient auxiliary force of clerks, stenographers, messengers, and others to produce economically the most effective results.

The administrative division of the commission is under the direction of the secretary, who is also the budget officer and the chief executive officer of the commission. The administrative division includes the finance section, docket section, mails and files section, stenographic section, publications section, duplicating section, and supplies section.

The technical staff as now organized consists of the chief economist, the division of economics, the office of the chief investigator, the legal division, the division of international relations, the transportation division, the accounting division, the statistical division, and the several commodity divisions corresponding in general to the schedules in the tariff law. The operations of these divisions are coordinated through the advisory board, which is composed of the chief economist (chairman), the chief of the economics division (vice chairman), the chief investigator, the chief of the legal division, the chief of the commodity division concerned, and an economist assigned to the subject under consideration.

The commission maintains a principal office in Washington, D. C., a New York office, and an European office with headquarters in Brussels, Belgium.

(1) PRINCIPAL OFFICE

The organic act creating the commission requires that the principal office of the commission shall be in the city of Washington, but that it may meet and exercise all its powers at any other place. The offices of the commission are located in the Old Land Office Building, Washington, D. C.

(2) NEW YORK OFFICE

The New York office of the Tariff Commission, established pursuant to provisions of section 318 of the tariff act of 1922, is in the customhouse. That office is used by the commission for two major purposes. It serves as a permanent agency for procuring original data of the import and export trade of the United States from customs records and from importers and producers in New York and vicinity. It serves also as a means of contact between the commission and those persons in New York and vicinity with whom the commission and its agents have occasion to transact official business. All agents of the commission operate from that office while in New York, whether dealing with other agencies of the Government or with representatives of industries affected by the commission's investigations.

(3) EUROPEAN HEADQUARTERS

The commission's headquarters in Europe are in Brussels, Belgium, where they have been since June, 1925. All business of the commission in Europe is transacted through that office either by the agents stationed there or through their cooperation with experts of the commission sent from Washington on particular investigations which may be in progress and which require that technical data and other information be obtained direct from European countries. That office not only makes the necessary contacts with European governmental and business agencies with which the commission has to conduct business, but also conducts investigations not requiring the participation of agents sent from the main office at Washington. By correspondence and by cable it furnishes the commission from time to time, as needed, special reports on economic and industrial conditions as related to problems under consideration by the commission. It also keeps in touch with foreign trade papers and other publications of interest to the commission. The Brussels office contributes materially to the work of the commission, assists in investigations involving comparative studies in the foreign field, and supplies the commission with information not otherwise available.

II. FUNCTIONS OF THE COMMISSION

The Tariff Commission was created by the revenue act of 1916 to investigate and report upon "the administration of the customs laws" and their "fiscal and industrial effects"; upon the "relations between the rates of duty on raw materials and finished or partly finished products"; upon "the effects of ad valorem and specific duties and of compound, specific, and ad valorem duties"; upon "all questions relative to the arrangement of schedules and classifications of articles in the several schedules"; and upon "the volume of importations compared with domestic production and consumption, and conditions, causes, and effects relating to competition of foreign industries with those of the United States, including dumping and cost of production." The commission is authorized "to investigate the tariff relations between the United States and foreign countries, commercial treaties, preferential provisions, economic alliances, the effect of export bounties and preferential transportation rates." It is required to put at the disposal of the President, the Committee on Ways and Means of the House of Representatives, and the Committee on Finance of the Senate, whenever requested, all information at its command, and also to make special investigations and reports when requested by the President or by either branch of the Congress or by the committees of Congress.

The readiness of the commission to serve Congress is evidenced by the very short time in which the Summary of Tariff Information was prepared for the use of the Committee on Ways and Means at its public hearings. The request for the preparation of this material was made on December 6, 1928, and the summary on Schedule 1 was made available to the committee in a tentative form when the hearings on this schedule began on January 7, 1929. Thereafter these preliminary prints were made available schedule by schedule. The magnitude of this work is illustrated by the fact that the Summary of Tariff Information for 1929 consisted of 2,676 printed pages (with-out index), compared with 1,490 pages in the Summary of Tariff Information for 1921 (also without index). These summaries could not have been prepared in such short time had it not been for the mass of information accumulated by the commodity and other divisions. A more detailed account of the work of the commission in assisting the Congress in the tariff readjustment of 1929 will be furnished in Section IV of this report.

Special mention may be made of one particular matter illustrating the usefulness of certain phases of the routine work of the commission. The statistical division for an approximate 12-month period preceding the opening of the tariff question in the Congress had made a tabulation of imports since 1919 by quantity and value for almost all the individual commodities mentioned in the tariff act, and was able when the call came to furnish this information systematically arranged and practically brought down to date. The first question that members of the committees of the Congress asked in dealing with particular commodities was the amount and trend of imports. This question the commission was able in most instances to answer without delay.

The original investigatory duties of the commission continue in full force and effect; some of them have been broadened or extended by subsequent legislation. By section 318 of the tariff act of 1922 more detailed and specific tasks are assigned to the commission with respect to investigating matters pertaining to competitive conditions, "in order that the President and the Congress may secure information and assistance." The commission is to go as thoroughly as may be into costs of production at home and abroad, import costs, and domestic selling prices, and to select and describe imported and domestic articles that are representative and comparable. In short, certain numerical data and other information are to be ascertained to make more complete and conclusive the sort of information respecting competitive conditions gathered for the President and for the Congress under the revenue act of 1916. Again, the original powers of the commission respecting the investigation of "the tariff relations between the United States and foreign countries," and "preferential" acts or conditions affecting our trade have been broadened and extended by section 317 of the tariff act of 1922. That section confers upon the President certain powers with respect to discriminations against the commerce of the United States practiced by foreign countries, and charges the United States Tariff Commission with the duty "to ascertain and at all times to be informed whether any * * * are practiced by any country; and criminatory acts are disclosed * * * to of the discriminations if and when such discriminatory acts are disclosed * * to bring the matter to the attention of the President, together with recommendations."

For the performance of the several duties referred to above the commission has organized its work so as to effect a careful division of labor.

The legal division has to do preeminently with the administration of the tariff law. The division of international relations deals with matters of foreign discrimination, preferential tariffs, treaties, etc. The gathering of material with respect to the economic or competitive features of the tariff, article by article, is performed by eight commodity divisions, corresponding in the main with the schedules of the tariff act. An economics division reviews the work of the commodity divisions and assists in the solution of all economic problems. The cost accounting and statistical divisions contribute basic data in the form needed by the commodity and other divisions. Much of the work performed by these divisions is not reflected in the current publications of the commission. For instance, not all the cases of foreign discriminations against our commerce require action by the President under section 317. The division of international relations is nevertheless constantly accumulating information on foreign commerce and when an occasion for action arises it has at hand a fund of perti-Again, not all investigations under the general nent information. powers of the commission can be published in separate reports, yet the commodity divisions are constantly gathering information regarding prices, costs, and competitive conditions generally, and are systematically organizing the material for use when needed. Information thus obtained is published in part from time to time in the form of tariff information surveys and all of it is available for the use of the Congress in tariff legislation. And so it is with respect to the legal division, which publishes no surveys or reports currently but constantly keeps informed as to decisions and all other legal aspects of the administration of the customs laws.

By the tariff act of 1922 not only were the old powers and duties of the Tariff Commission materially extended but also certain wholly new powers and duties were added. Thus by section 316 "unfair methods of competition and unfair acts in the importation of articles into the United States, or in their sale" are declared to be unlawful, and the President is given certain powers of dealing with such cases when they arise. "To assist the President in making any decisions under this section the United States Tariff Commission is * * * authorized to investigate any alleged violation hereof on complaint under oath or upon its initiative." Public hearings are held and findings with recommendations are made upon the evidence in the investigation and reported to the President.

An important function added to the original duties of the commission by the tariff act of 1922 is its duty of furnishing the President basic data upon which to proceed in the administration of section 315, or what has come to be popularly known as the flexible provision of the tariff act. Investigations undertaken for the purposes of section 315 follow, when found to be warranted, a preliminary examination of an application for either an increase or a decrease of existing tariff rates. Investigations are also undertaken in response to requests of the President and congressional resolutions. The power of final action is conferred upon the President; the commission participates solely as a fact-finding body.

The establishment of certain facts and the gathering of supporting information by the commission, when thus assisting in the performance of a definite, Executive act carried through by the President, is quite different from its activities when engaged in gathering and organizing information under its general powers. For one thing, there are certain prescribed methods of procedure which must be observed by reason of the limitations or requirements of the statute. For instance, the investigation must ascertain, for comparison with domestic costs, the costs of production not of all foreign countries collectively, but of the "principal competing country." What country is the principal competing country must be established as a definite fact, and frequently that is not a simple matter. Again, costs of production must be compared with respect to "like or similar articles," imported and domestic. Often the selection of like or similar articles whose costs of production are to be compared is a task that presents difficulties that are sometimes almost insuperable. Selection upon the basis of physical likeness alone will not answer.

It is the ascertainment of the costs themselves, whatever article may be the subject of investigation, which occasions the most painstaking and time-consuming effort. Just what is involved in the socalled cost finding for purposes of section 315 investigations is set forth on pages 37 to 41 in the description of the work of the accounting division. Here it is sufficient to repeat that rarely on the books of any producer are costs found in the form in which they can be used for the purposes of section 315. What, as a rule, the commission's accountants find are records kept in sufficiently good form to supply the data from which they may laboriously compute costs. Occasionally book records are so meager that recourse must be had to other evidences of costs, such as the market quotations of the price of materials, the rates of wages paid to certain classes of labor, and the known general conditions of the industry respecting technical operation and the relationship between overhead and other expense. Sometimes, to secure data for a constructive set of piece rates to be used in calculating specific and separable costs of the particular article or articles being costed, the commission's agents follow in detail certain operations over a period of time. It is not to be overlooked that unit costs (costs per pound, or per ton, or per bushel, etc.) alone can be used in the final comparisons of cost, and to obtain unit costs not only must the aggregate outlay of expense be ascertained, but also the quantity of production for which that expense was incurred. Here often the records of individual establishments are most defective, largely because ordinary bookkeeping is concerned mainly with the financial results of the business, and the accountants must in consequence ascertain from other records of the establishment the quantity produced during the costing period of the article being costed.

Although the commission does not itself initiate section 315 investigations, it is under the necessity of determining what investigations shall be undertaken. It is not practicable to institute an investigation in every instance where one is requested. The making of a choice among applications can not be by general rule or principle; it has to be done upon the basis of information and evidence. This involves a preliminary inquiry which often occasions field work and analysis of the results of the field work. The information respecting competitive conditions, volume of imports, prices, and other matters which the commodity divisions are accumulating all the time is frequently of great service here.

At the public hearing which is held in the course of each investigation for the purposes of section 315 all parties interested are afforded opportunity to be present, to produce evidence, and to be heard. At those public hearings much latitude is necessarily given persons who appear and desire to be heard. The hearings can not be conducted like cases in a court where the issue is between parties litigant. Because of the latitude allowed in the presentation of evidence the hearings take a great deal of time. The evidence produced is regarded as additional information supplementing or amending the evidence gathered by the commission; the whole proceeding with respect to any person who appears carries out the theory that he is not defending rights at law, but is furnishing information to the commission.

In order that the public hearing may serve the purpose for which it was intended, the parties interested should know in advance at least in a general way what are the results of the investigation thus far conducted and should be afforded an opportunity to examine the methods followed in the conduct of the investigation. To this end a

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preliminary statement of information is prepared by the commission and is made available to parties interested. The preparation of this preliminary statement of information is a task that necessarily takes time. It is the practice of the commission to set forth clearly the methods of procedure followed and to call attention to the more important questions involved in the investigation. The commission is unable to supply interested parties with a statement of information containing all of the data in its possession because of the statutory restriction concerning the disclosure of trade secrets or processes. The commission takes measures to present data in such a way that not even by calculation may the figures given divulge confidential information.

In the preliminary statement of information the commission is careful not to commit itself to definite findings; the results of the investigation so far conducted and presented in the preliminary statement are merely tentative. Because of this practice the preliminarystatement gives both sides of doubtful questions and often presents several alternative methods for solving problems. After the hearing the facts gathered by the commission and the questions raised at the hearing and in the briefs are carefully considered and weighed, and a report is formulated which summarizes the major problems of the investigation. Often the detailed analyses required before decisions are made take considerable time. If every effort to reach an agreement with regard to controversial matters fails, the respective views of the members of the commission are presented in the report to the President.

One result of the required inclusion in reports of section 315 investigations of complete data and conclusions respecting costs of transportation, has been greatly to increase the work of research with respect to costs and to add to the difficulties with respect to methods of procedure and ways of presenting results. Costs of transportation to what market? Sometimes there are a number of outstanding markets in the United States to which costs of transportation may be reckoned, or a diffused and general market. Should the principal market for purposes of section 315 be considered to be the principal port of entry for the foreign product or the market in which the distribution of the largest volume of the article, irrespective of origin, occurs, or the market in which the domestic and foreign products meet in competition in the largest quantities? Furthermore, the question arises as to the costs of transportation from what places of origin. This particular question with respect to the imported article usually presents little difficulty, because products from the principal competing country usually are shipped through a single foreign port or originate within limited areas. The domestic industry, however, may be carried on in many sections of the extensive territory of the United States and the problem is difficult of solution as to whether transportation costs shall be secured from all centers of production or only from some of them to such markets as may be selected. Domestic plants are often located where they are for the purpose of supplying local markets and thus escaping the burden of profitless transportation. Often the imported or the domestic article has little or no sale in portions of the United States because it can not bear the cost of transportation. The imported article may not be able to

reach the interior and the domestic article may not be able to reach the seaboard and the important consuming markets located thereon. Under such conditions the question arises whether potential markets should not also be taken into consideration and transportation costs computed to them. Shall it be assumed that domestic and foreign articles may be potentially shipped to any important market in the United States? It can not be overemphasized that the timeconsuming features of section 315 investigations have been greatly increased by the problems arising in connection with the inclusion of costs of transportation.

Thus it will be seen, first, that the work being done by the commission under its general powers is much greater than appears from the record of current publications; and, second, that the time taken for section 315 investigations is in great measure necessary and unavoidable. The volume of output of completed section 315 investigations, this past year or any other year, is not great; it ought to be clear that, on the whole, under the existing complications and difficulties, it can not be otherwise.

III. ACTIVITIES OF THE UNITED STATES TARIFF COMMIS-SION SINCE 1922

(1) GENERAL

Because of the prominence of the Tariff Commission's work in recent years under the flexible tariff provisions—that is, under section 315 of the tariff act of 1922—from the point of view of public hearings and public reports to the President, there seems to be a current belief that the commission's work since the enactment of the tariff act of 1922 has consisted solely of investigations under the flexible tariff provisions. As a matter of fact, the commission has functioned since 1922 under all its powers—under sections 316, 317, and 318 as well as 315 of the tariff act of 1922—and also under the organic powers conferred upon it by the legislation of 1916 establishing the commission.

Since **1**922 the Tariff Commission has completed 183 reports and special surveys; of this number, 48, covering 56 articles, have been made under the provisions of section 315 of the tariff act of 1922; 5 under the provisions of section 316, dealing with alleged unfair methods of competition; 18 under the provisions of section 317, dealing with complaints of discrimination by foreign countries against the commerce of the United States; and 97 reports under the general powers conferred upon the commission by the organic act of 1916 and by section 318 of the tariff act of 1922. In addition, there have been prepared 15 formal special reports to the President and the Department of State upon tariff matters, and numerous formal reports upon requests by committees of the Congress and in response to requests of individual Members of the Congress. . Furthermore, there have been almost innumerable minor and less formal investigations and reports made in compliance with requests from various officials of the Government; and finally, there have been many responses to requests from individuals for information which the commission was able to supply.

Summary of activities of United States Tariff Commission

[Under sections 315, 316, and 317 of tariff act of 1922, and general powers]

Under section 315:		
Number of commodities covered by 603 applications	375	
Number of commodities covered by investigations instituted		
Reports completed and sent to President, covering 56 com-		
modities		¹ 48
Under section 316:		
Complaints received	25	
Investigations instituted	6	
Reports completed and sent to President		5
Under section 317:		
Applications received	9	
Reports completed and sent to President		$^{2}12^{\cdot}$
Reports completed and sent to Department of State		6.
Under general powers:		
Special investigations instituted	14	
Special investigations completed		6
Special investigations completed Other reports and surveys completed		91
Special reports to President		6
Special reports to Department of State		9
	-	
Total reports and surveys since 1922		183

Of these reports, 160 were unanimous and 23 were not unanimous.

WITH RESPECT TO THE FLEXIBLE TARIFF IN PARTICULAR (2)

In regard to the work of the commission in the administration of section 315 of the tariff act of 1922, there seems to be some misconception, apparently occurring through contrast in the number of applications to the commission for investigation under section 315 $(\overline{603} \text{ to date})$ with the number of investigations completed and reported to the President (47, covering 55 articles).

The 603 applications cover approximately 375 separate commodi-These were divided approximately as follows: 200 commodities ties. were covered by applications requesting increases in duty, 125 commodities were included in applications requesting decreases, for 25 commodities the applications requested both increases and decreases, and for 25 commodities requests were made for adjustments of the rates of duty. The commission has instituted 83 investigations covering 91 commodities. In connection with these 83 investigations, there were submitted to the commission 176 applications. The commission has completed and sent to the President, under the provisions of section 315 of the tariff act of 1922, reports concerning 56 commodities involving 110 applications. Rates of duty have been changed by presidential proclamation on 38 commodities covered in 76 applications. In 33 instances the duties have been increased by proclamation and in 5 instances they have been decreased. Two of the 33 increases have been increases in finished products necessitated by increases in the duties on the raw materials. Considering the relationship between the duty on the raw materials and on the finished products, wheat flour and linseed oil, in the tariff act of 1922, the changes in these two duties represent decreases in the spread between the duties on the raw materials and on the finished products. By presidential proclamation the duty on flour was increased 331/3 per

Includes a letter to the President explaining why one investigation was discontinued.
 Includes 5 reports, the subjects of which were not covered by application.

cent, while the duty on the raw material, wheat, was increased 40 per cent. Likewise, the duty on linseed oil was increased 12.1 per cent in contrast to an increase of 40 per cent on the raw material, flaxseed.

In addition to the 38 commodities in connection with which presidential proclamations have been issued, there have been 18 commodities on which the commission has submitted reports to the President and upon which no proclamations have been issued. With respect to two of these, sugar and cotton fabric gloves, the President has issued statements setting forth the reasons for not changing the duties. These 18 commodities were the subject of 34 applications.

An analysis of the 603 applications submitted to the commission looking toward investigations under the flexible provisions may be of interest. In the first place, many of the applications are duplicates, or are virtual duplicates, because they refer to some one class of articles. For example, there were 117 applications or requests for an investigation looking toward a reduction in the duty on wild game birds. Upon the subject of vegetable and animal oils, 19 separate applications from different persons or organizations were received; 10 were received on canned tomatoes, 8 on cresylic acid, 7 on clover seed, and 5 each on onions, flaxseed, and dried peas. This statement is sufficient to indicate the frequency of duplicate applications.

Again, it may be pointed out that many of the applications received by the commission are misdirected with respect to the subject matter, or are unsupported by evidence, or are indefinite in character. Some so-called applications are in fact simply complaints; others can not be acted upon because the commodity is on the free list, or is not produced in this country, or is otherwise barred from a section 315 investigation by the limitations of the statute, a matter in many instances wholly misunderstood or overlooked by the applicants. Frequently a preliminary inquiry discloses that, although the investigation asked could be made, competitive circumstances in the industry are such that the relief asked for and needed would not be afforded by an investigation. Of the 375 commodities covered by applications received 147 have been withdrawn by the applicants or the applications covering them have been suspended or dismissed by the commission.

Of the 147 commodities, 75 were covered by applications for increase of duty; 72 were included in requests for decrease of duty; both increase and decrease of duty were requested as to 7; and as to 8 others, the applications were for readjustment of duties.

Experience has shown that it is advisable not to record as an application more or less informal complaints and impossible requests. Of the justifiably recorded applications a large number might have been dismissed outright. In its seventh annual report, page 37, the commission dealt with the subject of "procedure with respect to applications," and made, among other comments, the following leading statement:

It is, perhaps, unnecessary to point out that the provisions of section 315 are designed to be applied in the public interest and for general public purposes and not at the suit of private parties in their own private interest. No private right exists, as a matter of course, to the institution of an investigation looking to a change in an existing classification or rate of duty, nor is it possible for the Tariff Commission to expend the public money or to devote the public time to investigations and reports upon every alleged case of nonequalization of the differences between foreign and domestic production costs which a private party may happen to bring before it. Its action must be determined upon consideration of general public interest. It follows, therefore, that the applications for increases or decreases or changes in classification thus made by private parties must be subjected to careful scrutiny. In short, under this statute, an investigation does not follow an application as a matter of course. An application is regarded as in the nature of information drawing the attention of the commission to some alleged instance of nonequalization between the existing duty and the differences in foreign and domestic costs which it is supposed to measure.

Of the 83 investigations undertaken by the commission (involving 176 applications), 47 have been completed, 3 have been discontinued. and 33, covering 37 commodities, the subjects of 66 applications, have reached various stages of completion (cost data have been gathered in the field and in some instances tabulated). Of necessity, work upon these investigations has been interrupted by the many demands made upon the commission in connection with the pending readjustment of the tariff by the Congress. As is indicated elsewhere in this report, the energies of nearly the entire staff of the commission have been concentrated during the past year in rendering service to the Congress in connection with the tariff legislation of 1929. Some of these investigations will probably not be carried further because of some insuperable difficulty discovered after their initiation. It has been found impracticable to obtain costs of production of some articles after investigations have been ordered because of difficulty in finding comparable foreign and domestic articles. This situation was unavoidable. The obstacles could not be discovered until after the field work had been carried further than is feasible in a "preliminary" inquiry.

Whenever an application is filed with the commission for an investigation for the purposes of section 315, a preliminary report is prepared setting forth the competitive situation in the industry con-This report usually gives a description of the commodity, cerned. a statement of its uses, and data on production in the United States and in competing foreign countries, imports, exports, prices, and competitive conditions. To gather significant information, the commission often finds it necessary to send experts into the field. After examination of the data obtained in these preliminary field trips, the commission determines whether an investigation is warranted and if so it is formally ordered. These preliminary reports on applications furnish to the commission extensive information over a wide range of commodities produced in the United States and in the principal competing countries. This body of data, accumulating over a period of years, was of material value, when, upon short notice, the commission was called upon to prepare a Summary of Tariff Information for the use of the Congress in its work of tariff adjustment.

IV. WORK IN CONNECTION WITH TARIFF READJUSTMENT BY THE CONGRESS, 1929

(1) PREPARATION OF SUMMARY OF TARIFF INFORMATION, 1929 AND STATEMENTS WITH RESPECT TO NUMEROUS REQUESTS FOR TARIFF INFORMATION

Eight years ago, when the Congress undertook the revision of the tariff that resulted in the act of 1922, the Tariff Commission was comparatively new. Nevertheless it was organized and functioning and able to perform important service for the Congress. The commission furnished a complete set of Tariff Information Summaries, so-called, covering all the paragraphs of each schedule of the existing tariff act. These summaries were the result of five years' intensive study of all of the important industries of the country from the point of view of tariff legislation.

In addition to furnishing the basic information for the use of the Congress in tariff legislation, the commission's staff of experts rendered special service in drafting, revising, and qualifying the phraseology of the tariff act, in order to express clearly the will of the Congress. The work of the commission in this respect was especially detailed and significant upon the administrative provisions of the law and upon the unusually intricate and difficult chemical schedule.

The chemical schedule came up first for consideration, and the commission was prepared with organized information about all or nearly all of the numerous commodities covered by that schedule. Members of the numerous commodities covered by that schedule. Members of the committees of the Congress expressed at the time appreciation of the material assistance rendered by the chemical division of the staff of the commission. The legal division of the commission's staff performed an important service in reorganizing and systematizing the administrative provisions of the tariff act, which, growing up through many years, were largely obsolete, uncodified, and often not clearly expressed. Through the Tariff Commission, the Congress had placed before it a complete and wellorganized body of administrative provisions, ready in form to be debated advantageously and passed upon with understanding. The Congress accepted nearly all of the whole scheme of reorganization of the administrative sections prepared by the commission and enacted it into law.

In connection with the tariff readjustments of 1929, there has not been the same opportunity for pioneer work that there was eight years ago; in general the work of the commission in preparing for the present tariff revision has consisted largely in building on the earlier foundations. The staff divisions have brought the information up to date, and have added to and revised it as changes in the industrial and commercial world have required. This is work that entails keeping fully abreast of the times with changes in manufacturing conditions and in commercial practices.

When, early in December, 1928, it was decided that there would be an adjustment of tariff rates at the special session of Congress called by the President, the energies of the commission were especially directed to preparing Tariff Information Summaries. Detailed reports on each commodity were prepared in the commodity divisions. These draft reports were edited and critically scrutinized by other divisions of the staff, reviewed and revised by the commission, and forwarded to the Committee on Ways and Means as fast as they were completed. These summaries were constantly used by members of the Committees on Ways and Means and Finance during the public hearings. The summaries were prepared under great pressure, but were completed in time for the Committee on Ways and Means to use as it took up in order the various schedules. At the time the Tariff Information Summaries were transmitted to the committee, they were necessarily (by reason of the haste imposed) furnished in separate pamphlets, schedule by schedule; but when the House bill amended by the Committee on Finance reached the Senate the separate pamphlets were gathered into one large volume and a copy was on the desk of each Senator. The subject matter of the Tariff Information Summaries is as

The subject matter of the Tariff Information Summaries is as broad as the tariff act itself. There are in most of the schedules many paragraphs providing one rate of duty for a great number of articles of commerce specifically enumerated; or there may be several groups of enumerated commodities in the paragraph, for each of which a separate duty is provided. In the basket clauses of many paragraphs, there are many commodities with one rate of duty. The Congress needs as a guide for its action information about each of the distinct commodities, whether or not they are mentioned by name, and whether or not they are combined in the final treatment given them. Often upon the basis of specific information as to particular commodities the Congress may provide new classifications or new duties or it may transfer some from one paragraph to another.

Such information collected in the summaries consists first of all in its more obvious aspects in bringing out what the course of domestic production has been, and what the course of imports has been. Sometimes imports are increasing, sometimes they are declining; sometimes the domestic production is increasing, sometimes declining; and such information is directly usable and significant. But more important than the tables of figures respecting production, imports, prices, costs of production (if available), and the like, is the commentary or supplementary information furnished in the text and which comes mainly toward the end of each summary under the caption "Competitive conditions." If it be shown that because of a change in style the demand for a certain commodity is declining and some branch of the domestic industry is suffering; or that there has been a recent rapid change in the process of production at home or abroad affecting the commodity; or that new commercial circumstances have arisen so that the competition of imports (even though still small) has a significance for the present and immediate future that they did not have in the past-all such statements, if well substantiated, are as important and as significant as facts that lend themselves to numerical expression.

A useful section of each Tariff Information Summary, coming at the end after the statement on "Competitive conditions," is the citation and analysis of Treasury and court decisions affecting the commodity. Frequently a commodity is described in various terms in more than one paragraph of the tariff act, and customs officers or the Treasury Department and, on review, the customs courts must decide which provision most properly describes the merchandise and fixes the rate of duty. Information concerning the dutiable status of such merchandise enables the Congress to consider whether the wording of existing law as administered carries its wishes into effect.

In addition to the information under the heading "Competitive conditions" which was submitted to the Committee on Ways and Means and printed by order of the committee, data more in detail were furnished to the committee orally by members of the staff of the commission.

Many other special requests for information were made upon the commission by the Committee on Finance of the Senate or some member of it or by Senators who were not members of the committee, subsequent to the furnishing of the Tariff Information Summaries, and numerous supplementary statements were prepared when the bill was being considered by the Committee on Finance and before it was reported out.

Comments and suggestions for changes in phraseology, which are more fully described on page 13 of this report, were submitted to the Committee on Finance.

Members of the House of Representatives and of the Senate, as well as leaders in the Nation's business and in the ranks of agriculture, have testified to the effectiveness of the Tariff Commission's work in the recent tariff legislation by the Congress. Crowded into the 20,000 pages of record amassed at the hearings before the Committee on Ways and Means and the Committee on Finance are hundreds of references to the work of the Tariff Commission and the data which it has prepared. During the hearings members of these committees made constant references to the Summary of Tariff Information, 1929, and repeatedly checked statements to these summaries. Interested parties, representing domestic and foreign producers and importers, appearing at the hearings, often referred to the statements contained in the commission's documents and reports for the facts upon which they based their arguments.

Exhibiting a copy of the Summary of Tariff Information, 1929, on the floor of the Senate on October 1, 1929, Senator Reed, of Pennsylvania, took occasion to say:

No one can glance through it without realizing the mass of knowledge that has been accumulated and condensed in its 2,753 pages.

Without that volume and without the men who made it we would be acting completely in the dark; without that volume we would be getting discordant statements of fact from the parties in interest; without it we would be utterly at a loss to know—we who are amateurs at most of these subjects—these uses of the various commodities, their source, the volume of production in the United States, and the amount of our foreign trade in them.

It is to the Tariff Commission alone that we owe the fact that we are working on this bill with some degree of intelligence. I think it is no more than just to the Tariff Commission to make that statement.

Senator Barkley, of Kentucky, also took occasion on the floor of the Senate to commend the work of the commission, when, on October 1, 1929, he said:

I join with the Senator from Pennsylvania (Mr. Reed) in expressing the highest regard for the work performed by the Tariff Commission in matters of investigation, in the assembling of facts, not only in the performance of their own duties in recommending rates to the President, but in enabling members of the Finance Committee and of the Senate generally to have a better picture of the tariff situation, a better picture of the trade relations of our own country with other countries; and I think, on the whole, the work of the tariff experts is to be commended.

I think, on the whole, the investigators sent out by the Tariff Commission have been honest, hard-working men; and, so far as I am personally concerned, the result of their labors has been of invaluable assistance to me as a member of the Finance Committee in the consideration of this tariff bill.

(2) Assignment of Experts to the Committee on Ways and Means and to the Committee on Finance

Assignments of employees of the Tariff Commission to assist members of the Committee on Ways and Means of the House of Representatives and the Committee on Finance of the Senate in the pending tariff legislation are of two types.

(1) The first type is general assignments to the staff to furnish upon request information on particular subjects which may be under consideration by either committee or by an individual member. This general assignment followed requests by Representative W. C. Hawley, chairman of the Committee on Ways and Means, and by Senator Reed Smoot, chairman of the Committee on Finance, that the commission put at their disposal all available information and the services of members of the staff during the public hearings, the executive meetings of the committees, and the consideration of the tariff bill on the floor of the House and Senate.

Practically all of the commodity experts of the commission's staff have been called upon to serve as the tariff schedules have come up for discussion in the committees. All of these experts are experienced in their special fields, some of them having 8 or 10 years' service, and none of them less than 5 years of office and field work with the commission.

The work entailed in this general assignment, aside from the preparation of summaries of tariff information for the use of the Congress and the public, included attendance at the public hearings on the pending bills before the Committee on Ways and Means and the Committee on Finance, analyses and checking of testimony of witnesses at the hearings, preparation of summaries and of digests of the testimony at the hearings and of statements as to the important tariff problems in each schedule, and the collection of supplemental information for the use of members of the committees.

A list of the commodity experts in each division of the commission and the particular products or industries with which each expert is especially familiar has been furnished members of committees, and the services of these men have been made available on short notice to both majority and minority members of the Committee on Ways and Means and the Committee on Finance.

(2) The second type of assignments resulted from direct requests of Senators for experts to assist them personally during the consideration of a particular subject or during the consideration of the bill as a whole. Requests for this type of assignment have come principally from members of the minority of the Senate Committee Four economists from the commission were, upon on Finance. request, assigned to assist the ranking minority members of the Senate Finance Committee. These men are expected to be of all possible assistance to the Senators to whom they were assigned, not only to supply information which they have at hand but to draw upon all information available in the commission's files or through its staff. They have served in an individual capacity, their work depending largely upon the special requests of the Senators whom they assisted. They have gathered factual information, sometimes obtained from many sources, respecting particular commodities in the tariff act, and have organized such information for the particular use required. They have further acted as contact agents, making available to the Senator to whom they are attached the information already gathered and organized by others and in the possession of the commission.

V. DIFFICULTIES ENCOUNTERED IN THE ADMINISTRATION OF SECTION 315

The difficulties encountered in the administration of section 315 are discussed in detail below under the headings: (a) Costs of Production, (b) Comparability of Domestic and Imported Products, (c) Principal Competing Country, (d) Principal Market or Markets, and (e) Transportation.

(a) Costs of Production

1. DIFFICULTIES IN OBTAINING DOMESTIC COSTS

In most investigations it is not only possible but practicable to obtain adequate cost-of-production data for domestic industries for the purpose of tariff adjustment under section 315. Since 1922 the commission has obtained domestic costs of production in all investigations ordered by the commission, but it is a difficult and expensive process to obtain cost data for some industries even under the most favorable conditions. The cost records of the individual company may be entirely adequate in themselves, but to be comparable with the costs obtained from other companies must be reorganized and retabulated. Most firms have adequate financial records of income and expense, but not many of them have a complete cost system in which all elements of cost are distributed to particular classes of articles produced. In some industries only the most efficient concerns keep adequate cost records, and costs obtained from such concerns alone would hardly be representative of the industry as a whole. In many investigations conducted by the commission cost records were not kept in a form that was readily usable for comparison and the commission's accountants had to analyze the available information, work out cost statements, and segregate or allocate the cost data for the particular product or products under investigation.

Investigations of the costs of production of farm products involve additional problems, because a great many farmers produce a given article, which makes the determination of representative costs difficult; because ordinarily no cost records are kept; and because in calculating costs many of the charges, such as the labor of the farmer and his family, the horse labor, the value of some feeds and roughage, and interest charges, must be imputed or estimated.

An additional difficulty in obtaining cost data is the time required to get the basic information and to tabulate and summarize it in usable form for purposes of the law. As a rule it requires many months of field and office work by a large number of experts of the commission's staff to obtain the necessary data in important investigations. "Cost of production" is by definition an exact and mathematical term, and to obtain it requires a careful examination of cost records, prepared and interpreted under rules of economics and of cost accounting.

All these obstacles to obtaining costs-of-production data apply to both domestic and foreign industries, but they are multiplied when costs are to be obtained in foreign countries and in a foreign language.

2. DIFFICULTIES IN OBTAINING FOREIGN COSTS

The commission has found in most of the investigations in foreign countries that after the initial contacts are made individual producers are as a rule not antagonistic to the commission or its agents. Cost records are sometimes refused, but with courtesy and with no show of irritation. The degree of personal ill feeling engendered by the commission's cost investigations abroad has been overemphasized. The same degree of opposition may be encountered under any form of flexible provisions under which an attempt is made to obtain actual and competitive conditions in foreign countries affecting a particular product or industry.

The extent to which the commission has been able to obtain foreign cost-of-production data for purposes of section 315 may be summarized as follows: Out of a total of 83 investigations for the purposes of section 315, foreign cost-of-production data were obtained in 49 instances. In only nine investigations were costs not obtained because of objections of foreign governments or because foreign producers refused to give cost data. Of these 49, in which costs were obtained, costs in 46 were checked directly to the books of the producers; in two instances statements of foreign costs were obtained, but no opportunity was granted for examination of the original cost records, and in one instance costs were calculated from collateral information, such as prices, wages, and prices of raw materials.

In 21 of the remaining 33 investigations invoice prices were used as evidence of foreign costs; in 9 of these, invoice prices were used either because of the objections raised by foreign governments or because foreign producers refused cost data; in the other 12 of the 21 investigations, agents of the commission were not sent into the field to secure foreign cost data, either because other information available to the commission made it unnecessary or because the commission had reason to believe that foreign cost data could not be obtained. The remaining 12 investigations have either been suspended or have not reached the stage where the ascertainment of foreign costs has been attempted.

A table showing the extent to which foreign costs of production were obtained follows:

Summary of foreign costs of production and other data obtained in investigations under section 315 of the tariff act of 1922

Foreign cost data obtained: 46 Foreign cost data obtained and verified	
Total number of investigations in which cost data have been ob- tained	49
 Invoice prices used: Invoice prices used either because of objections raised by foreign governments or because of refusal by foreign producers9 No attempt used to secure foreign cost data either because other information available to the commission made it unnecessary, or because the commission had reason to believe that foreign cost data could not be obtained12 	
Total number of investigations in which invoice prices have been used Investigations which have been suspended or have not reached the stage	21
where foreign cost data have been attempted Total investigations ordered by the commission for purposes of section 315	<u>1</u> 3
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3. INVOICE PRICES AS EVIDENCE OF FOREIGN COSTS

Where foreign cost-of-production data were not obtainable or were considered unobtainable by the commission from the cost records of the foreign producers, or where the commission deemed it impracticable to ascertain the foreign costs, invoice prices of the article under consideration were resorted to as evidence of foreign costs. Difficulties encountered in obtaining foreign costs may be due to any or all of the three causes set forth under (a), (b), and (c).

(a) The articles invoiced through the customhouse may not be sufficiently described for purposes of exact comparison with the domestic articles.

(b) The invoice price may be based upon the American market price of similar articles and may be only remotely related to the actual cost of production abroad. Chinese peanuts, for example, sell in the Chicago market for almost exactly the same price as a similar grade of domestic peanuts, and the invoice price is the Chicago price, minus transportation and duty.

(c) Invoice prices presumably include a profit to the foreign producer or manufacturer and to the foreign exporter, and some deductions therefore probably should be made from them before they are compared with domestic costs. The addition of specific provisions for such deductions might be considered in amending section 315 of the present tariff act.

4. MISCELLANEOUS COST PROBLEMS

Joint costs.-Many commodities are produced jointly with other products. The degree of relation among the products may vary from that of the inseparable production of two products, such as wool and mutton, to that of accidental aggregations in which a more or less unrelated list of products is produced under the same management, in the same factory, and more or less by the same machines In other cases the cost of production of any one of the and labor. products is largely a matter of allocation on some reasonable basis of a portion of the joint costs to the particular product. The commission in such allocations has ordinarily used the so-called sales ratio basis; that is to say, the joint cost of the various products has been distributed in the ratio of the relative sales value of the products. This method may be open to objection, first, when identical methods and identical products are not found in the United States and in a foreign country, and, second, when the price of one product either in the United States or abroad may be abnormally depressed. If, for example, the competition from imports has depressed the price of one of the joint products under investigation, the domestic cost of such product is also reduced automatically by the sales value method of allocation. It becomes necessary in such cases to take such price conditions into consideration.

Costs of by-products.—It sometimes happens that the product for which costs are sought is either a by-product of a manufacturing process or made from a raw material which is a by-product or a waste product. If the article is a by-product, it may have no cost of production except in a nominal or arbitrary sense. If it is made from a by-product which has no regular market value, the cost of the principal constituent can not be determined. For example, the commission did not find cost of production of casein in Argentina because it was unable to ascertain a satisfactory cost or value for skim milk, a by-product of the dairy industry, and the principal raw material in the manufacture of casein.

Depreciated exchange.—In some countries where the value of money has depreciated in terms of gold it is almost impossible to obtain costs of production which will be representative of competitive conditions over a considerable period. This difficulty is diminishing as European currencies are becoming stabilized, but in certain countries the variations in the purchasing power of local currency from month to month still present difficulties in obtaining cost-of-production data.

Part-time operations in domestic plants.—In domestic plants operating only part time, unit costs of production were found to be much higher than they would have been under normal conditions. Here a distinction must be made between low-operating conditions because of inefficient management, or an antiquated plant, and low-operations because of competition from imports.

Selling expenses.—Section 315 emphasizes differences in costs of production as a basis for determining equalizing duties. The commission has not included selling expenses in making cost comparisons when such expense could be segregated from other costs. In some instances, however, selling expenses constitute an important cost factor. Domestic producers, for example, may have expensive selling organizations, and may do a reasonable amount of advertising, and as a result of their sales campaign a similar imported article may sell readily along with the domestic product with little selling expense to the importer. On the other hand, a large sales organization may be required to market an imported product, because the domestic factory management may do its own selling, without an expensive independent sales organization.

Foreign export tax.—In some cases a foreign export tax or its equivalent has been charged upon articles exported to the United States which have been the subject of investigation for purposes of section 315. So long as this tax is charged it is an expense item to the particular exporter, and is an expense included in the cost to an importer or purchaser in the United States, but if the commission's findings were based upon cost, with the export tax included, a revocation of the export tax could offset the findings to the extent of the tax.

Finishing a product in the United States which has been partially manufactured abroad.—The commission has found difficulty in making foreign and domestic cost comparisons when an imported article is shipped in a semifinished state and is finished in the United States. Specifically, is a bent-wood chair, shipped knocked down and unvarnished, from Poland, and assembled and varnished in the United States, a product of the United States or of a foreign country? This difficulty is aggravated when there is no sale of the article in the United States in a form comparable with the imported article.

(b) COMPARABILITY OF DOMESTIC AND IMPORTED PRODUCTS

The comparability of domestic and imported products has often presented a serious problem in investigations for the purposes of section 315. A distinction must be made between comparable competitive articles and those which are comparable for purposes of cost comparison.

A 10-cent article may be highly competitive with a 15-cent article, but it may be economically incorrect to compare the unadjusted cost of one article with that of another. Under the present wording of section 315 it is not certain that such adjustments could be made.

A further difficulty arises in comparability when the representative nature of the samples compared is under consideration. A number of samples of domestic and imported textile fabrics, for example, may be almost exactly comparable, but one or the other set of samples may not represent the domestic or foreign industry. The bulk of the imports may be of a finer average yarn count than the bulk of the domestic production, in which case any sample comparison is nonrepresentative of one or the other lines of merchandise. Some of the domestic products may be produced at relatively low cost under conditions of mass production, but in finer fabrics requiring special care, and perhaps some handwork in manufacture, competition from imports may be so strong as to preclude their production in the United States in important quantities.

An extreme case of the difficulties of comparability is that in which there is no domestic production of articles similar to the imports. In such cases the principle of the differences in cost of production It is not assumed that the flexible provisions should can not apply. be so interpreted as to create an entirely new domestic industry, but it probably is consistent with the general principle of the flexible tariff that special grades of a general class of commodities should be protected, even though there is no actual commercial production of the special variety at the time the manufacturers of closely related articles are seeking relief for the whole line of their products. One special case encountered by the Tariff Commission is that of perfume Because of the organization of the trade, a perfumer makes bottles. an annual contract for a particular type of bottle either in the United When the bottle is made abroad, it is not ordi-States or abroad. narily made in the United States, and, conversely, when made here it is not usually made abroad. Under these conditions costs can not be obtained for exactly similar articles produced concurrently, and any comparisons must be based upon calculated or built-up costs in one or the other country.

(c) PRINCIPAL COMPETING COUNTRY

The commission has had difficulty in some investigations in determining the principal competing country for purposes of section 315. In some instances the imports are so equally balanced between two or more countries that the principal source of imports has changed from month to month and from year to year. Other cases have been found in which an international cartel has exported the product from one or another foreign country arbitrarily to suit particular conditions at a given time. In both of the above instances it might be advisable to consider costs for at least two competing countries in equalizing the duty.

In other cases a country may be second in volume and value of imports, and therefore not the principal competing country by quantitative tests; but the unusually low value of the imports may make the competition from such imports more severe than from the country from which imports are larger.

(d) PRINCIPAL MARKET OR MARKETS

The determination of the principal market or markets for the purpose of calculating transportation costs for any given product in the United States is difficult because of the different possible meanings of the term "principal market or markets." Different views have been entertained. By one interpretation the principal market for purposes of section 315 may be the principal port of entry of the foreign product. By another interpretation the principal market may be the chief consuming market, irrespective of whether the product is of domestic or foreign origin; from another point of view it may be the market in which domestic and foreign products meet in competition in the largest quantities; again, and from another point of view, a seaboard point, such as New York, may be found to be the principal market for the imported product, and an interior point, such as Detroit or Chicago, may be found the principal market for the domestic product. And still another view has been suggested, that the principal market in the United States should be the place in which the distribution of the largest volume of the article takes The question is raised as to which of these or what other place. method the Congress desires to have followed in determining the principal market or markets for the purposes of section 315.

(e) Basis for Calculating Transportation Costs to Principal Market or Markets

On what basis shall transportation rates from points of production to the principal market or markets be calculated is a question that presents further difficulty. Following the opinion of the Attorney General, transportation of the foreign and domestic product to the principal market of the United States has been considered in determining the duty required to equalize the differences in costs of production. The ascertainment of the principal market or markets for any particular product and of the transportation cost from places of production to these markets requires a detailed analysis of the distribution of the foreign and domestic products. The problem is ordinarily a simple one for the foreign product because usually it is shipped to the United States from a single locality or through a single center or port from the points of production in the foreign countries.

Many different transportation rates ordinarily must be computed for the domestic product because the factories or farms supplying the principal market or markets may be widely scattered. The New York market, for example, may draw supplies of a product from as far west as Chicago or St. Louis, and as far south as Galveston or New Orleans. If the several rates are weighted by actual shipments from the plants covered by the investigation to the principal market or markets, the result is different from that obtained when the rates are weighted by the production of the domestic plants included in the investigation. A question arises in such cases as to the weight which must be given to each transportation rate in arriving at an average rate. The method of calculating transportation as an advantage or disadvantage in competition should be clarified by the Congress. The methods that have been considered by the commission are:

(1) Weighting transportation rates by shipments as actually made from the plants at the time of the investigation to the principal market.

(2) Weighting transportation rates, in effect at the time of the investigation to the principal market, by the production of the plants included in the investigation.

(3) Weighting transportation rates, in effect at the time of the investigation to the principal market, by the production of the plants that can reasonably be expected to ship to the principal market.

VI. LEGAL PROCEEDINGS UNDER SECTION 315

PENDING PROTESTS

Since the publication of the commission's annual report for 1928 numerous protests have been filed by importers against the action of collectors of customs in assessing duties upon various products as to which proclamations have been issued by the President pursuant to section 315 of the act of 1922. Many of them and previous protests have been abandoned as a result of the decision of the Supreme Court of April 9, 1928 (J. W. Hampton, Jr., & Co. v. United States, 276 U. S. 394), affirming the judgment of the Court of Customs (now the Court of Customs and Patent Appeals) that section 315 and a tariff act having for a purpose protection of the industries of the United States are constitutional.

Protests are suspended to await a decision in the matter of sodium nitrite. This commodity was involved in an action for the issuance of a writ of mandamus to compel the Tariff Commission to divulge cost data obtained in the course of its investigation for the purposes of section 315, which was denied because pending decision on appeal the President issued a proclamation changing the rate of duty, thereby leaving unsettled the question concerning disclosure of cost data. (United States ex rel. Norweigian Nitrogen Products Company, Inc., v. United States Tariff Commission, 274 U. S. 106.)

VII. TARIFF CHANGES UNDER SECTION 315

Since the publication of the twelfth annual report of the commission the President has proclaimed the following changes in rates of duty imposed in the tariff act of 1922 pursuant to investigation by the Tariff Commission under section 315:

Onions.—Duty increased from 1 cent to 1½ cents per pound, effective January 21, 1929.

Cast polished plate glass, finished or unfinished, and unsilvered.— Duty increased on sizes not exceeding 384 square inches, from $12\frac{1}{2}$ cents per square foot to 16 cents square foot; above 384 but not exceeding 720 square inches, from 15 cents per square foot to 19 cents per square foot; above 720 square inches, from $17\frac{1}{2}$ cents per square foot to 22 cents per square foot, effective February 16, 1929.

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Peanuts, not shelled and shelled.—Duty increased on peanuts, not shelled, from 3 cents per pound to 4¼ cents per pound; on peanuts, shelled, from 4 cents per pound to 6 cents per pound, effective February 18, 1929.

Whole eggs, egg yolk, and egg albumen, frozen or otherwise prepared or preserved, and not specially provided for.—Duty increased from 6 cents per pound to $7\frac{1}{2}$ cents per pound, effective March 22, 1929.

Flaxseed.—Duty increased from 40 cents per bushel of 56 pounds to 56 cents per bushel of 56 pounds, effective June 13, 1929.

Fresh milk.—Duty increased from $2\frac{1}{2}$ cents per gallon to $3\frac{3}{4}$ cents per gallon, effective June 13, 1929.

Cream.—Duty increased from 20 cents per gallon to 30 cents per gallon, effective June 13, 1929.

Cylinder, crown, and sheet glass, by whatever process made, and for whatever purpose used, unpolished.—Duty increased on sizes not exceeding 150 square inches, from $1\frac{1}{4}$ cents per pound to $1\frac{7}{6}$ cents per pound; above 150 and not exceeding 384 square inches, from $1\frac{3}{6}$ cents per pound to $2\frac{1}{16}$ cents per pound; above 384 and not above 720 square inches, from $1\frac{5}{6}$ cents per pound to $2\frac{7}{16}$ cents per pound; above 720 and not exceeding 864 square inches, from $1\frac{3}{4}$ cents per pound to $2\frac{5}{6}$ cents per pound; above 864 and not exceeding 1,200square inches, from 2 cents per pound to 3 cents per pound; above 1,200 square inches and not exceeding 2,400 square inches, from $2\frac{1}{4}$ cents per pound to $3\frac{3}{6}$ cents per pound; above 2,400 square inches, from $2\frac{1}{2}$ cents per pound to $3\frac{3}{4}$ cents per pound, effective June 13, 1929.

Linseed or flaxseed oil, raw, boiled, or oxidized.—Duty increased from $3\frac{3}{10}$ cents per pound to $3\frac{1}{10}$ cents per pound, effective July 25, 1929.

The following table is a list of the subjects with respect to which changes in rates of duty have been proclaimed by the President under the provisions of section 315 since the enactment of the tariff act of 1922.

Article	Change in duty		Date of procla- mation		Effective date of change	
Wheat	Increased from 30 cents to 42 cents per)				
Flour, semolina, etc	bushel, 60 pounds. Increased from 78 cents to \$1.04 per 100 pounds.	Mar.	7, 1924	Apr.	6, 1924	
Millfeeds, bran, etc	Decreased from 15 per cent to 7½ per cent ad valorem.					
Sodium nitrite	Increased from 3 cents to 4½ cents per pound.	May	6, 1924	June	5, 1924	
Barium dioxide. Diethylbarbituric acid (Vero- nal).	Increased from 4 cents to 6 cents per pound. Increased—duty (25 per cent ad valorem) transferred to American selling price.		19, 1924 14, 1924		18, 1924 29, 1924	
Oxalic acid Potassium chlorate	Increased from 4 cents to 6 cents per pound. Increased from 1½ cents to 2¼ cents per pound.		29, 1924 11, 1925		28, 1925 11, 1925	
Bobwhite quail		Oct.	3, 1925	Nov.	2, 1925	
Taximeters		Dec.	12, 1925	Dec.	27, 1925	
Men's sewed straw hats	Increased from 60 per cent ad valorem to 88 per cent ad valorem on hats valued at \$9.50 or less per dozen.	Feb.	12, 1926	Mar.	14, 1926	
Butter	Increased from 8 cents to 12 cents per pound.	Mar.	6, 1926	Apr.	5, 1926	
Print rollers	Increased from 60 per cent ad valorem to 72 per cent ad valorem.	June	21, 1926	July	21, 1926	

Article	Change in duty	Date of procla- mation	Effective date of change
Paintbrush handles	Decreased from 3314 per cent ad valorem to 1634 per cent ad valorem.	Oct. 14, 1926	Nov. 13, 1926
Methanol (methyl or wood alcohol).	to 1635 per cent ad valorem. Increased from 12 cents to 18 cents a gallon.	Nov. 27, 1926	Dec. 27, 1926
Gold leaf	Increased from 55 cents to 82½ cents per 100 on leaves not exceeding in size 3% by 3% inches and on larger leaves in proportion.	Feb. 23, 1927	Mar. 25, 1927
Iron in pigs Emmenthaler type Swiss cheese.	Increased from 75 cents to \$1.12½ per ton Increased from 5 cents per pound, but not less than 25 per cent ad valorem to 7½ cents per pound but not less than 37½ per cent ad valorem.	June 8, 1927	Do. July 8, 1927
Cresylic acid	Decreased from 40 per cent ad valorem and 7 cents per pound based on Ameri- can selling price to 20 per cent ad valorem and 3½ cents per pound based on Amer-	July 20, 1927	Aug. 19, 1927
Phenol	ican selling price. Decreased from 40 per cent ad valorem and 7 cents per pound based on Ameri- can selling price to 20 per cent ad valorem and 3½ cents per pound based on Amer- ican selling price.	Oct. 31, 1927	Nov. 30, 1927
Crude magnesite	Increased from $\frac{1}{16}$ of 1 cent per pound to $\frac{1}{16}$ of 1 cent per pound.	Nov. 10, 1927	Dec. 10, 1927
Caustic calcined magnesite	He of 1 cent per pound.		
Cherries, sulphured, or in brine, stemmed or pitted. Rag rugs, cotton (hit-and-miss	Increased from 2 cents to 3 cents per pound. Increased—duty (35 per cent ad valorem)	Dec. 3, 1927 Feb. 13, 1928	Jan. 2, 1928 Feb. 28, 1928
type). Barium carbonate, precip-	transferred to American selling price. Increased from 1 cent to 1½ cents per	Mar. 26, 1928	Apr. 25, 1928
itated. Sodium silicofluoride	pound. Increased—duty (25 per cent ad valorem) transferred to American selling price.	Aug. 31, 1928	Sept. 15, 1928
Fluorspar		Oct. 17, 1928	Nov. 16, 1928
Potassium permanganate Onions Cast polished plate glass, fin- ished or unfinished, and un- silvered.	than 93 per cent of calcium fluoride. Increased from 4 cents to 6 cents per pound. Increased from 12½ cents per pound. Increased from 12½ cents to 16 cents per square foot on sizes not exceeding 384 square inches; 15 cents to 19 cents per square foot on sizes above 384 square in- ches and not exceeding 720 square inches; 17½ cents to 22 cents per square foot on	Nov. 16, 1928 Dec. 22, 1928 Jan. 17, 1929	Dec. 1f, 1928 Jan. 21, 1929 Feb. 16, 1929
Peanuts, not shelled and shelled.	sizes above 720 square inches. Increased from 3 cents to 4½ cents per pound on peanuts, not shelled; 4 cents to 6 cents per pound on peanuts, shelled.	Jan. 19, 1929	Feb. 18, 1929
Whole eggs, egg yolk, and egg albumen, frozen or otherwise prepared or preserved, and not specially provided for.	Increased from 6 cents to 7½ cents per pound.	Feb. 20, 1929	Mar. 2 2 , 1929
Flaxseed	Increased from 40 cents to 56 cents per bushel of 56 pounds.	May 14, 1929	June 13, 1929
Milk, fresh	Increased from 2½ cents to 3¾ cents per gallon.	}do	Do. '
Cream Window glass (cylinder, crown, and sheet glass, unpolished).	pound on sizes not exceeding 150 square] do	
	inches; 13% cents to $2\frac{1}{4}$ cents per pound on sizes above 150 square inches; 1% cents to $2\frac{1}{4}$ cents per pound on sizes above 384 square inches; 1% cents to $2\frac{1}{3}$ cents to $2\frac{1}{4}$ cents per pound on sizes above square inches; 1% cents to $2\frac{1}{3}$ cents per pound on sizes above 720 square inches; and not exceeding 864 square inches; 2 cents to 3 cents per pound on sizes above 864 square inches and not exceeding 1,200 square inches; 2½ cents to $3\frac{3}{3}$ cents per pound on sizes above 1,200 square inches; and not exceeding 2,400 square inches; and not exceeding 2,400 square inches; 2½ cents to $3\frac{3}{3}$ cents per pound on sizes above 2,400 square inches.	Turne 07 1000	T-l- 07 1000
Linseed or flaxseed oil	Increased from 3.3 cents to 3.7 cents per pound.	June 25, 1929	July 25, 1929

VIII. PROCEEDINGS UNDER SECTION 316

(1) COMPLAINTS AND INVESTIGATIONS

Unfair methods of competition and unfair acts in the importation or sale of imported articles are declared unlawful by section 316. During the last year several communications were received concerning such unfair methods and unfair acts, but correspondence conducted and conferences held from time to time with various domestic manufacturers and others failed to disclose any evidence of violation of that section. Consequently no investigation has been instituted.

(2) SYNTHETIC PHENOLIC RESIN

Progress was made toward the settlement of questions in litigation respecting synthetic phenolic resin of Form C, commonly known as bakelite, which have been pending since July, 1927. The commission's investigation was instituted in 1926. Domestic manufacturers of the product called bakelite and manufacturers of bakelite articles complained of infringement of patent rights of the Bakelite Corporation and of other unfair methods of competition or unfair acts in the importation or sale of the articles in the United States. Two hearings, one at the importer's request, were held, and findings and recommendations were submitted to the President in May, 1927. The findings of the commission may be summarized as follows:

1. That the industry in the United States engaged in the manufacture of synthetic phenolic resin of Form C and products thereof is efficiently and economically operated within the intent and meaning of section 316.

2. That a good will has been established for products of synthetic phenolic resin of Form C and that the name bakelite has become identified with complainants' products in the minds both of dealers and of the purchasing public.

3. That patents involved in the investigation are valid and that articles were imported into the United States and sold therein in violation of rights under such patents, which importation and sale constitute unfair methods of competition or unfair acts within the intent and meaning of section 316.

4. That products of synthetic phenolic resin of Form C are imported without any distinguishing mark, name, inscription, or label other than the country of origin so as to avoid confusion between imported and domestic products on the part of the purchasing public, which facilitates passing them off as domestic articles and constitutes an unfair method of competition or an unfair act within the intent and meaning of section 316.

5. That apart from violation of patent rights and failure to mark imported articles so as to distinguish them from domestic articles importers have not practiced any unfair method of competition or unfair act.

6. That imported articles are sold at less than complainants' sales prices and alleged costs of production, but that such practice alone does not constitute an unfair method of competition or unfair act.

Two of the commissioners dissented. One of them expressed doubt as to the jurisdiction of the Tariff Commission to determine the validity of contested patents involved in the findings and recommendations. The other commissioner dissented also on the ground that the investigation failed to establish one prerequisite of the granting of the relief sought by complainants, namely, that the United States industry was during the investigation or at the time of making the findings economically operated.

In the meantime, upon request of the President, the Secretary of the Treasury instructed customs officers to refuse entry of all synthetic phenolic resin of Form C and articles made wholly or in part thereof (except articles made by molding synthetic phenolic resin when mixed with other materials) pending completion of an investigation by the commission.

(3) APPEAL TO COURT OF CUSTOMS APPEALS (NOW COURT OF CUSTOMS AND PATENT APPEALS)

On July 13, 1927, an appeal was taken by respondent importers to the Court of Customs Appeals from the findings of the commission in the synthetic phenolic resin investigation. The appeal was based upon two major questions. As stated in the assignment of errors, they are:

(1) That a construction of section 316 which would authorize the Tariff Commission to entertain a complaint based upon alleged infringement of patent rights "is repugnant to the Constitution of the United States in that the same would be tantamount to an unlawful delegation of legislative or judicial functions to a ministerial body."

(2) That if properly construed "section 316 of the act of Congress of September 21, 1922, does not authorize and empower" the Tariff Commission "to inquire into issues of law and fact arising out of patent rights and/or patent infringements" and the commission was "therefore without jurisdiction."

On May 25, 1928, the Court of Customs Appeals held the provision in section 316 of the tariff act of 1922 giving to importers and consignees the right of appeal from findings of the Tariff Commission upon a question or questions of law to be constitutional and overruled the motion to dismiss the appeal. (16 Ct. Cust. App. 191.) The legislative history of that court was reviewed at length and the court declared to have jurisdiction of the matter as a case or controversy.

(4) ACTION BY THE SUPREME COURT

On August 24, 1928, the Bakelite Corporation presented a petition to the Supreme Court of the United States for the issuance of a writ of certiorari to review the foregoing judgment of the Court of Customs Appeals. Later the Bakelite Corporation filed a petition for a writ of prohibition to restrain the Court of Customs Appeals from entertaining the appeal from the commission's findings. On October 29, 1928, the Supreme Court denied the petition for a writ of certiorari and set down the petition for prohibition for hearing in January, 1929.

On May 20, 1929, prohibition was denied. (Ex parte Bakelite Corporation, 279 U. S. 438.) The Court of Customs Appeals was held to be a legislative court and not a constitutional court within Article III, section 2, of the Constitution. It was also held that an appeal under section 316 of the act of 1922 from findings of the Tariff Commission sustaining a charge of unfair competition is within the jurisdiction of the Court of Customs Appeals. This is so whether or not it be a case or controversy in the constitutional sense.

The decision of the Supreme Court leaves the matter in the Court of Customs and Patent Appeals for a judgment on the merits.

(5) IMPORTANCE OF COMMISSION'S JURISDICTION OF PATENT INFRINGEMENTS

Protection of domestic owners of patents from violation of their patent rights through the importation and sale of infringing articles is wholly inadequate under existing law apart from section 316. Such infringing articles may be and are imported in large quantities and distributed throughout the United States. The names of importers are not disclosed by customs officers. As a result domestic owners of patents are unable to protect their rights before importations are cleared through the customs and distributed. But if the owners of patents could get timely information of imports of articles infringing their patents they still would not have an effective remedy in the courts. Actions against individual importers would involve a multiplicity of suits. While suit was pending against one or two importers the article might be obtained from abroad by or through other importers. There is no limit to the number of importers or the ports of importation. Furthermore, domestic patentees can not reach foreign manufacturers through the process of Federal courts.

Stoppage of importation of infringing articles through an order of exclusion from entry is the only effectual remedy. The jurisdiction of district courts and the scope of any decree issued by them do not extend to the importation or exclusion of imported merchandise from entry into the United States. Section 316 therefore, as construed by the Tariff Commission in its findings in the matter pending on appeal in the Court of Customs and Patent Appeals, affords an exclusive remedy.

(6) TEMPORARY ORDER OF SUSPENSION OF ENTRY

In previous annual reports attention was invited to subdivision (f) of section 316 of the act of 1922. This subdivision reads:

(f) That whenever the President has reason to believe that any article is offered or sought to be offered for entry into the United States in violation of this section but has not information sufficient to satisfy him thereof, the Secretary of the Treasury shall, upon his request in writing, forbid entry thereof until such investigation as the President may deem necessary shall be completed: *Provided*, That the Secretary of the Treasury may permit entry under bond upon such conditions and penalties as he may deem adequate.

The commission pointed out some of the difficulties of administering that provision so as, on the one hand, to afford interested parties opportunity to be heard before action was taken, and, on the other hand, not to permit the ends of the statute to be defeated. Under existing law the importer may import and get his merchandise if the Secretary of the Treasury in his discretion permits entry under bond. In the bill H. R. 2667, now before the Senate, the subdivision (which was changed from (f) to (e) in section 337 of the bill) was modified so as to give importers the right to make entry under bond without first seeking permission from the Treasury Department.

IX. PUBLIC HEARINGS

Hearings held by the commission since the publication of the twelfth annual report are shown in the following table.

Subject	Date of hearing	Pages of transcript of minutes of public hearing
Section 315: Flaxseed Linseed oil Sodium phosphate Barium chloride	Dec. 5, 6, 1928 Dec. 12, 13, 1928 Jan. 15, 16, 1929 Mar. 5, 1929	294 201 188 22

At least 30 days in advance of each public hearing for the purposes of section 315, a preliminary statement of information is issued for the use of parties interested. This statement summarizes the data on production, trade, prices, costs, marketing, and transportation obtained by the commission in the investigation up to the time of the issuance of the statement. Costs of manufacture of individual concerns and other information in the nature of trade secrets or processes are excluded from the statement, as required by section 708 of the revenue act of 1916. At the public hearings discussions center around the tentative data presented in the statement.

Each investigation involves problems peculiar to the subject under consideration. The statement of information sets forth questions designed to stimulate discussion of problems raised with a view to assisting the commission in their solution.

At the public hearings all parties interested are given opportunity to be present, to produce evidence, and to be heard. At these hearings parties interested, including producers and importers, have appeared, and at a number of hearings foreign producers and representatives of foreign governments have participated in the proceedings. The hearings are rather informal in character, the strict rules of evidence in legal procedure not being followed and the method being, rather, to have a complete discussion of the salient facts pertinent in each investigation. Accordingly, all persons, irrespective of their particular interest, have equal opportunity to present evidence.

X. THE ADMINISTRATIVE DIVISION

The administrative division is under the immediate direction of the secretary of the commission, who is its chief executive officer and budget officer. The secretary is the custodian of the commission's records and of its official seal.

The assistant to the secretary assists in the general direction of the administrative division and is, by designation, the disbursing officer of the commission.

As organized by the commission the administrative division includes the secretary's office, the finance section, the mails and files section, the docket section, the supply section, the publications section, the stenographic section, and the messenger force.

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FINANCE SECTION

Budget and appropriation estimates are prepared by the secretary as budget officer under the direction of the commission. He also appears before the appropriation committees of the Congress when The finance section the appropriation bills are under consideration. prepares all purchase orders, on approved requisitions; examines administratively all accounts for personal services, purchases, traveling expenses, communication services, transportation charges, printing and binding, and all other expenditures. The general appropriation records, purchase and personal service pay cards, and distribution ledgers are maintained in that section, and there requisitions for funds and certificates of deposit and redeposit are prepared. The work requires familiarity with the general laws relating to public expenditures and with the decisions thereon, as well as with the regulations of the General Accounting Office, of the Bureau of the Budget, of the General Supply Committee, of the Interdepartmental Board of Contracts and Adjustments, of the Federal Specifications Board, of the Interdepartmental Board of Simplified Office Procedure, of the Government Printing Office, and of other coordinating agencies of the budget and accounting organization.

MAILS AND FILES SECTION

The principal files of the commission are maintained in the mails and files section. Under the regulations of the commission all incoming and all outgoing correspondence and accompanying papers and documents are recorded and filed in this division through a system devised and adapted especially for the work of the commission. A method of recording, indexing, and cross indexing is in use which is based upon subjects, but by cross-references the records are available also through the names of correspondents and other parties concerned. The system, with its application, has been effective for the purpose for which designed, and has been adopted for the reorganization of at least one other large office of the Government.

DOCKET SECTION

In the docket section all applications under the provisions of sections 315, 316, and 317 of the tariff act of 1922 are recorded, numbered, and docketed. A record of all applications, showing name of applicant, article concerned, and the nature of the application, is maintained for each commissioner. A separate record is kept of the status of each application received and of the proceedings in each investigation instituted thereon by the commission. Information concerning these records is furnished from day to day in response to numerous inquiries by members of the commission and of its staff, as well as by other interested persons, both orally and by correspondence. Notices of investigations are prepared and, when approved by the commission, are posted and served on interested parties, notices are published and certificates of publication are procured, preliminary statements are sent to parties interested, and special docket files of each investigation are maintained.

SUPPLY SECTION

The supply section maintains and issues a stock of supplies used in the work of the commission. A record is made of all supplies and equipment received and issued, and requisitions are prepared for supplies needed for replacements or for additional stock. The section also operates the telephone switchboard and service of the commission.

PUBLICATIONS SECTION

The publications section prepares all requisitions for printing and binding; receives and records all estimates and charges for such work; handles the receipt, record, and return of all proof sheets for text and illustrations for published commission reports; issues all publications and effects the distribution of printed reports. The section also includes the photostat equipment and the duplicating equipment, consisting of mimeograph machines, multigraph, typesetters, stitching machine, addressograph, and pay-roll machine.

It may be interesting to note that during the past year there were distributed more than 17,000 copies of the commission's printed reports, in addition to the large numbers of preliminary statements and other mimeographed material sent to interested parties. Practically all of this distribution was in response to personal requests from members of the Congress, trade organizations, representatives of foreign governments, and parties interested in the proceedings of the commission. In addition, the Superintendent of Documents at the Government Printing Office reports that during the fiscal year 1928 there were sold to the public, for cash, 3,814 copies of the commission's printed reports carried in stock by him. During the year there were produced 11,463 photostat prints. A large number of these were made for the use of the Department of Commerce in its study of the chemical industry. There were also printed on the mimeograph and multigraph machines more than 811,000 sheets, many of them very large, covering about 600 separate requisitions.

STENOGRAPHIC SECTION

The stenographic section includes a force of stenographers and typists who serve all divisions of the commission's staff, and at times is augmented by temporary employees when the pressure of work so demands. The work of the section includes the taking and transcription of dictation which involves the use of technical terms and difficult expressions, copying from rough draft of the same character, cutting and revising mimeograph stencils, and the preparation of complicated statistical tables. All this work is done on both shortcarriage and long-carriage machines and by the use of the mimeoscope.

MESSENGERS

The messenger force includes a mechanic and five messengers who perform the usual duties of such positions. Three of the messengers are stationed adjacent to offices of the commissioners and the secretary, and two are used primarily for outside messenger service to other branches of the Government. The mechanic attends to the repair and maintenance of equipment not requiring the service of special tools or of experts.

XI. THE ADVISORY BOARD

The advisory board has continued to function during the past year as the planning, coordinating, and directing agency of the commission in the work under the general powers of the commission and under sections 315, 316, and 318 of the tariff act of 1922. It is charged, furthermore, with responsibilities of review, criticism, revision, and interpretation of the results of investigations when reported to the commission.

The personnel of the advisory board is as follows: Chief economist, chairman; chief of economics division, vice chairman; chief investigator; chief of the legal division; chief of the commodity division in whose field the investigation falls; and the economist assigned to the particular investigation concerned. At times a second economist is assigned to study a special phase of the subject under consideration and he acts temporarily as a member of the board. In the performance of these duties it is assisted by the economics division, the commodity divisions, the accounting division, and others.

Because of the nature of its responsibilities the supervising authority of the advisory board is exercised at all stages of investigations. When tariff information surveys are in course of preparation, it passes upon the plan or outline for the undertaking, keeps track of the prosecution of the work, revises and otherwise participates in the presentation of the final result. With respect to applications for an investigation for the purposes of section 315, the advisory board recommends to the commission, after preliminary inquiries, either that an investigation be instituted or denied, and states in full its reasons for or against granting the request of the applicant. When an investigation is instituted it participates in the formulation of the plans of procedure calculated to secure representative and comparable costs and other data in the United States and in the competing foreign countries. During the progress of an investigation it takes such action as may be necessary to anticipate or solve difficulties and to prevent omissions, inconsistencies, and inaccuracies. Upon the completion of any stage of an investigation the advisory board has responsibility for the substantive matter as well as for the form of the report submitted to the commission, and frequently in its letter of transmission interprets the report at length, and offers suggestions as to alternative methods for the solution of problems involved. The statements of fact in an investigation, both those embodied in tables and in the text, must not only be substantiated as complete and accurate but also they must establish, as far as possible, bases for the ultimate determinations.

The section 315 investigations in progress or completed during the past year, the various tariff information surveys completed or in progress, and other tasks performed by the commission, all or most of which have come before the advisory board, are reviewed elsewhere in this report.

XII. THE ECONOMICS DIVISION

The economics division is the agency through which economic aspects of the commission's investigations are studied. Economists and statistical and accounting experts give their attention to problems that arise with respect to commodities or industries that are the subject of investigation, to the examination of basic data, and to work prepared by the commodity and other experts of the commission. Especially do they examine and pass upon statistical methods, prices, foreign exchange, capital investment and interest, transportation and marketing methods and distribution of commodities, and competitive conditions in industries under consideration.

In every investigation instituted by the commission in which a questionnaire or cost schedule is employed the economics division assists the commodity expert in drafting the schedule to be used and in formulating plans for the field work to be undertaken.

Before this stage is reached an economist often goes with the commodity expert on a preliminary trip into the field to study the comparability of the domestic and imported products and the organization of the industry with a view to determining the centers and plants from which to obtain cost and other data and the most desirable method of procedure. It is important that the data be gathered in representative sections of the industry, that the method adopted be one that will insure an adequate body of reliable cost data, and that the costs obtained apply to the particular commodity for which data are sought. Experience has demonstrated that through careful planning of the ground work it is possible to reduce the time spent and the expense entailed in an investigation and to secure a comprehensive and reliable body of data. In the more advanced stages of the investigation the economist also participates. He assists in analyzing the data brought in from the field, in the preparation of the preliminary statement of information, and in drafting the final report of the commission.

Although the work of the economics division is largely concerned with investigations for the purposes of section 315, it also reviews special studies, surveys, and reports resulting from investigations made by the commission under its general powers. The economics division also carries on special research work.

To the economics division are assigned certain special duties for the performance of which separate sections have been created. An editorial section reviews the manuscript of all reports for form, syntax, and arrangement, reads the proof in its various stages, and With increasing frequency members of the staff indexes reports. submit early drafts of their reports to the editorial section, thereby avoiding delay and alterations in the final stages. A charting section prepares the graphs, maps, and charts with which most commission publications are illustrated. During the past year the section prepared 95 charts and graphs, 47 maps, 10 pictures, 156 tabular forms, and 21 commodity schedules, a complete set of schedules, comprising over 200 pages. Most of the illustrations mentioned and all of the schedules and forms were made by the mimeoscope, a process that effects a considerable saving in the commission's printing expenses. A cost analysis section, made up of persons proficient in accounting, helps in particular in the preparation of cost schedules before field work is begun. These members of the division participate both at the initial stage and at all later stages in determining the proper bases for the ascertainment of costs, the proper methods to be used in allocating joint costs, in coordinating the accounting field crews, and in scrutinizing, testing, and organizing the material constituting the data for costs.

In general, the members of the economics division participate in gathering and presenting information respecting the competitive phases of an investigation both in the preliminary inquiry before an

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investigation is instituted and afterwards when a report is being drafted; they share largely in the ascertainment of marketing conditions and in the determination of what are the principal markets and how the costs of transportation to those markets shall be handled; they assist prominently in the formulation of the questions which shall be incorporated in a preliminary statement of information and presented at the public hearing in an investigation.

In preparing the preliminary statement an effort is made to tell how the investigation was conducted and how all statements of fact are substantiated, and to make the whole presentation such as to focus attention on the main problems and to evoke pertinent and In the preparation of the final report to the Presihelpful comment. dent the task of organization and presentation is somewhat different, and the economic problems involved often assume even greater importance, such as questions of marketing and transportation, questions of conversion of the foreign costs into American money, questions as to what categories of cost may be validly included or not included, and questions of the method of application of the ascertained differences in cost to the duties provided in the tariff act. At this stage of an investigation members of the economics division, in common with other members of the staff, are frequently consulted by commissioners and often furnish specially written reports to them. A detailed account of just what has been done specifically by the economics division during the past year would be difficult to present; its members have had a share, and often a considerable share, in practically all the work reported in detail under the commodity divisions.

In the consideration of the tariff bill after it reached the Senate a new and responsible duty was assigned to four members of the economics division—to act as assistants to the ranking minority members of the four subcommittees of the Committee on Finance.

XIII. OFFICE OF THE CHIEF INVESTIGATOR

The work of the office of the chief investigator is here discussed from three points of view: First, its relation to the commodity and other divisions of the commission's staff; second, to the advisory board and the economics division; and third, to the public and to other departments or officials of the Government.

The contacts of the chief investigator's office with the commodity and other divisions of the commission are largely in the form of administrative work connected with the conduct of investigations and the preparation of reports. When an application for an investigation under the provisions of section 315 is received, it is recorded and noted by certain divisions, after which it is transmitted by the chief investigator's office to the chief of the commodity division concerned, with a request that a preliminary report be prepared giving all available pertinent information on the subject of the application, including data on the competitive conditions affecting the particular industry. This preliminary report when completed is transmitted from the commodity division through the chief investigator's office to the advisory board for consideration and recommendation to the commission.

When an investigation is instituted by the commission plans of investigation are drawn by an informal committee, consisting of one representative each of the chief investigator's office, the economics division, and the division concerned with the commodity in question. These plans, revised and approved first by the advisory board and then by the commission, are executed under the general direction of the chief investigator with the cooperation of members of the advisory board. Routine matters in connection with the field work are under the direction of the head of the field crew, who takes up directly with the head of the commodity division concerned questions of importance arising in the field. When the questions raised are of sufficient importance the chief of the division brings them to the attention of the chief investigator and the chief of the economics division or submits them to the entire advisory board.

The relation of the chief investigator's office to the advisory board and to the economics division is one of close cooperation on all important problems arising in investigations and subsequently in the preparation of reports. As has been stated, plans of investigation are drafted jointly by a representative of the chief investigator's office, the economics division, and the respective commodity divisions. Members of the economics division also assist in the execution of the field work, concerning which the chief investigator constantly confers with the chief of the economics division. The same relationship is maintained in drafting reports on the subjects of investigations.

The chief investigator is a member of the advisory board and as such takes part in all discussions of tariff problems arising in each investigation and in the framing of each report. As a member of the board he does not act primarily as an administrator—his principal function in connection with the field work in investigations—but as an economist and as a tariff expert, appraising and revising reports in cooperation with other members of the board, or advising in other matters under consideration.

Because of the close contact between the chief investigator's office and the advisory board the various preliminary and final reports submitted to the advisory board are not revised in detail in the chief investigator's office. The first drafts of reports originating with the commodity and other divisions are transmitted directly to the advisory board without substantial revision and without the delay of partial revision in the chief investigator's office. The opinions of all members of the board are heard with respect to these early drafts before substantial revisions are undertaken.

The chief investigator's office comes into contact with the public and with other departments and officials of the Government through personal interviews and correspondence. Contacts with the public are usually concerning applications, investigations in progress, or reports of the commission either actual or proposed. In these contacts, either by personal interviews or correspondence, care must be taken to place before interested persons the conditions confronting the commission, not only respecting the particular subject in which the interviewer is interested but all the current work of the commission and the relative urgency of the work on the different commodities. The commission often finds it impracticable to act at once upon a particular matter, not because information is unobtainable or because the case lacks merit, but rather because of the many other urgent matters requiring the commission's attention. An important part of the work of the chief investigator's office is in connection with official correspondence with Members of the House of Representatives and of the Senate, members of the Cabinet, and other Government officers. Practically all of the letters received from these sources request information, and it is the duty of the chief investigator to direct the tabulation and analysis of the data collected for such purposes and in many cases to draft the letters transmitting the material.

XIV. THE LEGAL DIVISION

In all undertakings of the commission legal matters are involved to a greater or less degree, and it is the function of the legal division to make whatever contributions are required with respect to them. Its responsibilities are discharged partly by supervision and review of the work of others to guard against legal error in published statements, partly by collaboration with others where the legal aspects of the work are prominent, and partly by its own specific contribu-The legal division serves in an advisory capacity to members tions. of the commission and of its staff and assists, in so far as practicable, in litigation affecting the commission and its functions. Through membership in the advisory board the legal division participates in all matters coming before the board, whatever may be their character. Investigations for the purposes of section 315 of the tariff act of 1922 and changes in duties resulting therefrom may be especially mentioned.

The most obvious participation of the legal division as an agency in work of the commission arising under the act of 1922 has been in the administration of section 316. This section declares unfair methods of competition or unfair acts in the importation or sale of foreign articles to be unlawful and directs the commission to assist the President in taking action when the law is violated. Assisted by the division of international relations, the legal division passes upon all complaints of alleged unfair competition, and, if a hearing be had before the commission, follows everything that takes place in the hearing. After the hearing the legal division formulates for the commission the findings of law and fact which serve as the basis of the commission's report to the President.

In the administration of section 317 of the tariff act of 1922, which has to do with discriminations by foreign countries and gives the President certain powers in relation thereto, the international relations division is the leading agency of investigation for the commission; but it requires and receives the assistance of the legal division. To all published tariff information surveys, executed under the general powers of the commission as extended and amplified by section 318 of the tariff act of 1922, there is appended by the legal division a section stating the decisions and other information defining the legal status of the article or articles dealt with in the survey.

Since the publication of the annual report for 1928 the legal division has been engaged mainly in work for the two Houses of Congress in readjusting the tariff. Work requested by the Committee on Ways and Means of the House of Representatives was begun in December, 1928, but much was done prior thereto in preparation for the information which it was anticipated would be requested. The first information submitted was in the form of summaries comprising the dutiable schedules and the free list of the tariff act. The legal division prepared for these summaries a synopsis of court and Treasury decisions. The tariff status and the history of litigation under the tariff act of 1922 and under prior acts concerning the many commodities involved were set forth.

With a view to assisting the Committee on Ways and Means in the readjustment of the tariff, the legal division, collaborating with the commodity divisions, took up various matters of classification, and offered specific suggestions as to changes considered advisable in the existing law, and assisted in drafting provisions under consideration in the meantime.

After making detailed study of the bill as passed by the House of Representatives, the division prepared for the use of the Finance Committee of the Senate, during its consideration of the bill, comments and suggestions for changes with reasons making their adoption desirable. These suggestions were intended to assist the committee in eliminating inconsistencies and ambiguities, in preventing evasions, and in lessening administrative difficulties either already experienced or anticipated.

In addition to submitting comments on the 15 duty schedules and the free list, the legal division has acted in an advisory capacity with respect to special and administrative provisions, particularly those concerning the work of the Tariff Commission. The division is frequently called on for information and memoranda on legal matters connected with the tariff, including the constitutionality of certain provisions.

The work above indicated was made possible of submission within the time required for the use of the Congress by the division's keeping informed on legal matters connected with the tariff and its administration and of the need of changes in classifications and the correction of ambiguities, inconsistencies, and inequalities in dutiable schedules and the free list, and in special and procedural provisions of the act of 1922.

XV. THE ACCOUNTING DIVISION

The accounting division in cooperation with other divisions obtains and organizes cost data for the purposes of investigations under section 315 of the tariff act of 1922 and for investigations that come under the general powers of the commission. During the past year to these regular duties was added the preparation of data for the Ways and Means Committee and the Committee on Finance to use in the readjustment of the present tariff rates.

Cost investigations under section 315 are concerned with two main classes of commodities—manufactured and agricultural. The accountants go into the field for the figures of cost, which are analyzed and tabulated in the Washington office. Frequently the time taken in the office is greater than the time spent in the field, but the greater difficulties, calling for versatility on the part of the accountants engaged, are encountered in the field. In both the field and in the office work accountants cooperate with the commodity expert concerned with the investigation.

* A preliminary feature of all field work is the preparation of a cost schedule for recording detailed information used in determining costs.

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This schedule serves a dual purpose in guarding against the omission of essentials and in providing a uniform method of costing for all establishments. For results to be comparable they must rest upon the same bases for the whole industry, domestic and foreign. Because of diversity in manufacturing conditions and in accounting methods in the different industries and in different establishments within each industry, the cost schedule must be designed separately for each investigation; no standardized form is practicable. Recourse is had to cost systems proposed by associations and those advocated in various publications, but it is by field trips that actual practices and conditions are ascertained. Frequently before final adoption of a cost schedule, a trial is given it in a number of establishments to make certain of its practicability. In this important work of preparing a cost schedule, the accounting division collaborates with the advisory board and with other members of the staff.

The major difficulties encountered by the division in the performance of its function are in its field inquiries, and arise mainly from one outstanding cause—the necessity of obtaining specific costs for specific products. The commission is required to ascertain the costs of particular articles or grades of articles, and the records of most producers are generalized and cover their entire output irrespective of particular articles or specified grades. Occasionally, but not often, the accountants assigned to an investigation enter an establishment where the particular costs required can be found and verified, but never has an investigation, for the purposes of section 315, been made where all the establishments comprising the industry had cost-accounting systems adequate to the special requirements of the commission-i. e., cost and production data for the specific grades of the articles produced. In most of the establishments there are found, at best, records which constitute the materials from which the accountants can construct the desired segregated costs. Sometimes, in many eastablishments comprising an industry, the bookkeeping methods are such that the materials for costing the particular articles are not available. As a result of the commission's cost investigations a number of industries have realized the importance of adequate cost-accounting systems and have subsequently installed improved methods.

Under the conditions usually encountered in an investigation, not only do the book records of different establishments vary greatly with respect to fullness, accuracy, and usability, but also the manufacturing methods, and therefore the basic accounting conditions, are widely divergent. Some producers in an industry, for instance, will purchase certain materials or services, while others will make the materials or provide the services themselves. Again, wholly different raw ma-terials may be used by different producers, or, with the same raw materials widely different methods of processing may be employed. Some establishments may manufacture the containers used for the product, and others purchase them; and the cost of containers may be an important part of the total costs. The kind of commodity dealt with may be a principal or main product, or it may be a joint product, or a by-product. If it be a by-product, often the raw ma-terial from one point of view may be considered to have a cost and from another point of view considered to have no cost at all; and usually some kind of adjustment has to be made. For joint products it is practically always necessary to determine costs upon the basis

of relative value, and that involves an extensive inquiry into prices. A distinctive main product may be one of a few products produced by an establishment or an industry, or it may be one of many hundreds or even thousands of articles produced.

In all cases the costs to be assigned to the commodity costed are of two main sorts-direct and indirect. From pay rolls and other records the material can be gathered for direct costs, and it is usually a comparatively simple matter to determine them separately for the particular article or articles being costed. But always the handling of overhead is difficult. The basic information in the books with respect to overhead can not be drawn off easily, like information from a pay roll. Whatever the amount of the overhead, the assignment or allocation of it to particular products, so that the proper amount attaches to each product, presents various problems. The method of allocation used depends upon manufacturing conditions and the available information in the plant records. Furthermore, the quantity of production as well as the pecuniary outlay of expense must be The commission can use in the final considered in obtaining costs. cost comparisons only unit costs, and to determine unit costs usually the aggregate of expense incurred must be divided by the amount of the resulting production. Frequently the record of the quantity produced of particular articles is imperfectly kept by manufacturing establishments. Sometimes unit costs are obtained by methods which preclude the necessity of knowing quantities produced, but even in such cases the knowledge of quantities is required in the end, if there is to be a weighted averaging and not a simple averaging of the unit costs.

In industries and establishments where thousands of articles are produced, section 315 investigations present peculiar difficulties. It is not practicable to cost all the articles produced; some of them must be selected as representative of the whole. These specimens or samples taken must match up on both sides, domestic and foreign, as being on some appropriate basis like or similar; otherwise there can be no comparability in the costs as finally obtained. This work of selecting the samples is done for the accounting division by other members of the staff; its task is to obtain the costs for the list of samples presented to it, sample by sample.

Under such circumstances the accountants proceed with a thorough analysis of elements, and subsequent combination of elements, which is not called for in the other investigations. In the ordinary investigations the major items of factory cost (direct labor, raw materials, power, maintenance, etc.) are determined separately as directly attached to or attachable to the article or articles being costed, without reference to the particular operations and processes involved In the investigations now being described operations in making them. and processes are dealt with. The procedure in these cases is not always the same in all particulars, but it always involves some kind of determination, by using the experience of the industry or by more exact methods, of the time required per unit of measurement for performing the operations or processes. In all investigations of this kind the accountants, as well as the commodity experts, must become thoroughly familiar with operations, processes, and manufacturing conditions generally; they can not merely work from the books.

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The first step in the procedure, outlined briefly, is to reconcile with the company's profit and loss statement the leading kinds of expense recorded in the books-labor, raw materials, shop supplies, superintendence, depreciation, etc. Then each of these is attached to one or more of the departments, some items charged directly, others allocated on appropriate bases, and subsequently the costs of the service departments are distributed to the production departments. The accumulated expenses of the power plant, for example, are distributed to the production departments which use power in proportion to the horsepower-hours required by them; the costs of the steam department are assigned to the subdivisions of the plant which are heated according to the floor space occupied by each, and so on with all the other service departments. The costs of each of the production departments are applied to the specific articles being costed by means of cost rates for the operations performed by each and em-These rates are for common-denominator bodied in the articles. units of measurement, such as shop hours, melting hours, weight of ware, etc. For example, the total shop hours of the hand-shop department were determined and divided into the total expenses of that department, which gave that department's cost rate. And in a similar fashion the hourly cost rate of the melting department is found, but based upon melting hours. After this to get the costs attached to the specific articles being costed is a matter of determining the number of hours of the operations performed on each article in each department and multiplying those hours by the departmental rates that apply. Where production losses have to be reckoned with, the operation costs for the article up to the point at which the losses occur, less any salvage value, are charged against the good pieces produced.

There are many details of this costing procedure omitted from the foregoing description—a procedure which must be followed in substantially its present form if costs in the industry are to be obtained.

Some other aspects of the work of the accounting division call for particular mention. One of these is finding, at home and in the foreign country, the distinctive item of cost known as imputed interest or the cost, other than the regular depreciation charges, of using the capital investment in plant and equipment, and in other assets connected with the manufacture of the article or articles being costed. The idea is that the plants and other assets of any industry, for reasons connected with general American economic conditions, may cost the domestic producers more than they cost their foreign competitors, and therefore constitute a factor in comparative advantage or disadvantage in competition. The main feature in obtaining the amount of imputed interest for any plant is the determination of the value of its assets, to which as a base the common rate of interest of the industry is applied. Such a value is not easy to determine and often involves the detailed investigation of original investment costs incurred, and subsequent additions and deductions, over a long series of years.

Another matter with which the accountants are concerned in the field, but only to a slight extent in the office, is the cost of transportation. To obtain costs of transportation, even in the form of a simple average for all producers comprising an industry, it is necessary to know to what places the commodity goes; and to obtain a weighted average cost it is also necessary to know the quantities shipped by each producer. Rarely do the records of any concern show the sales distribution summarized by markets, and the accountants accordingly must have recourse to the whole file of invoices and laboriously draw off and compile particular shipments to particular places. Sometimes accounts receivable are analyzed, and salesmen's commission accounts, in order to ascertain the sales distribution. By reason of the immense detail not infrequently involved, the ascertainment of sales distribution by markets requires much time and effort on the part of the accounting division. The transportation division furnishes the rates for different hauls used in the computation of transportation costs, and still other sections of the staff deal with the especially difficult problems connected with transportation.

The office analyses and the tabulation of cost of production data take quite as much time and often more time than is consumed by the field crews in obtaining such data. The figures must be carefully scrutinized with respect to all the items in the field schedule, plant by plant, to guard against clerical error. Anomalous entries in the schedules, and the problems presented by exceptional conditions in the field, are discussed and a decision is reached as to how they shall be handled. As supporting data for the summarized tables of costs, which are the bases of the ultimate comparison of costs, many subordinate or detailed tabulations are made.

Finally, with the completed cost investigation, there goes a comprehensive accounting report describing the various stages of the field work, the allocations and other processes by which the work was accomplished, and just what is included in each of the major items of cost. It must be made clear what the accountants have done and exactly to what their findings apply.

During the past year the accounting division cooperated with other divisions in obtaining and in organizing cost-of-production data on a large number of commodities, among them handkerchiefs, cork tile, cork insulation, tungsten, tungsten steel, ferrotungsten, matzos, decolorizing carbons, china clay, blown-glass tableware, barium chloride, and beef and beef products.

For the use of the Committee on Ways and Means the accounting division in cooperation with other divisions prepared numerous tabulations, the most extensive being a comparison (arranged according to schedules and paragraphs of the bill H. R. 2667) of the rates of duty and of the equivalent ad valorem rates in the tariff act of 1922 with the rates in H. R. 2667 as passed by the House of Representatives, based upon imports for consumption during the calendar year 1928. This comparison is printed as House Document No. 44, Seventy-first Congress, first session.

For the use of the Committee on Finance or individual members thereof, the accounting division prepared the following tabulations:

1. A comparison (arranged according to schedules and paragraphs in the bill H. R. 2667) of the rates of duty and of the equivalent ad valorem rates in the tariff act of 1922 and in the bill H. R. 2667, as passed by the House of Representatives, with adjustments by the Committee on Finance based upon imports for consumption during the calendar year 1928. These data are printed as Senate committee print of September 4, 1929.

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2. A revision of the above (1) to include the rates of duty and equivalent ad valorem rates under the tariff act of 1913. (Printed as Senate Document No. 30.)

3. A detailed comparison of the rates of duty and equivalent ad valorem rates in the tariff act of 1913 and in the tariff act of 1922 with those in the bill H. R. 2667, as passed by the House of Representatives and as reported to the Senate by the Committee on Finance (arranged according to schedules and articles in the bill H. R. 2667). This comparison is calculated from the quantity and value of dutiable imports in the calendar year 1928. (Printed as Senate Document No. 30)

4. A tabulation of commodities for which imports were less than 10^r per cent of domestic consumption in the year 1927.

5. A tabulation of imported articles on the free list in the bill H. R. 2667 showing the ratio of imports to domestic consumption in 1927.

6. A tabulation showing the financial standing and return on capital investment of various manufactures and industries.

7. Other miscellaneous data furnished in conjunction with the several commodity divisions.

XVI. THE STATISTICAL DIVISION

The duties of the statistical division are: (1) To assist and cooperate with all other divisions of the commission in the tabulation of statistics on specific commodities; (2) to keep up-to-date statistics on a variety of subjects to be used by members of the commission or likely to be called for from outside sources, and to collect and analyze general statistics of trade and commerce for studies being made by the divisions; (3) to make independent statistical studies of tariff problems, such as the relative volume and value of raw materials and finished products imported under the various tariff acts, and to compute the ad valorem equivalent of the duties paid under various tariff acts for specified classes of commodities.

Statistics of trade, production, prices, and other information compiled by the statistical division are usually taken from published documents of other branches of the Government, foreign publications, and trade and industrial journals. In studying the effect of particular tariff rates, it is generally necessary to assemble the figures on a given commodity over a period of many years. As a rule the information desired in a compilation of this nature must be obtained from a great variety of sources, necessitating long and careful research. Statistics of imports and exports of the United States are tabulated from annual and monthly publications of the Department of Commerce. Official reports of the Bureau of the Census and the Department of Agriculture are usually the source of information for domestic production statistics, and foreign trade statistics are obtained from official publications of foreign countries.

Price statistics are obtained from periodicals, trade, and industrial journals, official reports of other departments of the Government and from foreign publications. In the tabulation of prices, special care must be exercised to determine the identity and quality of the commodity under consideration, because price statistics are meaningless unless exact grades and conditions of the product are known. The conversion of statistical material from units of foreign weights and measures, and foreign money, into the equivalent weights and measures and monetary values in the United States must be carefully done. A difficulty encountered in making statistical tabulations for commodities mentioned in a number of tariff acts is the difference in tariff classification in successive acts and the corresponding changes in statistical classifications. Statistics are not comparable, therefore, from year to year, unless they are segregated in detail, and retabulated from the point of view of the particular variety of the general class of commodities under consideration.

The statistical division is often called upon to furnish up-to-date statistics of imports, prices, and production which are available only from unpublished information. The statistical blotters of the Department of Commerce are used continuously for the latest information concerning the imports of particular products, and customs invoices for the latest prices.

During the current year statistical tabulations were made on all commodities the subject of investigation either for the purposes of section 315 or under the commission's general powers. The work done on these commodities has differed in detail, but in general it consisted of compiling statistics of production and imports not only by totals but by countries and by customs districts, of exports, of prices, and rates of duty, both upon the specific and ad valorem basis, and in many cases on the trade of other countries in the same commodities.

Among the important assignments during the year was that of gathering information for the use of Congress in connection with tariff readjustment. Most of the statistical material incorporated in the tariff information summaries and in reports furnished the Committee on Ways and Means and the Committee on Finance, as well as that furnished individual Members of Congress, was compiled and calculated in the statistical division. For each paragraph of the act of 1922 the division compiled statistics of imports and duties for the The figures for 1928 were obtained years 1919 to 1928, inclusive. from the statistical blotters of the Department of Commerce, which list commodities by code numbers. The compilation involved no less than 40,000 items, each of which had to be checked. Much work was done for the office of the chief investigator, involving the editing and proof reading of the statistical tables appearing in the Summary of Tariff Information, and the compilation of special statistics requested by Members of Congress.

For the use of the commission in special reports and for other purposes, the division compiled import and other statistics on marine animal oil and on beef cattle; tabulated imports of china and earthenware for the years 1924 and 1927, showing countries of shipment and districts of entry for each country and each class of goods; and assisted in the organization of data for a study of the productivity and wages of workers in the United States and in foreign countries. Current interest in agriculture and the increasing importance of certain southern States in the trade in fruits and vegetables led to a compilation of imports of these products from contiguous southern countries, 1926 to 1929. Tabulations were also made of production, import values and prices of important commodities which the farmer produces as compared with commodities which he buys.

A request received by the division necessitated the arranging of tariff rates under the tariff act of 1922 in ascending order by schedules

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and paragraphs. The value of free and dutiable merchandise imported in each year under the various tariff acts, beginning with the act of 1890, together with an average of each act, was another statistical computation made during the year.

COOPERATION WITH OTHER DEPARTMENTS OF THE GOVERNMENT

The statistical division of the Tariff Commission cooperated with the statistical division of the Bureau of Foreign and Domestic Commerce in the preparation of a publication by the Department of Commerce of the detailed table of imports for consumption, showing the commodities and the duties paid, for the calendar year 1928. This cooperation expedited the publishing of the statistics and resulted in making information concerning imports available for the use of the commission at a much earlier date than it would otherwise have been obtainable.

XVII. THE TRANSPORTATION DIVISION

A. TRANSPORTATION COSTS

In earlier annual reports the commission has called attention to the opinion of the Attorney General, expressed February 10, 1926, that the President should take into consideration, as far as he finds it practicable, costs of transportation in determining differences in costs of production for the purposes of section 315. Since the rendering of this opinion the commission has taken this item into consideration in calculating the costs of all commodities that have been the subject of investigation under section 315.

Any study of transportation costs involves the determination of the principal sources of supply of the product, both foreign and domestic, the principal ports through which the imported article enters the country, and the United States markets where the imported and domestic products meet in competition.

On imported articles, transportation costs include the foreign inland cost of hauling to the seaboard, foreign port and transfer charges, ocean freight and insurance, handling charges at the American port of entry, and the internal transportation charges where the product moves inland. These charges are usually obtained from the records of foreign producers or from customs invoices at the port of entry, but when not available from such sources, or when checking is necessary, the division supplies them. During the past year the division has supplied transportation costs to ports of entry in this country on commodities from Argentina, Belgium, Brazil, the British Isles, Canada, China, Cuba, France, Germany, Hawaii, the Isle of Pines, Italy, Japan, Mexico, Netherlands, Norway, Nova Scotia, the Philippine Islands, Porto Rico, Portugal, Prince Edward Island, Spain, and Sweden.

On articles of domestic manufacture the items taken into account are the freight charges from the factory to the principal markets. When called upon to calculate the total of these charges the transportation division is supplied by the commodity division with a statement as to the shipping points and the principal markets of the product in question. The transportation division then computes and tabulates the various rates applicable to the product, such as for car lots or less than car lots, via all rail or all water routes, or a combination of the two, together with other charges incident to the movement of the product. During the year transportation costs from the point of production to the common market or port have been calculated for nearly 100 different commodities.

In addition to furnishing rates for use in calculating transportation costs for investigations under section 315, the division has calculated for a great number of commodities comparative costs of transportation from a given foreign port and from a domestic shipping point to a common domestic port. These calculations were in detail unit rates on (a) 25 commodities from London to San Francisco and similar domestic commodities from about 34 points of production to the same port; (b) 17 commodities from the port of export in the country where produced to New York and similar domestic commodities from 10 producing points to the same port; (c) 37 commodities from New York to London and the same commodities from New York to Chicago; (d) 130 commodities from London to New York and conversely on similar commodities from New York to London. For commodities of domestic origin, these rates were shown by different routes, whether all rail, rail and water, and all water.

B. PASSENGER TRAVEL

Although the division was created primarily to study the cost of transporting imported and domestic commodities, it also arranges for all official travel of the commission. By preparing itineraries and by obtaining accommodations and tickets for those who go into the field, it is able to effect economies in both time and money.

C. FILE OF PUBLICATIONS

The division maintains for its immediate use a file of freight and passenger tariffs issued by rail and ocean carriers, maps, hotel guides, time-tables, lists of ship sailings, and other travel literature.

XVIII. THE DIVISION OF INTERNATIONAL RELATIONS

[Commercial Policy and Treaties, Preferential Tariffs, Unfair Competition, and Miscellaneous Research]

The division of international relations is occupied largely with the investigations authorized and the duties prescribed by three provisions of law. (1) In cooperation with the legal division, and where necessary with the commodity divisions, it makes the preliminary investigations and drafts the preliminary and final reports on cases of unfair competition under section 316 of the tariff act of 1922. (2) Under section 317 of the tariff act of 1922 it makes investigations and reports upon discriminations by foreign countries against the commerce of the United States. (3) From time to time it makes special studies of "tariff relations between the United States and foreign countries, commercial treaties, preferential provisions, and economic alliances," as provided in section 704 of the act of 1916, creating the Tariff Commission.

The division is concerned in many ways with the relations between the United States and foreign countries. It is called upon to prepare or to contribute to all reports, memoranda, and correspondence relating to the tariff, commercial treaties, and commercial policies of foreign countries; or relating to questions of American policy concerning which the President or the Secretary of State from time to time requests information gathered by the Tariff Commission, or desires a statement of the commission's point of view. These requests are confidential and are not enumerated here. They relate to a wide variety of questions of commercial policy, such as the advisability of protesting or of negotiating in certain cases, the nature of the protests or reservations to be made, the inclusion or rejection of certain clauses in commercial treaties, the advisability of taking part in international conferences which may affect the commercial and economic relations of nations, and the attitude to be taken by the United States Government at such conferences.

The division has given special attention to discriminations by foreign countries and has been active in preparing memoranda for use in commercial negotiations. The division maintains files of information on subjects within its jurisdiction and answers numerous inquiries from Members of Congress and others; but it does not ordinarily duplicate the work of the Division of Foreign Tariffs of the Department of Commerce in supplying rates of duty in force in foreign countries.

The commission's report on the Effects of the Cuban Reciprocity Treaty was published during the year, and numerous studies and statistical compilations were prepared for the use of the congressional committees and Members of both Houses in connection with the tariff revision at the special session (71st Cong., 1st sess.).

The division of international relations collaborates with the legal division in all matters arising in the administration of section 316 of the tariff act of 1922, which section deals with unfair methods of competition or unfair acts in the importation or sale of foreign articles.

The division of international relations prepares the material from which the commission formulates its reports and its recommendations to the President with respect to discriminations arising under section 317 of the tariff act of 1922.

(1) DISCRIMINATIONS UNDER SECTION 317

Section 317 of the tariff act of 1922 was framed in accordance with suggestions of the Tariff Commission in its report of 1919 entitled "Reciprocity and Commercial Treaties." It follows the precedent established by the maximum and minimum provisions of the tariff act of 1909, which "had for its purpose the obtaining of equality of treatment for American overseas commerce." Section 317, however, is adaptable, while the provisions of the act of 1909 were inflexible and, as experience showed, comparatively ineffective, because they could not be fitted to the circumstances of each case.

Section 317 of the act of 1922 covers discriminations "in fact" of all varieties, whether in customs duties or other charges, or in classifications, prohibitions, restrictions, or regulations of any kind. If the commission finds that discriminations are being practiced, the President may then impose upon importations of the products of the country practicing such discriminations new or additional duties not to exceed 50 per cent ad valorem; and if thereafter the foreign country maintains or increases its discriminations against the commerce of the United States, products of that country may be excluded from importation.

Subdivision (e) provides for countervailing duties to offset industrial advantages obtained by foreign countries through differential export duties imposed by other foreign countries or subdivisions thereof.

Since the passage of the tariff act of 1922 reports have been submitted to the President, pursuant to the provisions of section 317, upon all important existing discriminations against the commerce of the United States by means of tariff rates and regulations. The President has secured the removal of important discriminations without imposing the retaliatory duties authorized by this section of the act.

(2) EFFECTS OF THE CUBAN RECIPROCITY CONVENTION OF 1902

During the past year the commission published a report upon the effects of the Cuban reciprocity convention of 1902. This is the only reciprocity treaty to which the United States is now a party, and an understanding of its operation is important. Suggestions that the treaty needed revision made it desirable to make a more extensive study of the subject than that embodied in the report of the commission, published in 1919, covering the whole field of reciprocity and commercial treaties. The new study examines particularly the extent to which the reciprocity treaty enabled the United States to expand its exports to Cuba.

This convention, which came into force December 27, 1903, provided that the United States and Cuba should each give favorable treatment to the "products of the soil or industry of the other," namely, reductions of existing or future duties and a continuance of the existing free lists. The United States accorded a uniform reduction of 20 per cent of its duties on all Cuban products; Cuba accorded reductions of 20, 25, 30, or 40 per cent of her duties upon all dutiable products of the United States except tobacco. The Cuban negotiators conceded the greater percentages of reduction because the treaty was expected to prove advantageous to all products exported from Cuba, although it was believed that many American products, either because they already dominated the Cuban market or because they would be unable to compete therein, would receive no material stimulus from reductions limited to 20 per cent of the comparatively low Cuban duties.

A review of the entire trade between the United States and Cuba since 1900 has shown that the Cuban export trade on which the United States has made reductions of duty greatly exceeded the American exports on which Cuba made reductions, Cuba having what is called a "favorable" balance of trade with the United States. Expressing the concessions on the two sides, not as percentages of the duties but as percentages of the value of the trade (i. e., in ad valorem equivalents), it is seen that the reductions of 20 per cent of the American tariff rates considerably exceeded the reductions of 20 to 40 per cent of the Cuban rates. The greater trade received the greater concessions, and the total nominal sacrifice of revenue on the part of the United States has been three times as great as the nominal sacrifice by Cuba. To a large extent the sacrifice of revenue has been merely nominal on both sides. Cuba readjusted her tariff rates on February 1, 1904, so as to produce a greater revenue than was obtained prior to the treaty. The treaty left the United States equally free to change its tariff rates, but Congress reenacted the rates upon sugar and tobacco in 1909, and in 1913 reduced the duty upon sugar.

As a general rule, the remission of taxation by a government affords a corresponding relief to the taxpayers concerned, and is, therefore, not a sacrifice in the sense of an uncompensated loss. But in the early years of the operation of this treaty the United States made a real and important sacrifice of revenue, because a considerable part of the revenue remitted upon imports of sugar took the form of higher prices for the Cuban producers. The treaty was of particular value to Cuba in the earlier years when American buyers bid up the price of Cuban sugar to avoid as far as possible the necessity of buying full-duty sugars. Up to July 1, 1909, the United States had remitted \$48,000,000 in sugar duties, a considerable part of which went to the Cuban producers. This part of the remission was most important in the development of the Cuban sugar industry, both directly and in giving investors and creditors confidence in the future of that industry. The political relations between the United States and Cuba contributed to this confidence.

Both before and after reciprocity the United States took practically all of Cuba's sugar until Cuban exports outgrew the import requirements of the United States. The United States is Cuba's natural market. The preferential rates accorded by the United States have not in any important degree expanded the American demand for the products of Cuba in the sense of diverting to the United States products which would otherwise have had to seek a market elsewhere; but the reciprocity treaty has given to Cuban sugar such an advantage over sugar from other exporting countries as practically to eliminate the importation into the United States of sugar from countries other than Cuba.

The great expansion of the Cuban sugar industry compelled the planters after 1911 to look for markets outside the United States and thus deprived them of the price premium they had formerly enjoyed in the United States; but their industry continued to expand and to supply the United States with increasing percentages of its total consumption of sugar. The American sugar industry has also expanded (except for continental United States, since 1922), but even including noncontiguous territory the expansion has been slower than the Cuban, and beginning with the fiscal year 1913 Cuba has supplied more than half of the sugar consumed in the United States.

In more recent years the exclusive concessions which Cuba enjoys have not been without value to her in guaranteeing to her a favored market, in preventing similar concessions by the United States to other countries, and in obtaining special advantages for minor products, especially those which enter free from Cuba, though dutiable when produced elsewhere, such as manganese ore, coconuts, alligator pears, and logs of cedar and mahogany.

In contrast to the advantages to Cuba, whatever advantages have accrued to the United States from the reciprocity treaty depends on how far it has facilitated the expansion of American exports in competition with Cuban imports from other sources; for the exporters of the United States have not received through the operation of the reciprocity treaty higher profits per unit on sales to Cuba than on other sales.

Looking only at the growth of United States exports to Cuba, one might easily be misled into attributing undue importance to the reciprocity treaty. Broad comparisons and detailed analyses put a different light upon the matter. Comparisons with the United States exports to Canada (in spite of the British preference fully established in 1900), to Mexico, and to eight Caribbean countries show that the total value of exports to Cuba developed somewhat more rapidly than did total values to the other near-by markets, if average imports in 1905–1907 are taken as showing the immediate effects of reciprocity; but that by 1912–1914 the expansion both in Canada and in the eight Caribbean countries exceeded that in Cuba.

More significant are the figures showing the changes in the percentages of total imports derived from the United States. With reciprocity, the percentage of Cuban imports obtained from the United States increased from 44.2 in 1900 to 49.4 in 1905–1907; but without reciprocity, the percentage for six Caribbean countries combined rose from 41.1 to 50.8, and for Mexico, from 50.6 to 62.6. After a score of years of reciprocity, in 1922–1925 the United States supplied 65.6 per cent of Cuba's imports, 66.9 per cent of Canada's, 67.3 per cent of those of the six Caribbean countries, and 69.1 per cent of Mexico's. These percentages are not presented as conclusive, but they are undeniably suggestive and significant. The values and the percentages together suggest that, although Cuba's purchasing power rapidly increased after reciprocity and the total value of her purchases from the United States developed with special rapidity for several years (owing to reciprocity and to other favorable factors, such as political stability and the investment of foreign capital), this special rapidity had ceased before 1912–1914, and by 1922–1925 Cuba was no more favorable a market for American goods than were other neighboring countries.

As a final test of the immediate effectiveness of the reciprocity treaty, the commission has compared Cuban imports from the United States for 1902-3 and for 1905-1907, taking 130 leading articles separately, and showing the development of the trade with the ad valorem equivalents of the tariff reductions based on the trade of 1905. This survey, covering over 90 per cent of the trade, shows that twothirds of the trade made no material shift in favor of the United States—in each item the percentage of total imports supplied by the United States either decreased or increased by less than 5 per On the other hand, 52 items imported from the United States cent. to an average annual value of \$12,252,000 in 1905-1907, being 34 per cent of the total here analyzed, show changes in percentages supplied by the United States ranging from moderate to substantial increases. For 17 of these items, representing annual trade of \$2,438,000, the Cuban tariff concessions were less than 5 per cent ad valorem, and it seems improbable that the increases in the trade should be attributed to the concessions. This leaves 35 items, representing \$9,814,000 of annual trade, upon which there was a moderate or substantial concession and a moderate or substantial increase in the percentage of imports supplied by the United States. These 35 items cover 27.1 per cent of the trade represented by the 130 items examined.

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Caution forbids the hasty conclusion that the preference accounted for this increase in 27 per cent of the total trade. The need for caution is suggested, for example, in considering the increase shown for natural fertilizers; these are free of duty and therefore without preference, but the percentage supplied by the United States rose from 27 in 1902–3 to 100 per cent in 1905–1907. Evidently there must be a further check before concluding that substantial concessions on 35 items were the cause of substantial increases in the percentages of total imports supplied by the United States.

It is difficult to match the classifications of the Cuban and American statistics, but United States export figures for 13 classifications are found to cover 72 per cent of the total trade of the above 35 items, For these 13 classifications, tabulations of exports excluding coffee. by countries show that every substantial development, both absolute and relative, in the United States trade with Cuba between 1902-3 and 1905-1907 was perhaps paralleled by an equally significant improvement in Central America, South America, Mexico, or Canada. Boots and shoes are an important item. The figures show not only that United States exports to Central America increased relatively more rapidly than exports to Cuba, but also that the exports to Cuba were displacing Cuban imports from other sources more rapidly before than after reciprocity. The detailed statistics, therefore, support the idea advanced in the previous analysis that in a large measure the growth of American exports to Cuba even in the years immediately following the establishment of reciprocity was not dependent upon tariff concessions but would have taken place in the absence of the reciprocity treaty as it was doing at the same time in other markets.

An appraisal of the whole situation leads to the conclusion that the concessions granted by Cuba have accounted for but a minor part of the expansion of United States exports to that island, and at present are not the determining factor in any considerable percentage of the total trade. The tariff concessions which Cuba extends to the United States averaged in 1923 only 4.6 per cent of the total value of Cuba's dutiable imports from the United States. The conclusion seems warranted that with respect to most varieties of manufactured goods, Cuba's tariff concessions, seldom exceeding 10 per cent ad valorem, have exerted and now exert very much less influence upon the course of trade than was anticipated by the negotiators of the treaty.

The present study disregards the revision of the Cuban tariff in October, 1927. Its changes on the whole seem more likely to decrease than to increase the advantages which the reciprocity treaty affords to the United States.

XIX. ACTIVITIES OF NEW YORK OFFICE AND EUROPEAN HEADQUARTERS

(a) THE NEW YORK OFFICE

The New York office of the commission, established in the customhouse through special arrangement with the Treasury Department, has been active in furnishing original data respecting imports and other information secured directly from the customs records which may not be taken from the customhouse building. In section 315 investigations, where invoice prices are used as evidence of foreign costs, the New York office is in a position to acquire detailed and accurate figures on f. o. b. prices and all subsequent charges, such as ocean freights, consular fees, marine insurance, and entry data required to calculate the landed cost in this country. This work it is able to accomplish readily and cheaply because of its location at New York and through its established connections with importers and others. It obtains information required by the commission not only from customhouse records but through personal interviews with importers and appraisers.

In the preparation of preliminary reports on applications for section 315 investigations, and also other reports and surveys, it is often important to ascertain the volume of imports of a commodity included in a general provision of the tariff. During the past year the office made 79 analyses of imports under basket provisions of the tariff act of 1922, many of them for the indirect use of the Congress in determining articles to be provided for eo nomine in tariff readjustment.

Other work done by the New York office in supplying information for the commission's use in assisting the Congress during the pending tariff legislation involved the tabulation of cost data on 54 commodities and the answering of 101 communications asking for information as to administrative difficulties encountered, the possibility of litigation, the volume of imports affected by new provisions in the House and Senate bills, and the feasibility of adopting new bases for fixing the duties on specified commodities.

In practically all investigations the New York office is so located and equipped as to be able to obtain information which would otherwise require the sending of some one from the headquarters office of the commission at Washington. This effects a considerable saving in expense. When the commission's experts go from Washington to New York to make investigations, the contacts which the New York office has made with importers, manufacturers, and others in New York and vicinity, and the other assistance which it can render effect a great saving in time and consequently in expense.

It is difficult to indicate by any one general statement the services performed and the kind of information and assistance furnished by the New York office.

(b) EUROPEAN HEADQUARTERS

The headquarters maintained by the commission at Brussels, Belgium, serves chiefly as the agency of the commission in making contacts for all cost investigations in Europe. This it accomplishes partly through diplomatic channels and partly through its established associations with individuals. In the less complicated investigations the commission has obviated the expense of sending experts from Washington, by relying on the Brussels office both to make contacts and to obtain cost and other data needed. In the more complicated investigations for which experts were sent from Washington, the European office, besides being responsible for contacts with foreign officials and business men, has been of material assistance in the cost study and also has obtained the more general information In all investigations the office furnishes a detailed ecorequired. nomic report.

During the past year the Brussels office assisted in six investigations instituted for the purposes of section 315 of the tariff act of 1922. The commodities studied and the countries in which the investigation took place are shown as follows:

Investigation No.	Investigation No. Commodity	
46	Hide glue Tungsten Handkerchiefs Blown-glass tableware Barium chloride. Decolorizing carbons	Germany. Do. Ireland and Switzerland. Czechoslovakia. Germany and Belgium. Holland.

Full cost data were obtained for hide glue, handkerchiefs, and decolorizing carbons.

In the investigation on handkerchiefs, one of the most extensive yet undertaken, costs were obtained from eight firms in Ireland, the experts remaining in Belfast from September 20 to the middle of March. In Switzerland costs were obtained from four firms, work beginning early in April and ending in June.

German and Belgian manufacturers of barium chloride refused access to their books, stating that the determination of these costs would disclose business secrets regarding more important products. Two German firms, however, furnished copies of summarized cost sheets and a third firm gave a résumé of costs over a period of several years. No comparable data were obtained from Belgian firms.

German producers of tungsten, like those of barium chloride, refused access to their books. English manufacturers gave summarized cost data, one firm signifying willingness to open its books.

In all the investigations, except that on handkerchiefs in Ireland, contacts with foreign government offices and with business men were made by the Brussels office. The European representative of the commission assisted in the field work and prepared reports dealing with questions involved in the cost studies and with competitive conditions.

In December, 1928, glass manufacturers signified their willingness to furnish cost data on blown-glass tableware, but preferred that the experts of the commission wait until the 1st of March. Meanwhile, the work in response to requests for information in connection with tariff readjustments by the Congress required so much of the time of the experts of the ceramics division of the commission's staff that field work in Czechoslovakia had to be postponed.

Among the other activities of the Brussels office may be cited the attendance at Geneva of the commission's European representative as technical adviser to the American delegate to the Second International Conference on Import and Export Restrictions and Prohibitions, July 3 to 11, 1928.

In the intervals between field trips and work on investigations, preparation of weekly reports continued. These dealt with foreign conditions of production and sale of a number of imported commodities.

A study of wages and of the productivity of labor in European tanneries, undertaken in April, 1928, in response to Senate Resolutions 163 and 169, was completed during the year. Significant data were obtained from tanneries in Czechoslovakia, France, England, and Scotland.

Relations of comity with representatives of other branches of the Federal service have not only been maintained but promoted by the assistance rendered to the foreign office by consuls in various European cities. Methods of obtaining foreign cost data.—In general the commission employs the same methods of assembling and verifying foreign costs of production that it uses in domestic investigations. As a rule the foreign figures are obtained from books of record and verified with great care by the commission's experts. In one important respect obtaining accurate cost data in foreign countries presents a problem not encountered in domestic cost investigations, that is, getting the consent of the foreign firm to render available their cost data.

The commission's agents have no authority outside the United. States. They can only request, not demand, information from foreign firms. In order to avoid misunderstanding, they must proceed with careful regard for diplomatic formalities and with full appreciation of the point of view of foreign business men. Business information in Europe, particularly in England, is more difficult to obtain than in the United States. Foreign firms are not in the habit of supplying data regarding production, wages, and other phases of their business, even to their own government. Censuses of production are taken only at infrequent intervals and are at best fragmentary. On the Continent the fear of the tax collector deters business men from divulging facts regarding their operations. A foreign business man, therefore, is likely to resent being asked to give information to the representative of a foreign country, which he would be within his legal rights in refusing to give the officials of his own country.

Realizing the peculiar nature of the problems described above, the commission has established the following principles as fundamental for the conduct of its cost work abroad.

1. When work abroad is contemplated by members of the commission's staff a communication is sent to the Department of State outlining tentative plans for the foreign work, and bespeaking the cooperation of the representatives abroad of the State Department in making the initial contacts between the commission's representatives and foreign officials and foreign producers. The Department of State is expected to assume no responsibility beyond the appropriate introduction.

2. No approach is made to a foreign business firm or individual for the purpose of discussing the costs of production until the Government has first been notified and until it has indicated whether or not it wishes to raise objection. Some such objections have been made, but, as a rule, foreign governments place no obstacles in the way of the commission's work. They have even encouraged their citizens in some cases to cooperate with the commission's experts. It is usual for the head of the Ministry of Commerce or a corresponding official of the Government in question to send formal letters of introduction to the firms which the commission wishes to interview. In this way its agents are fully accredited and when they get in touch with business men no question can be raised of the official character of their mission.

3. A third principle is that the commission's employees shall, immediately upon their arrival in the foreign city where they propose to work, establish contact with the American consul and with the commercial attaché or trade commissioner in charge of the district. These officers furnish helpful cooperation by supplying letters of introduction and by arranging interviews. Upon leaving the district the commission's European representative reports to the diplomatic officer in charge the general results of his visit.

4. Finally, in dealing with the foreign business man, the commission has taken great care to avoid any semblance of threat or pressure. It will be remembered that foreign agents of the United States Treasury Department, if they choose, may invoke the provisions of section 510 of the tariff act of 1922, which provides for the embargo of the shipments of foreign firms who refuse to disclose certain infor-Although this measure has been rarely employed, its presmation. ence in the act has caused some misunderstanding respecting the foreign work of the Tariff Commission. The commission has had no such powers and has taken pains to make this fact clear in its work The foreign manufacturer or exporter has been told frankly abroad. that the commission can make no difficulties for him if he refuses to He is told, on the other hand, that the commission furnish cost data. has under consideration an application for a change in the rate of duty on a product in which he is interested. If he chooses to avail himself of the opportunity the commission's experts will be glad to accept whatever information he may choose to furnish. Such information will, of course, have comparable standing before the commission with that furnished by domestic manufacturers only if it can be verified by methods similar to those employed in cost investigations in the United States. If he decides to give the cost information it is often because he feels that by doing so he can best present his case before the commission.

The methods employed in foreign cost investigations as described above are inevitably time-consuming. The commission's experts can not go immediately to centers of production in any foreign country, but must first go to the seat of government and spend a number of days there in formal interviews. Before coming into contact with the manufacturers, negotiations are often carried on with the heads of They may be able to give an immediate answer or their association. they may have to consult with the firms interested. In either event there is usually a certain amount of delay involved before the decision The matter may have to be discussed by the commisis obtained. sion's representatives with each producer in turn. The next step, therefore, is the discussion of the presentation of the commission's request to the individual foreign manufacturers. These firms may be widely scattered and a considerable amount of travel necessary before contacts can be established with them all.

On the Continent of Europe the commission's experts must surmount the language barrier. Cost records may be kept in any one of a number of different languages, and he may have to translate the cost terms into English and put all questions regarding the significance and interpretations of the figures to the manufacturer through an nterpreter.

XX. SURVEYS, REPORTS, AND INVESTIGATIONS

The work of each of the commodity divisions is described in this section.

During the past year practically the entire attention of the commodity divisions has been devoted to preparing information for the use of the Congress in enacting tariff legislation. Because of this work new reports or investigations, as a rule, have not been undertaken, and surveys and reports in progress have been adapted to the immediate use of Congress rather than completed for publication.

SCHEDULE 1. CHEMICALS, OILS, AND PAINTS

(a) GENERAL STATEMENT

The work of the chemical division is concerned with the chemicals and allied products enumerated in Schedule 1 and with related articles in the free list. It includes dyes, medicinals, perfumes, oils, paints, botanical drugs, pyroxylin and other plastics, and other related products.

During the current year the division has been occupied chiefly in compiling data for the use of the Congress in its readjustment of the tariff. In addition, it has prepared its appual edition of the In addition, it has prepared its annual edition of the census of dyes and other synthetic organic chemicals, and a compilation of dye import statistics in collaboration with the Department of Commerce, and has continued its work on investigations for purposes of section 315 of the tariff act of 1922.

(b) COMPILATION OF DATA FOR CONGRESS

The assistance rendered by the chemical division to Congress in the pending tariff revision may be summarized as follows:

 Preparation of tariff information summaries.
 Preparation of digest of testimony before and of briefs filed with the Committee on Ways and Means and the Committee on Finance, with an index of requests for changes in duties.

3. Attendance at committee hearings by chemical experts assigned to each committee (for presentation of data regarding chemical commodities).

4. Preparation of statistical data and reports personally requested by Representatives and Senators.

Summaries of tariff information are condensed forms of the tariff surveys prepared on the items in Schedule 1 and on the free list and on many important chemical items not specifically mentioned in the They are similar in form to those printed in 1922, tariff act of 1922. but contain additional data on prices, costs of production, and competitive conditions—all of which were used by the Committees on Ways and Means and Finance and by the Members of the Congress. In preparing these summaries and other work for the committees, experts from the division made analyses of invoices and tabulated data on many imported commodities for which adequate information on prices, transportation charges, and quality or grade was lacking. For some industries it was necessary to go into the field to obtain current information. Conferences in Washington with manufacturers, importers, and consumers also proved helpful in eliciting and checking information on specific commodities.

(c) CENSUS OF DYES AND OTHER SYNTHETIC ORGANIC CHEMICALS, 1928

The Twelfth Annual Census of Dyes and Other Synthetic Organic Chemicals, to appear early in 1930, brings to date the figures published in earlier census reports on the domestic production of (1) coke,

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coal tar, and coal-tar crudes; (2) intermediates; (3) finished products, such as dyes, color lakes, photographic chemicals, medicinals, perfumes, and flavors; (4) synthetic organic chemicals not derived from coal tar. In addition, it contains a list of all producing companies which have gone out of business, or have been merged with, or purchased by, or have otherwise passed into the control of other companies since January 1, 1925. Because of the pronounced trend during the last year toward mergers among industrial and other companies, this list is of interest.

COAL-TAR DYES

Domestic production.—For the fourth successive year domestic production of dyes has shown an increase. In 1928 production was 96,600,000 pounds, an increase of 1.5 per cent over 1927. Sales totaled 93,300,000 pounds, valued at \$39,790,000, an average of 42.6 cents per pound, or 9.2 per cent more than in 1927. Forty-seven firms reported production in 1928 as compared with 55 in 1927.

Domestic manufacturers supplied about 93 per cent of the apparent consumption of dyes by quantity and about 80 per cent by value during 1928, and there were exports of 27,800,000 pounds. The year was again characterized by the quantity of vat and other fast dyes produced, including many new types, particularly adapted for rayon, mixed fabrics, and specialties.

Prices of domestic dyes.—For the first time since 1917 the weighted average price per pound of all domestic dyes shows an increase, with a general average price of 9.2 per cent more in 1928 than in 1927. The increase was due to the higher prices paid for the bulk colors, indigo and sulphur black, and to the larger proportion of highpriced dyes in the total sales. As a group, however, the high-priced dyes showed a decline in weighted average selling price. Comparative prices per pound of total dyes in recent years follow:

1917	\$1.26	1926	\$0.42
1922	. 60	1927	. 39
1924	. 54	1928	. 42
1925	. 47		

Imports.—A change in the trend of dye imports is also noted in recent years. Totaling 5,351,951 pounds, valued at \$4,321,867 in 1928, imports showed the first increase since 1925; compared with the imports in 1927, they amounted to about 26 per cent more in both quantity and value. Imports were largely of the high-cost dyes originating chiefly in Germany and Switzerland.

Exports.—The 1928 export of 27,824,264 pounds, valued at \$6,531,619, represents an increase of 3.9 per cent in quantity and 18.8 per cent in value over 1927. The principal dyes exported were indigo and sulphur black, chiefly to the Orient.

SYNTHETIC ORGANIC CHEMICALS NOT DERIVED FROM COAL TAR

Since the first statistical compilation by the commission in 1921 of synthetic organic chemicals of noncoal-tar origin this group has shown a steady and remarkable increase in production. In 1921 domestic production was 21,545,186 pounds, with a sales value of \$9,264,430; by 1928 it had expanded to 384,564,836 pounds, with a sales value of \$69,221,670. The average unit value decreased from \$0.43 per pound in 1921 to \$0.18 in 1928. Production in 1928, compared with that in 1927, increased 27.6 per cent in quantity and 25.5 per cent in value. In 1928, for the first time, the value of production of synthetic chemicals was greater than that of the finished coal-tar products.

Important chemicals in this group showing substantial increases in production were ethylene glycol and derivatives, acetaldehyde and derivatives, amyl and butyl alcohols, synthetic methanol, ethyl chloride, tetraethyl lead, and furfural. Most of these chemicals are used in the production of lacquers, tires, antiknock gasoline, and antifreeze solutions.

Chief among the products first reported in 1928 are synthetic acetic acid, fermentation citric acid, and formic acid. Acetic acid from acetylene, produced in Canada during the war, is now manufactured in the United States on a large scale. The production of citric acid by the fermentation of cane sugar, and as a by-product of the California citrus industry, renders the United States independent of foreign raw materials. Likewise, the domestic production of formic acid by two firms in 1928 (for the first time since 1923) relieves consumers of entire dependence upon imports.

Early in 1929 successful production was reported of synthetic acetone from propane, and of synthetic ethyl alcohol from ethane, both constituents of natural gas. Some synthetic camphor was produced in the United States during the war and it is possible that it will again be made on a commercial scale.

INTERNATIONAL DYE TRADE

Many important developments in the international dye trade took place in 1928. Dye manufacturers of Germany, Switzerland, and France signed a sales agreement with provisions for fixing prices, establishing export quotas, using commercial bureaus in common, and for exchanging technical information. The year was characterized by increased exports from the United States, Great Britain, and Switzerland, and by a small decrease in exports from Germany. There was a continuance of the trend toward fast colors and toward the manufacture of new types of fast dyes and specialties.

The Interessen Gemeinschaft, the largest chemical and dye organization in Germany, increased its activities at home and abroad. Its outstanding domestic achievement was the increased output of fixed nitrogen and synthetic gasoline. A feature of its foreign program was the formation of the American I. G. Corporation for manufacture in the United States of dyes, chemicals, fertilizers, and other products.

Under the leadership of the Imperial Chemical Industries (Ltd.), the British dye industry expanded and increased its trade, both domestic and foreign. The Imperial Chemical Industries also entered the fixed nitrogen, synthetic methanol, and butyl alcohol industries.

(d) Cooperation With Other Government Departments

Since January, 1923, the Tariff Commission has cooperated with the Department of Commerce in the publication of a monthly list of imports of dyes and of other coal-tar products provided for in paragraphs 27 and 28 of the tariff act of 1922. Prompt publication during the early part of the month following importation of the dyes is an aid to domestic manufacturers in planning their production programs, and to consumers in purchasing dyes. The publication of monthly lists of chemicals other than those of coal-tar origin in paragraphs 1, 5, 23, and 61 (commenced in 1925) was discontinued at the close of the year 1928.

Since May, 1923, the Tariff Commission and the Department of Commerce have issued jointly a semiannual report on bacteriological stains, indicators, and research chemicals imported for consumption in the United States.

(e) Investigations for Purposes of Section 315 of the Tariff Act of 1922

(1) APPLICATIONS RECEIVED AND INVESTIGATIONS INSTITUTED

The commission has received since July 1, 1928, one application for an investigation for the purposes of section 315, with respect to the chemical schedule, namely, on tailors' chalk. The chemical division made a preliminary study of this commodity to assist the commission in determining whether an investigation was warranted. No new investigations of chemicals were instituted during the year, and because of demands by the Congress for data to be used in the pending tariff readjustment little progress was made on investigations already undertaken.

(2) REPORTS TO THE PRESIDENT

Potassium permanganate.—On May 26, 1927, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of potassium permanganate. Domestic and foreign costs of production were obtained late in 1927.

The largest use of potassium permanganate is in the purification of zinc salts used in the manufacture of lithopone; other important uses are as an antiseptic and disinfectant, as a remedy for poultry diseases, and as an ingredient of the filler in gas-mask canisters for the absorption of lethal gases.

Since 1923 there has been only one domestic manufacturer of potassium permanganate. Germany is the principal foreign producer, and Czechoslovakia probably the second.

Imports in 1923 amounted to 1,121,613 pounds, valued at \$142,877, or \$0.13 per pound; in 1927, to 319,332 pounds, valued at \$26,931, or \$0.084 per pound; and in 1928, to 600,944 pounds, valued at \$54,259, or \$0.09 per pound. About 70 per cent of the imports in 1926 and in 1927 originated in Germany.

Because costs of production were obtained from only one domestic and one German company, the figures can not be published without revealing confidential information. The difference in costs was greater than 6 cents per pound, the maximum duty permissible under the provisions of section 315, whether cost comparisons include transportation charges to New York, the principal market for the domestic and the imported articles, or transportation charges for the domestic and the foreign articles, respectively, to important markets in the United States for potassium permanganate. On November 16, 1928, the President issued a proclamation increasing the duty on potassium permanganate from 4 cents per pound to 6 cents per pound, effective December 16, 1928.

Linseed oil.—An investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of linseed oil was instituted by the commission on May 4, 1923. Costs of production were obtained in the latter part of 1923 from domestic crushers and from British and Dutch crushers. Hearings were held and briefs were filed in 1924, and a report was sent to the President on March 3, 1925. On February 6, 1926, the President asked for data covering a longer period than that for which the commission had submitted costs and for raw material costs. In order to comply with the President's request, the commission made a second field investigation and obtained costs of linseed oil for 1925 and 1926 and on August 4, 1926, instituted an investigation of the costs of production of flaxseed.² Linseed oil costs were obtained from domestic and English producers for 1925 and 1926, but producers in Holland did not give costs for these years. Costs were calculated for Holland, 1925 and 1926, on the basis of conversion costs obtained previously by the commission, and of prices paid for flaxseed and prices received for oil and cake.

Linseed oil is a drying oil obtained from flaxseed and used chiefly in the manufacture of paints, varnishes, oilcloth, and linoleum. Prior to 1923 the United States imported more than half of its requirements of flaxseed, chiefly from Argentina. Since 1923 production has been slightly greater than imports. From 1924 to 1927, inclusive, the average annual production was 21,500,000 bushels, and the average annual import, 19,000,000 bushels. Mills along the Atlantic seaboard crush imported seed; those in the Middle West crush domestic seed.

Imports of linseed oil reached a maximum in 1922, amounting to 19,184,826 gallons, as compared with a domestic production of 61,072,233 gallons. Thereafter decreased quantities came in, reaching a minimum of 23,189 gallons in 1928. Most of the imports of linseed oil are indirect in the form of flaxseed. Domestic production in 1926 was 96,014,659 gallons; in 1927, 103,561,933 gallons; and in 1928, 100,192,604 gallons.

On June 19, 1929, the commission transmitted to the President a report on linseed oil. All of the commissioners signed this report, but with respect to the cost of transportation of domestic oil three of the commissioners were of the opinion that the transportation to New York should be weighted by the production of all the mills included in the scope of the investigation. The other three commissioners were of the opinion that the transportation of domestic linseed oil to New York should be weighted by the production of the domestic mills, included in the scope of the investigation, that are located in Chicago, Milwaukee, and east thereof. The following table gives comparative costs of production of linseed oil in the United States and in the Netherlands, the chief competing country, as determined by the commission for 1925 and 1926, when the duty on flaxseed was 40 cents per bushel.

³ For a discussion of the flaxseed investigation, see Schedule 7.

Linseed oil, crude: Costs of production, including transportation charges to New York, for the United States and the Netherlands, 1925, 1926, and 2-year average

	1925		1926		Average, 1925, 1926	
	United States	Nether- lands	United States	Nether- lands	United States	Nether- lands
	Cents per pound	Cents per	Cents per pound	Cents per	Cents per pound	Cents per pound
Cost f. o. b. mill Transportation charges to New York, weighted by	12.30	9.49	10. 36	7.12		8. 15
Production of all domestic mills 1 Production of domestic mills including mills	. 40	. 44	. 35	. 29	. 37	. 40
of Chicago and Milwaukee and east thereof. Actual shipments. Cost, including transportation charges to New York, weighted by:	. 02	. 44 . 44	. 17 . 04	. 29 . 29	. 19 . 03	. 40 . 40
Production of all domestic mills Production of domestic mills including mills	12, 70	9. 93	10. 71	7.41	11. 70	8. 55
of Chicago and Milwaukee and east thereof. Actual shipments Duty required to equalize difference in cost of production, including transportation charges to New York, weighted by	12. 51 12. 32	9. 93 9. 93	10. 53 10. 40	7. 41 7. 41	11. 52 11. 36	8. 55 8. 55
Production of all domestic mills ² Production of domestic mills, including mills	2.77		3. 30		3. 15	
of Chicago and Milwaukee and east thereof. Actual shipments	2.58 2.39		3. 12 2. 99		2. 97 2. 81	
Rate of duty, act of 1922	3.3 cents per pound					

[Comparison of costs of production based upon a duty of 40 cents per bushel on flaxseed]

¹ Excluding production at Portland, Oreg., transportation charges are 0.38 of a cent for 1925, 0.32 of a cent for 1926, and 0.35 of a cent for 1926, 1926. ² The differences in costs of production, excluding transportation charges on the production at Portland, Oreg., are 2.75 cents for 1925, 3.27 cents for 1926, and 3.13 cents for 1925, 1926.

Prior to the completion of the linseed oil report, the President, under the provisions of section 315 of the tariff act of 1922, had increased the duty on flaxseed from 40 to 56 cents per bushel. The rate of duty on linseed oil required to compensate for the increase in duty of 16 cents per bushel on flaxseed, taking into consideration the drawback received upon imported seed from the export of oil cake, is calculated as follows:

The average drawback per bushel of imported flaxseed on exports of linseed oil and cake for 1925, 1926 was computed for each of the three principal crushing districts. These averages are 9.73 cents for the eastern district, 4.18 for the Buffalo district, and 2.52 for the district west of Buffalo, or 24.32, 10.45, and 6.30 per cent, respectively, of the duty upon flaxseed, 40 cents. Applying each of the above percentages to the 16-cent increase, the drawback deduction on the 16-cent duty by reason of the linseed oil and cake which would be exported with benefit of drawback is 3.89 cents per bushel for the eastern district, 1.67 cents for the Buffalo district, and 1.01 cents for the western district. The additional cost of flaxseed to domestic manufacturers in each of the districts is therefore the difference between 16 cents and the respective deductions for drawback, namely, 12.11 cents per bushel for the eastern district, 14.33 cents for the Buffalo district, and 14.99 cents for the western district. The weighted average net increase for the three districts combined is 13.77 cents per bushel of flaxseed, or 0.73 cent per pound of linseed In the following table, therefore, 0.73 cent has been added to oil. the domestic costs shown in the preceding table.

Linseed oil, crude: Costs of production, including transportation charges to New York City, for the United States and the Netherlands, 1925, 1926, and 2-year average

[Comparison of costs of production based upon a duty of 56 cents per bushel on flaxseed]

	1925		1926		A verage, 1925, 1926		
	United States	Nether- lands	United States	Nether- lands	United States	Nether- lands	
Cost f. o. b. mill Transportation charges to New York City,	Cents per pound 13.03	Cents per pound 9.49	Cents per pound 11.09	Cents per pound 7.12	Cents per pound 12.06	Cents per pound 8.15	
weighted by Production of all domestic mills, ¹ included in the scope of the investigation Production of domestic mills, including mills of Chicago and Milwaukee and east thereof. Actual shipments	. 40 . 21 . 02	. 44 . 44 . 44	. 35 . 17 . 04	. 29 . 29 . 29 . 29	.37 .19 .03	. 40 . 40 . 40	
 York City, weighted by— Production of all domestic mills, including the scope of the investigation— Production of domestic mills, including mills of Chicago and Milwaukee and east 	13. 43	9. 93	11.44	7.41	12.43	8. 55	
thereof Actual shipments	13.05 13.24	9.93 9.93	11.26 11.13	7.41 7.41	$12.25 \\ 12.09$	8.55 8.55	
Amount by which the cost of production in the United States exceeds the cost of production in the Netherlands, including transportation charges to New York City, weighted by— Production of all domestic mills,' included in the scope of the investigation. Production of domestic mills, including mills of Chicago and Milwaukee and east thereof. Actual shipments.		3.50 3.31 3.12		4.03 3.85 3.72		3.88 3.70 3.54	
Rate of duty, act of 1922	3.3 cents per pound						

¹ Excluding production at Portland, Oreg., transportation charges are 0.38 of a cent for 1925, 0.32 of a cent for 1926, and 0.35 of a cent for 1925, 1926. ² The differences in costs of production, excluding transportation charges on the production at Portland, Oreg., are 3.48 cents for 1925, 4 cents for 1926, and 3.86 cents for 1925, 1926.

On June 25, 1929, the President issued a proclamation increasing the duty on linseed oil from 3.3 cents per pound to 3.7 cents per pound, effective July 25, 1929.

(3) INVESTIGATIONS IN PROGRESS

Glue.-On July 24, 1925, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of glue. In the United States costs were obtained for extracted bone glue and hide glue; in Great Britain and Germany, for extracted bone glue. The principal British producer refused representatives of the commission access to the company's cost records, but another large manufacturer furnished cost data.

Glue is made from hides and bones. Its chief uses are as an adhesive for binding furniture parts together; as a binder for calcimine, for sizing paper and leather goods, and in compounding rubber.

Since 1921 the annual domestic production of hide glue has ranged between 58,000,000 and 65,000,000 pounds; extracted bone glue, between 8,000,000 and 9,000,000 pounds; and green bone glue, from 28,000,000 to 35,000,000 pounds. During the same period

imports have been from 5,000,000 to 7,000,000 pounds annually, and have consisted largely of extracted bone glue. From 1923 to 1927, inclusive, Great Britain was the chief source of imports, but in 1926 Germany supplied almost as much as did Great Britain. British glue imported into this country is nearly all bone glue; imports from Germany are probably 75 per cent bone, and the remainder low-grade hide glue.

A preliminary statement of information was issued prior to a public hearing held in the offices of the commission in Washington April 26 and 27, 1928. Since that date the commission has obtained costs of production of hide glue in Germany, the principal source of imports.

Tartaric acid.—On March 4, 1926, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of tartaric acid. Costs of production were obtained for the United States, Italy, and Germany for the years 1924 to 1926, inclusive.

Tartaric acid is made from argols and wine lees, which are almost entirely imported. The baking-powder and pharmaceutical industries are the largest consumers of tartaric acid. Photography, package gelatin, confectionery, soft drinks, and tartrazine dyes are also consuming industries.

In 1925 'the domestic production of tartaric acid was 5,498,920 pounds, and imports amounted to 3,472,252 pounds. A preliminary statement of information was issued prior to a public hearing held in the offices of the commission in Washington, July 25, 1928. Briefs were filed by interested parties on September 17, 1928. Cream of tartar.—On March 4, 1926, the commission instituted an

Cream of tartar.—On March 4, 1926, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of cream of tartar. Domestic costs of production were obtained from four manufacturers. Foreign costs of production were sought from individual producing companies in France, the principal source of imports, but were not obtained. Invoice prices were used as an evidence of foreign costs.

The raw materials used in the production of cream of tartar are similar to those used in the manufacture of tartaric acid. Its principal use is as an ingredient of baking powders; other products into which it enters are self-rising flour and candy.

The apparent annual consumption of cream of tartar is about 7,250,000 pounds. In 1925 domestic production amounted to 7,041,766 pounds and imports to 315,652 pounds. In recent years France has been the chief source of imports.

A preliminary statement of information was issued to the trade prior to a public hearing held in the offices of the commission on July 25, 1928. Briefs were filed by interested parties on September 17, 1928.

Sodium phosphate.—On May 26, 1927, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of sodium phosphate.

Three kinds of sodium phosphate are known in commerce—mono-, di-, and tri-sodium phosphate—all made from the same raw materials, phosphoric acid and alkalies, and each having its distinct uses. Monosodium phosphate is relatively unimportant, only small quantities being used for baking powders and in medicines. Di-sodium phosphate is used in weighting silk, from 75 to 90 per cent of total consumption serving this purpose. Tri-sodium phosphate, the form that the bulk of domestic production takes, is used chiefly in household and industrial cleaning preparations.

Domestic cost data for the calendar year 1926 were obtained in the latter part of 1927 from the six manufacturers. Costs of production of di-sodium phosphate were obtained from the principal producer in Germany for the calendar year 1926, and of di- and tri-sodium phosphate from the single manufacturer in Belgium for the periods July 1, 1925, to June 30, 1926; July 1, 1926, to June 30, 1927; and July 1 to December 31, 1927.

Čensus figures for 1925 show a domestic production of 106,000,000 pounds of tri-salt, and 30,500,000 pounds of mono- and di-salts, of which the mono-salt constitutes only a small proportion. In 1926 imports of all forms amounted to 9,066,657 pounds, valued at \$228,313, or \$0.0252 per pound. Of the total imports, di-salt constituted the largest percentage and tri-salt the next. In 1927 imports of all kinds of sodium phosphate were approximately double those of 1926.

Foreign competition is chiefly from di-sodium phosphate, the principal market for which is near the Atlantic seaboard. The consumption of tri-sodium phosphate is widely scattered over the country.

A preliminary statement of information was issued for use at a public hearing held on January 15 and 16, 1929. Whiting and precipitated chalk.—On May 26, 1927, the commission

Whiting and precipitated chalk.—On May 26, 1927, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of whiting and precipitated chalk. During the period July to November, 1927, the commission obtained domestic cost data from the five companies making whiting for sale and from the two manufacturers of precipitated chalk. In August and September, 1927, the commission obtained foreign costs from two of the four manufacturers of whiting in Belgium and from the principal producer of precipitated chalk in England.

Preliminary statements of information on whiting and precipitated chalk were issued prior to the public hearing held in the offices of the commission on June 20, 1928. Briefs on whiting were filed by interested parties on July 23, 1928. The report covering these two commodities has been prepared and transmitted to the President.

Whiting.—Whiting is finely ground natural chalk and is used chiefly in the manufacture of calcimine, wall paints, putty, and rubber. The whiting produced in the United States is made almost entirely from natural chalk imported from Belgium and France. The importation of natural chalk amounted to 217,000,000 pounds in 1928. Imports of whiting increased from 34,500,000 pounds in 1922 to nearly 66,000,000 pounds in 1926 and 80,000,000 pounds in 1928.

Complete statistics of the domestic production of whiting are not available. Data collected by the commission on total sales in the period 1922 to 1926 of firms manufacturing whiting for sale show a maximum of 136,000,000 pounds sold in 1923 and a minimum of 110,000,000 pounds sold in 1926. The annual production of six companies manufacturing for their own consumption is estimated at 78,000,000 pounds.

Apparent consumption in 1926 was about 251,000,000 pounds, and in 1928 was about 297,000,000 pounds.

Belgium is the chief source of imports of natural chalk and of whiting.

Precipitated chalk.—Precipitated chalk is made by a chemical process from limestone and is chiefly used in the manufacture of tooth pastes. Production in the United States is wholly from domestic raw materials. Statistics of the domestic production of precipitated chalk can not be published without revealing confidential information. An estimate given before the Senate Finance Committee in 1922 put the annual consumption at 5,000,000 pounds.

Imports of precipitated chalk in 1926 amounted to 3,132,527 pounds; in 1927 to 2,766,401 pounds; and in 1928 to 3,712,903 pounds. Statistics are not available for earlier years. England was the chief source of imports, supplying about 80 per cent of the total.

Nitrate of potash, refined.—On April 18, 1928, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of costs of production of refined nitrate of potash. Costs of production were obtained from the one domestic producer in 1928. In that year, however, domestic production ceased, and on February 5, 1929, the commission dismissed the investigation.

February 5, 1929, the commission dismissed the investigation. Barium chloride.—On July 20, 1928, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of barium chloride. Domestic and foreign costs were obtained.

Barium chloride is used chiefly in the preparation of color lakes for lithographic inks and paints; as a weighting agent in kid leather; and in the purification of salt brine. There are only two domestic manufacturers and their production can not be shown without disclosing confidential information. Imports in recent years have averaged about 3,500,000 pounds. In 1927, Germany and Belgium were the principal sources of imports, supplying almost equal quantities. During the first six months of 1928 Belgium was the chief source.

A preliminary statement of information was issued prior to the public hearing held in the offices of the commission on March 5, 1929.

Decolorizing and deodorizing carbons.—On August 11, 1928, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of decolorizing and deodorizing carbons. Costs of production have been obtained and tabulated for the United States and the Netherlands.

Decolorizing and deodorizing carbons are charcoals that have been activated by special processes so that they are capable of absorbing much greater quantities of coloring matter or of impurities than ordinary charcoals or bone char. The industrial application of these carbons, also known as activated carbons, is a result of the war-time development of carbons for gas-mask canisters to absorb lethal gases.

Decolorizing and deodorizing carbons are used principally in the refining of sugar sirups, vegetable oils and fats, glycerin, crystallized chemicals (both organic and inorganic), and in the recovery of drycleaners' solvents.

Bone char is at present (1929) the chief agent for decolorizing sugar and sirup. For cane sugar it has two distinct advantages over decolorizing carbons: (1) It will remove a far greater proportion of the mineral salts; (2) the spent material is at present more satisfactorily revivified than are the spent decolorizing carbons. Activated carbons are much more powerful decolorizing agents than bone char, hence correspondingly smaller quantities are required. Their use for bleaching sugar insures a substantial saving in cost of equipment, materials, and operation. Experimental work is being carried on looking toward the further displacement of bone char by decolorizing carbons. Indications are that the depression in the sugar industry and the large amount of capital tied up in bone-char equipment and material offer serious obstacles to the general replacement of bone char by decolorizing carbons in the near future. The development of other promising uses for decolorizing carbons should, however, greatly increase their consumption.

There are two domestic manufacturers of decolorizing carbons. Imports in 1927 amounted to 1,126,446 pounds, or double the quantity imported in 1925. In 1928 they amounted to 1,264,073 pounds. Holland is the principal source of imports, but the organization of cartels and the negotiation of international agreements among European producers indicate that Germany is endeavoring to obtain an increased share of the United States markets.

(f) STATISTICS OF COMMODITIES ON WHICH CHANGES IN RATES OF DUTY HAVE BEEN MADE UNDER SECTION 315

(1) Barium dioxide.—The President, by a proclamation effective June 18, 1924, increased the rate of duty on barium dioxide from 4 to 6 cents per pound. Imports in 1925, amounting to over 1,270,000 pounds, were about one-third less than imports in 1923. Beginning with 1926, imports have been insignificant compared with former years. In 1924 there was only one domestic producer of barium dioxide. By 1928 two others had entered the field.

The following table shows imports of barium dioxide from 1923 to June, 1929.

Barium dioxide: Imports for consumption, 1923–1929 (six months)

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922, 4 cents per pound. Rate of duty changed by presidential proclamation to 6 cents per pound, June 18, 1924]

Year	Quantity	Foreign value	Unit value
1923 1924 ¹ 1924 ²	Pounds 1, 810, 593 698, 949 1, 021, 756	\$152, 570 52, 587 67, 787	\$0. 084 . 075 . 066
1924 (total)	1, 720, 705 1, 270, 443 98, 901 11, 496 12, 551 None.	120, 374 70, 553 8, 157 1, 264 1, 310 None.	.070 .056 .082 .110 .104 None.

¹ Imports prior to June 18, 1924, date of increase in rate of duty. ² June 18 to Dec. 31, 1924.

Following the change in rate, New York spot prices of both domestic and imported barium dioxide remained constant at 17 cents and 15 cents, respectively, until May, 1925. They then declined to 13 cents per pound for both domestic and imported, a level that was maintained for the domestic through December, 1927, and for the imported through June, 1927. Imported barium dioxide has since been quoted at 12 cents, through August, 1929.

The following table shows price quotations per pound of domestic and imported barium dioxide in the spot New York market from 1923 to August, 1929.

Barium dioxide: Price 1 per pound, 86 to 88 per cent, New York spot market, 1923-1929

	19	23	1	924	19	925	19)26	19	27	1928	1929
Month	Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic 1	Imported ²	Domestic ²	Imported ³	Imported ³	Imported
January. February	\$0.18 .18 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	\$0. 14 .14 .14 .14 .14 .14 .14 .14 .14 .14	\$0. 17 .17 .16 .17 .17 4 .17 .17 .17 .17 .17 .17 .17 .17	$\begin{array}{c} \$0.13\frac{1}{2}\\.13\frac{1}{2}\\.15\\.14\frac{1}{2}\\.14\frac{1}{2}\\.15\\.15\\.15\\.15\\.15\\.15\\.15\\.15\\.15\\.15$.17 .16 .16	\$0. 15 .15 .15 .13 .13 .13 .13 .13 .13 .13 .13 .13	\$0. 13 .13 .13 .13 .13 .13 .13 .13 .13 .13	\$0. 13 . 13	\$0. 13 . 13	\$0. 13 .13 .13 .13 .13 .13 .13 .12 .12 .12 .12 .12 .12 .12 .12	\$0.12 .12 .12 .12 .12 .12 .12 .12 .12 .12	\$0.12 .12 .12 .12 .12 .12 .12 .12 .12 .12

¹ The low quotation on the date nearest the 1st of each month. Source: Drug and Chemical Market (1923-1927) and Oil, Paint, and Drug Reporter (1928-29).

282 per cent.
386 to 88 per cent.
4 Increase in rate of duty, effective June 18, 1924.

(2) Diethylbarbituric acid (barbital).—On November 14, 1924, the President issued a proclamation, effective November 29, 1924, changing the basis of the assessment of duty on diethylbarbituric acid from 25 per cent ad valorem on the foreign market value to 25 per cent ad valorem on the "American selling price" as defined in subdivision (f) of section 402 of the tariff act of 1922 of similar products produced in the United States and sold under their respective chemical names (including barbital and barbital sodium) "not using for the purpose of said basis and assessment such price of such articles when sold under the trade-mark name "Veronal" or "Veronalsodium."

The incompleteness of import statistics for this chemical prior to 1926 makes it difficult to determine the effect of the change in duty on foreign shipments to this country. Imports since 1926 have been as follows:

Diethylbarbituric acid and derivatives: Imports for consumption, 1927-1929 (6 months)

[Source: Foreign Commerce and Navigation of the United States]

[Increased rate of duty effective November 29, 1924, after which date all values shown are on the basis of American selling price]

Year	Quantity	Value	Unit value
1927 1 1928 1929 (6 months)	Pounds 15, 502 23, 278 18, 301	\$132, 084 190, 112 148, 367	\$8. 52 8. 17 8. 11

1 April to Dec. 31.

In November, 1924, the price of imported barbital was quoted at \$3.30 per pound, and in December, immediately after the increase, at \$4.50. In February, 1925, there was a decline to \$4, a price that was maintained until November, when it increased to \$4.20. In January-March, 1926, the quotation was \$4.15 per pound; from April, 1926, to March, 1927, inclusive, it was \$4, after which it remained at \$3.85 through November, then fell to \$3.75 in December, 1927. Later quotations on the imported material are not available.

Domestic barbital declined from \$10 per pound preceding the ange in duty to \$8 for the month following the change. This change in duty to \$8 for the month following the change. This price was maintained through November, 1927; since then it has been \$4.60 per pound.

The following table shows the price quotations per pound of domestic and imported barbital, New York spot market, from January, 1924, to July, 1929.

Diethylbarbituric acid: Price 1 per pound, New York spot market, 1924-1929

	1924		19	1925		1926		1927		1929
Month	Do- mestic	Im- ported	Do- mestic	Im- ported	Do- mestic	Im- ported	Do- mestic	Im- ported ²	Do- mestic	Do- mestic
January. February. March. April. May. June. July. August. September. October. November. December.	\$8. 50 8. 50 8. 50 8. 50 10. 00 10. 00 10. 00 10. 00 10. 00 10. 00 10. 00 \$ 8. 00	\$4. 10 3. 75 3. 75 3. 50 3. 50 3. 50 3. 50 3. 30 \$ 4. 50	\$8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	\$4. 25 4. 00 4. 10 4. 00 4. 00	3 \$8.00 8.00 8.00 8.00 4 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	\$4. 15 4. 15 4. 15 4. 00 4. 00 4. 00 4. 00 4. 00 4. 00 4. 00 4. 00 4. 00 4. 00	\$8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	\$4.00 4.10 4.00 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85	\$4.60 4.60 4.60 4.60 4.60 4.60 4.60 4.60	\$4. 60 4. 60 4. 60 4. 60 4. 60 4. 60 4. 60 4. 60

¹ The low quotation on the date nearest the 1st of each month on large quantities of material. Source: Drug and Chemical Markets, New York. ² Not quoted after 1927.

³ Drug and Chemical Markets.

Beginning May, 1926, quotations are from Drug Markets.
 Increase in the rate of duty effective Nov. 29, 1924.

(3) Oxalic acid.—The President, by proclamation, increased the rate of duty on oxalic acid from 4 to 6 cents per pound, effective January 28, 1925. Imports reached their maximum in 1924, when 3,135,664 pounds were imported. They afterwards declined to 890,000 pounds in 1928, and in the first six months of 1929 to 332,000 pounds. Increased quantities of mixtures and salts of oxalic acid are being imported, such as a mixture of oxalic acid and sodium silicofluoride, and iron ammonium and iron sodium oxalates.

The following table shows imports of oxalic acid for the years 1923 to June, 1929.

Oxalic acid: Imports for consumption, 1923-1929 (6 months)

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922, 4 cents per pound. Rate of duty changed by presidential proclamation to 6 cents per pound, January 28, 1925]

Year	Quantity	Foreign value	Unit value
1923 1924 1925 1 1925 1 1925	Pounds 2, 621, 302 3, 135, 664 2, 569, 275 1, 583, 011 1, 843, 732 890, 203 332, 535	206, 100 177, 641 117, 639 71, 685 98, 657 46, 447 17, 196	\$0. 079 . 057 . 046 . 045 . 054 . 052 . 052

¹ Increase in rate of duty effective Jan. 28, 1925.

For the five months preceding the change in duty the price of oxalic acid was constant at about 91/2 cents per pound spot, New York. Following the change in rate both the domestic and the imported had a slightly higher market value. From March, 1925, through September, 1926, prices were fairly stable at $10\frac{3}{4}$ cents per pound for domestic and $10\frac{3}{4}$ to $11\frac{3}{4}$ cents for the imported. Since October, 1926, domestic acid has been 11 cents and imported 11 to 121/4 cents per pound.

The following table gives monthly quotations on imported and domestic oxalic acid in the New York spot market for the years 1924 to August, 1929.

	1924		1925		1926		1927		1928		1929	
Month	Do- mes- tic	Im- ported	Do- mes- tic	Im- ported	Do- mes- tic	Im- ported	Do- mes- tic	Im- ported	Do- mes- tic	Im- ported	Do- mes- tic	Im- ported
January. February March April June July September October November December	\$0. 12 . 111/2 . 101/2 . 101/2 . 101/2 . 101/2 . 101/4 . 101/4 . 101/4 . 101/4 . 091/2 . 091/2 . 091/2 . 091/2	. 1014 . 1012 . 1012 . 1014 . 10 . 10 . 0912 . 0912 . 0912 . 0912 . 0912	$\begin{array}{c} 2.11\\ .101/2\\ .103/4\\ .$	2. 1014 . 1014 . 1034 . 1034 . 1034 . 1134 . 11 . 11 . 11 . 11 . 11	$ \begin{array}{c} .1034\\ .1034\\ .1034\\ .1034\\ 3.1034 \end{array} $	$\begin{array}{c} .11\\ .11\\ .11^{8}_{4}\\ .11^{8}_{4}\\ .11^{1}_{4}\\ .11^{1}_{4}\\ .11^{1}_{4}\\ .11^{1}_{4}\end{array}$.11 .11 .11 .11 .11 .11 .11 .11 .11 .11	$\begin{array}{c} \$0.111_{2}\\ .111_{2}\\ .111_{2}\\ .115_{8}\\ .115_{8}\\ .115_{8}\\ .115_{8}\\ .115_{8}\\ .113_{4}\\ .113_{4}\\ .113_{4}\\ .113_{4}\\ .113_{4}\\ \end{array}$.11 .11 .11 .11 .11 .11 .11 .11 .11 .11	$\begin{array}{c} \$0.1184\\ .1184\\ .1184\\ .1184\\ .1186\\ .1184\\ .1184\\ .1184\\ .1184\\ .1184\\ .1178\\ .1178\\ .1178\\ .1178\\ .1178\end{array}$.11 .11 .11 .11 .11 .11 .11 .11	\$0. 117/s .117/s .121/s .121/s .121/s .121/s .121/s .117/s .117/s

Oxalic acid: Price 1 per pound, New York spot market, 1924-1929

¹ The low quotation on date nearest the 1st of each month. Source: Drug and Chemical Markets,

New York. ² Increase in rate of duty effective Jan. 28, 1925. ³ Beginning May, 1928, quotations are from Chemical Markets, and January, 1928, Oil, Paint, and Drug

(4) Methanol.—The President's proclamation increasing the rate of duty on methanol from 12 to 18 cents per gallon became effective December 27, 1926. In the 12 months prior to the change in duty imports amounted to 754,917 gallons (with an average foreign value of 46 cents per gallon), or nearly 10 per cent of domestic consumption. In the 12 months following the change, 1,714,442 gallons of methanol were imported with an average foreign value of 42 cents per gallon. Importations in 1927 represent the peak in entries of methanol. Domestic production of synthetic methanol by two firms commenced in 1927 and by a third firm in 1929. This synthetic product was offered for sale in 1927 as low as 42 cents per gallon.

The following table shows monthly imports of methanol from January, 1926, to June, 1929, inclusive.

Methanol: Imports for consumption, January, 1926, to June, 1929 1

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922, 12 cents per gallon. Rate of duty changed by presidential proclamation to 18 cents per gallon, Dec. 27, 1926]

		1926			1927	
Month	Quantity	Foreign value ¹	Foreign unit value ¹	Quantity	Foreign value	Foreign unit value
January Pebruary March April May June July September October Docember December	71, 749 36, 215 55, 079 20, 436 34, 963 32, 865 80, 435 38, 966	\$31, 044 19, 937 32, 390 15, 521 25, 334 9, 433 14, 303 15, 028 37, 171 18, 005 33, 730 93, 249	\$0. 48 46 45 43 43 46 46 46 46 46 46 46 46 46 46	Gallons 312, 196 67, 241 145, 928 164, 349 316, 172 199, 541 102, 382 93, 008 52, 724 88, 385 76, 598 93, 918	140, 810 29, 464 61, 283 67, 923 138, 582 87, 456 44, 380 41, 619 23, 606 32, 851 23, 338 26, 650	\$0.45 .44 .42 .41 .44 .43 .44 .43 .44 .43 .31 .28
Total	754, 917	345, 530	. 46	1, 714, 442	718, 412	. 42
		1928]	1929	
Month	Quantity	Foreign value	Foreign unit value	Quantity	Foreign value	Foreign unit value
January February	73, 939	\$13, 475 18, 137	\$0. 248 . 245	Gallons 70, 472 41, 485 75, 460	\$28, 875 15, 607 30, 804	\$0. 410 . 376 . 408
April May June				92, 904 71, 461 54, 804	43, 808 26, 792 20, 386	.472 .375 .372
September October November December	54,710 17,062	20, 996 6, 519 31, 996 38, 216	. 384 . 382 . 382 . 382 . 399			
Total	379, 291	129, 339	. 341			

1 Increased rate effective Dec. 27, 1926.

Methanol: Price 1 per gallon, New York spot market, in tanks, January, 1926, to August, 1929

[Source: Oil, Paint, and Drug Reporter]

3544		95 pe	r cent		Pure			
Month	1926	1927	1928	1929	1926	1927	1928	1929
January	\$0. 55	\$0. 80	\$0.45	\$0. 55	\$0.65	\$0.85	\$0. 50	\$0. 60
February March	. 55 . 55	. 80 . 80	.40	. 55	.65 .65	.85 .80	$.46\frac{1}{2}$ $.46\frac{1}{2}$	
April	. 53	.80	.43	. 55	. 65	, 85	.461/2	
May	. 53	. 80	. 43	. 55	. 65	.85	. 421/2	. 6
June	. 53	. 63	. 43	. 55	. 65	. 68	. 401/2	.6
July	. 52	. 63		. 55	. 65	. 68		.6
August	. 55	. 63	.45	. 55	. 65	: 68	. 50	.6
September	. 65	. 50	. 45		. 75	. 55	. 50	
October	.65	. 50	.45		.75	. 55	. 50	
November	. 70	. 45	. 55		. 80	. 50	.60	
December	2,75	. 45	. 55		2.85	. 50	. 60	

¹ The low quotation on the date nearest the 1st of the month. ²Increase in rate of duty effective Dec. 27, 1926.

Following the change in duty the New York wholesale prices on all grades of methanol increased approximately 5 cents per gallon, and within a month thereafter the 85 per cent grade advanced another 5 cents. A fairly uniform level was then maintained through May. By September competition from imported material and seasonal depression had caused prices to recede to 50 cents per gallon for 95 per cent and to 55 cents for pure methanol, and by June, 1928, gradual recessions to 43 cents for 95 per cent and to 40½ cents for pure had taken place. There was a strengthening to 45 and 50 cents per gallon in August, and to 55 and 60 cents in November, 1928, prices that have since prevailed.

(5) Potassium chlorate.-The President, by proclamation, increased the rate of duty on potassium chlorate from $1\frac{1}{2}$ to $2\frac{1}{4}$ cents per pound, effective May 11, 1925. Import statistics did not segregate potassium chlorate and perchlorate prior to May 11, 1925, but the quantities reported jointly were chiefly potassium chlorate. In 1924 imports of potassium chlorate amounted to 7,520,700 pounds.³ In 1925 they decreased to 5,551,000 pounds; they have since averaged about 12,000,000 pounds per year. There has been no domestic production of potassium chlorate for several years.

The following table shows imports of potassium chlorate for the years 1923 to June, 1929, inclusive.

Potassium chlorate: Imports for consumption, 1923-1929 (6 months)

R ate of duty, under act of 1922, 1½ cents per pound. Rate of duty changed by presidential proclamation to 2¼ cents per pound, May 11, 1925]

Year	Quantity	Foreign value	Unit value	Year	Quantity	Foreign value	Unit value
1923 1 1924 1 1925 1 2 1925 2 1925 (total)	Pounds 13, 498, 145 7, 520, 700 3, 761, 444 5, 551, 381 9, 312, 825	\$569, 399 310, 643 141, 530 202, 014 343, 544	\$0.042 .041 .038 .036 .037	1926. 1927. 1928. 1929 (6 months)	Pounds 12, 110, 875 13, 122, 384 11, 980, 027 6, 464, 015	\$430, 883 476, 887 417, 405 220, 962	\$0. 036 . 036 . 035 . 034

Includes potassium perchlorate.
 Imports prior to May 11, 1925, date of increase in rate of duty.
 May 11 to Dec. 31, 1925.

The average invoice price of imported potassium chlorate since the change in the duty is practically the same as before, namely, from 3.4 cents to 3.6 cents per pound. The price quotations of the imported product in the New York market, duty and all other charges paid, have varied from less than 7 cents to 9 cents per pound, but during most of the period since the change in the duty in May, 1925, they have ranged from $7\frac{1}{2}$ cents to $8\frac{1}{2}$ cents per pound.

The following table shows price quotations of imported potassium chlorate in the spot New York market from January, 1924, to August, 1929, inclusive. Domestic prices can not be given, because there has been no domestic production of potassium chlorate in recent years.

³Includes potassium perchlorate.

Potassium chlorate, powdered: Price 1 per pound of imported product, New York spot market, 1924 to August, 1929

Month	1924	1925	1926	1927	1928	1929
January February	\$0. 071/2 . 071/2 . 071/2 . 065/2 . 065/2 . 065/2 . 065/2 . 061/2	\$0. 0634 . 0634 . 07 . 09 . 0834 . 0834 . 0834 . 0834 . 0834 . 0834	\$0. 0814 . 0814	\$0. 0814 . 0715	\$0. 0715 .0734 .0734 .0735 .0735 .0735 .0735 .0735 .0735 .0735 .0755 .0755 .0755 .0755	\$0. 0714 . 0734 . 0734 . 0734 . 0734 . 0734 . 0734 . 0734 . 0734

¹ The low quotation on the date nearest the 1st of each month. Source: Drug and Chemical Markets,

Wew York.
 Increase in rate of duty effective May 11, 1925.
 May, 1926, to December, 1927, quotations are from Chemical Markets; 1928-29, from Oil, Paint, and Drug Reporter.

(6) Sodium nitrite.—The President's proclamation increasing the rate of duty on sodium nitrite from 3 to $4\frac{1}{2}$ cents per pound became effective June 5, 1924. From a volume of 4,500,000 pounds in 1923 and in 1924, imports decreased to about 1,900,000 pounds in 1925 and in 1926, to 291,726 pounds in 1927, and to 107,739 pounds in In 1923 there were two small and one large domestic producers 1928. of sodium nitrite. One of the large plants was burned and not rebuilt. At present there are four important producers in the United States. The following table shows imports from the years 1923 to June,

1929.

Sodium nitrite: Imports for consumption, 1923-1929 (6 months)

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922, 3 cents per pound. Rate of duty changed by presidential proclamation to 4½ cents per pound, June 5, 1924]

Year	Quantity	Foreign value	Unit value	Year	Quantity	Foreign value	Unit value
1923 1924 1 1924 2 1924 (total)	Pounds 4, 685, 527 3, 277, 065 1, 234, 274 4, 511, 339	\$209, 029 129, 167 49, 198 178, 365	\$0. 045 . 039 . 040 . 040	1925 1926 1927 1928 1929 (6 months)	Pounds 1, 971, 105 1, 927, 109 291, 726 107, 739 149, 270	\$78, 149 69, 575 10, 809 4, 158 5, 782	\$0.040 .036 .037 .039 .039

¹ Imports prior to June 5, 1924, date of increase in rate of duty. ² June 5 to Dec. 31, 1924.

Following the change in duty, the price of sodium nitrite increased, the imported slightly more than the domestic. During the three months preceding the change prices were stable at 8½ cents for both the domestic and the imported. By the early months of 1925 quotations had become fairly constant at 8% cents for domestic and 9½ cents for imported. These prices were maintained until September, 1925, when both the imported and domestic sold for about 9 During the first eight months of 1926 the domestic price cents. was constant at 9 cents. From June, 1926, to March, 1927, the

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imported was quoted at 8% cents; from March, 1927, to October, 1928, at 8½ cents; and since then at 8¾ cents. The domestic dropped to 8⁴/₄ cents in September, 1926; to 8 cents in April, 1927; 7¹/₂ cents in December, 1927; and 7⁴/₄ cents in March, 1928, at which price it has since been quoted.

The following table shows monthly price quotations of sodium nitrite, domestic and imported, in the spot New York market from January, 1923, to August, 1929, inclusive.

Sodium nitrite: Price¹ per pound, 96 to 98 per cent, New York spot market, January, 1923, to August, 1929

	19	23	19	24	19	25	19	26
Month	Domestic	Imported	Domestic	Imported	Domestic	Imported	Domestic	Imported
fanuary \$0.10 \$0.08 February 10 .081/2 March 10 .081/2 April 10 .081/2 May 10 .081/2 May 10 .081/2 May .00 .081/2 May .01 .081/2 May .01 .081/2 May .01 .071/2 September .071/2 .071/2 October .071/2 .071/2 December .071/2 .071/2 December .08 .071/2		.0814 .0814 .0814 .0814 .0814 .0814 .0814 .0814 .0814 .0814 .0815 .0834 .0816 .0834 .0816 .0834 .0816 .0834 .0816 .0834 .0816 .0834 .0834 .0834 .0834 .0934 .0914 .09 .09 .09		\$0.0856 \$0.0972 .0856 .0972 .0856 .0974 .0856 .0974 .0856 .0974 .0856 .0974 .0856 .0974 .0856 .0974 .0856 .0974 .0856 .0974 .0856 .0974 .0876 .097 .099 .09 .09 .09 .0912 .09		.09 .09		
			19	27	19	28	19	29
Mor	110		Domestic	Imported	Domestic	Imported	Domestic	Imported
January. February. March April. June. June. July. September. October. December.			\$0. 0834 . 0834 . 0834 . 08 . 08 . 08 . 08 . 08 . 08 . 08 . 08	\$0. 0834 . 0834 . 0834 . 0832 . 0832 . 0832 . 0832 . 0832 . 0832 . 0832 . 0832 . 0832	. 0732 . 0734 . 0734 . 0734 . 0734 . 0734 . 0734 . 0734 . 0734	\$0. 081/2 . 083/2 . 083/4 . 083/4	. 07/4 . 07/4 . 07/4 . 07/4 . 07/4 . 07/4 . 07/4	\$0. 083 . 085 . 083 . 085 . 08

[Source: Oil, Paint, and Drug Reporter, New York]

The low quotation on the date nearest the 1st of each month.
 Increase in rate of duty effective June 5, 1924.
 Beginning May, 1926, quotations are from Chemical Markets.

(7) Cresylic acid.—The President, by proclamation effective August 19, 1927, decreased the rate of duty on refined cresylic acid from 7 cents per pound and 40 per cent ad valorem on the basis of the American selling price to $3\frac{1}{2}$ cents per pound and 20 per cent ad valorem on the basis of the American selling price.

Imports of cresylic acid amounted to 441,646 pounds in 1924, decreased greatly in 1925 and 1926, and were negligible in 1927 up to the time of the decrease in the rate of duty. In November and December, 1927, imports were unusually large, bringing the total for the year up to 609,886 pounds. In 1928 they further increased to nearly 1,000,000 pounds, and during the first six months of 1929, exceeded this quantity. The following table shows monthly imports of cresylic acid from January, 1926, to June, 1929.

Cresylic acid: Imports for consumption, January, 1926, to June, 1929

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922: September 22, 1922, 7 cents per pound plus 55 per cent (based on American selling price); September 22, 1924, 7 cents per pound plus 40 per cent (based on American selling price). Rate of duty changed by presidential proclamation to 334 cents per pound plus 20 per cent (based on American selling price), effective August 19, 1927]

		1926			1927		
Month	Quan- tity	Value	Unit value	Quan- tity	Value	Unit value	
January	Pounds			Pounds			
February March				10	\$4	\$0. 400	
April May June	501	\$90	\$0. 180				
July August	915	80	. 087	1 964	135	. 140	
September October	22, 604	4, 145	. 183	1, 126	160	. 142	
November December	1, 912	433	. 226	196, 054 411, 732	12, 875 24, 272	. 066 . 059	
Total	25, 932	4, 748	. 183	609, 886	37, 446	. 061	
		1928		1929			
Month	Quan- tity	Value	Unit value	Quan- tity	Value	Unit value	
·				Pounds			
February	Pounds 350, 529	\$19, 200 	\$0. 055	57, 295 412, 017	\$3, 797 34, 313	\$0.066 .083	
January February March. April May May	350, 529 1, 000 112, 024	\$19, 200 600 10, 378	\$0. 055 . 600 . 093	57, 295 412, 017 102, 771 206, 668 53, 656	34, 313 12, 208 18, 067 3, 565	. 083 . 119 . 087 . 066	
February March April May June June	350, 529 1, 000		. 600	57, 295 412, 017 102, 771 206, 668	34, 313 12, 208 18, 067	. 083 . 119 . 087 . 066	
February March A pril May June July August	350, 529 1, 000 112, 024 4, 724 150, 450	600 10, 378 410 8, 434	. 093 . 087 . 056	57, 295 412, 017 102, 771 206, 668 53, 656	34, 313 12, 208 18, 067 3, 565	. 083 . 119 . 087 . 066	
February March April May June June July August September	350, 529 1, 000 112, 024 4, 724	600 10, 378 410	. 600 . 093 . 087	57, 295 412, 017 102, 771 206, 668 53, 656	34, 313 12, 208 18, 067 3, 565		

¹ Decrease in rate of duty effective Aug. 19, 1927.

Prices of cresylic acid, 97–99 per cent, pale, had an upward trend in the London market beginning April, 1927, and in the New York market, beginning May, 1927, from 40 and 60 cents per gallon, respectively, to 54 cents in London from September, 1927, through March, 1928, and 72 to 78 cents in New York from October, 1927, through December, 1928. New York prices remained constant at 65 cents per gallon for the first eight months of 1929. During April, May, and June, 1928, London prices increased to 59 cents per gallon, but in June gradually declined, sinking to 46 cents in August, 1929.

Prices of cresol, U. S. P., a refined grade of cresylic acid used for medicinal purposes, at New York were constant at \$1.52-\$1.74 per gallon from October, 1927, to March, 1928, inclusive, but in April dropped to \$1.22-\$1.48 per gallon, this price being maintained through August, 1928. Since then the price has remained constant at \$1.20 to \$1.46 per gallon.

The following table shows monthly price quotations of cresylic acid, 97-99 per cent, pale, in the London and New York markets, and of cresol, U. S. P., in the New York market, from January, 1926, to August, 1929.

Cresylic acid, 97-99 per cent pale: Prices per gallon at New York¹ and London,² January, 1926, to August, 1929

······································					
Month	19	26	19	27	
монен	London	New York	London	New York	
January	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$0. 60-\$0. 72 .6572 .6572 .6572 .6372 .6272 .6272 .5263 .6272 .5263 .6267 .5863 .6063	$\begin{array}{c} \$0.40-\$0.51\\ .4042\\ .4046\\ .4144\\ .4351\\ .46\\ .52\\ .52\\ .54\\ .54\\ .54\\ .54\end{array}$	\$0. 60-\$0. 63 60- 63 60- 63 65- 67 65- 67 65- 67 65- 66 65- 77 72- 77 72- 77 72- 74	
Month	19	28	19	29	
WOIGH	London	New York	London	New York	
January February. March April May	. 59 . 59	\$0. 72– \$0. 74 72–74 73–75 73–80 73–80 73–80 73–80 73–80	\$0. 47 . 47 . 47 . 47 . 47 . 47 . 47 . 46	\$0. 65-\$0. 78 .65	

December_____

September October November

¹ Oil, Paint, and Drug Reporter, New York.
 ² Chemistry and Industry, London, from January, 1926, to June, 1927; Chemical Trade Journal, from June, 1927, to August, 1929, inclusive. Prices from London Journal are "net and naked sellers' works."

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Cresol, U. S. P.: Prices at New York, January, 1926, to August, 1929

[Source: Oil, Paint, and Drug Reporter, New York]

Month	1926	1927	1928	1929
January February March April May June July July July July September October October November December	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \$1. 52-\$1. 74\\ 1. 52- 1$	\$1. 52-\$1. 74 1. 52- 1. 74 1. 52- 1. 74 1. 52- 1. 74 1. 22- 1. 48 1. 20- 1. 46 1. 20- 1. 46 1. 20- 1. 46	

(8) Phenol.—The President, by proclamation effective November 30, 1927, decreased the rate of duty on phenol from 7 cents per pound and 40 per cent ad valorem based on the American selling price to 3½ cents per pound and 20 per cent ad valorem based on the American selling price.

There has been a substantial increase in the domestic production and sales of phenol, and a decrease in price since 1921. The following table shows the production and sales of phenol in the United States from 1921 to 1928, inclusive.

Phenol, natural and synthetic: Production and sales in the United States, 1921-1928

Year	Produc-	Sal	Unit		
1 001	tion	Quantity	Value	value	
1921	Pounds 1, 285, 978 3, 310, 911 10, 521, 944 14, 734, 065 8, 691, 181 8, 041, 082 10, 227, 489	Pounds 292, 645 1, 266, 552 2, 180, 244 8, 273, 598 8, 524, 178 5, 479, 727 4, 595, 162 7, 745, 650	\$41, 617 268, 311 589, 822 2, 505, 533 1, 771, 332 987, 631 684, 160 912, 304	\$0, 14 . 21 . 27 . 30 . 21 . 18 . 15 . 12	

Under the tariff act of 1922 imports of phenol reached a maximum of 256,126 pounds in 1925 and decreased each following year until 1927, when 500 pounds were imported. During 1928 imports were 1,653 pounds.

The following table shows the monthly imports of phenol from January, 1927, to June, 1929.

Phenol: Imports for consumption, January, 1927, to June, 1929

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922: September 22, 1922, 7 cents per pound plus 55 per cent (based on American selling price); September 22, 1924, 7 cents per pound plus 40 per cent based on American selling price. Rate of duty changed by presidential proclamation to 3½ cents per pound plus 20 per cent (based on American selling price), effective November 30, 1927]

(1927				1928		1929		
\mathbf{Month}	Quan- tity	Value	Unit value	Quan- tity	Value	Unit value	Quan- tity	Value	Unit value
January	Pounds			Pounds			Pounds		
February March April May				500 	\$90	\$0. 180	400 286, 594 100, 267	\$72 26, 407 12, 111	\$0. 180 . 092 . 121
JuneJulyAugust				33 672	7 121	. 212 . 180	45, 005	5, 513	. 122
September October									
November December	500 (1)	\$100 (¹)	\$0. 200	448	80	. 179			
Total	500	100	. 200	1, 653	298	. 180			

¹ Decrease in rate of duty effective Nov. 30, 1927.

Prices of phenol in 1927, prior to the change in the rate of duty, tended to be irregular in both the London and New York markets. The London price was 14.2 cents per pound in January, 1927, decreased the next two months to 12.1 cents in March, then increased in the next two months to 17.2 cents in May, where it held through August. Since August, 1927, there has been a gradual decrease to 13 cents per pound in February, 1928, this quotation prevailing through April, 1929; since April, 1929, the price has ranged from 13 to 14 cents per pound. The domestic price fluctuated from 16 to

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18 cents per pound in 1927, but in August, 1928, reached a low of 12[%] cents per pound. For seven months thereafter a price of 13[%] cents per pound prevailed, followed by a price of 12[%] cents during the second quarter of 1929 and an advance to 14[%] cents per pound in August.

The following table gives monthly price quotations of phenol from January, 1927, to July, 1929, in the United States and in Great Britain.

Phenol: Prices per pound in the United States and in Great Britain. January, 1927, to August, 1929 1

	1927		19	28	1929	
Month	Great Britain	United States	Great Britain	United States	Great Britain	United States
January	\$0. 1416	\$0. 17	\$0. 15	\$0. 17	\$0. 13	\$0. 1314
February March	.1263 .1214	. 17 . 17	. 13 . 13	.17 .17	. 13 . 13	. 13¼ . 13¼
April	. 1265	. 17	. 13	. 17	. 13	. 1234
May	. 1720	. 16	. 13	. 17	. 14	. 1284
June	.1720 .1720	. 16 . 16	. 13 . 13	. 15 . 15	.13 .14	$.12\frac{3}{4}$ $.12\frac{3}{4}$
July August	. 1720	.10	. 13	.10 $.123/_{4}$. 14	. 12%
September	. 16	. 18	. 13	1314		
October	. 16	. 17	. 13	$.13\frac{1}{4}$		
November	. 16	².17	. 13	$13\frac{1}{4}$		
December	. 15	. 17	. 13	$.13\frac{1}{4}$		

¹ Prices in United States are for phenol U. S. P. in drums, taken from Oil, Paint, and Drug Reporter; English prices are for carbolic acid, crystallized 40°, taken from Chemistry and Industry, London, for 1927, and from Chemical Trade Journal for 1928 and 1929. The United States product designated "Phenol U. S. P." is comparable in quality with the British product known as carbolic acid crystallized 40°. ¹ Decrease in rate of duty effective Nov. 30, 1927.

(9) Barium carbonate.—The President, by proclamation effective April 25, 1928, increased the rate of duty on precipitated barium carbonate from 1 to $1\frac{1}{2}$ cents per pound.

Imports increased greatly in the two months preceding the change in the rate of duty, but in the first two months following the change, were negligible. Imports have since been at the rate of about 7,200,-000 pounds per year. The following table shows monthly imports of precipitated barium carbonate from January, 1927, to June, 1929.

Barium carbonate, precipitated: Imports for consumption, January, 1927, to June, 1929

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922, 1 cent per pound. Rate of duty changed by presidential proclamation to 1½ cents per pound, effective April 25, 1928]

		1927			1928		1929			
Month	Quantity	Value	Unit value	Quantity	Value	Unit value	Quantity	Value	Unit value	
	Pounds			Pounds			Pounds			
January	804, 125	\$10, 381	\$0.013	684, 391	\$9, 769	\$0.014	857,672	\$10,977	\$0.013	
February	891, 902	10, 750	. 012	966, 347	10, 550	. 011	382,994	4, 089	. 011	
March	1, 120, 152	13, 639	. 012	1, 114, 668	11,607	. 010	92, 593	973	. 011	
April	462, 272	5, 316	. 011	4, 412, 816	49,728	. 011	892, 387	9,702	. 011	
May	953, 446	11, 431	. 012	1 57, 119	667	. 012	876,066	9, 229	. 011	
June	1, 153, 722	14, 427	. 013			 -	664, 628	7, 227	. 011	
July	462,040	5, 577	. 012	595, 392	6, 206	. 010				
August	111, 728	1, 459	. 013	485, 822	5, 119	.011				
September	825,746	9, 589	. 012	611, 627	6,451	. 011				
October	1, 147, 056	14, 312	. 012	110, 230	1, 170	. 011				
November	1,010,127	11, 559	. 011	908, 796	9,621	. 011				
December	893, 872	10, 574	. 012	496, 235	5, 353	. 011				
Total	9, 836, 188	119,014	. 012	10, 443, 443	116, 241	. 011				

¹ Increase in rate of duty effective Apr. 25, 1928.

Both imported and domestic barium carbonate, quoted at \$47.50 to \$55 per ton for two months prior to the change in duty, increased approximately \$10 per ton following the change and remained at that level through March, 1929, since when a price of \$58 has been maintained. This \$10 per ton increase in price is equal to the increase in duty.

Barium carbonate, precipitated: Prices per ton of imported and domestic, New York market, January, 1927, to August, 1929 ¹

1927			19	928	1929			
Month	Domestic	Imported	Domestic	Imported	Domestic	Imported		
January February March April May June July August September October December	50.00- 52.00 50.00- 52.00 50.00- 52.00	\$48. 00-\$50. 00 48. 00- 50. 00 52. 00- 53. 00 52. 00- 53. 00 52. 00- 53. 00 52. 00- 53. 00	\$48. 00-\$50. 00 48. 00- 50. 00 47. 75- 55. 00 47. 75- 60. 00 57. 50- 60. 00 57. 00- 60. 00 57. 50- 60. 00	\$48. 00-\$50. 00 48. 00- 50. 00 47. 75- 55. 00 47. 50- 55. 00 57. 50- 60. 00 57. 00- 60. 00 57. 00- 60. 00 57. 00- 60. 00 60. 00- 68. 50 60. 00- 68. 50 60. 00- 68. 50 57. 50- 60. 00 57. 50- 60. 00	\$57. 50-\$60. 00 57. 50- 60. 00 57. 50- 60. 00 58. 00- 60. 00			

¹ Oil, Paint, and Drug Reporter, New York. ¹Increase in rate of duty effective Apr. 25, 1928.

(10) Sodium silicofluoride.—The President's proclamation increasing the rate of duty on sodium silicofluoride from 25 per cent ad valorem based on the foreign value to 25 per cent on the basis of the American selling price became effective September 15, 1928. Imports of sodium silicofluoride have increased each year, advancing from 1,943,794 pounds in 1924 to 3,585,935 pounds in 1928, and have been at the annual rate of 4,600,000 pounds during the first six months of 1929.

The following table shows monthly imports of sodium silicofluoride in 1928 and 1929 (six months).

Sodium silicofluoride: Imports for consumption, January, 1928, to June, 1929

		1928		1929 (6 months)			
Month	Quantity	Value	Unit value	Quantity	Value	Unit value	
January. February March A pril May June July August. September 1 October November December	264, 533 223, 661 298, 826 169, 867 234, 185	\$4, 149 17, 749 7, 123 6, 441 8, 128 4, 725 6, 479 6, 669 4, 378 46, 509 2, 802 10, 136	\$0. 023 . 027 . 029 . 028 . 028 . 028 . 030 . 030 . 030 . 053 . 046		\$6, 726 21, 660 12, 754 17, 863 39, 073 21, 886	\$0. 051 . 052 . 053 . 053 . 052 . 052	
Total	3, 585, 935	125, 288	. 035	2, 319, 936	119, 962		

[Source: Foreign Commerce and Navigation of the United States]

¹Increased rate of duty, effective Sept. 15, 1928, after which date all values shown are on the basis of American selling price.

Prices of sodium silicofluoride remained at $4\frac{1}{2}$ cents per pound during the first six months of 1928, but declined to $4\frac{3}{6}$ cents during the next three months. After the increase in the rate of duty, the price advanced to 5 cents per pound, which was maintained through May, 1929, when a further advance of one-fourth cent took place.

The following table shows monthly price quotations of sodium silicofluoride for 1928 and 1929 (eight months).

Sodium silicofluoride: Prices (domestic) per pound, New York market, January, 1928, to January, 1929

Month	1928	1929 (8 months)	Month	1928	1929 (8 months)
January February March April May June	\$0. 041 . 041	.05	July	\$0. 043 . 043 1. 043 2. 05 . 05 . 05 . 05	\$0. 05¼ . 05¼

[Source: Oil, Paint, and Drug Reporter]

¹ Increased duty effective Sept. 15, 1928.

(11) Potassium permanganate.—Imports of potassium permanganate increased each year from 88,662 pounds in 1925 to 600,974 pounds in 1928. The President, by proclamation effective December 16, 1928, increased the rate of duty from 4 cents to 6 cents per pound. During the first 11 months of 1928 imports amounted to 435,629 pounds, and in the last month to 165,345 pounds. In January, 1929, 1,102 pounds were entered, the only imports reported up to July.

The following table shows imports of potassium permanganate during 1928 and 1929 (6 months).

Potassium permanganate: Imports for consumption, January, 1928, to January, 1929

[Source: Foreign Commerce and Navigation of the United States]

[Rate of duty under act of 1922, 4 cents per pound. Rate of duty changed by presidential proclamation to 6 cents per pound, December 16, 1928]

		1928		1929 (6 months)			
Month	Pounds	Foreign value	Unit for- eign value	Pounds	For eign value	Unit for- eign value	
January February March A pril May June June	16, 537 79, 903 29, 211 29, 983 54, 462 40, 895 62, 281	\$1, 547 6, 887 2, 691 2, 687 4, 715 3, 347 5, 547	\$0.094 .086 .092 .090 .087 .082 .089	1, 102	\$101	\$0. 092	
August September October November December ¹	76, 501 22, 156 23, 700 165, 345	2, 254 2, 104	.092 .095 .095 .095				
Total	600, 974	54, 259	. 093	1, 102	101	. 092	

¹ Increase in rate of duty effective Dec. 16, 1928.

Potassium permanganate was quoted at 15¼ cents per pound during the first five months of 1928 and at 15 cents during the last seven months. In January, 1929, following the increase in the rate of duty, the price increased to 16 cents per pound, and remained at that figure through August.

Potassium permanganate: U. S. P. price per pound, New York spot market, January, 1928, to August, 1929

Month	1928	1929	Month	1928	1929
January February March April May June	\$0.1525-\$0.1550 .15251550 .15251550 .15251550 .15251550 .15251550 .15001525	\$0.16-\$0.1650 .161650 .161650 .161650 .161650 .161650	July August September October November December 1	\$0.1500-\$0.1525 .15001525 .15001525 .15001525 .15001525 .15001525 .15001525	\$0. 16-\$0. 1650 . 16 17

[Source: Chemical Markets]

¹ Increase in rate of duty effective Dec. 16, 1928.

(12) Linseed oil.—The President, by proclamation effective July 25, 1929, increased the rate of duty on linseed oil from 3.3 cents per pound to 3.7 cents per pound. Prior to this date he had proclaimed an increase in the rate of duty on flaxseed, the raw material for linseed oil, from 40 cents to 56 cents per bushel, effective June 13, 1929. Too short a time has elapsed for any definite trend to be noted in the imports following the change in the rate of duty. A considerable rise in the price of linseed oil has occurred since the change in July, 1929. During the first six months of 1929 prices varied from 9.3 cents to 9.5 cents per pound. In July, following the increase in the rate of duty on flaxseed, the price of linseed oil advanced to 9.9 cents per pound and in October to 15.1 cents. Reports of short crops of flaxseed in the United States and other important producing countries have resulted in an increase in the price of linseed oil many times the amount of the increase in the duty.

SCHEDULE 2. EARTHS, EARTHENWARE, AND GLASSWARE

(a) GENERAL STATEMENT

The commodities assigned to the ceramics division include all products in Schedule 2 of the tariff act of 1922, except some types of refractory brick, carbon, mica, incandescent electric lamps, and certain mineral substances used largely by industries other than those engaged in the manufacture of pottery and glass. The division also deals with common building brick, cement, marble and other stone, stained glass windows, thermostatic bottles, and a number of other commodities specified in the sundries schedule, and in the free list.

Subsequent to October, 1928, the division has been engaged almost wholly in work connected with the pending readjustment of the tariff. Such work required in the first instance the preparation of a summary of tariff information relating to all commodities assigned to the division in Schedule 2, in the sundries schedule, and in the free list. A large proportion of the data contained in this summary was compiled from information in the files of the division, but for a number of commodities field work had to be undertaken.

During much of the year 1929, the staff was engaged in assisting the subcommittee of the Committee on Ways and Means in charge of Schedule 2 in analyzing and summarizing the information obtained

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at the hearings, and, in conjunction with the House legislative counsel and the legal division of the Tariff Commission in drafting changes in the phraseology of various paragraphs of Schedule 2.

A number of special reports relating to specific commodities, and containing information in addition to that given in the Summary of Tariff Information, 1929, together with numerous statistical tabulations, were prepared for the use of members of the Committee on Ways and Means. Subsequently, the time of the staff was largely taken up in the preparation of similar data for the use of the Finance Committee of the Senate, and in conferences with members of that committee.

Other activities of the division included field work in the investigations instituted by the commission with respect to blown-glass tableware and china clay or kaolin, assisting in the preparation of a report to the President summarizing the data obtained in the window glass investigation, and special studies of Portland cement, common clay building brick, and gauge glasses.

(b) STUDIES AND SURVEYS

Roman, Portland, and other hydraulic cement.—Cement is conditionally free of duty under the tariff act of 1922, but if any country imposes a duty on cement imported from the United States an equal duty is imposed upon imports from that country to the United States. Prior to the war Germany was the only important source of domestic imports of Portland and other hydraulic cements. In some years imports from all countries amounted to from two and one-half to three million barrels, but rapidly declined after 1907. Imports in considerable volume were not resumed until 1923, when 1,678,500 barrels were entered, approximately 54 per cent being subject to duty. In 1926, however, 3,232,390 barrels were imported, 93 per cent of the total being free of duty. Imports subsequently declined in quantity, and in 1928 amounted to 2,286,170 barrels, 95 per cent being free of duty. For the three-year period 1926–1928, over 74 per cent of all imports came from Belgium.

Portland cement is the principal form of hydraulic cement now produced in the United States. Portland cement is an important material in building and road construction. The tremendous expansion of the domestic industry in comparatively recent years is largely due to the greatly increased building and road construction activities in this country, as well as to the nation-wide promotion work and advertising campaigns carried on by domestic producers. In 1920, 117 plants reported production amounting to about 100,-000,000 barrels, and in 1928, 158 plants in 32 States reported production of 175,970,000 barrels. In 1928 Pennsylvania, with 27 mills, was the largest producing State; Michigan, with 16 mills, was second; California, with 12 mills, was third; and New York, with 11 mills, was fourth.

By reason of the comparatively low unit value of Portland cement and its proportionately high transportation cost, the price of the domestic product at most competitive marketing points is largely determined by the mill nearest to the specific market. The producer disadvantageously located with respect to large markets must absorb the difference between his transportation cost from mill and that of his competitor nearest to that market. The comparatively high transportation costs in this country practically preclude the movement in quantity of imported cement to points distant from the seaboard, and the domestic mills most affected by competition from the foreign cement are those which ordinarily supply seaboard markets. Domestic mills in various sections which usually supply the seaboard markets are often disadvantageously located with respect to these markets, and their transportation costs are relatively high.

In 1928 the average transportation costs and other charges to the principal ports of entry in the United States for about 70 per cent of the Belgian cement imported at these ports was less than the average transportation cost for domestic cement shipped to the same points.

In recent years imports have been concentrated largely at the following points: Boston, Mass.; New York City; Philadelphia, Pa.; Wilmington, N. C.; Charleston, S. C.; Houston, Tex.; Portland Oreg.; and Porto Rico. The total 1928 shipments of domestic cement to all continental American seaboard markets amounted to approximately 25,000,000 barrels, as compared with total imports in that year (not including 355,000 barrels imported into Hawaii and Porto Rico) amounting to 1,931,000 barrels. The 1928 imports were equivalent, therefore, to 8 per cent of the domestic shipments to, or about 7 per cent of the total consumption at, such points.

During the year the commission obtained through correspondence data with respect to the 1927 costs of production of Portland cement for more than 100 domestic mills. These data have not been verified by the commission by examination and analysis of the records at the plants submitting information. No data have been obtained at foreign plants regarding their costs of producing cement, but as evidence of such costs the average value of the foreign product has been obtained through analyses of the invoice prices of 1928 imports.

The data obtained from domestic producers were tabulated and summarized and weighted average costs were computed by producing districts. As far as was practicable, the mills have been grouped in geographical districts in accordance with the areas they ordinarily supply. Of a total of 12 districts, 6 are designated seaboard and 6 are designated interior districts. These 12 districts and their calculated costs of production, including imputed interest, packing, shipping, and selling expenses, but not including transportation costs, are as follows:

Cost of production, per barrel, including imputed interest, packing, shipping, and selling expenses

SEABOARD DISTRICTS

n
1
_ 1.42
d
1.49
_ 1.45
_ 1.66
_ 1.87
10

⁴ The costs for the 2 mills in Montana, ordinarily included in the Washington-Oregon district, are not included in the costs for that district.

Cost of production, per barrel, including imputed interest, packing, shipping, and selling expenses—Continued

INTERIOR DISTRICTS

7.	Comprising mills in western Pennsylvania, Ohio, and West Virginia	\$1. 59
8.	Michigan	1.57
9.	Comprising mills in Wisconsin, Illinois, Indiana, and Kentucky	1.42
10.	Minnesota, Iowa, and eastern Missouri	1.52
11.	Nebraska, Kansas, Oklahoma, and western Missouri	1.44
12.	Utah and Colorado	1.66

The mills in the six seaboard districts are the only ones largely affected by competition from foreign cement. The following table shows for each of the six districts adjacent to the seaboard the 1927 weighted average cost of production, including imputed interest, together with the weighted average costs for packing and shipping cement sold, and in addition, selling expense. Similar data are also shown for the six districts combined. The weighted average costs of production, including imputed interest, but not including packing costs, shipping expenses, and selling expenses, were calculated upon the basis of the cement produced. Packing costs, shipping expenses, and selling expenses were computed upon the basis of the cement sold, because of the disparity between the amount of cement produced and the amount sold and because it was not possible to separate packing costs and shipping expenses. Packing expenses include the labor cost for packing the cement, proportional departmental expenses, and the net average loss on bags used during the cost period. The charge for bags, 40 cents per barrel, is not included because the domestic producers, as well as the foreign, make allowances for bags returned to the mill. Imputed interest was computed at the rate of 6 per cent upon the value of depreciated fixed assets and of inventories.

Portland cement: Weighted average costs of production, imputed interest, packing and shipping expense, and selling expense for each domestic seaboard producing district, and for the six districts combined, for 1927

	District								
	1	2	3	4	5	6	A verage, 6 dis- tricts		
Raw materials Fuel Manufacturing labor Power and other manufacturing ex- pense	\$0. 1587 . 2680 . 1627 . 3039	\$0. 2037 . 2317 . 1601 . 2317	\$0. 1698 . 2054 . 1730 . 2348	\$0. 1318 . 3662 . 1238 . 2218	\$0. 2112 . 3074 . 1677 . 3024	\$0. 3849 . 3440 . 1364 . 2216	\$0. 1962 . 2536 . 1601 . 2477		
General and administrative expense Total cost of production, un- packed, not including interest.	. 2268	. 1737	. 2438	. 2255	. 2396 1. 2283	. 2046 1. 2915	1. 0613		
Imputed interest Total cost of production, includ- ing Imputed interest Packing and shipping expense	. 2127 1. 3328 . 1180	. 1468 1. 1477 . 0976	. 1930 1. 2198 . 0957	. 1474 1. 2165 . 0772	1929 1. 4212 . 0951	. 3001 1. 5916 . 0796	. 1734 1. 2347 . 0973		
Total cost of production, includ- ing imputed interest, packing, and shipping expense	1. 4508 . 1520	1, 2453 , 1705	1. 3155 . 1722	1. 2937 . 1548	1. 5163	1. 6712	1. 3320		
Total cost of production, inclua- ing imputed interest, packing, shipping, and selling expense	1. 6028	1. 4158	1. 4877	1. 4485	1. 6570	1. 7901	1. 4938		

[Per barrel] 1

¹ Costs include calculated net average loss on bags used during cost period. They do not include the charge to dealers of 40 cents for bags per barrel.

The average costs to the importer of cement from Belgium (the principal competing country), c. i. f. ports of importation, were obtained from invoices for the year 1928. The invoice values include a charge of 40 cents for 4 cloth bags per barrel. The same charge for bags is made by the domestic mills. The following table affords a comparison of the domestic costs of production, including imputed interest, packing, shipping, and selling expenses, with the cost to the importer of Belgian cement c. i. f. important competitive points on the Atlantic seaboard. Selling expense, if any, of importers is not The specific charge for bags, amounting to 40 cents per included. barrel, is not included in domestic costs or in the value of the imported The domestic costs, including transportation to specific cement. markets, are for the districts which ordinarily ship to such markets. The imports at the points shown in the table represent approximately 76 per cent of all imports through continental American ports.

Portland cement: Comparison of 1927 domestic costs of production, including imputed interest, packing, shipping, and selling expense, but not including charge for bags, with 1928 cost to importer of Belgian cement (not including charge for bags) c. i. f. American Atlantic ports

		Domestic					
Market	Producing district	Cost of produc- tion, in- cluding imputed interest, packing, shipping, and sell- ing ex- pense	Trans- porta- tion costs from pro- ducing district to indi- cated markets	Total, includ- ing trans- porta- tion to indicated markets	Total cost to import- er, c. i. f., to indi- cated markets	Spread (differ- ence be- tween do- mestic costs and costs to import- ers)	
Boston, Mass Do New York City Philadelphia, Pa Wilmington, N. C Charleston, S. C	(1) New York (2) Lehigh (1) New York (2) Lehigh 	\$1. 60 1. 42 1. 60 1. 42 1. 42 1. 42 1. 49 1. 49	\$0. 62 . 72 . 42 1 . 38 . 46 . 69 . 73	\$2. 22 2. 14 2. 02 1. 80 1. 88 2. 18 2. 22	\$1.45 1.45 1.50 1.50 1.50 1.35 1.35	\$0. 77 69 . 52 . 30 . 38 . 83 . 83	

[Per barrel of 4 bags (380 pounds gross weight)	[Per	barrel	of 4	bags	(380	pounds	gross	weight)
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¹ If shipped via Jersey City and barge to New York City, the transportation cost is 46 cents per barrel.

Common building brick.—Brick "not specially provided for" are conditionally free of duty under the tariff act of 1922, but if any country imposes a duty upon them when imported from the United States an equal duty is imposed upon imports of such brick from that country to the United States. In recent years 95 per cent or more of the imports of brick not specially provided for, practically all common building brick, have been entered free of duty; and 80 per cent or more of the imports have come from Belgium. About 98 per cent of all imports of such brick are entered at the port of New York and sold in the metropolitan area, where they compete almost wholly with the American brick made in the Hudson River district of New York.

The following table shows the imports of brick not specially provided for, compared with the production of common clay building brick in the Hudson River district for specified years.

Year	Production in the Hud- son River district	Imports of bricks n. s. p. f.
1923	Thousand 899, 835 978, 554 996, 731 1, 275, 831 1, 235, 364 (¹)	Thousand 81, 080 68, 129 54, 081 116, 294 96, 198 79, 512

¹ Not available.

The average of the imports for 1926 and 1927 was equivalent in quantity to approximately 8 per cent of the brick produced in the Hudson River district in that period. Imports have declined in quantity since 1926.

The production in 1927 of common building brick in the Hudson River district was a decrease of 3.12 per cent in quantity and 19.2 per cent in value from that of 1926. The value of production in this district in 1926 and 1927 was \$17,206,237 and \$13,904,649, respectively. The number of establishments manufacturing common brick in this district decreased from 75 in 1926 to 68 in 1927, but the average number of wage earners employed, as reported by the Census of Manufactures, increased from 4,533 in 1925 to 5,095 in 1927.

Common building brick are manufactured in every State in the Union. With few possible exceptions, such brick are used largely in construction within a comparatively short distance from the plant.

The following table shows the total domestic production of common clay building brick for specified years.

Year	Quantity	Value
1923	Thousand 7, 296, 901 7, 158, 714 7, 561, 501 7, 517, 211 7, 002, 714 6, 220, 429	\$94, 213, 979 86, 691, 550 88, 551, 400 88, 226, 625 77, 851, 145 67, 571, 210

¹ Preliminary figures.

The total number of establishments primarily engaged in manufacturing common building brick decreased from 925 in 1925 to 807 in 1927. During the same period the number of wage earners employed in these plants decreased from 29,524 to 26,480.

Because the clay in the Hudson River district and that in Belgium differ in plasticity and binding qualities, different processes are used in making domestic and imported brick. The soft-mud process is used in the Hudson River district and the stiff-mud process in Belgium. The average daily production per man by the machines used in forming the bricks by the soft-mud process is less than onehalf that by the stiff-mud process. According to figures obtained by the Bureau of Labor Statistics at a number of common-brick plants in the United States in 1922, the labor cost per thousand bricks made by the soft-mud process was 56 per cent greater than for those made by the stiff-mud process.

Prices in 1928 for Belgian common brick f. o. b. plant were \$4 to \$4.30 per thousand. By far the larger percentage of the Belgian brick exported to the United States in 1928 was priced at the latter figure. Transportation and other charges on such brick from Belgian plant to alongside dock, Brooklyn, N. Y., as obtained from consular invoices, ranged from approximately \$6.50 to \$7 per thousand. This gives a total cost to the importer alongside dock at Brooklyn of \$10.50 to \$11.30 per thousand, the greater number of the shipments being imported at the latter figure. These figures include the Belgian manufacturer's profit, but do not include an unloading charge of about \$1.25 per thousand paid by the importer.

The selling price of the Hudson River brick alongside dock to dealers, Brooklyn, N. Y., declined from \$17 per thousand in January, 1927, to \$12 per thousand in the latter part of 1928.

(c) Investigations Under the General Powers of the Commission \cdot

Kaolin or china clay.—On April 20, 1928, the commission, under its general powers, instituted an investigation of kaolin or china clay. This commodity had previously been the subject of an application filed with the commission on October 29, 1924, by domestic producers requesting an investigation for the purposes of section 315 of the tariff act of 1922.

Although there are enormous reserves of kaolin in the United States, prior to the war imports of china clay or kaolin, practically all from England, greatly exceeded production of the similar domestic product. In some years immediately preceding the war imports were more than twice the domestic production. During the war imports were somewhat curtailed and domestic consumers found it necessary to use an increasing quantity of domestic china clay. The greater demand for kaolin in comparatively recent years by various industries in the United States led to a considerable expansion of the domestic clay industry and to greatly increased imports as compared with pre-war buying abroad. The greater demand for the domestic product is largely accounted for by the fact that the domestic producers, after considerable expenditure of capital for new plant equipment, have greatly improved the quality of their product. In 1926, 1927, and 1928 the domestic production of kaolin or china clay for all uses exceeded imports of this commodity.

The following table shows for purposes of comparison the trend of domestic production and of imports of china clay or kaolin for the period 1914–1928. Approximately 25 per cent of the domestic production consists of relatively low-priced clays having certain characteristics which make them an economical material for specific uses. About 85,000 tons of such clays are used annually in the manufacture of cement and refractories and about 35,000 tons in the rubber and paint industries. Little, if any, of the imported clay is used in the manufacture of these products.

		aolin or china n the United S		Imports of china clay			
Year	Quantity	Value	A verage price per ton	Quantity 1	Value	A verage foreign price per ton	
1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928	$\begin{array}{c} 201,157\\ 206,334\\ 179,694\\ 152,828\\ 268,203\\ 162,726\\ 275,675\\ 336,803\\ 326,611\\ 362,319 \end{array}$	\$843, 151. 00 781, 142.00 1, 075, 730.00 1, 263, 799.00 1, 475, 681.00 2, 865, 407.00 1, 579, 163.00 2, 926, 407.00 2, 346, 095.00 2, 926, 255.00 3, 220, 719.00 3, 220, 719.00 3, 220, 348.00 4, 088, 003.00	\$5.60 5.54 5.35 6.12 9.61 9.70 8.51 8.69 8.95 8.95 8.77 8.73 8.39 8.39 8.39 8.39 8.39 8.39 8.39 8.3	Short tons 328, 038 209, 132 253, 707 241, 029 168, 100 180, 592 361, 831 162, 906 310, 137 312, 297 353, 124 372, 552 396, 219 339, 014 307, 303	\$1, 927, 425.00 1, 152, 778.00 1, 326, 684.00 1, 315, 769.00 1, 965, 333.00 3, 568, 677.00 1, 546, 285.00 2, 963, 420.00 3, 046, 191.00 3, 195, 694.00 3, 195, 694.00 3, 484, 054.00 2, 937, 113.00 2, 962, 269.00	\$5, 88 5, 51 5, 22 5, 46 6, 86 9, 88 9, 86 9, 49 9, 56 9, 75 9, 03 8, 58 8, 79 8, 66 9, 64	

Comparison of domestic china clay or kaolin sold in the United States with imports of this commodity, 1914–1928

¹ Quantity reported in long tons converted into short tons to facilitate comparisons. ² Preliminary.

The comparability of foreign and domestic kaolins for various uses has been a controversial question of long standing. Domestic paper clays have been greatly improved in quality in recent years, mainly through better purifying and blending methods. They now serve purposes for which they were once considered unsuited. Although domestic clays possess some inherent and unalterable characteristics, they nevertheless can by chemical treatment and washing be so improved that they may to a degree be substituted for the English material. Up to within a few years ago, no domestic papercoating clay was on the market and the possibility of producing one was given little thought. In 1928 over 20,000 tons of refined do-mestic coating clay were used in paper manufacture. The annual imports of English coating clays amount to approximately 80,000 tons. At the present time, however, a large number of the manufacturers of high-grade book and magazine paper claim that the better grades of English coating clays are a necessary material for the manufacture of their high-grade products. Assuming that all imports consist of clays comparable to or competitive with the various grades of domestic clay (other than those used in the cement, refractory, rubber, and paint industries), the approximate consumption in the United States in 1927 of competitive china clays or kaolins consisted of about 325,000 tons of the domestic product and 339,000 tons of the imported product.

The following table shows the quantity and value of kaolin sold by producers located in the four principal producing States for specified years.

34-4-	1925		19	26	1927		
State	Quantity	Value	Quantity	Value	Quantity	Value	
Georgia South Carolina Florida North Carolina	Short tons 141, 956 52, 937 53, 009 18, 799	\$1, 040, 064 541, 222 711, 567 309, 833	Short tons 175, 230 60, 404 56, 344 20, 719	\$1, 357, 923 592, 262 772, 124 531, 487	Short tons 193, 151 78, 401 47, 319 20, 334	\$1, 492, 857 666, 269 646, 415 327, 638	

It is estimated that approximately 60 per cent of the total china clay consumed in the United States is used in the manufacture of paper. In this industry it is used either as a filling clay or as a coating clay; the quantity consumed for filling greatly exceeds that for coating. Coating clays are of much higher grade—whiter in color and finer in texture—than filler clays, and always command a much higher price.

Almost all the domestic production of paper clays comes from Georgia and South Carolina. These States also produce pottery clays and clays used as a filler in the rubber, oilcloth, linoleum, and paint industries, but by far the larger portion of the output is consumed in the paper industry. Clay of the paper-filler grade constitutes the bulk of the output in these two States, and it is this particular grade that encounters the keenest competition with the foreign product.

The average domestic paper-filler clay sells for \$8 per short ton f. o. b. mines Georgia or South Carolina. A comparable grade of English common filler clay was sold to domestic importers in 1928 at 32½ shillings (\$7.90) per long ton f. o. b. Fowey, England, the principal port of shipment. This is equivalent to \$7.05 per short ton and includes an inland freight charge of approximately \$1.20. Practically all producers are members of the "Associated China Clays, Limited," an association of English china clay producers organized to fix prices, maintain clay standards, allocate production, and to control shipments to the various markets. This association, which was dissolved in September, 1924, was reorganized January 1, 1928. Almost immediately after the dissolution of the association, in 1924, prices of less expensive grades declined sharply, some grades falling as much as 331/3 per cent below the former prices. Subsequent to the reorganization in 1928 prices for common grades rose to approximately the level prevailing in the early part of 1924 before the association was dissolved.

The total landed cost to an importer of one grade of common filler clay in 1928 was approximately as follows:

	F. o. b. English mine	Inland freight	F. o. b. Fowey	Ocean freight	Marine insurance and entry fee		Duty	Total cost
Long-ton basis Short-ton basis	278. \$6.56 5.85	5s, 6d. \$1.34 1.20	32s. 6d. \$7. 90 7. 05	14s. \$3. 40 3. 04	\$0.10 .09	\$11.40 10.18	\$2, 50 2, 23	\$13.90 12.41

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The average 1928 selling price of the above English paper-filler clay f. o. b. American port of importation was \$13.12 per short ton. The following table affords a comparison between prices of comparable domestic and English paper-filler clay delivered at important consuming points in the United States in 1928.

Comparison between prices of domestic and English paper-filler clay, delivered, at important consuming points in the United States in 1928

[Per short ton]

		English		Domestic			
Place of delivery		per short t orth Atlan					
Fizce of derivery	Price f. o. b. cars, port of entry	Trans- portation cost	Delivered price	Price f. o. b. cars, mine	r short tor mines in G portation cost from Georgia mine \$7.92 9.25 9.14 5.40 6.80 5.59 8.28 6.62 4.58 5.30	Delivered price	
Lawrence, Mass	\$13.12	\$1.90	\$15.02 15.62	\$8.00 8.00		\$15.92	
West Fitchburg, Mass Lisbon Falls, Me	13.12 13.12	2.50 1.60	15. 62	8.00		15.92 17.25	
Rumford, Me		2, 50	15.62	8,00		17.14	
Providence, Md	13.12	2,03	15.15	8,00		13.40	
Johnsonburg, Pa	13, 12	3.40	16.52	8.00	6.80	14.80	
Piedmont, W. Va.	13.12	3.70	16.82	8.00		13, 59	
Glen Fails, N. Y	13.12	4.10	17.22	8.00		16.28	
Niagara Falls, N. Y	13.12	3.60	16.72	8.00		14.62	
Hamilton, Ohio	13.12	5.10	18.22	8.00		12.58	
Chillicothe, Ohio	13.12	4.70	17.82	8.00		13.30	
Kalamazoo, Mich Kimberly, Wis	$13.12 \\ 13.12$	5.50 7.70	18.62 20.82	8.00 8.00	6.14 7.90	14. 14 15. 90	

As indicated by the above table, transportation is a very important factor in the competition between foreign and domestic clays. In the New England district, where a large proportion of the paper mills are located, Georgia paper clays are for the most part at a price disadvantage in competition with the foreign product. This district uses about 30 per cent of all kaolin used by the paper industry. The combined rail and ocean freight charges on English clay from mines to many large consuming points in this district are considerably less than the domestic rail charge from southern mines. For example, the combined freight charge on English clay from mine to Rumford, Me., is \$6.75 per short ton as compared with \$9.14 on the domestic product from Georgia to Rumford.

The next largest use of china clay or kaolin is in the manufacture of pottery. The pottery mix usually consists of feldspar, flint, and several grades of clay.

North Carolina and Florida are the two principal States producing pottery kaolins. Practically none of the kaolin produced in these two States is used for any purpose except in the manufacture of pottery.

Freight rates from mines in these two States to consuming points also figure largely in price competition with the foreign product.

The following table shows a comparison between delivered prices of domestic and English pottery clays at important consuming points in the United States in 1928.

	North Carolina, at \$16- \$16.50 per short ton f. o. b. cars, mine		Florida, at \$13-\$13.75 per short ton f. o. b. cars, mine		English, at \$17.86 per short ton f. o. b. cars, North At- lantic ports	
	Trans- portation cost from mine	Delivered price	Trans- portation cost from mine	Delivered price	Trans- portation cost in United States	Delivered price
Zanesville, Ohio East Liverpool, Ohio Beaver Falls, Pa Trenton, N. J	\$6, 01 6, 73 6, 73 6, 01	\$22. 01-\$22. 51 22. 73- 23. 23 22. 73- 23. 23 22. 01- 22. 51	\$9.00 9.49 9.49 8.76	\$22. 00-\$22. 75 22. 49- 23. 24 22. 49- 23. 24 21. 76- 22. 51	\$4. 20 3. 40 3. 40 1. 80	\$22.06 21.26 21.26 19.66

Comparison between prices of domestic and English pottery clays delivered at important consuming points in the United States in 1928 [Per short ton]

The extent to which domestic pottery clays may be further substituted for English clays depends largely on how far the objections to the use of the southern kaolins can be overcome. English clays have a certain prestige, acquired through years of satisfactory use, and domestic users are slow to make a change. However, scientific research has in recent years demonstrated to the domestic manufacturer the fact that American kaolins are satisfactory for many types Quite a number of domestic potteries, which before of white ware. the war used large quantities of English china clay, have found that domestic kaolins, properly blended, are as suitable for their use as the English product. A large number of domestic potters use both domestic and imported kaolin.

English deposits of china clay are very extensive, the clay beds

being frequently worked at depths exceeding 200 feet. In contrast, domestic deposits seldom exceed 25 feet in thickness and have equally as much or more overburden to be removed. The loose texture of English clays permits the use of hydraulic mining with a resultant low labor cost. Domestic kaolins, being hard and dense, must as a rule be hand sorted at the pit and subsequently disintegrated by special machinery. The costs of the domestic mining operations are correspondingly higher than those of the English. Because of the texture of the domestic kaolins, the removal of the water used in washing requires the use of more expensive dewatering equipment in the domestic plants than is used in the English plants.

The commission under its general powers has obtained for the year 1927 data from the records of domestic producers with respect to costs of production of china clay or kaolin. Data were obtained from 5 companies operating 10 plants in Georgia, 5 companies operating 5 plants in South Carolina, and 1 plant in Georgia adjacent to the South Carolina producing area, 2 companies operating 3 plants in Florida, and 2 companies operating 6 plants in North Carolina.

The china clay produced in Georgia and South Carolina consists for the most part of the grades of clay used as a filler in the manufacture of paper.

The following table shows the weighted average costs of production of paper-filler clays f. o. b. plants in Georgia and in South Carolina, together with the weighted average costs for the two States combined.

These figures are tentative and have not been approved by the commission.

By reason of the fact that cost data were obtained from two companies only in Florida and two in North Carolina, the costs for these States can not be shown because of the possibility of disclosing confidential information. The combined costs for Florida and North Carolina are not given because the clays mined in these States are not comparable and the cost of production and the average selling price for the Florida clay differ considerably from the cost and selling price of the North Carolina clay.

China clay or kaolin: Weighted average cost of production of grades used as a filler 1 in the paper industry, for Georgia and South Carolina, for 1927

	Georgia	South Carolina	Georgia and South Carolina combined
Total productiontons	86, 802. 59	43, 431, 91	130, 234. 50
Total salesdo	82, 945. 36	44, 251, 00	127, 196. 36
Production expense	Per ton	Per ton	Per ton
	\$4.9687	\$5.0949	\$5. 0108
	.7146	1.2782	. 9026
	.3741	.3963	. 3815
Total production cost	6. 0574	6. 7694	6. 2949
Imputed interest	. 2609	1. 0565	. 5262
Total production cost, including imputed interest	6. 3183	7.8259	6. 8211
Selling expense	. 8098	1.0723	. 9011
Total production cost, including imputed interest and selling expense	7. 1281	8. 8982	7. 7222

¹ Costs weighted on basis of production, allocated to use, through analysis of sales distribution.

No data have been obtained from the records of producers in England with respect to the costs of production of china clay or kaolin in that country. Invoice prices and delivered cost to importers for an important grade of filler china clay and for an important grade of pottery china clay have been given under the price section for kaolin.

(d) Investigations for the Purposes of Section 315 of the Tariff Act of 1922

Granite.—On July 24, 1925, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the costs of production of unmanufactured granite and of granite hewn, dressed, polished, or otherwise manufactured, suitable for use as monumental or building stone. The investigation was confined to unmanufactured and manufactured monumental granite because it was developed by the investigation and the public hearings that there was no tariff problem with respect to granite used for building purposes.

Unmanufactured monumental granite.—The following table shows domestic production and imports of unmanufactured monumental granite for specified years. By far the largest proportion of the imports of rough monumental granite comes from Sweden.

	Domestic production			Imports		
Year	Quantity	Value ¹	Average value	Quantity	Value	Average value
1924 1925 1926 1927 1928	Cubic feet 3, 520, 530 3, 195, 250 3, 240, 550 3, 197, 910 (*)	\$8, 167, 630, 00 8, 020, 176, 00 7, 388, 454, 00 7, 383, 805, 00 (2)	Cubic foot \$2.32 2.51 2.28 2.39 (²)		\$215, 515.00 228, 753.00 250, 793.00 213, 387.00 241, 058.00	Cubic foot \$1.47 1.46 1.36 1.61 1.69

¹ Estimated.

² Not available.

The domestic quarries supplying the largest quantities of monumental granite are the districts of Barre, Vt. (having the largest output), and Quincy, Mass., producing gray granite, and St. Cloud, Minn., and Wisconsin, producing red granite. Black granite is produced largely in the eastern part of Pennsylvania. Comparatively little unmanufactured monumental granite is sold in Minnesota, Wisconsin, or Pennsylvania, either to dealers or manufacturers, as practically all the quarriers manufacture the stone obtained from their own quarries.

In recent years Sweden has been the largest exporter to the United States of unmanufactured monumental granite. Most of the rough granite imported is a black stone, obtained from Sweden, and manufactured for the most part in New York City for the local trade. The landed cost to the importer of this stone, duty paid, at New York City is higher than the value at that point of the principal competing black granite obtained from quarries in Pennsylvania. Comparatively little rough granite is shipped to New York from other domestic quarrying districts. What little there is consists largely of gray granite from Quincy, Mass.

Imports at Quincy, Mass. (through the port of Boston), from Sweden and Finland in 1926 were about one-third of the imports from these countries at New York City. The foreign stone manufactured into monuments at Quincy is largely red granite obtained from Finland. The average value of the foreign red granite is considerably less than the average value of the black granite imported at New York City, and the value of the red stone delivered at Quincy is less than the average value of the better grades of gray granite obtained from the quarries in Quincy and manufactured at that point into monuments. The unit value of the foreign rough monumental granite, particularly the black granite from Sweden, has increased materially since 1924.

During 1925 the commission obtained data in the United States with respect to quarrying costs in 1924 of unmanufactured monumental granite for 3 companies in Barre, Vt., and 5 companies in Quincy, Mass., producing gray granite; 5 companies in St. Cloud, Minn., and 3 companies in Wisconsin producing several varieties of red granite; and 2 companies in Pennsylvania producing black granite. The various classes of monumental granite produced in these districts constitute the bulk of sales in the industry, and most of them are comparable with the several important types of imported unmanufactured monumental granite.

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In Sweden cost data were obtained in detail from the books of three companies said to control about 80 per cent of the total granite business—particularly the quarrying operations—of that country. Each of these companies operates in several districts where different kinds of granite are available, and their expenditures for quarrying operations were separately recorded in their books for the various kinds of granite quarried. Detailed cost data were obtained for the outstanding types produced—4 were black granite, 2 of which were from the same quarrying district, 1 was gray, and 1 red. The types of granite for which cost data were obtained from these three companies constitute by far the largest percentage of imports from Sweden of unmanufactured monumental granite.

The commission's report to the President has been published by the Finance Committee of the Senate.

A comparison of the weighted average costs of production, including imputed interest, of domestic and Swedish unmanufactured monumental granite, f. o. b. quarries, and at New York City, and the differences in such costs at these points for the year 1924, as shown in the commission's report to the President, are given below.

Unmanufactured monumental granite: Costs for Vermont, Massachusetts, and Pennsylvania districts combined, compared with costs for 4 black, 1 red, and 1 gray Swedish granites combined, 1924

Item	Domestic	Sweden	Differences in costs (duty per cubic foot necessary to equalize differences in costs)
Labor	\$0. 98 . 20		
Power	. 14	.03	
Repairs and supplies	. 18	. 12	
Hauling Taxes and insurance	.15 .12	.06	
Depreciation		.02	
Depletion	. 14	. 09	
Miscellaneous.	. 10	. 25	
Total cost at quarry Less credit for paving blocks, riprap, etc	2.07 .01	1.42	
Net total cost f. o. b. quarry	2.06	1.42	\$0.64
Imputed interest	.14	. 04	.10
Cost, including interest	2. 20	1.46	. 74
Transportation and other charges to New York City	. 82	. 94	. 12
Total	3.02	2. 40	. 62

[Per cubic foot]

The investigation by the commission shows that if comparisons are made of the costs of production of Swedish black granite and of Pennsylvania black granite, the cost of the Swedish granite f. o. b. quarry, and at New York City, exceeds the cost of the domestic at corresponding points. As before stated, little of the rough monumental granite produced in Vermont and Massachusetts is sold to manufacturers in New York City. As cost data were obtained from only two companies in Pennsylvania, costs of production for the Pennsylvania district can not be shown because of the possibility of disclosing confidential information. Manufactured monumental granite.—Little information is available regarding the value of domestic production of manufactured monumental granite. In 1927 the granite monuments and tombstones produced in the United States were valued at \$48,462,000. This figure does not include the output of the numerous small yards buying and selling finished or partly finished monuments. Statistics for other years are not available.

Imports of manufactured monumental granite, largely from Germany, for the period 1924–1928 follow.

Year	Qua	37-1	
	Pounds	Cubic feet 1	Value
1924 1925 1926 1927 1928	7, 957, 030 8, 741, 378 7, 782, 843 8, 670, 775 5, 779, 010	43, 315 47, 585 42, 370 47, 200 31, 459	\$302, 180 357, 054 321, 483 313, 787 242, 793

¹ Estimated.

Imports of manufactured monumental granite are entered largely at the port of Philadelphia, Pa. Comparatively little of this foreign granite is sold in Philadelphia or other eastern markets, but is shipped to points in Ohio and farther west, where it competes for the most part with the red granite manufactured in St. Cloud, Minn., and with the gray granites manufactured in Barre, Vt., and in Quincy, Mass. Imports consist of granite dies (the principal stone of the monument which is usually set upon a base), most of which have all exposed surfaces polished. Monuments manufactured in Germany from red granite obtained from Sweden constitute a large percentage of the imports.

Cost data for finished monumental granite were obtained at the plants of 8 companies in Barre, Vt., the largest producing district; 5 companies in Quincy, Mass.; 6 companies in St. Cloud, Minn.; 3 companies in Wisconsin; and 2 companies in Pennsylvania. The granite monuments selected for the purpose of comparing costs of production of domestic and foreign products have four sides and the tops polished. Cost data were obtained for three styles of monuments—flat top, oval top, and serpentine top—and for four sizes in each style. These selected styles and sizes are considered representative of a large portion of the total domestic production and of the bulk of the imports of granite monuments.

In Germany cost data were obtained from four finishing plants located in the Fichtelgebirge district of Bavaria, the principal granitefinishing center. From the data obtained in Germany were computed the costs of production of the selected types and sizes of dies manufactured in that country from four varieties of imported Swedish rough granite, namely, Black Swede, Beers Red, Red Swede, and Bon Accord Gray, and from one variety of native German stone known as Spremberger syenite. These varieties were selected because the monumental dies fabricated from them make up the bulk of the manufactured monumental granite imported into the United States from Germany, the principal competing country.

In its report to the President the commission shows the costs of domestic and imported polished monumental granite calculated upon The costs shown in the following table are, for the two bases. United States, the simple average costs for a composite granite die manufactured in Barre, Vt., Quincy, Mass., and St. Cloud, Minn., and for the imported die, the simple average for similar dies manu-factured in Germany from three types of Swedish granite, namely, Beers Red, Red Swede, and Bon Accord Gray, and from one type of German granite, Spremberger syenite.

The costs obtained in the Wisconsin and in the Pennsylvania graniteproducing areas for red and black granites are not included in the cost for the domestic because (1) the volume of production in these districts is not sufficient to warrant their use in the simple unweighted average costs, and (2) the dies produced in Wisconsin and Pennsylvania are specialties sold at a higher price level than those produced in the three principal districts.

Manufactured monumental granite: Comparison of United States and German costs of production for a composite polished granite die, at plants, transportation costs to Philadelphia, Pa., and Columbus, Ohio, and the costs including transportation to such points, for the year 1925

	Costs	Duty neces- sary to		
Item	United States	Germany	Difference	equalize differences in costs ¹
Rough stock	\$30. 78	\$27. 29		Per cent
Direct labor	27.31 49.33 1.54	14. 99 22. 20 2. 96		
Total cost of production, f. o. b. plants Imputed interest	108.96 1.75	67.44 2.85	\$41.52 -1.10	62.11
Cost, including interest	110.71	70. 29	40.42	60.46
Transportation charges from plants to Philadelphia, Pa Columbus, Ohio	7.72 6.08	8.06 ² 15.13		
Cost, including interest, at— Philadelphia, Pa Columbus, Ohio	118. 43 116. 79	78. 35 85. 42	40. 08 31. 37	59, 96 46, 93

¹ Computed on a foreign value of \$66.85 per die. ² Includes \$8.06 transportation from German plants to American Atlantic port and the transportation charge from port of importation (Philadelphia, Pa.) to Columbus.

Plate glass.—On May 5, 1923, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, with respect to cast polished plate glass. Field work, both domestic and foreign, was conducted at two different periods, and two public hearings were held, for reasons given below.

The first field work was carried on in the United States and in Belgium and Germany in 1923 and 1924. Cost data were obtained from all producers in the United States, from one company in Belgium (owned largely by American capital), and from several companies in Germany. Belgian plate-glass manufacturers affiliated with the Union Commerciale des Glaceries Belges declined to give any information with respect to their costs of production. Belgium is the principal source of imports into the United States.

After public notice had been given as prescribed by the law, and a preliminary statement of information obtained in the investigation had been distributed, a public hearing was held at the office of the commission in Washington, the sessions of which were on November 23, 24, 30, and December 1, 1925. At the hearing all parties interested were given reasonable opportunity to be present, to produce evidence, and to be heard with regard to differences in costs of production and all other advantages and disadvantages in competition with respect to plate glass. Representatives of Belgian plate-glass manufacturers and importers of plate glass asked, through counsel, that the commission continue the investigation until more accurate and up-to-date information respecting costs of production could be obtained and until a study could be made of new processes of manu-At the same time Belgian manufacturers assured the comfacture. mission that opportunity would be afforded to obtain complete cost information from their records.

On February 18, 1926, the commission ordered that the investigation be continued, and in the summer of 1926 the second field work was undertaken for the purpose of getting new cost and other data. Costs were obtained from all producers of polished plate glass in the United States and in Belgium, and the new data were incorporated in a second preliminary statement of information, which was issued to parties interested. Public notice was then given of the second public hearing, which was held on May 9 to 13, 1927, when parties interested in the manufacture, distribution, and consumption of plate glass were represented and were given opportunity to be heard and to present evidence. Subsequent to this second public hearing, briefs were filed by counsel for the Belgian plate-glass manufacturers, for the American plate-glass manufacturers, for the Association of Imported Plate Glass Consumers, and for the Sligh Furniture Co., of Grand Rapids, Mich.

The commission's final report on this subject was transmitted to the President on August 22, 1928. Although all six members of the commission signed the report, they were not in agreement as to the period for which production costs of plate glass should be considered or as to the method of computing costs of transportation. Three commissioners were of the opinion that the weighted average costs of production for the three years covered by the commission's investigation, namely, 1923, 1924, and 1925, and transportation costs to the 14 principal markets in the United States should be used for comparison, and three commissioners believed that the costs of production for 1925, the last year covered by the commission's investigation, and transportation costs to Cleveland, Ohio, should be used as a basis of comparison.

The weighted average costs for producing plate glass in Belgium for the three years covered by the Tariff Commission's investigation amounted to 24.53 cents per square foot and in the United States to 46.66 cents per square foot. Transportation and other charges to the 14 principal markets⁵ in the United States amounted to 3.80 cents per square foot for the Belgian glass and 1.98 cents per square foot for the domestic glass. The United States cost exceeded the Belgian

⁶ Boston, New York, Philadelphia, Baltimore, Norfolk, Los Angeles, San Francisco, Seattlé, Detroit, Cleveland, Buffalo, Chicago, St. Louis, and High Point, N. C.

cost at these markets by an average of 20.31 cents per square foot, whereas the average duty collected on imports from Belgium for the same three years was 16.09 cents per square foot. The increase necessary to equalize cost differences was, therefore, 26.2 per cent.

The weighted average cost of producing plate glass in Belgium for the year 1925 amounted to 26.57 cents per square foot and in the United States to 44.15 cents per square foot, a difference of 17.58 cents per square foot, f. o. b. plant. Transportation and other charges to Cleveland, Ohio, amounted to 2.10 cents per square foot for the Belgian glass and 1.43 cents per square foot for the domestic glass. The United States cost exceeded the Belgian cost at Cleveland by an average of 14.10 cents per square foot, whereas the average duty collected on imports from Belgium for 1925 was 16.16 cents per square foot. The decrease necessary to equalize cost differences at Cleveland was, therefore, 12.7 per cent. On January 17, 1929, the President by proclamation increased the

On January 17, 1929, the President by proclamation increased the rates of duty on cast polished plate glass, effective February 16, 1929, on sizes not exceeding 384 square inches, from $12\frac{1}{2}$ cents per square foot to 16 cents per square foot; above 384 square inches and not exceeding 720 square inches, from 15 cents per square foot to 19 cents per square foot; and all above 720 square inches, from $17\frac{1}{2}$ cents per square foot to 22 cents per square foot.

Domestic production of plate glass in 1927 was 111,390,933 square feet, of which approximately 1,000,000 square feet were exported. European production amounts to slightly over 100,000,000 square feet annually. Belgium alone produces from 35 to 40 million square feet, of which approximately one-fourth is exported to the United The rapid development of the American plate-glass industry States. may be attributed largely to building expansion and to the growth The demand for plate glass in the fall of the automobile industry. of 1922 and during 1923 created by the increased production of closed motor cars and the activity in the building trades throughout the country exceeded the capacity of American plants. Imports, which had never before exceeded 3,000,000 square feet per year amounted in 1922 to over 10,000,000 square feet and in 1923 to over 25,000,000 square feet, equivalent to approximately 30 per cent of the domestic production for the latter year. During this period prices rose to new levels for both the domestic and the imported product.

Following this period of industrial activity there was a general movement toward expansion throughout the plate-glass industry. Old plants were enlarged and new ones built in an effort to keep pace with the increasing demand. In both the United States and Belgium new and improved methods of manufacturing were developed on the principle of large-scale output of a more or less standard product. Some of the large automobile manufacturers sought to secure an adequate supply of plate glass either by obtaining control of existing plate-glass plants or by building new ones where the most modern methods of manufacturing are being applied.

In the United States these somewhat revolutionary developments in the plate-glass industry resulted in the creation of a supply evidently greater than was warranted by the demand during the next two years, 1924 and 1925. Imports decreased from 25,000,000 square feet in 1923 to approximately 16,000,000 square feet for each of the years 1924 and 1925, and prices of both domestic and foreign glass were reduced about 15 per cent. In 1926, however, there was a return to something like the conditions of supply and demand obtaining in 1923, and imports again amounted to nearly 25,000,000 square feet. Domestic production was larger in 1926 than in any previous year, amounting to over 128,000,000 square feet.

In 1927 a decrease in domestic production to 111,000,000 square feet, and in imports to approximately 15,000,000 square feet, was attributed to the curtailment of production of certain automobiles. In 1928 domestic production amounted to over 130,000,000 square feet and imports to over 15,500,000 square feet.

Window glass.—The President, by proclamation effective June 13, 1929, changed the rates of duty on cylinder, crown, and sheet glass, unpolished (commercially known as window glass), from 1¼ cents per pound to 1½ cents per pound on sizes not exceeding 150 square inches; from 1½ cents per pound to 2¼ cents per pound on sizes not exceeding 384 square inches; from 1½ cents per pound to 2½ cents per pound on sizes not exceeding 720 square inches; from 1¾ cents per pound to 2½ cents per pound on sizes not exceeding 864 square inches; from 2 cents per pound to 3 cents per pound on sizes not exceeding 1,200 square inches; from 2¼ cents per pound to 3¾ cents per pound on sizes not exceeding 2,400 square inches; and from 2½cents per pound to 3¾ cents per pound on sizes above 2,400 square inches.

The weighted average cost of production of cylinder, crown, and sheet glass, unpolished, as ascertained by the Tariff Commission for the year 1926, in Belgium, including transportation to New York, amounted to 2.445 cents per pound. The cost of production in the United States, including transportation to New York, weighted on the basis of actual shipments, was 4.73 cents per pound. The domestic cost, including transportation to New York, weighted upon the basis of the production of the plants east of the Mississippi River, was 4.75 cents per pound. The difference in costs of production and in transportation to New York upon the first basis was 2.285 cents per pound, and upon the second basis it was 2.305 cents The average duty collected on imports from Belgium per pound. during the same year was 1.509 cents per pound. The average increase in the duty, therefore, necessary to equalize costs at New York City, upon either basis of weighting transportation, was approximately 52 per cent.

There are at the present time four different methods of producing window glass—(1) the hand-blown cylinder method, (2) the machinecylinder method, (3) the Libbey-Owens method, and (4) the Fourcault method. The last two are sheet-drawing methods developed largely since the war. In the United States the machine-cylinder, Libbey-Owens, and Fourcault methods are used; in Belgium, the hand-cylinder, Libbey-Owens, and Fourcault methods.

The expansion of the domestic window-glass industry since 1921 is directly attributable to building activities, which have created a large demand for building glass of all types. The application of new methods of production, the Libbey-Owens (American patent) and the Fourcault (Belgian patent), increased productive capacity and stimulated a general movement toward mass production.

More window glass was produced in the United States in 1925 than in any previous year, production in that year amounting to approximately 567,000,000 square feet. In 1926, the year covered by the commission's cost investigation, production amounted to approximately 530,000,000 square feet. In 1927 it declined to 480,000,000 square feet and in 1928 to 467,000,000 square feet.

Of the total domestic production in 1926, approximately 2 per cent was produced by the hand-cylinder process, 59 per cent by the machine-cylinder process, 29 per cent by the Libbey-Owens process, and 10 per cent by the Fourcault process. In 1928 no window glass was produced in the United States by the hand-cylinder process, and production by the machine-cylinder process dropped to 38.8 per cent of the output. Production by the sheet-drawing process rose to 61.2 per cent, about equally divided between the Libbey-Owens process and the Fourcault process.

In the domestic production of window glass West Virginia ranks first, Pennsylvania second, Indiana third, and Louisiana fourth.

In Europe the hand-blown cylinder process, which until a few years before the war was the only process used, is rapidly being displaced by the more modern mechanical methods introduced by Libbey-Owens and Fourcault. European production in 1926 is estimated at 1,180,000,000 square feet, more than half of which was produced by the Libbey-Owens and Fourcault processes.

The substitution of machine methods for hand-cylinder methods in Belgium has made for progress in the industry in recent years. The total Belgian production in 1913 was approximately 460,000,000 square feet, of which less than 14,000,000 was produced by the Fourcault process. Of the total Belgian production in 1927 of 566,000,000 square feet, 34.6 per cent was produced by the handcylinder process, 46.3 per cent by the Fourcault process, and 19.1 per cent by the Libbey-Owens process. About one-tenth of the Belgian production is exported to the United States.

In recent years, since the beginning of activity in the building trades of the United States, the average annual imports have almost doubled in quantity those before the war. The considerable increase of imports in the years 1921 and 1922, in particular, was due to the domestic industry not being prepared in those years to meet the greatly enlarged demand.

The competitive situation in window glass is complicated by the changes in methods of production going on at home and abroad—in the United States the change from the mechanically blown cylinder process to the sheet-drawing process and in Europe from the mouthblown cylinder process to the sheet-drawing process.

More window glass was imported into the United States in 1927 than in any previous year. Imports in 1927 amounted to 83,204,229 pounds, or about 13 per cent of the domestic production. In 1928 there was a decline to approximately 68,000,000 pounds. Since 1924, imports from Czechoslovakia, produced in considerable quantities by mechanical processes, have increased markedly. For the years 1925, 1926, 1927, and 1928 imports from that country have constituted by quantity over 23 per cent of the total imports and by value about 37 per cent. The greater value per unit of imports from Czechoslovakia, as compared with imports from Belgium and other countries, is accounted for almost wholly by the fact that they consist largely of heavy window glass sold under the trade name of "Vitrea." The following table shows the imports of window glass from 1918 to 1928, inclusive.

		Value	Ð	Specific dutie	Equiva- lent ad	
Year	Quantity	Total	Per pound	Total	Per pound	valorem rate of duty
1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928	Pounds 302, 461 635, 501 5, 319, 030 52, 414, 111 46, 243, 164 30, 799, 664 45, 585, 770 80, 884, 601 83, 204, 229 67, 870, 133	\$33, 634. 00 73, 636. 00 513, 579. 00 2, 524, 082. 00 2, 527, 382. 00 2, 102, 410. 00 1, 768, 793. 00 2, 395, 168. 00 3, 129, 075. 00 2, 888, 616. 00 2, 888, 616. 00 2, 889, 616. 00	\$0.111 .116 .097 .054 .048 .045 .057 .052 .039 .035 .037	\$2, 867.00 6, 134.00 52, 763.00 561, 167.00 671, 755.00 729, 845.00 763, 692.00 1, 321, 844.00 1, 338, 636.00 1, 100, 061.00	\$0.009478 .009652 .009919 .011923 .012816 .015782 .015751 .016752 .016342 .016342 .016342 .016342	Per ceni 8, 52 8, 33 10, 27 22, 23 26, 58 34, 71 27, 43 31, 90 42, 24 46, 34 44, 16

Window glass: United States imports for consumption, 1918–1928 [Source: Commerce and Navigation of the United States]

The 1928 price of Belgian window glass, single strength, third quality, 25-inch bracket (the size and quality most commonly imported and sold in this country), was \$1.07 per box of 50 square feet f. o. b. Antwerp. Transportation, duty, and other charges from Antwerp to New York amounted to \$0.925 per box, making a total cost of \$1.995 per box to the importer at New York City. The selling price of domestic window glass of the same size and quality f. o. b. Pittsburgh in 1928 was \$2.09 per box. Transportation to New York City amounted to \$0.255 per box, making a total cost of \$2.345 per box to New York jobber for the domestic glass, a difference in delivered cost at New York City of 35 cents per box in favor of the Belgian glass.

The distribution of domestic window glass is according to density of population, the principal markets being the larger cities. About 35 per cent of the total domestic shipments in 1926 went to New York and to cities within a radius of 35 miles of that point. The Atlantic and Gulf States together received $45\frac{1}{2}$ per cent, the Pacific States $7\frac{1}{2}$ per cent, and the interior States 47 per cent of total domestic shipments. The existing markets in the United States for imported glass are confined largely to the seaboard States. The Atlantic and Gulf Coast States received 50 per cent of the total imports in 1926, Pacific Coast States 34 per cent, and interior States 16 per cent.

Blown-glass tableware.—On July 12, 1928, the commission instituted an investigation, for the purposes of section 315, of the costs of production of blown-glass tableware. This investigation is concerned with table and kitchen glassware, blown or partly blown, and whether or not colored, cut, or decorated, as provided for in paragraph 218 of the tariff act of 1922.

In 1928 there were at least 45 domestic plants producing blownglass tableware. About 30 of these are in western Pennsylvania, eastern Ohio, and northern West Virginia. The remainder are in Indiana, Massachusetts, New York, New Jersey, Maryland, Oklahoma, and California. In addition to the glassware plants, there are numerous establishments engaged in cutting and decorating table glassware. Statistics of production, imports, and exports as compiled by the Department of Commerce do not segregate blown-glass tableware. The American Association of Flint and Lime Glass Manufacturers (Inc.) estimated that the annual domestic production of blown-glass tableware amounts to approximately \$10,500,000. Importers at New York City estimated the total annual foreign value of all imports of blown glassware for the table at about \$1,000,000. Data secured by the Tariff Commission from the leading importers of this kind of glassware in New York City indicate that the estimate of \$1,000,000 annual imports is approximately correct.

Czechoslovakia is probably the principal source of imports for most types of blown-glass tableware. Other countries exporting to the United States in quantity are Germany, England, Sweden, France, Belgium, the Netherlands, and Italy.

Domestic field work in this investigation was begun in the early part of August, 1928, and continued until December, 1928, when the investigation was suspended in order that the personnel assigned to it might assist in the preparation of data for the use of the Congress in connection with tariff legislation. Costs and other data were secured from 10 domestic plants—2 in Pennsylvania, 3 in West Virginia, and 5 in Ohio.

Cost data with respect to competing imported glassware have not been obtained at foreign plants, but information with respect to landed costs, selling prices, etc., for foreign articles has been obtained from New York importers. These data have been tabulated and are available to the Congress.

SCHEDULE 3. METALS AND MANUFACTURES OF METAL

(a) GENERAL STATEMENT

To the metals division are assigned the products provided for in about 150 paragraphs of the tariff act of 1922. They embrace a number of minerals and mineral products in Schedule 2, all of Schedule 3, and minerals and their products specified in the sundries schedule and on the free list.

The regular work of the division consists primarily in collecting trade statistics and other information pertaining to all products included in its assignment and in maintaining complete and current files of such data.

During the past year the division completed field work and drafted a report on tungsten, an investigation instituted for the purposes of section 315, and reports on scientific instruments and manganese, investigations instituted under the general powers of the commission. The major portion of the year has been devoted to work in connection with the tariff readjustments of 1929, the work consisting of the preparation of summaries of tariff information for the use of the Congress and the public, attendance at public hearings, analyzing and checking testimony, collecting supplementary information for use in the tariff readjustment, supplying information to members of the congressional committees as requested, and assisting in the preparation of data respecting the various issues of the bill H. R. 2667 that have appeared.

(b) SURVEYS, REPORTS, AND SPECIAL STUDIES

The division's practice of maintaining files of commodity surveys in rough draft form has justified itself during the past year. Much of the material thus collected was incorporated in the Summary of Tariff Information, 1929, which is in constant use by members of the Congress in their studies relating to the new tariff bill. The section of the Summary of Tariff Information devoted to metals covered 213 individual products and groups of commodities.

(c) INVESTIGATIONS UNDER THE GENERAL POWERS OF THE COMMISSION

Manganese.—An investigation of manganese was instituted by the commission under its general powers on May 31, 1927, and field work was conducted from July to October, 1927, in Minnesota, Montana, Washington, Arizona, New Mexico, Arkansas, Georgia, and Virginia. In these States about 95 per cent of the domestic output of the highgrade and a larger proportion of the low-grade ore are produced. Field studies were made of production, beneficiation, and marketing of the ores and the costs of these items, as well as of the manufacture, distribution, and cost of ferromanganese. Additional data were collected regarding the technology and use of manganese in its various forms, and information was gathered and compiled on ore resources and international trade.

Manganese is a raw material essential in steel manufacture and for certain chemicals. Production in the United States in recent years has provided about one-twelfth of the domestic demands. There are, however, large resources of low-grade ore, which, if it proves amenable to commercial beneficiation, will greatly reduce the dependence of the United States on foreign sources of supply. New processes of beneficiation that have been developed are considered in the commission's report of its investigation.

Scientific instruments.—The commission's investigation, under its general powers, of scientific instruments embraces all types of instruments, apparatus, and appliances designed for scientific pursuits and for the practice of certain professions. During August and September, 1928, field work was conducted to obtain the latest information on surgical, dental, and industrial instruments. The intervention of other and more urgent work precluded completion of the commission's report on these subjects. The new information obtained, particularly with respect to changing conditions in the trade on surgical instruments, was used in the course of the pending tariff readjustment.

(d) Investigations for the Purposes of Section 315 of the Tariff Act of 1922

(1) APPLICATIONS RECEIVED AND PRELIMINARY REPORTS MADE

Since the publication of the twelfth annual report, applications for investigations have been received requesting changes in the rates of duty on marcel irons and straightening combs. In view of the pending readjustment of the present tariff act, no preliminary studies or reports were made respecting these industries.

For the same reasons, no field work has been conducted during the past year with respect to previous applications, except in tungsten alloys.

(2) INVESTIGATIONS IN PROGRESS

Tungsten.—In response to Senate Resolution No. 203 of April 26, 1928, the commission instituted on May 14, 1928, an investigation of the costs of production of tungsten. Through field work, conducted from July to October, 1928, by the commission's experts, data were collected in South Dakota, Colorado, Nevada, California, and Arizona, where most of the domestic ore is produced, and reduced to concentrates, and in Eastern States, where the domestic and imported raw materials are utilized in the manufacture of ferrotungsten, tungsten steel, and other tungsten products. The field work on tungsten ore embraced studies of domestic reserves, technology, and marketing, as well as of the costs of production and transportation of the ore and The field work on tungsten products related particuconcentrates. larly to the tungsten losses incurred in the utilization of tungsten materials for the manufacture of tungsten products. These losses form one basis for the calculation of the compensatory factor in the tariff rates on the tungsten content of alloys, compounds, and steel.

Tungsten is essential to the manufacture of high-speed tools. Until recently these tools were either of tungsten steel or of alloy substitutes for steel containing tungsten. During 1928 tungsten carbide, a new material, of such superior hardness and abrasive properties as to promise a revolution in the design of certain cutting and drilling tools, was developed. This new development greatly enhances the importance of tungsten as an alloying mineral. Domestic production of tungsten has in recent years supplied about one-third of our consumption, the remainder coming mostly from China in the form of concentrates, which are further manufactured in the United States.

From 1911 to 1914 domestic production of tungsten averaged about 1,200 short tons per year. During the war years the average was about 4,900 short tons, with a maximum of 6,144 tons in 1917. From 1919 to 1924 the average production was 225 tons, with no output in either 1921 or 1922. The decline in production after the war and through the year 1924 was caused by lessened peace-time demands and by the use of war stocks accumulated in the United States.

From 1925 to 1928 domestic production averaged about 1,300 short tons per year. In 1927 and 1928 Nevada was the principal producer, but California, Colorado, and South Dakota produced substantial quantities. In recent years only five operators have contributed regularly to domestic production. The abandonment of operations by some of the former producers is accounted for by the exhaustion of workable deposits.

Statistics of domestic production for the period 1925 to 1928 are as follows:

Tungsten ore: Production in the United States, 1925-1928

(60 per cent concentrates)

Year	Short tons	Total value	Value per ton	Value per short ton unit ¹
1925.	1, 191	\$755, 500.00	\$634.00	\$10.57
1926.	1, 383	920, 400.00	666.00	11.10
1927.	1, 353	740, 936.00	548.00	9.13
1928 ²	1, 290	761, 000.00	582.00	9.70

¹ The trade measure "short ton unit," consists of 20 pounds of contained tungsten trioxide or 15.86 pounds of contained tungsten. ² Preliminary figures.

Since 1918 China has furnished the bulk of imports not only to the United States but to all industrial countries. Because of accumulated war stocks in the United States tungsten ore was not imported in 1923 and 1924. Imports for 1925 to 1928 are as follows:

Item	1925	1926	1927	1928
Tungsten content, short tons Equivalent 60 per cent concentrates, short tons Declared value Duty collected Value per short ton of equivalent 60 per cent con- centrates. Value per short-ton unit Equivalent ad valorem rate of duty, per cent	\$205, 326, 00	1, 207 2, 662 \$566, 996. 00 \$1, 140, 586. 00 \$213. 00 \$3. 55 201. 16	1, 085 2, 280 \$540, 409. 00 \$067, 796. 00 \$237. 00 \$3. 95 180. 75	1, 428 3, 000 \$072, 199. 00 \$1, 285, 196. 00 \$224. 00 \$3. 73 191. 19

Tungsten ore: Imports for consumption, calendar years 1925 to 1928

The commission's preliminary report on this investigation was nearly finished when work on the revision of the tariff act of 1922 began.

(e) Effect on Imports and Prices of Changes in Duties under the Provisions of Section 315 of the Tariff Act of 1922

Fluorspar.—The rate of duty upon fluorspar in the tariff act of 1922 was \$5.60 per ton, regardless of the percentage content of calcium fluoride. Following an investigation by the Traiff Commission for purposes of section 315 of the tariff act of 1922, the President, by proclamation effective November 16, 1928, increased the rate of duty upon fluorspar containing not more than 93 per cent calcium fluoride from \$5.60 per ton (the previous duty upon all fluorspar) to \$8.40 per ton.

The duty on fluorspar containing more than 93 per cent calcium fluoride was not changed. Different grades of fluorspar were not segregated in the statistics of imports until November 16, 1928, so that authentic figures for the importation of metallurgical fluorspar can not be given. Data obtained in the investigation indicate that the ratio of metallurgical to total fluorspar imported was about 78 per cent in 1925, 86 per cent in 1926, and 89 per cent in the first half of 1927.

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Month	Qt	antity	Value	Value per ton			
Under rate of duty of the act of January 1927 February March April May June					Tons 3, 691 4, 291 3, 571 4, 686 3, 137 10, 189	\$33, 023. 00 37, 531. 00 34, 214. 00 38, 052. 00 28, 647. 00 94, 266. 00	\$8. 94 8. 74 9. 58 8. 12 9. 13 9. 25
July August September October November December Total					4, 624 9, 080 4, 041 6, 292 5, 532 4, 475 63, 609	40, 896. 00 102, 179. 00 38, 735. 00 63, 071. 00 40, 904. 00 42, 564. 00 594, 082, 00	8.84 11.25 9.58 10.02 7.39 9.51 9.34
January					2, 831	23, 816. 00	8. 41
February March April May June July August September October November					$\begin{array}{c} 1,236\\ 630\\ 1,176\\ 1,695\\ 3,104\\ 3,482\\ 6,666\\ 6,954\\ 6,249\\ 7,479\end{array}$	$\begin{array}{c} 13, 457. 00\\ 9, 118. 00\\ 10, 808. 00\\ 17, 640. 00\\ 32, 713. 00\\ 34, 663. 00\\ 53, 828. 00\\ 71, 478. 00\\ 63, 076. 00\\ 69, 293. 00\\ \end{array}$	$\begin{array}{c} 10.88\\ 14.47\\ 9.19\\ 10.41\\ 10.54\\ 9.95\\ 8.07\\ 10.28\\ 10.09\\ 9.26\end{array}$
Total (11 months)		ore than 93 p			41, 502	399, 890. 00 re than 93 p	9. 64
March		leium fluorie				calcium fluor	
Month	Quantity	Value	Value ton		Quantity	v Value	Value per ton
Under rate of duty as proclaimed by the President (not more than 93 per cent calcium fluoride, \$8.40 per ton; more than 93 per cent calcium fluoride, \$5.60 per ton)							
1928 December	Tons 107	\$898.00	\$8.	39	Tons 757	\$9, 053. 00	\$11.96
1929 January February March April May June	199 93 1, 316 2, 146 2, 567	4, 601. 00 1, 069. 00 791. 00 9, 934. 00 21, 185. 00 25, 086. 00	5. 8. 7.	95 37 50 55 88 77	95 2, 175 27, 72 37 300 6, 90 50 1, 879 18, 76 55 1, 398 18, 77 88 1, 226 13, 72		23.03 9.98 13.38 11.20
Total (6 months)	6, 835	62, 666. 00	9.	18	11, 440	129, 203. 00) 11.29

Fluorspar: Imports for consumption, January, 1927, to June, 1929

Total imports in 1926, the year in which the investigation was instituted and when most of the field work was done, averaged about 5,600 tons per month; in 1927 they were about 5,300 tons; in 1928 $(10\frac{1}{2} \text{ months of which preceded the change in duty})$ they dropped to 3,500 tons, and in the first half of 1929 they averaged 3,000 tons per month.

The grade of imports since the proclaimed rate has altered to the extent that during the first half of 1929 about two-thirds of imported fluorspar has been more than 93 per cent calcium fluoride, whereas formerly only about one-sixth of the imported tonnage was of that grade. Insufficient time has elapsed to determine whether this change is the result of altered methods of beneficiation or the increased exploitation of high-grade ore. Quoted prices in domestic trade journals indicate a steadily weakening market from October, 1926, when the price for metallurgical grade was \$18 per short ton, until March, 1928, when it was \$14.75, and a rising market from then until November, 1928, when the \$18 quotation was resumed. There has been no change in published quotations since a few weeks before the new tariff rate of \$8.40 went into effect. Many of these quotations are, however, relatively nominal as they apply to only small transactions, the bulk of the trade being carried on through three to six month contracts which are unaffected by temporary market fluctuations.

Crude and caustic calcined magnesite.—The President's proclamation increasing the rate of duty on crude magnesite from fivesixteenths cent to fifteen thirty-seconds cent per pound and on caustic calcined magnesite from five-eighths cent to fifteen-sixteenths cent per pound became effective December 10, 1927.

Annual imports of crude magnesite, preceding and following the increase in the duty, are given in the following table.

Year	Quantity	Value
Under rate of duty of the act of 1922 (five-sixteenths of 1 cent per pound) 1925 1926	Short tons 487 608 856	\$6, 382 6, 555 8, 574
Under rate of duty as proclaimed by the President (fifteen thirty-seconds of 1 cent per pound)		
1928	762 1	6, 264 15(

Crude magnesite: United States imports, January 1, 1925, to June 30, 1929

The price of domestic crude magnesite at California shipping points was \$14 per short ton for several years until May, 1928, when it dropped to \$11, where it has remained. Greece is the principal source of imports of crude magnesite.

Caustic calcined magnesite comes principally from British India, with minor quantities from the Netherlands and other countries. Imports of caustic calcined magnesite before and after the change in rate of duty are shown in the table which follows.

Caustic calcined magnesite: Imports for consumption, January, 1926, to June, 1929

Month	Quantity	Value	Value per ton
Under rate of duty of the act of 1922 (five-eighths of 1 cent per pound)			
1926 January	1,278 409 1,433 1,716 1,503 2,105 268 407	\$21,096.00 32,372.00 27,873.00 12,755.00 29,776.00 33,037.00 34,461.00 41,829.00 8,120.00 12,085.00	\$30. 80 22. 19 21. 81 31. 14 20. 78 19. 25 22. 93 19. 87 30. 30 29. 69 29. 69
November December Total	2, 477 1, 018 14, 758	51, 487. 00 24, 257. 00 329, 128. 00	20. 79 23. 83 22. 30

Month	Quantity	Value	Value per ton
Under rate of duty of the act of 1922 (five-eighths of 1 cent per pound)— Continued			
1927	Short tons		
lanaury	113	\$3, 931, 00	\$34.79
February	869	17, 482, 00	20, 12
March	1, 123	23, 734, 00	21. 13
April	636	14,871.00	23, 38
May	1,378	27,063,00	19.6
lune	989	22,050,00	22.3
uly	301	9, 433, 00	31, 34
August	917	21, 755, 00	23.72
September	894	20, 482. 00	20.12
October	818	21, 643, 00	26.46
November	901	23, 590, 00	26.18
Dec. 1–10	521	16, 044, 00	30.79
Under rate of duty as proclaimed by the President (fifteen-sixteenths of 1 cent par pound)			
1927	_		
Dec. 11-31	108	3, 065. 00	28, 38
Total (12 months)	9, 568	225, 143. 00	23, 53
1928			
anuary	562	12,861.00	22,88
February	82	2,675,00	32.62
March	91	3,096,00	34.02
April	854	21, 678, 00	25.38
May	955	20, 200, 00	21, 15
une	717	16, 579, 00	23, 12
uly	642	14, 335, 00	20, 12
August	270	8, 171, 00	30.26
September	199	5, 785, 00	29.07
Appender	199	5,704.00	
Detober			29.71
November December	774 136	17, 143.00 3, 992.00	22, 28 29, 35
		·	
Total	5, 474	132, 219. 00	24.15
1929			
anuary	274	9,751.00	35, 58
ebruary	929	22, 521. 00	24, 24
March	101	3,609.00	35.73
April	849	18, 683, 00	22.01
May	264	7, 495, 00	28.40
une	1, 283	24, 052. 00	18.73

Caustic calcined magnesite: Imports for consumption, January, 1926, to June, 1929—Continued

There has been no change of note in the price of either the imported or domestic caustic calcined magnesite. Because of the lessened consumption of stucco for the external finish of dwellings, the tonnage of both has declined.

Iron in pigs.—On February 23, 1927, the President proclaimed an increase in the rate of duty on iron in pigs from 75 cents to 1.12 per ton, effective March 25, 1927.

The market for iron in pigs is highly competitive, and changes in economic conditions, which are the principal causes of alterations in relative price levels, have marked and prompt effect on distribution. As a result largely of such price changes, the principal source of imports shifted from the United Kingdom to British India early in 1924, to Germany in 1926, and to British India in 1927 and 1928. During the first six months of 1929 imports from the United Kingdom exceeded those from British India.

The increase of 37½ cents per long ton in the duty amounts to about 2 per cent of the domestic price. What effect this increase has had upon imports or prices can not be estimated for the reasons that the increase is small compared to major fluctuations in the price of pig iron, and that prices of pig iron have been at a relatively low level in the United States since the new duty became effective. There was a tendency for prices to increase during 1929.

Iron in pigs: Imports for consumption, January, 1926, to June, 1929

[Long tons]

Month	United Kingdom	India	Germany	All other countries	Total
Under rate of duty of the act of 1922 (\$0.75 per ton)					
1926				.	
January	15,833	10, 859	8, 395	13, 336	48, 423
February March	15, 826 12, 250	10, 243 14, 558	16,869 13,900	16, 184	59, 122 54, 825
April	15 651 1	9,798	13, 529	14, 117 15, 381	54, 359
May	12 236	11, 848	21,419	11,708	57, 211
June	8,2/0	10, 775	15, 535	8, 521	43, 106
JulyAugust	8,724	4,885 4,067	10, 573 13, 200	8, 234 6, 027	32,416 26,538
September	3, 244	3, 742	11,490	3, 351	18, 583
October		454	12,565	5,828	18, 847
November	4	1, 879	9,701	5, 976	17, 560
December		203	10, 218	4, 362	14, 783
Total	92, 043	83, 311	157, 394	113, 025	445, 773
1927					
January		246	5, 272	 3, 808 2, 218 2, 789 	9, 326
February		1, 565	634	2, 218	4, 417
March	1, 250	2, 763	690	2, 789	7, 492
Under rate of duty as proclaimed by the President (\$1.12½ per ton)					
1927					
April	2,048	2, 149	285	4, 441	8, 923
May	3,600	10, 402	180	2,482	16,664
June July	4, 995 3, 042	5, 667 5, 405	750	2, 085 1, 930	13, 497 10, 377
August	0,012	9, 703	560	3, 821	14,084
September	90	6,242	500	2, 337	9, 169
October November	190	5, 196		2,792	8,178
December	3, 173 2, 741	9, 245 8, 044	340	3,384 3,514	16, 142 14, 299
Total (12 months)	21, 129	66, 627	9, 211	35, 601	132, 568
1928	0 770	r 101	10		11 108
January February	3, 750 50	5, 634 3, 794	40	1, 703 2, 543	11, 127 6, 387
March	10, 748	3, 338		2,069	16, 155
April	10, 147	4, 196		5,802	20, 145
May	4,556	3,026		2,150	9,732
June July	6, 726 50	3,792 2,994	300	1,226 2,711	11, 799 6, 055
August	2, 550	7,495		2,945	12,990
September	2,225	3,758		4,454	10,437
October	7,702	4,610		1, 796	14, 108
November December	250 2, 190	8, 459 5, 324	300	2, 225 3, 011	10, 934 10, 825
Total	50, 944	56, 420	695	32, 635	140, 694
. 1929					
January	5, 250	7, 315	3	3, 540 4, 735	16, 108
February March	4, 540 4, 700	6,974	50	4,735	16, 299 8, 572
April	4,700	1,107 1,826		2,765 1,867	8, 572 6, 693
May	6, 342	4, 589	50	3, 412	14, 393
June	3, 040	3, 903		4, 453	11, 396
Total (6 months)	26, 872	25, 714	103	20, 772	73, 461

It will be noted that beginning in June, 1926, total imports decreased in quantity, reaching the low point of 4,417 tons in February, 1927, but subsequently increased to 20,145 tons in April, 1928. During the period April, 1928, to June, 1929, they ranged from a minimum of 6,055 tons in July, 1928, to a maximum of 16,299 tons in February, 1929. Early in 1926, when imports were at the rate of 50,000 tons per month, the price of No. 2X eastern at Philadelphia was about \$24 per ton and the price of No. 2X at Buffalo was between \$21 and \$22 per ton. The decrease in monthly imports in 1926 was coincident with the decrease in the price of No. 2X eastern foundry iron delivered at Philadelphia to less than \$23 per ton and of No. 2X foundry iron at Buffalo to less than \$20 per ton. The average price in 1927 of No. 2X eastern delivered at Philadelphia was \$21,55 and of No. 2X at Buffalo was \$18.06. These prices show a decline during 1928 to \$21.17 for No. 2X eastern delivered at Philadelphia and to \$17.79 for No. 2X at Buffalo. During the first seven months of 1929 the average price of No. 2X foundry iron delivered Philadelphia was \$22.40, a considerable increase as compared to prices in 1928.

Foreign invoice prices of British Indian pig iron amounted to \$13.65 in 1928 and to \$13.37 for the first six months of 1929. Quoted prices in Europe, particularly in the United Kingdom and Sweden, are considerably higher.

Taximeters.—On October 1, 1925, the commission transmitted to the President a report on its investigation of taximeters.

The President, by a proclamation dated December 12, 1925, effective December 27, 1925, increased the duty on taximeters by changing the basis of assessment from \$3 each and 45 per cent ad valorem on the foreign market value to \$3 each and 27.1 per cent ad valorem on the American selling price, as defined in subdivision (f) of section 402 of the tariff act of 1922.

The following table shows the number and value of imports of taximeters before and since the change in the rate of duty. The table applies wholly to importations of assembled meters.

		New meters						Secondhand meters							
	Num- ber		Foreign value				Dutiable value 1				Num- ber			Dutiable value ¹	
		Total	Each	To	tal	Each		Total	Each	Total	Each				
Under former rate of duty (\$3 each and 45 per cent ad valorem, based on for- eign value): 1924	651 1, 376 628 1	\$19, 962 43, 133	\$30.66 31.35	\$69, (080	\$110 110	 142 75			\$6, 627 3, 750	\$46.67				

Taximeters: Imports for consumption, January, 1924, to June, 1929

¹ American selling price of comparable meters.

No material change was apparent in the rate of importation of taximeters until April, 1926, about three months after the rate of duty was changed. Since March, 1926, imports of new meters have been irregular and relatively small, and, as will be noted from the tables, the importations of new meters, formerly principally from Germany, practically ceased with 1 meter in January, 1927, and 1 meter in December, 1928, from Germany, and 2 in July, 1928, from France. There were no imports during the first six months of 1929. Since the increased duty became effective more or less regular imports of secondhand meters have come from France, but the volume of this business has been small. The former principal importer of German-made taximeters is now a domestic manufacturer of taximeters for which he imports the principal parts. Imports of such parts, dutiable under paragraph 368 at 50 per cent ad valorem, are not separately published, but are included in statistics of imports of other products. They can be separated only by means of a complete analysis of invoices showing a great variety of products.

The foreign value of taximeters is not reported. The selling price of domestic meters, comparable to imported meters, has remained unchanged at \$110 for new meters and at \$50 for secondhand meters since the proclamation of the President became effective.

Gold leaf.—On March 25, 1927, the President's proclamation increasing the rate of duty on gold leaf from 55 to $82\frac{1}{2}$ cents per 100 leaves became effective. The rate applies to leaf not exceeding in size $3\frac{3}{8}$ inches square, larger leaf taking a proportionately higher rate.

The following table shows total imports for periods before and after the change in rate took effect.

Month	Quantity	Value	Value per pack
Under rate of duty of the act of 1922 (55 cents per 100 leaves not exceeding in size the equivalent of 33% by 33% inches)		-	
1926 January	2, 139 2, 784 1, 973 1, 878 724 1, 387	\$5, 698.00 11, 995.00 13, 250.00 16, 049.00 11, 808.00 10, 887.00 4, 399.00 8, 216.00 10, 676.00 14, 541.00 12, 283.00	$\begin{array}{c} \$6.\ 27\\ 6.\ 09\\ 6.\ 03\\ 6.\ 19\\ 5.\ 76\\ 5.\ 98\\ 5.\ 79\\ 6.\ 07\\ 5.\ 92\\ 3.\ 98\\ 5.\ 86$
January	2, 993 847 3, 495	18, 293. 00 5, 100. 00 20, 965. 00	6. 11 6. 02 6. 00

Gold leaf: Imports for consumption, January, 1926, to June, 1928

¹ Includes 4,865 packs at \$3.13 and 19,900 packs at \$5.97.

Month	Quantity	Value	Value per pack
Under rate of duty as proclaimed by the President (82½ cents per 100 leaves not exceeding in size the equivalent of 3¾ by 3¾ inches)			
1927	Packs		
April	1, 109	\$6, 501.00	\$5.86
May	278	1, 635, 00	5.88
June	165	1, 210, 00	7.36
July	380	2, 122, 00	5.59
August	1, 138	6, 021, 00	5.30
September	881	5, 085, 00	5.77
October	1,089	5, 889, 00	5.41
November	.		
December	800	3, 276. 00	4.09
Total (12 months)	13, 175	76, 097. 00	5. 77
1928			
January	562	3, 139, 00	5.58
February	42	236,00	5, 62
March	213	1, 258, 00	5, 91
April	367	2, 301, 00	6.27
Mav.	861	4, 755, 00	5. 52
June	92	511.00	5, 55
July	330	2,032.00	6, 16
August	46	252.00	5.47
September	200	1, 115.00	5, 58
October	101	535.00	5.28
November	29	332.00	11.61
December	370	2, 073. 00	5. 61
Total	3, 213	18, 539. 00	5. 77
1929			
January	280	1, 490. 00	5. 33
February			
March	6	197.00	35.18
April	90	474.00	5.27
May	41	525.00	12.50
June	37	265.00	7.18
Total (6 months)	454	2, 951. 00	6. 49

Gold leaf: Imports for consumption, January, 1926, to June, 1928-Continued

During the 15 months from January, 1926, to March, 1927, before the increased rate became effective, imports averaged 2,146 packs per month, valued at \$5.56 per pack. Following the increased rate, imports for the last nine months of 1927 averaged 649 packs per month, valued at \$5.44 per pack. Average monthly imports since then have declined further to 268 packs in 1928 and to 76 packs in the first half of 1929.

Prices of domestic gold leaf, XX deep, the grade of most common use, have been nominal at about \$12, beginning in 1923 and until October, 1928, when they dropped to \$11.50 per pack. The foreign declared value of XX deep leaf has ranged from \$5.50 to \$6 per pack; variations from this range, indicated in the unit value of imports in the preceding table, are due to the inclusion in statistics of cheaper or more expensive grades.

or more expensive grades. Print rollers.—The President proclaimed an increase in the rate of duty on print rollers from 60 to 72 per cent ad valorem, effective July 21, 1926.

The following table shows imports of all kinds of rollers entered under paragraph 396 of the act of 1922, by months, from January, 1924, to July, 1926, inclusive, and from August 1, 1926, to June, 1929, inclusive.

			1924				1925		4	1926			
Month	Qua tit		Value	Unit value		uan- ity	Value	Unit value	Quan- tity	Value	Unit value		
Under rate of duty of the act 1922 (60 per cent ad valoren	n) Nun					ımber			Number				
January February March A pril May	1, 1, 1 8	145 198 349 999 270	\$3,077 13,828 10,908 11,464 7,124	\$21. 22 11. 54 12. 85 11. 48 5. 60		257 478 518 , 219 , 004	\$4, 167 7, 592 9, 198 16, 795 14, 421	\$16. 20 15. 88 17. 76 13. 78 14. 36	772 141 1, 154 544 260	\$27, 160 12, 043 7, 631 9, 566 7, 252	\$35.1 85.4 6.6 17.5 27.8		
June July August September	1, 2	753	15, 311 6, 360 2, 215 1, 278	20. 33 4. 17 20. 14 1. 69	377 75 169 26	3 377 7 75 1 169		9, 658 3, 536 3, 716	77 9,658 75 3,536 39 3,716	25.62 47.15 21.99 11.88	180 96	5, 295 3, 231	29.4 33.6
October November December	1	545 188 248	1, 564 4, 283 3, 285	2. 87 22. 78 13. 25	3	106 123 233	1, 951 9, 057 13, 447	18.41 7.36 5.77					
Total	8, 8	588	80, 697	9.40) 4	, 585	96, 627	21. 07					
~		1926			1926 1927		1928						
Month	Qua tit		Value	Unit value		uan- zity	Value	Unit value	Quan- tity	Value	Unit value		
Under rate of duty as pr claimed by the President (per cent ad valorem)	78	nher			Na	ımber			Number				
January February March A pril May June						137	\$947	\$6.91	29	\$321	\$11.0		
February March		8 276 3 277 2,648		34.50 9.56	13 34	274 587	21.0 17.2						
April						148	1,969	13.30	62	1,300	20.9		
May				.		127	1,498	11.80	11	345	31.3		
July				·		112 14	1, 582 970	14.13 69.29	52 25	1,081 667	20.7 26.6		
August		68	\$2, 582	\$37.97		196 1,734	196 1,734	1,734 8.	734 8.85	28	466	16.6	
September		63 88	1, 287 2, 914	20.43		$ \begin{array}{r} 105 \\ 17 \end{array} $	2,634 150	25.09 8.82	24 11	554 904	23.0 82.1		
October November		77	1,651	21. 44		55	736	13.38	29	775	26.7		
December	1	158	1, 841	11.68		27	294	10.89	34	497	14.6		
Total					1	l, 223	15, 438	12.62	352	7, 771	22. 08		
		1	929	<u> </u>				·		1929			
${f Month}$	Quan- tity	V٤		Unit value			Month		Quan- tity	Value	Unit value		
Under rate of duty as pro- claimed by the President (72 per cent ad valo- rem)—Continued	•				Un cl (?	der ta aimed 2 per 2m)	te of duty by the P cent a Continue	as pro- resident d valo- ed		·			
January February	Number 79	\$1,		518. 99	Ma	у			Number 38 16	\$2, 641 523	\$69. 5 32. 6		
March	30 57	1	409 597	13.63 28.02		Trote	al (6 mor	the)	220	6, 670	30.3		

Rollers: Entries for consumption January 1, 1924, to June 30, 1929

The figures in the foregoing table include embossing rollers prior to November, 1925, and print rollers in chief value of wood prior to August, 1927. Decisions of the Customs Court declared the former dutiable as parts of machines at 30 per cent ad valorem and the latter as manufactures in chief value of wood at 33% per cent ad va-The transfer of embossing rollers and of print rollers in chief lorem. value of wood to other classifications accounts in part at least for the falling off of imports of print rollers since July, 1926.

April_____

Total (6 months) ____

6,670

The principal importers of print rollers of the type covered by the commission's investigation are wall-paper manufacturers. These manufacturers report that there is now in effect a program of economy providing for standardization of designs, exchange of rollers, and production of new designs in fewer numbers and at longer intervals than formerly. It is probable that these practices have resulted in the reduction of requirements for rollers to about the capacity of the print-cutting shops operated by the wall-paper manufacturers.

Imports of print rollers are seasonal, the largest quantities usually coming in from December to June. During the 6-month period ending in May of each year, the busy season in the industry, imports declined from 3,104 rollers in 1926 to 238 during the corresponding six months of 1929.

The trend of imports and the average declared values of imported rollers are affected in some measure by court decisions. The extent of this effect can not be measured quantitively except by a complete analysis of all invoices of parts of machines, and manufactures of wood not specially provided for, in several ports of entry. The average value per roller of imports, shown in the foregoing table, during the busy season of 1929 (six months ending in May) was \$27.92, which compares with \$17.73 for the corresponding period of 1928 and \$10.74 for the corresponding period of 1927, which may indicate a trend toward the importation of rollers of the more complicated or exclusive designs.

Customs examiners and wall-paper manufacturers state that there is now little importation of print rollers made of wood, brass, and felt of the type used for printing wall paper.

(f) TARIFF READJUSTMENT OF 1929

Since December 1, 1928, preparatory work for public hearings, by the Committee on Ways and Means and the Committee on Finance, attendance at such hearings, and work for the committees and for individual members of the Congress have taken practically the entire time of the division.

(1) SUMMARIES OF TARIFF INFORMATION

During December, 1928, the division prepared manuscript for 213 summaries of tariff information, covering its entire assignment. Proof reading and revision required about one month in addition. These summaries comprise 553 printed pages, of which 44 pages were in Schedule 2, 425 pages in Schedule 3, 11 pages in Schedule 14, and 73 pages in Schedule 15. The Summaries of Tariff Information were more useful than any other reference works available during the tariff readjustment. They were quoted by most of the witnesses who appeared before the Senate Finance Committee and members of the committee made constant use of the data.

(2) WORK WITH THE COMMITTEE ON WAYS AND MEANS

Members of the staff were in attendance at the public hearings held before the Committee on Ways and Means. They also attended conferences held by the committee and subcommittees and consulted many witnesses with a view to clarifying testimony and verifying material submitted to the committee. During preliminary studies by the various subcommittees, information was summarized and presented as requested.

Members of the staff were called upon to furnish information on practically every item considered in executive sessions of the majority members of the Committee on Ways and Means. As the content of the bill was decided upon, the staff worked directly with the legislative counsel, furnishing the technical and economic data necessary for drafting the phraseology of the bill.

Members of the division's staff were present during debate in the House and in the Senate and were called upon from time to time to furnish information respecting the various amendments introduced.

(3) HEARINGS BEFORE THE FINANCE COMMITTEE OF THE SENATE

Many witnesses appeared before the subcommittees of the Finance Committee with comments pertaining to the House bill. Members of the staff attended these hearings and conferred with many of the witnesses, supplying data of nonconfidential nature, and eliciting for the commission's files and for the use of the Congress much information supplementary to the testimony and briefs appearing in the record.

(4) WORK WITH THE FINANCE COMMITTEE

Members of the staff were in attendance at the executive sessions of the majority members of the Finance Committee, supplying such information as was requested, and worked with the legislative counsel in the preparation of the Senate bill.

Memoranda were prepared for the information of individual members who made requests of the commission respecting items on which the duty was changed either by the House or by the Senate committee. Most of these memoranda were brief summaries of the facts available from the commission's reports and files and from the testimony.

Further work connected with the tariff revision consisted in the checking of tabulations, showing the comparison of rates proposed in the different drafts of the bill, and in the preparation of a study to indicate the conversions of ad valorem rates necessary for the application of United States value as a method of appraisal.

Certain of the tariff problems of Schedule 3 are briefly discussed below.

Iron and steel.—The products of the iron and steel industry are of two general classes: The relatively cheap, so-called tonnage products, such as plates, structural shapes, and common bars, of ordinary mild carbon steel, which are characteristically produced in the United States by the large integrated steel companies, and amount to over 30,000,000 tons per year; and the tool and fine steels, both plain carbon grades and alloy steels, which are made by a limited group of relatively small producers, and constitute only about one-half of 1 per cent of the total steel production.

In the first or tonnage group imports constitute on the average less than 1 per cent of domestic consumption, although some items, such as concrete reinforcing bars, structural shapes, and sheet piling, encounter substantially greater foreign competition. It is increasingly evident that factors other than customs duties are of importance in determining the amount of international trade in the various tonnage steel products. Such factors may be international control of markets under the cartel system; preferential tariff rates; proximity of producing and consuming industries; differences in manufacturing standards, such as grade of steel, rigidity of specifications, closeness of tolerances in dimensions, and standardization of the sections rolled. Slow. irregular delivery and difficulty of stowage for water shipment may also be important factors in limiting importations of certain steel Some items, such as structural shapes, are imported to products. certain domestic markets in substantial volume and are also exported in considerable volume. Trade reports indicate that a large proportion of the imports of structural shapes are of small sizes, such as are used for transmission towers, framework for display advertising, fire escapes, and other light structures which do not require material designed to rigid specifications. Exports of structural shapes consist in great measure of the heavier sections which are transported unfabricated to near-by markets, or which are purchased for use in structures designed by American engineers, fabricated in the United States, and erected abroad by American construction firms.

In the second group, the tool and fine steels, the ratio of imports to domestic consumption is variously estimated from 2 to over 10 per cent, depending upon the price selected as the lower limit for this grade of products. These figures do not include the greater portion of alloy steels, which are relatively cheap and are of the types used Certain of the fine steels largely for automobile construction. imported are probably not at the present time manufactured in the United States. Much of the testimony submitted to the congressional committees during the pending tariff readjustment indicates that a substantial part of the fine steel imported to the United States sells on its reputation at higher prices than domestic steel of corresponding physical characteristics. Also, that some domestic consumers prefer the imported product even at substantially higher prices than are quoted on the domestic product. Throughout the tool and fine steel industry there has been a marked development in technology during the life of the act of 1922. Many new alloy steels have been produced, and the tendency has been to utilize small quantities of alloying material even for the tonnage products, thus securing valuable physical characteristics with the minimum expenditure for raw materials.

Ferro-alloys and their alloy metals.—The ferro-alloy industries have during the past 10 years made unusual progress in technology. A substantial number of new ferro-alloys have been produced on a commercial basis, largely for use in the manufacture of steel, and a number of metals not formerly employed commercially for alloying purposes have come into use, at least experimentally. The low price at which a few ferro-alloys are now produced has caused changes in the technology of steel to take advantage of the lower costs.

One of the outstanding recent developments in alloy metals has been the utilization of tungsten in the form of a carbide in metalcutting tools, and as a substitute for diamonds in various types of cutting tools, and for hard alloys in making oil-well drills. Tungsten carbide is nearly as hard as diamond. The powdered form is mixed with cobalt, compressed in any desired shape for use as a cutting edge in finished tools, and sintered. Carbide may also be used in the lump form. The efficiency of carbide cutting tools is so great that there is a probability of their revolutionizing the design of certain machine tools and of their making marked changes in numerous manufacturing processes. Some of the alloy metals in the pure form are being used in an increasing number of products. For example, tungsten and molybdenum metal are finding increased employment in the manufacture of electrical apparatus of various kinds.

Under the act of 1922 evasions of the duties on alloy metals and their ores were accomplished by importing, for their valuable metal content, intermediate or finished products which are dutiable at rates lower than those applying to the basic materials. In certain instances foreign producers have altered their products or even devised new products for the purpose of taking advantage of lower rates of duty. H. R. 2667, now pending, includes more specific detail in the paragraphs relating to alloy metals in an effort to adjust, with reasonable accuracy, the rates on intermediate and finished products to those provided for the basic materials. The bill also provides for a number of alloy products which are still in the experimental stage, and it amplifies the basket clauses to provide for possible future developments.

Watches and clocks.—Paragraphs 367 and 368 of the tariff act of 1922 provided for types of watches and clocks and parts commonly made at the time the act was passed. There have been changes, however, in the two industries since 1922 which have made possible importations of watches and clocks and parts at lower rates of duty than were contemplated in the act for approximately similar products. For example, watches with jewel escapements, previously standardized at seven jewels, were constructed abroad in great numbers with six jewels, and imported at a saving of 50 cents in duty on each watch movement. Information from various sources also indicates that parts have been removed from watch movements, and that the incomplete mechanisms have been imported at the ad valorem rate for parts, resulting in a saving of a substantial portion of the duties intended on such mechanisms.

Paragraph 367 of the pending tariff bill provides a new method of classifying watches, providing duties dependent upon the diameter or width of the watch, the number of jewels contained in the mechanism, and the number of adjustments marked on the back of the movement. The classification respecting parts of watches was changed with a view to eliminating evasions of the rates on complete movements, and to encouraging the assembling of imported parts in the United States on a factory basis.

Two outstanding types of watches are manufactured in the United States: (1) The nonjeweled watch, of the same general type of construction as the clock movement; and (2) the jeweled watch, the movement for which is assembled upon a machined pillar plate, and which incorporates jeweled bearings designed to reduce friction and wear and to increase accuracy.

The consumption in the United States of watches not containing jewels amounts to roughly 9,000,000 per year and of jeweled watches to 6,000,000 per year.

Importations of nonjeweled watches are not great. One-jeweled watches are, however, imported in large but unknown numbers.

Such watches compete directly with and are often not mechanically superior to the nonjeweled watches produced in the United States. Beginning with 1927, between one-half and two-thirds of the supply of jeweled watches have been imported, mostly from Switzerland. Statistics for the first six months of 1929 indicate that importations are now at the rate of about 5,500,000 jeweled watches per year.

The demand for watches in the United States has increased markedly since the war on account of the introduction and popularization of wrist watches which are now available in a great variety of sizes and grades and in which the element of style has become an important factor. Competition from imports is particularly severe in low and medium grade wrist watches. Very small women's wrist watches, less than 0.6 inch in width, are now supplied exclusively by foreign producers, their manufacture in the United States having been discontinued several years ago. In men's high-grade watches there is competition in all lines, although in the absence of statistics the volume of such imports can not be compared with domestic production.

Most of the domestic production, which is now at a rate slightly below 2,000,000 watches per year, or approximately 50 per cent of reported capacity, is by five concerns.

Competition in the clock trade is not so severe as in watches. Apparently about 4 per cent of the domestic consumption of clocks are imported. Competition is not, however, so uniformly distributed as it is in watches, there being some major lines, such as alarm clocks, which are typical American productions, encountering very little competition from imports and enjoying substantial export markets. In other types, however, such as automobile clocks, boudoir and traveling clocks, certain novelties including movements with torsion pendulums and movements for hall clocks, competition is substantial.

pendulums and movements for hall clocks, competition is substantial. The clock paragraph (368 of the act of 1922 and the pending bill) has been subject to the same general type of criticism that has been made of the watch paragraph, particularly with respect to the importation of incomplete mechanisms which are dutiable as parts of clocks. Hence the treatment accorded to parts and incomplete mechanisms in paragraph 368 of the bill (H. R. 2667) is similar to that in paragraph 367, and with the same objects in view.

Hardware and tools.—A number of paragraphs in Schedule 3 provide for the smaller items of hardware and tools, such as builders' hardware, metal fittings of all sorts, and mechanics' tools. During the postwar years there has been a substantial growth of the chain-store method of distribution which has resulted in increased sales of these items, particularly the cheaper grades. A considerable portion of the hardware and tools sold by chain stores is of foreign origin and is often imported direct by the distributing agency. In quality, the imported products are on the whole somewhat below the competing products manufactured in the United States. In instances the items are not physically comparable with domestic products, but they supply a portion of the demand which would otherwise be filled by higher-grade and more expensive articles. The volume of the import trade in miscellaneous metal wares can not be measured with any degree of accuracy on account of insufficient statistical classification. Testimony before the congressional committees and information submitted to the commission indicate that some hardware lines meet comparatively little competition, while others encounter imported goods in substantial volume.

Another development of recent years is the tendency of domestic capital to migrate toward the centers of production of western Europe, transplanting American manufacturing methods, and obtaining the advantage of relatively low wages paid in Europe. It is not known to what extent import trade is supplied by these plants. Testimony indicates that in certain instances the foreign-made product of American concerns is used to supply markets outside of the United States for low-priced goods which were formerly supplied by plants in the United States.

SCHEDULE 4. WOOD AND MANUFACTURES OF WOOD

(a) GENERAL STATEMENT

The lumber division is concerned with all articles provided for in Schedule 4 and with the forest products and manufactures of wood on the free list. During the past year the division has been occupied mainly with the preparation of information for the use of the Congress in connection with tariff legislation.

The assembling of basic data for the Summary of Tariff Information, 1929, was begun in July, 1928. On several of the more important forest products fairly complete data were at hand, because during investigations made in the field domestic and foreign costs of production had been obtained, together with pertinent competitive and economic data. In other instances it was necessary to obtain information directly from the industries concerned, because the available statistics are given only in group totals and not for the specific commodities desired. The commission's New York office was called upon to analyze imports made under the basket classifications.

The hearings on Schedule 4 by the Committee on Ways and Means of the House of Representatives, as well as those by the Finance Committee of the Senate, were attended by the lumber division experts. Analysis of the testimony of each witness was made, and later the experts served in an advisory capacity to the subcommittee on Schedule 4 and to the majority party members of the committee during discussions of the schedule. Similar services were rendered to the Committee on Finance during its consideration of the schedule. Assistance likewise was given to the legislative counsel in the matter of phrasing the various paragraphs. A considerable volume of work was done in the preparation of memoranda on various commodities in Schedule 4 in response to requests made for information by Members of both branches of the Congress.

(b) SURVEYS

No new surveys were published during the year upon the commodities in the wood schedule, but the recent information obtained for these products was incorporated in the Summary of Tariff Information for Schedule 4 or was supplied the committees of the Congress concerned with tariff legislation.

(c) INVESTIGATIONS AND REPORTS FOR THE PURPOSES OF SECTION 315 OF THE TARIFF ACT OF 1922.

No applications with respect to commodities of wood were made to the commission during the period under consideration.

(1) INVESTIGATIONS IN PROGRESS

Bent-wood chairs.—In April, 1925, the commission instituted an investigation of bent-wood chairs for the purposes of section 315 of the tariff act of 1922. A preliminary statement of information issued to the trade in May, 1927, summarized cost and economic data obtained during the field investigation. At a public hearing held on June 6, 7, and 8, 1927, testimony was taken with respect to domestic and foreign costs of production, costs of assembling knockeddown parts, competition, comparability, transportation, and markets.

(2) REPORTS TO THE PRESIDENT

Logs of fir, spruce, cedar, or Western hemlock.—On March 14, 1928, the commission transmitted to the President a report upon its investigation of the costs of production of logs of fir, spruce, cedar, or Western hemlock. The President has issued no proclamation upon the subject. The commission's report has been published as a Senate document for the information of Congress.

The investigation was instituted on July 2, 1923. Following a preliminary hearing on August 6, 1923, the commission, Commissioners Culbertson and Costigan dissenting, reported to the President that it proposed to discontinue the investigation, because it was of the opinion that the duty under paragraph 401 was not subject to the provisions of section 315, in view of the exemption of logs of the species named from duty if imported from any country or subdivision of government which during a period of 12 months immediately preceding importation imposed no restriction upon the exportation of such logs from such country or subdivision of government. Advised by the Attorney General that section 315 appeared applicable in the case, the President on January 16, 1924, suggested that the commission proceed in accordance with the opinion of the Attorney General.

Domestic field work was begun in June, 1924, and foreign field work in August, 1924.

Domestic cost data for the year 1923 were obtained for 43 logging operations in the area tributary to Puget Sound, which is the domestic market in which imported logs compete. The estimated production in this region in 1923 was 3,000,000,000 feet, of which 1,791,000,000 feet, or 60 per cent, were produced by the 43 operations for which cost data were obtained.

Competing foreign logs are produced in the Vancouver forest district of British Columbia, the area tributary to the Strait of Georgia. Production in this district in 1923 amounted to 1,767,069,000 feet. Foreign cost data were obtained for 20 logging operations, which in 1923 produced 685,000,000 feet, or 39 per cent of the total production in that district.

Cost data obtained included operating costs of felling the trees, cutting them into logs, moving or yarding the logs to loading stations, loading them on cars and hauling them to booms at tidewater, and forming them into rafts for towage to market; general and administrative expense; stumpage or cost of standing timber; royalty or severance tax paid by British Columbia operators; and interest. Data were also obtained pertaining to certain advantages and disadvantages in competition for consideration under the provisions of subdivision (c) of section 315 of the tariff act of 1922. These included towage charges from boom to market, and the timber tax (or export royalty) collected at the time of exportation of logs cut from certain classes of lands and exported from British Columbia.

The stumpage charge, which represents the raw material cost of the logging industry, may be either a depletion charge for timber cut from land owned by the logger, or a payment for timber cut from land owned by others. The value on which the depletion charge was based for owned timber was the actual purchase price, or the value allowed for income tax purposes as of March 1, 1913, in the United States, and June 1, 1914, in Canada.

The important log markets on Puget Sound are Seattle, Tacoma, Everett, Anacortes, and Bellingham. The principal ports of entry of imported logs are Bellingham, Anacortes, and Blaine. Bellingham is the principal market where imported and domestic logs meet in competition, and for the purposes of this inquiry was considered the principal competing market.

The results of the investigation are summarized in the following tables.

TABLE	A.—Logs	of fir,	spruce,	cedar, o	r Western	hemlock:	Comparative	costs	of
	ā	lomestic	and for	eign logs	in boom	at tidewater	, 1923		-

Item	Domestic	Foreign ¹
Operating expenses (falling and bucking, yarding and loading, railroad haul to tidewater, and booming and rafting): Labor	1. 03 2. 18 . 15	\$4.60 1.25 .86 1.06 .22 1.23
Total operating expense. Administrative expenses. Stumpage. Canadian royalty (severance tax).	1.58 3.10	9.22 1.87 2.40 .46 1.02
Total cost in boom at tidewater	16.63	14. 97

[Per thousand feet]

¹ All cost items except those for stumpage converted into United States dollars at the rate of \$0.980352 per Canadian dollar.

The report detailing the information obtained in the commission's log investigation was signed by all commissioners. Two separate statements were submitted with respect to certain matters upon which the commissioners were not in agreement. One statement was signed by Chairman Marvin and Commissioners Brossard and Lowell, and the other by Vice Chairman Dennis and Commissioners Costigan and Dixon. These statements dealt particularly with the question of towage and the Canadian timber tax.

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In the statement by Commissioners Marvin, Brossard, and Lowell the following information and opinions are given:

The area covered by the commission's investigation is that around Puget Sound, in the State of Washington, and the Strait of Georgia, The principal market in which imported and in British Columbia. domestic logs meet in competition is Bellingham. For the purposes of this investigation Bellingham is considered the principal competing market. The tidewater mill, wherever located, which is in need of logs is the loggers' market, both in the United States and in Canada. On both sides of the line logs not purchased by local sawmills must seek a market at other points. The ratio of the capacity of the tidewater sawmill to actual log production may be regarded as approximately the same in the United States and in Canada. This investigation is not concerned with those logs only which for special reasons may move to a common market in any particular year. Its purpose is to assist the President in ascertaining costs of production of logs in the United States and in the principal competing country, taking into consideration also advantages and disadvantages in competition with respect to such logs.

The average cost of production of logs of fir, spruce, cedar, and western hemlock in the United States, in boom at tidewater, is \$16.63 per 1,000 feet, and the average cost in Canada of like or similar logs in boom at tidewater is \$14.97 per 1,000 feet. Costs of production of logs in boom at tidewater in the United States exceed costs of production of logs in boom at tidewater in Canada by \$1.66 per 1,000 feet.

During the period covered by the commission's investigation 95,040,112 feet of domestic logs were towed to three mills at Bellingham from various points on Puget Sound ranging from three-fourths of a mile to 120 miles. The weighted average distance these logs were towed was 24 miles. The average towing rate was \$0.44. Of these 95,040,112 feet, more than 51,000,000 feet were towed to one mill at Bellingham, which conducts its own logging operations at or near Bellingham. The average towing cost of this company was 28 cents, and the average haul was 14 miles, compared with an average for the other two mills which purchased logs in the open market of approximately 61 cents, and an average towing distance of 36 miles. Of these 95,040,112 feet, 45,419,967 feet, or 48 per cent of the total, were towed a distance of 6 miles or less.

From this analysis it is apparent that an average towing rate calculated upon the data obtained from three mills at Bellingham, purchasing only 95,040,112 feet, a large percentage of which was purchased in the immediate vicinity of Bellingham, fails to reflect the real distance towed and the cost of towing domestic logs to Bellingham in 1923.

In 1923 logs were actually towed to Bellingham from Everett, a distance of 69 miles; from Lakota Beach, a distance of 100 miles; and from points on Hoods Canal, 110 and 120 miles from Bellingham. This clearly shows that in the ordinary course of competition logs are towed long distances in Puget Sound and that movement of domestic logs is not confined to markets adjacent to their booming points.

Under the opinion of the Attorney General with respect to transportation, towing costs are to be considered, in so far as the President finds it practicable, as an advantage or disadvantage in competition. To limit consideration of advantages or disadvantages in competition to domestic producers of logs to towing costs paid in 1923 for logs purchased by three mills from only a few of the domestic producers would not meet the purposes of section 315 as construed by the To equalize rates of duty "for the protection of Attorney General. American producers" and "to offset any advantages in competition enjoyed by foreign producers," advantages or disadvantages based upon the operations of all domestic producers included within the scope of the commission's investigation should be taken into con-The purpose of section 315 as thus expressed is not to sideration. fix a rate of duty which will protect a few domestic producers who at a particular season are able to enter the common market and sell their logs there. That purpose requires that if the President finds it practicable the advantages or disadvantages in competition with respect to transportation or towing costs for the domestic industry considered as a whole shall be taken into consideration. The best method available to the commission for calculating the costs of towing logs for the purposes of section 315, therefore, is that which considers the towing costs of all domestic and Canadian logs boomed at tidewater included in the commission's investigation. In the opinion of Commissioners Marvin, Brossard, and Lowell, the average cost of towing domestic and Canadian logs should be a weighted average cost of towing logs from boom at tidewater to Bellingham. Τo arrive at such an average cost the official or contractual rates for towing such logs to Bellingham have been weighted by the quantity of logs boomed at each point by companies included in the commission's investigation.

Most of the logs produced both in British Columbia and in the United States are boomed at tidewater and subsequently towed to their respective markets, the tidewater mills. Of the 43 domestic operations included in the commission's investigation, 30 boomed logs at tidewater for towage elsewhere. Logs from 13 of these 43 operations were delivered to inland mills and were not boomed at tidewater. These 13 operations, therefore, are not included in the calculation of the weighted average cost of towing logs from boom at tidewater to Bellingham.

Calculated by the method outlined above, the weighted average cost of towing domestic logs from boom at tidewater to Bellingham is \$1.09 per 1,000 feet; the weighted average cost of towing Canadian logs from boom at tidewater to Bellingham is \$1.60 per 1,000 feet.

The weighted average cost of production in the United States of logs of fir, spruce, cedar, or Western hemlock, including costs of transportation to Bellingham calculated by the above method, is \$17.72 per 1,000 feet. The weighted average cost of production in Canada of like or similar logs, including costs of transportation to Bellingham calculated by the above method, is \$16.57 per 1,000 feet. The average cost of production in the United States exceeds the average cost of production in Canada by \$1.15 per 1,000 feet.

The Canadian timber tax.—In the statement by Commissioners Marvin, Brossard, and Lowell the following views are expressed in regard to the Canadian timber tax:

There are two possible heads under which the timber tax imposed by Canada might be considered for the purposes of section 315—as an item in Canadian costs of production under subdivision (a) of that section; or as an advantage or disadvantage in competition under clause 4 of subdivision (c).

Though a timber tax in name, this tax is in effect a restriction upon exportation or an export tax upon the logs in question, and has been so construed by the United States Customs Court. The tax, which amounts to \$2 per 1,000 feet on grade No. 1, \$1.50 per 1,000 feet on grade No. 2, and \$1 per 1,000 feet on grade No. 3, is levied on all logs cut from certain lands (described in detail on pages 6 and 7 of Part I of the commission's report), but is remitted if the logs are manufactured into lumber in Canada, and is actually collected and paid only if the logs are exported. According to the evidence before the commission, it is Canada's policy to restrict the exportation of logs and promote their manufacture into lumber in Canada, and this timber tax is the effective means by which that purpose is accom-In the application of this tax by the Canadian Government, plished. remitting it on logs milled in Canada and collecting it only if the logs are exported, a governmental advantage in competition is bestowed on Canadian lumber manufacturers, enabling them to get this raw material cheaper than their competitors on the American side, because of the export tax interposed between these Canadian logs and the American mills.

This Canadian timber tax on exported logs can not be considered as an item in the cost of production of British Columbia logs, because it is in effect a tax on exportation and not on production as such; it was paid on less than half of the logs imported from British Columbia in 1925 and 1926, and is not paid at all on the much larger quantity of Canadian logs which compete in the form of lumber and shingles.

In appraising the advantages and disadvantages in competition on either side it is impossible to consider the logging industry apart from the lumber industry because the effect of the tax on the one can not be separated from its effect upon the other. By means of this tax a competitive governmental advantage is bestowed on the Canadian lumber industry as an integrated whole, in competition with the similar integrated industry on the American side. The Canadian logging industry as a whole benefits by the governmental advantage in competition conferred on Canadian lumber manufacturers by means of this tax, as regards all logs subject to the tax which are manufactured or used in Canada. On the other hand, Canada's tax on exported logs may be considered a disadvantage to certain loggers on the Candian side (at least in the sense that any export tax is an expense incidental to selling the taxed article in foreign markets), as regards that portion of their production on which the tax is actually But the extent of their disadvantage is not determinable; paid. none of these loggers export their entire output, and it is impossible to say how far any disadvantage entailed on the smaller portion of the output which pays the tax may be offset by the advantage accruing on the larger portion which benefits by the remission of the tax.

The same principle applies on the American side. The disadvantage to American lumber mills resulting from Canada's differentially applied timber tax must affect unfavorably the market for American logs, but to what extent is not determinable statistically.

Under the provisions of section 315 the rate of duty to be proclaimed by the President is a rate that will equalize differences in ascertained costs of production in the United States and in the principal competing foreign country. If in the administration of this section export taxes were accepted as an element in costs of production either under subdivision (a) of section 315, or as an advantage or disadvantage in competition under clause 4 of subdivision (c), it would place foreign countries in a position to determine the United States import duties by raising or lowering their export taxes. The adoption of such a method would place foreign countries in a position to frustrate the protective policy of the tariff act of 1922, and would result in a transfer of revenue from the United States to foreign countries; the revenue previously collected here in the form of import duties would be collected in foreign countries in the form of export taxes.

In view of the considerations set forth above, Commissioners. Marvin, Brossard, and Lowell are of the opinion that the Canadian timber tax (export tax) should not be included in ascertaining differences in costs of production for the purposes of section 315. These, commissioners state that this question, however, has never been passed upon, either by the Attorney General or by the courts and that the President may therefore wish to have an expression of opinion from the Attorney General in this matter.

Table B shows the cost comparisons and rates of duty required to equalize differences in costs, according to the findings of Chairman Marvin and Commissioners Brossard and Lowell.

TABLE B.—Logs of fir, spruce, cedar, or Western hemlock: Comparative costs of domestic and foreign logs, 1923. Comparison of total costs including cost of towage to Bellingham of all logs boomed at tidewater and excluding timber tax (or export royalty)

Item	Domestic	Foreign 1
Cost in boom at tidewater Towage to Bellingham ²	\$16.63 1.09	\$14.97 1.60,
Total cost of production, including towage to Bellingham	17. 72	16. 57
of the tariff act of 1922: (a) If towing costs are not included (b) If towing costs are included	\$1. 1.	50 15

[Per 1,000 feet]

¹ All cost items, except those for stumpage, converted into United States dollars at the rate of \$0.980352[•] per Canadian dollar. ³ Weighted average calculated by applying to the towing rates from the several booms to Bellingham, the quantity of logs boomed at each of these points by companies included in the commission's investigation.

In the section of the report signed by Vice Chairman Dennis and concurred in by Commissioners Costigan and Dixon, the view is expressed that the Canadian export tax can not be ignored and should be considered as "an advantage or disadvantage in competition."

With respect to towage charges, Vice Chairman Dennis states:

All commissioners agree that Puget Sound is the principal area of competition, with Bellingham, Wash., within 40 miles of the international boundary, the prinwith Bellingham, Wash., within 40 miles of the international boundary, the prin-cipal market in the United States for logs of Canadian origin. Commissioners also agree that the average cost of towing 44,502,000 feet of British Columbia logs to Bellingham in 1923 was \$1.77 per 1,000 feet. It is also agreed that some 95,-000,000 feet of domestic logs were actually towed to Bellingham in 1923 at an average towage cost of \$0.44 per 1,000 feet. The difference between the two-figures correctly represents the difference in towage charge as between foreign and domestic logs to the principal competitive market on Puget Sound. But the

elementary mathematical proposition fails to command the assent of certain commissioners. They would substitute for an actual towage expense a paper towage rate on hypothetical logs which do not move.

The undersigned commissioners are unalterably opposed to the substitution of fiction for fact in a report sent to the President of the United States for his assistance. No reflection is cast upon any other commissioner's candor, nor upon the honesty of his judgment. A self-deceived person may in perfect honesty pass on his deception to another person. It remains a deception none the less.

A report to the President which ignores an export tax which is actually paid and substitutes for a domestic towage expense actually incurred a fictitious towage charge that is not incurred on hypothetical log rafts which do not move, is a travesty upon accepted fact, and as such tends to mislead the President rather than assist him in the correct determination of a rate that will equalize costs of production.

To substitute fiction for reality in reports to the President is to lay the ax to the root of the tree, since it means the employment of the flexible tariff to prevent the accomplishment of the very things it was intended to do.

POINTS IN THE TOWAGE CONTROVERSY

"Towage," as accepted by the industry, describes in a single word the process of transporting logs from boom at tidewater to market. Logs find at once their proper objective and their ultimate market at sawmills. The greater the concentration of sawmills, the bigger and broader the market for logs. In British Columbia logging is more of a frontier industry than in the State of Washington. The terrain on both sides of Georgia Strait in British Columbia for a distance of 300 miles is sparsely settled with no important rail heads outside of Vancouver, and no important cities except Vancouver and Victoria. The Canadian loggers work at arm's length from the mills they serve. It frequently happens that their logs must be towed from 70 to 280 miles in order to reach their terminal market.

Quite a different situation prevails on the American side of the line. Industry in the State of Washington has grown apace with great sawmill centers springing up around the littoral of Puget Sound in obedience to the economic law which tends to provide the domestic output of logs with convenient markets. The entire development of the industry has tended to shorten the transport of heavy logs to terminal markets. Puget Sound logs attain their terminal markets on short hauls, with correspondingly light towage charges. The cities of Seattle, Everett, and Tacoma with their great sawmill concentrations absorbed nearly two-thirds of the logs which actually moved in 1923 from booms at tidewater to mills. Four important trunk-line railroads serve various points on Puget Sound.

The most important sawmill concentration on the sound, Tacoma (26 sawmills with an estimated annual capacity of 793,000,000 feet)¹ paid an average towing charge of only \$0.35 per 1,000 feet on approximately 293,000,000 feet of logs towed to that market in 1923.

It is interesting in this connection to note that the water transport costs on all domestic logs actually towed from all Puget Sound points to all Puget Sound destinations in the year 1923 was \$0.50 per 1,000 feet, or only about 7 cents more than the average cost of logs actually towed to Bellingham.

In the face of actual towage expense on actual movement of logs to Bellingham of not more than \$0.50 per 1,000 feet, how do certain commissioners arrive at the surprising figure of \$1.09 per 1,000 feet for domestic towage costs to Bellingham? This figure is arrived at by imaginatively conducting the 1,403,-609,465 feet of the 30 domestic operations whose logs reached tidewater to Bellingham. In other words, the towage charge of \$1.09 represents a purely fictitious and hypothetical movement of logs. Certain commissioners seated in their comfortable offices in Washington with a few strokes of the pen are moving nearly a billion and a half feet of logs to Bellingham when under the dictum of actual circumstances these logs do not so move and under no conceivable condition ever would move to the Bellingham market.

If Canadian logs were entirely excluded from the Bellingham market the domestic logger could only hope to benefit in the Bellingham market by the amount displaced by the Canadian imports. Canadian imports in the year 1923 carried to Bellingham amounted to 64,501,000 feet, or 4.6 per cent of the 1,403,609,000 feet of domestic logs put in tidewater by 30 of the operations

¹ Computed on a basis of 275 days' operation.

covered by the commission's investigation. These 64,500,000 feet represented in 1923 the maximum advantage in increased market volume which domestic logs would have secured through an embargo on Canadian imports. But an embargo is quite outside the pale of this discussion. The maximum change in rate under the flexible provision of the tariff act amounts to no more than 50 per cent up or down in the existing tariff level. But conceding the possibility of enlarging the American market up to the limits of the amount displaced by Canadian imports, what is this figure of 64 500 2020 feet all works in the ended by Canadian imports.

But conceding the possibility of enlarging the American market up to the limits of the amount displaced by Canadian imports, what is this figure of 64,500,000 feet alongside the 1,403,609,000 feet of domestic logs actually reaching boom at tidewater in the operations considered by the commission? What forces are in motion, economic or political, that would take a billion and half feet of logs to a relatively poor and feeble market, Bellingham, when they are disposed of to better advantage in great near-by markets such as Seattle, Everett, and **Tacoma**?

The Puget Sound logger is not a metaphysician. He is a practical business man who in obedience to simple economic law sells his product in the most convenient markets. He obtains no market advantage whatever in towing his logs 69 miles beyond Everett, which in 1923 cut 2,395,000 feet of timber daily, to the relatively poorer market of Bellingham which in 1923 cut only 1,345,000 feet daily.

The practical, unimaginative logger interested in profits rather than in metaphysical abstractions, sells his logs in near-by convenient markets and so avoids unnecessary towing expense.

It is difficult to give a patient hearing to the grotesque doctrine, unsupported either by practical loggers or the Tariff Commission's expert examiners, that domestic costs of production must be saddled with a theoretical transportation charge on logs that are not actually transported to Bellingham. If there were no Canadian competition whatever, the domestic loggers could not and would not offer more than a small fraction of their logs for sale in Bellingham, since Bellingham offers but a sorry and limited market when compared to the enormous sawmill concentrations at other points which have and will continue to absorb the bulk of the Puget Sound log output.

Apply this doctrine of fictitous transportation to the steel industry. Let us take for purposes of illustration New York City as the principal competing market. The transportation costs of domestic steel plants actually moving their product to New York would naturally be compared with the actual transportation cost on European steel that moves to New York.

In contesting the obvious, however, one may point out that promising steel plants have been established in such remote sections of the country as Utah, Colorado, and Texas. These plants find a ready market for their output in nearby consuming centers such as Salt Lake City, Denver, Galveston, or even Chicago. None of this steel actually moves to New York City, nor would it so move if no foreign steel whatever were imported. The reason is plain. The domestic producer in attempting to sell steel in an eastern market on a haul of 1,000 to 1,500 miles would have no chance as against the domestic Pittsburgh producer who is selling his steel in the same market on a haul of one-third the distance.

who is selling his steel in the same market on a haul of one-third the distance. Exactly the same reasoning applies to logs. The logger operating in the southern reaches of Puget Sound would be working absolutely against his own interest in attempting to sell logs in the northern part of the Sound near the Canadian border. He would be matching his long-haul charges against the short haul of his northern competitors. He would be overwhelmed by domestic competition.

Transportation charges are necessarily based on movement. No transportation expense without a movement. A comparison of towage costs is indisputably based on actual rather than theoretical movement.

A great gathering of domestic loggers attended the public hearing in Seattle, August 4, 5, 6, and 7, 1925. No witness who appeared in opposition to the application for a reduction in the log duty offered testimony in favor of theoretical towage charges to Bellingham. The doctrine of theoretical towing costs originated with Mr. Stephen V. Carey, the learned attorney for the domestic Loggers' Information Association.

Mr. Carey puts this hypothetical question to one of his witnesses (p. 467, transcript of log hearing, August 6, 1925): "In other words, you do not think it would be fair to exclude your Phoenix operation, for instance, from the Bellingham market by allowing the Canadians to charge off \$1.76 to bring their logs into Bellingham and not allow you \$1.75 to bring your logs from Phoenix to Bellingham?"

The witness replied: "That is the way it appears to me." This is about the only testimony which the record supplies as to the views of practical logging men on the subject of the theoretical transportation of logs. "That is the way it appears" to the witness. How does Mr. Carey's question

appear to the seeker for the truth in this matter of comparative towage charges? First, logs are not moved from the Phoenix operation at Potlatch to Bellingham; second, if they were so moved they would pay an average towage rate of \$1.26 rather than \$1.75; third, if the domestic logger marketing his product on a short transportation radius is to be allowed the same towage charge which the Canadian is compelled to pay on his longer towage radius, how is this fictitious award to be entered as an item in production costs? If in some future case the domestic transportation item happens to exceed the foreign transportation item, would a demand be heard for bringing them both down to exactly the same level?

It is interesting to note that Mr. Carey, the original proponent of theoretical towage costs, is not convinced of the soundness of his own theory. He resumes discussion of the subject in his reply brief, page 14, proceeding at first to offer the suggestion that "towage charges are not a proper item to be taken into consideration at all." Under a subsequent ruling of the Attorney General the David Comparison by the matter of the matter of the such shares Tariff Commission has no option about the matter. It must take such charges into consideration. Mr. Carey refers to the displacement of American logs at Bellingham by Canadian logs and points out that the domestic towage average is lowered by the amount of logs which might have moved to Bellingham had they not been excluded by the competing Canadian logs.

Accepting this view at its face value, the few million feet of logs which are unable to find their market at Bellingham because of Canadian competition (64,501,000 feet) are but a minor factor in the equation when compared to the 1,403,609,000 feet of domestic logs that actually did move from their booms at tidewater to terminal markets. Because 64,500,000 feet of logs are possibly excluded from the Bellingham market is no reason to ask that all logs included in the domestic operation be given the benefit of theoretical towage to Bellingham, a market to which they do not and would not move.

As a conclusion to the whole matter of towage charges, Mr. Carey may again be quoted (p. 14, reply brief Loggers' Information Association): "We again venture the suggestion that towing charges are not a proper item to be taken into consideration at all, but even though some of the commission should disagree with us on that as an abstract proposition, nevertheless, it is clear that the only way to get these charges on a comparable basis is to compare the cost of towing Canadian logs that actually move to Bellingham with the cost of towing Ameri-can logs that actually move to Bellingham." Thus Mr. Carey, and those for whom he speaks, though advocating a higher

duty on domestic logs, abandon the fantastic suggestion of certain commissioners as to hypothetical towage and range themselves squarely with the view here maintained that the only comparable basis for towage charges is to compare the costs of towing Canadian logs that actually move to Bellingham with the cost of towing American logs that actually move to Bellingham.

Table C shows cost comparisons and the duty required to equalize differences in costs according to the interpretation of Vice Chairman Dennis, concurred in by Commissioners Costigan and Dixon.

TABLE C.—Logs of fir, spruce, cedar, or Western hemlock: Comparative costs of domestic and foreign logs, 1923. Comparison of total costs, including cost of towage, based on actual movement of logs in 1923 and with and without timber tax (or export royalty)

· Item	Domes- tic, 43 opera- tions	For- eign, 20 opera- tions	
Total cost in boom at tidewater. Average timber tax (export royalty) Average towage paid on actual movement of logs: (1) For domestic on Puget Sound and for foreign to Bel- lingham. (2) On both domestic and foreign logs to Bellingham	\$16. 63 1. 50 3. 44	\$14. 97 . 92 ² 1. 77 ³ 1. 77	
 Total cost, including towage paid on actual movement of logs and timber tax (export royalty): (1) For domestic on Puget Sound and for foreign to Bel- lingtham. 	17. 13	17.66	Canadian costs exceed United States costs by: \$0.53.
(2) On both domestic and foreign logs to Bellingham Maximum reduction indicated in each case. Total cost, including towage paid on actual movement of logs but excluding timber tax (export royalty):	17.07	17.66	.59. United States costs ex- ceed Canadian costs by:
 For domestic on Puget Sound and for foreign to Bellingham. On both domestic and foreign logs to Bellingham	17.13 17.07	16. 74 16. 74	\$0.39. .33.

[Per 1,000 feet]

 Towage paid in 1923 by 37 sawmills on Puget Sound on 1,075,565,931 feet.
 Towage paid in 1923 by 6 Canadian loggers to deliver a total of 44,502,000 feet of logs to Bellingham mills.
 Towage paid in 1923 by 3 sawmills at Bellingham on 95,040,112 feet of domestic logs purchased from loggers.

(d) EFFECT OF CHANGES IN DUTY ON IMPORTS AND PRICES

Paintbrush handles.—A proclamation by the President under the date of October 14, 1926, decreased the rate of duty on paintbrush handles from 331/3 per cent ad valorem to 162/3 per cent ad valorem. The lower rate of duty became effective November 13, 1926. Comparisons of imports under the old and new rates of duty can not be made because statistics were not compiled on paintbrush handles prior to November, 1926. Imports, by months, under the lower rate of duty are shown in the following table.

Paintbrush handles: Imports for consumption, by months, November 13, 1926, to July, 1929

	V	alue of import	ts
Month	From Canada	From Germany	Total
1926 November December	\$69 1, 496	\$123 255	\$19 2 1, 751
1927 February March April May June July September	$1, 496 \\ 1, 361 \\ 1, 298 \\ 1, 325 \\ 543 \\ 946 \\ 880 \\ 2, 424$	96 80 136 689 281 164 1, 430 10 910	1, 592 1, 441 1, 434 2, 014 824 1, 110 2, 310 2, 434 910
October	1, 048 1, 460	681 90 186	681 1, 138 1, 646

Month			
	From Canada	From Germany	Total
1928			
January	\$504	\$243	\$747
February	1,609	150	1,759
March			1, 269
April	693	350	1, 043
May	2, 575	154	2, 729
June	1, 483	1, 274	2,757
July		961	1 3, 542
August		1, 185	3, 846
September	. 3, 645	212	3, 857
October		347	2 4, 746
November	1,701	107	1, 808
December	1, 754	720	2, 454
1929		; I	
January	1, 918	71	1,989
February		392	² 3, 698
March		448	1,778
April		1, 822	4, 135
May		298	1,762
June		857	4 5, 810
July		1,147	\$ 4, 021

Paintbrush handles: Imports for consumption, by months, November 13, 1926, to July, 1929-Continued

Includes imports of \$27 from United Kingdom.
 Includes imports of \$661 from Japan.
 Includes imports of \$8 from Italy.

⁴ Includes imports of \$2,295 from France. ⁵ Includes imports of \$774 from France.

SCHEDULE 5. SUGAR, MOLASSES, AND MANUFACTURES OF

(a) GENERAL STATEMENT

The sugar division deals with all commodities covered in Schedule 5, except the rare sugars used as chemicals. It also considers chicle, used in the manufacture of chewing gum provided for in Schedule 1, and honey provided for in Schedule 7. The most important products in the schedule are sugar, sirup, edible and inedible molasses, dextrose, and maple sugar and sirup.

It is the aim of this, as of other divisions, to keep all available information as nearly as possible up to date and in form for distribution when needed. Particularly does the division keep itself informed as to production, imports, exports, available supply, value, prices, and duties for the products in the schedule. In production, the division is concerned not only with the output of continental United States and noncontiguous areas, but with that of all foreign countries, especially those from which a part of the domestic supply comes. Imports show the grades of the products such as sugar and molasses and the countries They also distinguish between full-duty and preferential of origin. Cuban imports. Exports indicate the principal purchasing countries as well as the total export trade in sugar and related products.

[•] During the past year a large part of the time of the division was spent in collecting and assembling information for the use of the committees of the Congress and for others interested in the readjustment of the tariff rates of Schedule 5.

(b) SURVEYS AND SPECIAL STUDIES

(1) CANE AND BEET SUGAR

The world production of both cane and beet sugar continues to In cane sugar the increase has been particularly marked increase. in Cuba, Hawaii, Porto Rico, the Virgin Islands, the Phillippines, and

In beet sugar the increase has been large in Europe and in Java. some of the less important producting areas.

The following table shows the world production of cane and beet sugar compared with the Cuban cane and with the total United States production, including Hawaii, Porto Rico, Virgin Islands, and the Philippines, and the ratio of Cuban and United States production to world production in specified years.

		All countries			Ratio of	United States, Porto Rico,	Ratio of United	
Year	Cane	Beet	Total	Cuba	Cuban produc- tion to total	Hawaii, Virgin Islands, and Philippines	and island produc- tion to	
1914 1919 1923 1928 1929	Short tons 10, 977, 720 13, 344, 192 14, 735, 642 18, 252, 939 1 19, 702, 491	Short tons 9, 671, 135 4, 348, 963 5, 826, 980 10, 107, 246 1 10, 378, 022	Short tons 20, 648, 855 17, 693, 155 20, 562, 622 28, 360, 185 1 30, 080, 513	Short tons 2, 909, 460 4, 448, 389 4, 035, 259 4, 493, 123 1 5, 775, 073	Per cent 14.09 25.14 19.62 15.84 19.20	Short tons 2, 282, 719 2, 273, 423 2, 198, 009 3, 516, 492 3, 418, 977	Per cent 11. 05 12. 85 10. 69 12. 40 11. 37	

World production of cane and beet sugar in specified years, 1914-1929

¹ Estimated.

During the last 10 years the increase in sugar production in Cuba and in the United States, including noncontiguous territories, has been marked, but in neither country has it kept pace with the increase in the world production.

The following table shows for the last 10 years the acreage and production of sugar in continental United States and in each of the islands from which duty-free shipments are received. It will be noted that there has been little change in the total sugar production in continental United States during these years, but that in Hawaii, Porto Rico, and the Philippines production has increased 50 to 200 per cent, the increase for the group of islands being about 85 per cent.

Acreage of beets and cane and production of sugar in the United States and noncontiguous territory, 1913-14 and 1918-19 to 1928-29

	United States (continental)								
		Beet							
Year		Sugar p	roduced	Louisiana cane					
	Harvested ¹	Refined ²	Raw equiv- alent ³	Harvested 1	Sugar pro- duced ²				
1913–14 1918–19 1919–20 1920–21 1921–22	Acres 580,000 593,010 692,455 871,676 814,988 520,000	Short tons 733, 934 755, 879 731, 312 1, 085, 749 1, 020, 533	Short tons 785, 309 808, 791 782, 504 1, 161, 751 1, 091, 970 102, 102	Acres 248,000 231,200 179,900 182,843 226,366	Short tons 300, 537 280, 898 120, 999 169, 116 324, 429				
1922-23 1923-24 1924-25 1925-26 1925-27 1927-28 1927-28 1928-20 ¢	530,000 657,000 817,000 653,000 687,000 732,000 654,000	689, 848 881, 683 1, 091, 087 900, 972 897, 396 1, 081, 070 1, 039, 643	738, 137 943, 401 1, 167, 463 964, 040 960, 214 1, 156, 745 1, 112, 418	241, 433 217, 259 163, 000 190, 000 128, 000 73, 000 138, 000	295, 095 162, 024 88, 482 139, 381 47, 165 70, 792 132, 054				

¹ From U. S. Department of Agriculture Yearbooks and Concerning Sugar.
 ² From Willett & Gray's Weekly Statistical Sugar Trade Journal. (Figures converted from long tons.)
 ³ Sugar production statistics are on a raw basis, except domestic beet sugar, which is reported as refined. For purposes of comparison and combination refined beet sugar has been converted to a raw equivalent by multiplying the refined tonnage by the conversion factor 1.07.
 ⁶ Preliminary.

Acreage of beets and cane and production of sugar in the United States and non-contiguous territory, 1913-14 and 1918-19 to 1928-29—Continued

	Hawaii, cane		Porto Rico, cane Philippines, no cane ter		cane Porto R		noncor	States and ntiguous y,4 cane et
	Harvest- ed ¹	Sugar pro- duced 2	Harvest- ed ¹	Sugar pro- duced ²	Culti- vated	Sugar pro- duced ²	Harvest- ed or cul- tivated	Sugar pro- duced 3
1913-14 1918-19 1920-21 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29	119, 800 119, 700 114, 100 113, 100 124, 000 114, 000 111, 000	Short tons 617, 036 601, 710 569, 485 562, 457 536, 999 701, 432 775, 940 789, 992 811, 331 904, 042 929, 600	Acres 209, 378 256, 431 238, 901 240, 151 241, 372 244, 180 239, 676 236, 600 240, 010 242, 745 236, 148 237, 746	Short tons 364,024 406,132 485,884 491,113 405,935 379,070 447,972 660,531 606,463 630,200 751,331 \$595,840	Acres 435, 188 507, 818 494, 692 487, 783 596, 364 595, 066 561, 634 561, 386 591, 491 572, 645 586, 254	218, 724 234, 456 286, 544 378, 739 295, 049 417, 012 650, 792 489, 110 654, 347	Acres 1, 587, 166 1, 708, 259 1, 725, 648 1, 996, 553 1, 992, 190 1, 734, 679 1, 789, 569 1, 789, 569 1, 789, 569 1, 789, 560 1, 752, 699 1, 751, 944	Short tons 2, 327, 598 2, 316, 255 2, 193, 328 2, 673, 086 2, 763, 530 2, 244, 350 2, 671, 841 3, 343, 208 2, 671, 841 3, 343, 208 3, 103, 257 3, 580, 338

 From U. S. Department of Agriculture Yearbooks and Concerning Sugar.
 From Willett & Gray's Weekly Statistical Sugar Trade Journal. (Figures converted from long tons.)
 Does not include the Virgin Islands, which produced from 2,000 to 14,000 tons of sugar annually during the period covered in this table. ⁵ Preliminary.

⁶Cane crop severely damaged by storm.

The following table shows the quantity and value of sugar imported into continental United States from Cuba and from countries paying full duty.

Imports of sugar from Cuba and from countries paying full duty 1

	Quantity	' Value	Duty	Value per pound	Com- puted ad valorem rate
1923: Cuba Full duty 1924:	Short tons 3, 401, 520 187, 248	\$330, 392, 209 18, 363, 177	\$119, 175, 211 8, 300, 170	\$0. 049 . 049	Per cent 36.07 45.20
Cuba Full duty	3, 718, 806 109, 820	317, 519, 119 9, 578, 487	130, 250, 321 4, 848, 785	. 043 . 044	41. 02 50. 62
Cuba Full duty	3, 901, 732 27, 842	199, 432, 871 1, 803, 304	136, 741, 660 1, 269, 170	. 026 . 032	68.56 62.49
Cuba ² Full duty 1927:	4, 120, 676 19, 741	191, 431, 294 1, 312, 821	144, 523, 576 904, 779	. 023 . 033	75. 50 68. 92
Cuba ² Full duty 1928:	3, 690, 827 10, 029	210, 011, 427 665, 779	129, 584, 264 459, 633	. 029 . 033	61. 70 69. 04
Cuba Full duty	³ 3, 299, 092 22, 309	159, 937, 213 1, 320, 441	116, 099, 558 1, 045, 134	. 024 . 030	72.59 79.15

¹ The rate of duty on sugar imported from Cuba is 20 per cent below the full duty rate.
² Production was limited by decree of the President of Cuba.
³ Cuban exports to the United States were limited by presidential decree to not over 3,000,000 long tons.
⁴ The Cuban limitations on production and exports have been removed and do not affect the 1929 crop.

The consumption of sugar in continental United States has averaged over 6,000,000 tons annually during the past four years, or from 101 to 109 pounds per capita. About one-half of the sugar consumed in continental United States comes from Cuba under preferential rates, less than 1 per cent paying full duty. The sources of supply and the per capita consumption of sugar in continental United States are shown in the following table.

Sources of supply and per capita consumption of sugar in continental United States, 1913 and for 1919-1928 1

					S	ource of	supply	,				
Year	Total con- sump- tion (short	Contine United S (cane and	tates	Hawaii, Rico, a Virgin Is (duty- cane	and lands free	Philip Islar (duty .can	ids -free	Cubs (prefe ential	r-	Oth count (full di	ries	Per capita, con- sump- tion
	tons)	Short tons ²	Per cent of total	Short tons	Per cent of total	Short tons	Per cent of total	Short tons	Per cent of total	Short tons	Per cent of total	(pounds)
1913 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928	$\begin{array}{c} 4, 192, 316\\ 4, 555, 792\\ 4, 574, 833\\ 4, 600, 207\\ 5, 703, 889\\ 5, 354, 366\\ 5, 437, 016\\ 6, 171, 267\\ 6, 351, 895\\ 5, 932, 696\\ 6, 207, 753\end{array}$	1, 187, 627 612, 559 1, 368, 667 1, 313, 732 1, 229, 336 927, 514 1, 135, 384 1, 058, 031 918, 785	26. 07 13. 39 29. 75 23. 03 22. 96 17. 06 18. 40 16. 66 15. 49	907, 189 824, 295 964, 605 870, 685 797, 972	19. 91 18. 02 20. 97 15. 26 14. 90 17. 51 20. 85 19. 09 21. 21	81, 212 127, 734 146, 908 240, 183 221, 677 297, 241 453, 461 350, 250	$\begin{array}{c} 1.78\\ 2.79\\ 3.19\\ 4.21\\ 4.14\\ 5.47\\ 7.35\\ 5.51\\ 8.20\end{array}$	2, 315, 097 2, 389, 743 2, 090, 091 3, 237, 439 2, 966, 010	50. 82 52. 24 45. 44 56. 76 55. 40 58. 18 52. 79 58. 04 54. 99	64, 667 620, 502 29, 936 41, 850 139, 371 97, 260 37, 867 44, 556 6, 234	$1.42 \\ 13.56 \\ .65 \\ .74 \\ 2.60 \\ 1.78 \\ .61 \\ .70 \\ .11$	85. 43 86. 56 84. 47 103. 18 95. 63 95. 90 107. 50 109. 30 100. 95

¹ From Willett & Gray's Weekly Statistical Sugar Trade Journal.
 ³ Includes small quantities of domestic maple sugar and sugar made from duty-free molasses.
 ³ Virgin Islands not included.
 ⁴ Production of sugar in Cuba was limited by presidential decree to 4,500,000 long tons in 1926-27 and to 4,000,000 long tons in 1927-28.
 ⁴ Exponent of sugar in Cuba to the United States are limited by the state of the state

* Exports of sugar from Cuba to the United States were limited by presidential decree to not over 3,000,000 long tons.

In 1928 the refined sugar consumed in the United States amounted to approximately 6,222,800 short tons, the equivalent of 6,658,400 short tons, raw-sugar basis.

The following table¹ shows the principal uses of sugar in the United States; the approximate quantity consumed in households, in hotels, and restaurants, and in each of the products listed; also the per capita consumption and the percentage of sugar used for each of the purposes mentioned, so far as the data are available.

	Quantity 1 (short tons)	Per capita (pounds)	Percent- age
Household Hotels and restaurants Bakery products Beverages Ice cream Condensed milk Candy Canned goods Miscellaneous	4, 136, 673 157, 009 654, 206 340, 187 172, 710 86, 879 512, 897 68, 037 94, 206	$\begin{array}{c} 68.87\\ 2.62\\ 10.84\\ 5.70\\ 2.90\\ 1.50\\ 8.50\\ 1.12\\ 1.59\end{array}$	66.5 2.5 10.5 5.5 2.8 1.4 8.2 1.1 1.5
Total	6, 222, 804	103.64	100, 0

¹ Refined basis.

From 1919 to 1928 the price of raw sugar in New York (c. & f.) declined from an average of 6.36 cents per pound to 2.45 cents. This

¹ Basic figures taken from the Sugar Index: B. W. Dyer & Co., New York, Aug. 27, 1929.

decline was not uniform from month to month or from year to year, prices fluctuating at times within wide limits, as shown in the following table.

Monthly price quotations on raw sugar, Habana and New York, 1919–1928 (cents per pound)

1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 Month 3.71 4.27 4.41 3.83 2.07 2.68 January_____ 5.04 10.83 3.24 4.47 2.47 2.53 2.97 2.86 2.48 2.22 2.43 2.39 2.41 2.32 2.24 2.14 2.04 1.93 1.67 1.97 2.09 2.14 2.63 3.21 3.19 5.12February..... 5.04 5.04 10.26 10.57 4.49 5.21 4.83 2. 66 2. 41 2. 29 2. 33 2. 20 2. 28 2. 19 2.01 2.73 March..... 5. 71 5. 89 5. 69 4. 85 5.04 15.08 4.23 2.08 2.12 2.09 2.07 2.15 2.31 2.43 2.69 4. 25 3. 54 3. 04 3. 03 3. 26 3. 73 3. 90 5.04 5.04 5.04 5.04 5.04 2.03 2.77 2.60 2.48 19.43 18.20 15.22 3.44 June_ 2.59 2.83 2.25 2.11 2.09 1.90 July_____ 2. 48 2. 46 2. 74 2. 59 2. 58 2. 52 4, 23 4, 64 5, 58 5, 10 August. 10.95 - - - - - - - - -5.04 5.04 3. 33 3. 23 September_____ 6.70 1,82 October November_____ 5 04 5.15 3.46 3.78 3.30 1.97 2.56 1.89 December 10.50 3.49 3.57 5.17 1.99 1.94 2.26 5.50 11.44 3.03 2.77 4.98 3.85 2.30 2.67 Average 2.20 IN NEW YORK' 4C. & F. 5.88 12 00 4.34 4.25 2.05 4.94 3, 52 4, 38 2.82 2.40 January_ 3.28 $\begin{array}{c} 2.\ 75\\ 2.\ 48\\ 2.\ 73\\ 2.\ 69\\ 2.\ 72\\ 2.\ 56\\ 2.\ 45\\ 2.\ 39\\ 2.\ 24\\ 2.\ 16\\ 2.\ 09\\ 2.\ 17 \end{array}$ 2.05 2.14 2.31 2.39 2.44 2.98 5.88 10.34 5.45 5.12 2, 45 2, 56 2, 33 2, 42 2, 37 2, 38 2, 46 2, 66 2, 80 2, 93 2.84 3.15 February_____ March_____ 2. 96 2. 67 2. 54 2. 64 2. 51 2. 58 2. 49 2. 01 2. 27 2. 36 5.88 10.81 4.95 5.50 3.02 5.88 5.88 5.88 5.88 5.88 4. 41 3. 83 3. 43 April..... 16.60 6.03 4.59 3.03 19.25 6. 23 5. 66 May..... 3.85 3.31 4.06 2.86 18.62 June 2.86 2.76 2.74 3.02 2.91 2.88 July__ 16.50 3.00 3.54 5.16 3.34 -----August_____ September_____ 10. 30 12. 31 9. 65 7. 25 5. 75 3. 19 2. 93 2. 56 2. 50 2. 11 4. 28 5. 19 5. 81 5. 50 3. 61 4. 17 4. 25 4. 03 3.56 3.17 3.64 5.88 5.88 5.88 October_____ November_____ 5.88 11.58 3.83 December_____ 4.38 3.91 5.53 3.36 3.33 2.81 Average_____ 6.36 11.96 3.46 3.00 5.22 4.17 2.56 2.59 3.04 2.45

IN HABANA¹

 1 From Industria Azucarera and Revista Azucarera (H. A. Himely). Figures were averaged from quotations given for various sections of Cuba. 2 No sales.

³ Average of weekly quotations in Willett & Gray's Weekly Statistical Sugar Trade Journal.

* Prices for 1919 under Government control.

It will be noted from the above table that the annual average price of raw sugar in New York (c. & f.) for the past four years has been 2.66 cents.

(2) SUGARCANE

In 1913, 4,214,000 tons of sugarcane were grown in Louisiana for the production of sugar. The ravages of disease and of insects caused a decline over a period of years, culminating in the low yield of 864,000 tons in 1926; the next year there was an increase, and in 1928 production advanced to 2,244,000 tons.

Most of the cane used in the production of sugar in continental United States is grown in Louisiana; small quantities are grown also in Texas and in Florida. For making sirup, cane is grown over an area of more than 100,000 acres scattered mostly in small patches throughout eight of the Southern States. The tonnage of cane used in making sirup is not stated, as most of it is milled without weighing.

Since 1870 there have been frequent importations of sugarcane in small quantities into continental United States, but the records do not disclose the origin or the port of entry, nor do they show in all cases the purpose for which the cane was imported. The smallness of these importations indicates that they were intended for planting and not for the immediate production of sugar.

Since 1913 Porto Rico has received each year considerable quantities of cane from Santo Domingo for the direct production of sugar. From 1906 to 1922 Cuba also supplied Porto Rico with small quantities of cane, but after 1922 there is no record of imports of cane from Cuba.

Prior to 1923 only the values and not the quantity of the imported cane were shown in the records, the rates of duty being assessed on an ad valorem basis. These ad valorem rates ranged from 10 to 20 per cent; under the act of 1909 the rate was 10 per cent and under the act of 1913, was 15 per cent. The act of 1922 levied the specific rate of \$1 per ton on sugarcane in its natural state.

The following table shows the quantity of cane imported into Porto Rico since 1923, its value, duty collected, unit value, and calculated ad valorem rates of duty.

Calendar year	Rate of duty	Quan- tity	Value	Duty collected	Value per unit of quan- tity	Com- puted ad valorem rate
1923	\$1 per ton	Tons 74, 857 109, 430 204, 010 220, 105 185, 434 228, 777	\$247, 058 360, 356 668, 779 726, 881 642, 248 800, 755	\$74, 857 109, 430 204, 010 220, 105 185, 434 228, 777	\$3. 300 3. 293 3. 278 3. 302 3. 463 3. 500	Per cent 30, 30 30, 37 30, 50 30, 28 28, 87 28, 57

Imports of sugarcane into Porto Rico, 1923-1928

(3) DEXTROSE AND DEXTROSE SIRUP

Dextrose and dextrose sirup are made in commercial quantities from starch—in the United States usually from cornstarch and in Europe from potato starch.

In making dextrose and dextrose sirup the usual process is to boil the starch with diluted hydrochloric acid, which causes the starch to combine with water, after which it is neutralized and decolorized and then by evaporation, concentrated. If boiling with acid and evaporation are carried far enough, a solid known as dextrose, corn sugar, or grape sugar is produced. When these processes are discontinued at a relatively early stage, dextrose sirup or glucose results.

The combined production of dextrose and dextrose sirup increased from 157,276,442 pounds in 1919 to nearly 1,800,000,000 pounds (about 900,000,000 pounds of each) in 1927. It is estimated that in 1928 the production of dextrose was over 969,000,000 pounds and of dextrose sirup over 1,100,000,000 pounds. Imports of these two products are insignificant, amounting to from 209 to 3,000 pounds annually since 1923. Exports of dextrose ranged from 3,000,000 to 10,000,000 pounds annually from 1923 to 1928 and of dextrose sirup for the same period from 123,000,000 to 172,000,000 pounds.

The rate of duty on imports of both dextrose and dextrose sirup is $1\frac{1}{2}$ cents per pound.

(4) RARE SUGARS AND LACTOSE

Rare sugars and lactose are compounds belonging to a class of carbohydrates which, because of their composition, are classed as sugars, although they do not compete with sucrose, the principal sugar of commerce.

Rare sugars are used chiefly in bacteriological tests and medicinal diagnoses. Certain bacteria, which can not be identified by other means, are often distinguished by their reactions upon the rare sugars.

Lactose, commonly known as sugar of milk, is found in the milk of all mammals. It has the same composition as cane or beet sugar plus one molecule of water. Whey, produced in the manufacture of cheese and casein, is the basic material for lactose. Upon treatment, it yields from 3 to $3\frac{1}{2}$ per cent of lactose. In the United States the manufacture of lactose has been of commercial importance for many years; 2,872,000 pounds were made in 1923 and 4,385,735 pounds in 1928. In barrel lots, it has for several years been selling at about 21 cents per pound.

Under the present tariff act imports of lactose are included under "other saccharides," but an analysis of the invoices at the principal ports of entry shows that more than 600,000 pounds were imported in 1928, 95 per cent of which came from the Netherlands. The rate of duty upon rare sugars and on lactose is 50 per cent ad valorem.

(5) CANDY AND CONFECTIONERY

Owing to the large quantities of candy made in the home and to the fact that the Bureau of the Census omits from its statistics the output of small shops whose production is valued at less than \$5,000, the exact production of candy and confectionery in the United States can not be stated.

In 1921, according to the Bureau of the Census, there were 2,254 establishments manufacturing candy and confectionery (not including those whose production was less than \$5,000 annually). These utilized material worth \$174,071,963 and turned out products valued at \$313,997,573. By 1925 the number of candy factories had decreased to 1,931. In these the cost of materials used had increased to \$205,432,667, and the value of products made to \$379,081,441.

In 1927 there were 1,908 establishments, utilizing \$213,261,813 worth of material and turning out products valued at \$391,927,343.

The following table shows the production of confectionery, by kinds, in the United States for 1925. The total production of 1,581 commercial manufacturing establishments shows a total or approximately 823,000,000 pounds of confectionery valued at \$210,000,000, or an average of \$0.255 per pound. The table also shows an additional output of confectionery (for which the quantity is not given) to the value of about \$164,000,000. If this represented an average value of \$0.255 per pound, it would represent an additional 644,000,000 pounds of confectionery, indicating that the total output of commercial establishments for 1925 amounted to 1,467,000,000 pounds, or approximately 12 pounds per capita for the population of the United States. The four leading States in the order of output were New York, Illinois, Massachusetts, and Pennsylvania, which, combined, represented approximately 56 per cent of the total production. Confectionery products, by kind, quantity, and value for the United States, 1925

	Quantity	Value	Value per pound
Products of 1,581 establishments: Chocolates— Total	Pounds 295, 704, 297	\$102, 790, 304	\$0. 348;
Fancy packagesBulk	124, 613, 312 171, 090, 985	63, 179, 221 39, 611, 083	. 507 . 232
Bars— Total	248, 976, 565	54, 573, 600	. 219
Chocolate covered	190, 488, 909 58, 487, 656	42, 985, 945 11, 587, 655	. 226 . 198
Hard candy, total Panwork, total All other confectionery	59, 498, 742	31, 702, 191 8, 972, 836 107, 231, 351	. 167 . 151
Salted nuts. Miscellaneous products.	28, 378, 259	12, 178, 011 24, 521, 542	. 429
Total, pound products Total, all products	822, 908, 085	210, 216, 942 341, 969, 835	. 255
Products of 350 establishments Total products, 1,931 establishments		37, 111, 606 379, 081, 441	
Products, not confectionery, included in above reports of 1,931 establishments		17, 501, 248	
Total confectionery, 1,931 establishments Confectionery reported as secondary product of other industries		361, 580, 193 12, 743, 936	
Total confectionery		374, 324, 129	

[Data for establishments with products valued at \$5,000 or over]

The following table indicates a total of 1,301,349,000 pounds of basic materials valued at \$103,955,000, or an average of 8 cents per pound of basic materials used by 1,279 of the 1,931 establishments covered by the census of 1925 in the manufacture of confectionery. These establishments produced 80.6 per cent of the total value of products for the industry as a whole. If these 1,279 establishments also used about 80 per cent of the quantity of basic materials, the total amount of basic materials used amounted to about 1,550,000,000 pounds, valued at about \$124,122,000. Sugar accounts for almost exactly one-half of the basic materials used in the production of confectionery.

Quantity and value of basic materials used in production of confectionery in 1,279 of the 1,931 establishments covered by the census of 1925

Basic materials	Quantity	Cost	Cost per pound
Sugar	$\begin{array}{c} 131,030,000\\ 13,783,000\\ 346,886,000\\ 7,808,000\\ 14,553,000\end{array}$	\$35, 004, 000 6, 170, 000 24, 302, 000 2, 256, 000 12, 383, 000 1, 736, 000 165, 000 17, 191, 000 2, 651, 000 103, 955, 000	\$0. 059 . 106 . 185 . 164 . 036 . 269 . 119 . 082 . 147 . 192 2. 0799

¹ These 1,279 establishments, being 66.2 per cent of all establishments, produced 80.6 per cent of the total value of products for the industry as a whole. ² Weighted average.

⁸¹⁵¹³⁻³⁰⁻⁻¹⁰

The figures in the table above do not include coconut, flavoring sirup, extracts, or other material not specified, nor wax paper, tin, and other foils, or containers.

Imports of candy and confectionery in 1928 paying full duty (40 per cent ad valorem) amounted to 3,630,861 pounds; from Cuba (32 per cent ad valorem) 2,728 pounds; and duty-free shipments from the Virgin Islands, 300 pounds. The value of the full-duty imports was \$955,018, the value of the imports from Cuba was \$737, and of the free shipments from the Virgin Islands, \$100. The duties collected on candy in 1928 were \$382,007.20 on full-duty imports and \$235.84 on Cuban imports.

Exports of candy and confectionery in 1922 amounted to 10,907.913 pounds and in 1923 to 9,773,778 pounds. Although there has been a gradual increase in the quantity and value of candy and confectionerv exported annually since 1923, as shown in the table below, they have not represented one-fourth of 1 per cent of the domestic production, nor have they amounted in value to 1 per cent of the value of the domestic production in any one year.

Year	Quantity	Value	Year	Quantity	Value
1923 1924 1925	Pounds 9, 773, 778 10, 732, 974 11, 294, 651	\$2, 013, 944 2, 053, 552 1, 860, 615	1926 1927 1928	Pounds 11, 401, 824 12, 490, 146 12, 437, 905	\$1, 958, 790 2, 131, 068 2, 147, 087

¹ Not including chocolate confectionery.

The principal foreign purchasers of candies and confectionery other than chocolate produced in the United States in 1927 were United Kingdom, 4,667,843 pounds; Canada, 1,035,420 pounds; Dominican Republic, 782,872 pounds; Colombia, 710,606 pounds; and Cuba, 666,391 pounds. The remainder went to more than 70 other countries.

(6) CHEWING GUM

Chewing gum, although not strictly a confection, is usually considered with confectionery. It is not possible to determine the total quantity manufactured in the United States. The chief ingredients of chewing gum are chicle, sugar, flavoring, and coloring materials. Chicle is usually the base of all chewing gum manufactured; sometimes other gums are used. Sugar comprises from 50 to 70 per cent.

The following table shows the production of chewing gum in the large establishments in the United States.

Production of	chewing	gum in the	United	States for	· specified years
---------------	---------	------------	--------	------------	-------------------

Year	Number of estab- lishments	Wage earners (average number)	Wages	Cost of ma- terials	Value of products	Value added by manufac- ture
1914 ¹	74	2, 048	\$828, 467	\$7, 322, 299	\$17, 159, 607	\$9, 837, 308
	62	3, 190	2, 679, 803	25, 202, 312	51, 240, 156	26, 037, 833
	50	1, 994	2, 148, 675	19, 908, 185	38, 864, 925	18, 956, 740
	45	2, 052	2, 233, 473	15, 487, 188	40, 870, 914	25, 383, 726
	41	2, 180	2, 537, 509	17, 968, 033	47, 838, 150	29, 870, 117
	40	2, 524	2, 727, 236	26, 917, 635	62, 001, 320	34, 833, 816

¹ Data from Biennial Census of Manufactures, 1925. ² Data from Census of Manufactures, 1927. Preliminary.

No imports of chewing gum into the United States are recorded, but 8,709,252 pounds of chicle, valued at \$4,482,932, were imported in 1928; the duties collected were \$870,925.20 and the calculated ad valorem rate of duty was 19.43 per cent. The rate of duty on crude chicle under the act of 1922 is 10 cents per pound.

Exports of chewing gum for the five-year period 1924 to 1928, inclusive, were as follows:

Year	Quantity	Value	Year	Quantity	Value
1924 1925 1926	Pounds 3, 243, 513 4, 387, 701 5, 025, 570	\$1, 463, 228 1, 907, 364 2, 194,⁄276	1927 1928	Pounds 3, 769, 311 3, 027, 396	\$1, 586, 770 1, 352, 474

Exports of chewing gum, 1924-1928 1

¹ From Commerce and Navigation of the United States.

The largest foreign purchasers of chewing gum from the United States in 1927 were United Kingdom, Italy, Canada, the Philippine Islands, Japan, and Mexico. These six countries took over 2,000,000 pounds. The remainder went to 74 other countries.

(7) HONEY

It is estimated that the total commercial production of honey in the United States exceeds 250,000,000 pounds annually. This does not take into account the honey produced on farms where only a few colonies of bees are kept or the large quantity not produced on farms and, therefore, not included in the agricultural census reports.

Large quantities of both strained and comb honey are sold for table use. Confectioners and bakers buy it in carload lots, manufacturers of sirup use it for blending, and canners and manufacturers of preserves use it in quantity in their products. Aside from its consumption as a food and in foodstuffs, honey is also used in medicines and in lotions.

Imports of honey are small, totaling less than 1,000,000 pounds annually. In 1928 dutiable imports amounted to only 97,214 pounds, valued at \$24,763. Of the imported honey, 600 pounds, valued at \$47, came from Cuba. The full-duty rate on honey is 3 cents per pound and the Cuban rate 2.4 cents per pound. Although only a small part of the United States consumption of

Although only a small part of the United States consumption of honey is imported, the domestic export trade in honey is of considerable importance, as shown in the following table:

P	19	27	1928		
Exported to—	Quantity	Value	Quantity	Value	
Germany_ United Kingdom	$\begin{array}{r} Pounds\\ 8, 483, 332\\ 2, 282, 305\\ 423, 425\\ 166, 693\\ 172, 336\\ 1, 400\\ 52, 338\\ 131, 184\\ 187, 509\\ 154, 085\end{array}$	\$687, 532 232, 862 34, 764 15, 211 15, 153 150 6, 702 7, 920 27, 053 25, 296	Pounds 6, 923, 058 2, 263, 794 356, 892 299, 459 250, 875 226, 960 65, 257 45, 329 42, 277 277, 697	\$587, 895 228, 591 28, 689 27, 991 20, 145 8, 370 3, 506 7, 413 38, 031	
Total	12, 054, 607	1, 052, 643	10, 751, 598	970, 941	

Domestic exports of honey, 1927 and 1928¹

¹ Source: Foodstuffs, Round the World, Confectionery Foreign Trade News, Department of Commerce, Apr. 19, 1929.

The wholesale price of extracted honey in 1928 ranged from $7\frac{1}{2}$ to 13 cents per pound in the principal producing areas and in the large consuming centers of the United States. In the same year white clover honey in the comb, put up in 24-section cases, sold in New York and the North Central States for \$4.25 to \$4.80 per case. Although the yearly average price of comb honey has remained approximately constant for the past six years (1923 to 1928, inclusive), the price of extracted honey has tended to decline slightly. For example, the average price of extracted honey in New York and the North Central States in 1923 was approximately 11 cents per pound, in 1926 about $9\frac{1}{2}$ cents per pound, and in 1928 about $8\frac{1}{4}$ cents per pound.

(c) Investigations under the General Powers of the Commission

(1) MOLASSES AND CANE SIRUP

The Tariff Commission has in progress an investigation, under its general powers, of the costs of production of cane sirup, edible molasses, and inedible molasses generally known in the trade as "blackstrap." Most of the data obtained, however, have been made available to the committees of Congress in drafting the new tariff bill.

The following table shows the quantity of cane sirup and edible molasses produced annually in the United States during the last fouryears, together with the imports, exports, and available supply.

Domestic production, imports, and exports of edible molasses and cane sirup, 1925-1928

	Domestic production		Impo	rts	Exr			
Year	Cane sirup	Jana simun EQIDIC aludi		Sirup in- cluding	Molasses 1	Availabl e - supply		
	molasses		Dutiable	Free	maple			
1925 1926 1927 1928	20, 400, 000 22, 172, 000 20, 839, 000 21, 783, 000	11, 560, 650 4, 508, 400 3, 463, 650 8, 705, 750	1, 900, 347 1, 922, 520 1, 676, 627 1, 682, 459	16, 320 18, 021 10, 590 5, 422	4, 444, 695 3, 667, 750 2, 665, 008 3, 023, 860	3, 106, 622 4, 158, 746 6, 093, 143 10, 692, 843	26, 326, 000, 20, 794, 445 17, 231, 716, 18, 459, 928.	

[Gallons]

¹ The grade of molasses exported is not given, hence the figures may include blackstrap.

The quantity of edible molasses made in the Louisiana sugar mills is variable from year to year, the output in any one year depending upon the ripeness of the cane when cut and upon the demand for molasses and, consequently, its price during the grinding season as compared with the price then paid for sugar.

Large quantities of "table sirup" are made from refiners' molasses. According to the Bureau of the Census, the domestic production of refiners' sirup for table use amounted in 1927 to 5,536,808 gallons, valued at \$1,247,054. Later production figures are not available. Under the tariff act of 1922 the rate of duty on edible molasses and cane sirup is twenty-five hundredths of 1 cent per gallon if the total sugars present do not exceed 48 per cent of the weight of the molasses or sirup. For each per cent of total sugars above 48 the rate of duty is increased two hundred and seventy-five thousandths of 1 cent per gallon. Imports of edible molasses and cane sirup come mainly from the British West Indies.

(2) BLACKSTRAP MOLASSES

Blackstrap molasses is a by-product of sugar in all cane and beet sugar mills and in all sugar refineries. It is produced and imported into the United States in far greater quantity than either edible molasses or cane sirup.

The following table shows the source and the available supply of blackstrap in the United States from 1925 to 1928, inclusive.

Domestic production, imports, and exports of blackstrap molasses, 1925-1928 [Gallons]

	Production in the United States 1				1	Shipments to the United States (free) ²				
Calendar year	Louisiana cane	Beet		Total		Porto Rico		Hawaii		Total free
1925 1928 1927 1928 3	3, 950, 100 6, 222, 350 2, 105, 600 3, 160, 350	48, 709, 250 40, 221, 950 40, 062, 300 48, 262, 050	46 42	46, 444, 300 26, 42, 167, 900 16,		070, 418 19, 981, 7 033, 726 16, 963, 5 697, 062 13, 867, 6 700, 260 21, 485, 8		63, 594 67, 665	4, 670 9, 341 850	43,006,661
	Imports (dutiable) 4					Tot		Domestic		4
Calendar year	Cuba	Other countri		Tota	l	- (production, shipments, and imports)			orts	Availabl e supply
1925 1926 1927 1928 ³	_ 222, 880, 03	35 31, 893, 3 24, 011,	838 466	248, 008 254, 773 205, 772 272, 223	8,873 2,139	342, 72 344, 22 278, 50 368, 83	14,834 14,616	4, 1 6, 0	.06, 622 .58, 746 .93, 143 .92, 843	339, 618, 153 340, 066, 088 272, 412, 473 358, 139, 590

¹ Based on 50 gallons to 1 long ton of sugar. Basic data from Willett & Gray's Weekly Statistical Sugar Trade Journal for fiscal year ending June 30.

^a Figures include a small amount of molasses other than blackstrap.
 ^a Preliminary.
 ^a Imports for consumption.

In addition to the domestic supply of blackstrap shown in the above table, the refiners of imported raw sugar in the United States produce from 30,000,000 to 36,000,000 gallons of blackstrap annually. According to the Bureau of the Census, refiners' blackstrap in 1927 totaled 31,014,017 gallons, valued at \$2,171,900. In the United States blackstrap molasses is used chiefly in the

manufacture of ethyl alcohol, sweet feeds for livestock, and yeast. These three industries consume roughly 275,000,000 to 325,000,000 gallons annually, divided as follows: Alcohol, 200,000,000 to 225,000,000 gallons; stock feeds, 50,000,000 to 75,000,000 gallons; and yeast, 20,000,000 to 25,000,000 gallons. A large number of other industries use minor quantities.

The full rate of duty on blackstrap molasses is one-sixth of 1 cent per gallon if the blackstrap contains not over 52 per cent total sugars, and increases one-sixth of 1 cent per gallon for each per cent of total sugars above 52 up to 56. The maximum rate of duty is, therefore, five-sixths of 1 cent per gallon. The Cuban rate, being 20 per cent

below the full rate, varies from two-fifteenths to two-thirds of 1 cent. per gallon. All molasses and sirups imported into the United States enter at the rates of duty provided for edible molasses unless the imported product (molasses and sirup) is declared not to be imported for human consumption or for the extraction of sugar.

Under the provisions of section 562 of the tariff act of 1922 blackstrap may be so manipulated in warehouse as to enter the United States at the minimum rate of duty. By diluting it to 52 per cent or below of total sugars, the importer may have it entered at one-sixth of 1 cent per gallon instead of at the higher rate for molasses testing above 52 per cent total sugars. While undoubtedly some blackstrap molasses containing not over 52 per cent of total sugars is produced, the practice of diluting is so general that nearly all blackstrap, regardless of its original sugar content, enters the United States at the minimum rate of duty, and as the bulk of the imports come from Cuba, it enters at two-fifteenths of 1 cent per gallon.

(d) Investigations for the Purpose of Section 315 of the Tariff Act of 1922

MAPLE SUGAR AND MAPLE SIRUP

The investigation of maple sugar and maple sirup instituted by the commission on February 25, 1927, for the purposes of section 315, has been completed and copies of the report sent to the President have been put at the disposal of the congressional committees adjusting tariff rates.

The production of maple sugar and maple sirup in the United States has declined since 1918, as shown by the following table:

Domestic production of maple sugar and maple sirup, selected years, from 1918– 1928

Year	Trees tapped	Sugar made	Sirup made	Total production in terms of sugar
1918 1923 1927 1928	19, 132, 000 15, 291, 000 14, 603, 000 14, 388, 000	Pounds 12, 944, 000 4, 685, 000 3, 236, 000 2, 388, 000	Gallons 4, 863, 000 3, 605, 000 3, 672, 000 3, 013, 000	Pounds 51, 848, 000 33, 525, 000 32, 612, 000 26, 492, 000

The principal States producing maple sugar and maple sirup are Vermont, New York, and Ohio. Michigan, New Hampshire, Pennsylvania, Wisconsin, Maine, and Massachusetts produce smaller quantities. About 97 per cent of the domestic production is made in the 9 States mentioned; the remaining 3 per cent in from 12 to 15 other States.

Canada is the only foreign country producing maple sugar and maple sirup on a commercial scale; there production of the two products has slightly increased over the 10-year period, 1918 to 1928. Maple sugar reached its maximum production in Canada, 15,615,000 pounds, in 1920, and its minimum, 7,137,000 pounds, in 1926. Maple sirup showed a fairly steady increase during the 10-year period; from the low yield of 1,764,000 gallons in 1919 it advanced to a maximum of 2,586,000 gallons in 1927. In 1928 there was a slight recession, the yield being 2,024,000 gallons.

Under the tariff act of 1913 the rate of duty on maple sugar and maple sirup was 3 cents per pound. The act of 1922 increased the rate on both products to 4 cents per pound.

Before the present tariff law was enacted in September, 1922, imports of maple sugar and maple sirup were not shown separately. In 1919 imports of the two products combined totaled 4,277,300 pounds; in 1924 imports of maple sugar amounted to 3,910,774 pounds and of maple sirup 66,550 pounds; in 1928 imports of maple sugar were 6,954,530 pounds, and maple sirup 398,644 pounds, or 36,240 gallons. These imports in 1928 made up 74.44 per cent of the maple sugar and only 1.19 per cent of the maple sirup consumed in the United States during that year.

Exports of maple sugar and maple sirup from the United States are negligible and are, therefore, included with the exports of other sugars and sirups.

SCHEDULE 6. TOBACCO AND MANUFACTURES OF

The summary of tariff information on Schedule 6, prepared for the special use of the committees of Congress, gives information bearing on tariff problems connected with the various types of leaf tobacco and tobacco manufactures. The testimony given at the public hearings before the Committee on Ways and Means and the Committee on Finance was summarized and indexed so as to make it readily available for reference.

To obtain information on wrapper tobacco, the commission made a field study in the Connecticut Valley and in the Georgia-Florida region, the principal wrapper-tobacco growing areas, as well as in the marketing and manufacturing centers of New York City, Red Lion, Pa., and Tampa, Fla. Discussions before the committees by persons interested in obtaining changes in rates in this schedule were practically confined to wrapper tobacco.

Cigar-wrapper tobacco is leaf of specialized type, developed for the purpose of giving an acceptable finish to cigars. Three distinct kinds of leaf tobacco go into the ordinary cigar—the filler leaf, the binder, and the wrapper. The binder is used to hold together the small pieces of tobacco making up the filler. After the cigar is put together and shaped, it is finished off with a wrapper cut from a selected leaf. Although the wrapper is but a small part of the cigar, sometimes less than one-tenth, it is an important part, since it, more than anything else, determines the appearance of the cigar.

The best wrappers are neutral in taste or have a flavor that blends well with the tobacco in the remainder of the cigar. They burn evenly, have a silky smoothness, a uniform color, small inconspicuous veins, and possess sufficient strength and elasticity to prevent easy breaking. A large yield per pound of leaf, good grading, and dependability of supply are important.

The domestic production of wrapper tobacco is limited to a comparatively few areas where the soil and climate are exceptionally favorable to producing the color, flavor, burn, and size desired. Nearly all of the present supply is produced under artificial shade in the Connecticut River Valley of Connecticut and Massachusetts and

in contiguous counties of Florida and Georgia. Before the decade 1900 to 1910, which marked the development of shade-grown tobacco, a considerable quantity of sun-grown (stock harvested tobacco) was used for wrapper, but in recent years only small quantities of sungrown have been used in local brands of cigars. In Connecticut a few hundred acres have been planted in Havana seed for sun-grown wrapper. There harvesting is done by priming—that is, by picking the leaves from standing stocks as they ripen—a method that increases the percentage of leaf that can be used for wrapper. At the present time, however, domestic cigars are chiefly wrapped with wrapper of a specialized type grown under shade in the Connecticut Valley, in the Georgia-Florida area, or with imported Sumatra or Java leaf.

The industry of growing wrapper tobacco under shade was begun in the Connecticut Valley around the year 1900. By 1910, 1,000 acres were under cultivation there with a production of nearly 1,000,000 pounds; by 1922 the acreage had expanded to 8,000 acres with a production of nearly 6,500,000 pounds, valued at nearly \$5,800,000. In 1925 there was a decrease to 4,580 acres, but again in 1928 an increase to 8,000 acres, and in 1929 a further increase. The following table gives the acreage, yield per acre, production, average farm price per pound, and the farm value of Connecticut Valley shade leaf since 1921.

Production of wrapper tobacco under shade in the Connecticut Valley, 1922-1928¹

Year	Acreage	Average yield per acre	Production	A verage farm price per pound	
1922 1923 1924 1925 1926 1927 1928	8,000 8,400 6,900 4,580 5,210 7,100 8,000	Pounds 800 1,030 1,067 1,052 1,004 900 867	Pounds 6, 400, 000 8, 652, 000 7, 360, 000 4, 818, 000 5, 231, 000 6, 390, 000 6, 936, 000	\$0. 90 1. 00 . 85 1. 00 . 977 1. 05 1. 00	\$5, 760, 000 8, 652, 000 6, 256, 000 4, 818, 000 5, 111, 000 6, 709, 000 6, 936, 000

⁴ Division of Crop Estimates, United States Department of Agriculture.

In the Georgia-Florida region the acreage planted to shade leaf declined from 4,050 acres in 1922 to 1,900 acres in 1925, but increased to 3,800 acres in 1928. The following table shows the acreage, average yield per acre, the production, average farm price, and total farm value of wrapper tobacco grown under shade in Georgia and Florida.

Production of wrapper tobacco under shade in Georgia and Florida, 1922-1928

Year	Acreage	Average yield per acre	Production	A verage farm price per pound	
1922 1923 1924 1925 1926 1927 1928	4,000 4,200 2,650 1,900 2,300 2,800 3,800	Pounds 1,095 1,157 1,075 1,060 1,112 1,206 1,113	Pounds 4, 436, 000 4, 860, 000 2, 850, 000 2, 014, 000 2, 557, 000 3, 378, 000 3, 230, 000	\$0.50 .58 .59 .65 .65 .65 .55	\$2, 218, 000 2, 819, 000 1, 682, 000 1, 309, 000 1, 663, 000 2, 196, 000 2, 326, 000

Imports of wrapper tobacco into the United States originate almost entirely in the Dutch East Indies, principally in Sumatra (in recent years small quantities in Java), and come through the Netherlands. Small imports come from Cuba to supply the relatively restricted demand for the clear Havana cigar industry of Tampa, Key West, and New York City.

General imports of leaf tobacco a	suitable for cigar wrappers,	calendar years 1923-1928
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	19	1923		924	1925		
Imported from—	Quantity	Value	Quantity	Value	Quantity	Value	
The Netherlands Canada Cuba Argentina	Pounds 7, 484, 730 12, 869 58, 935 102, 632	\$17, 985, 930 18, 962 71, 258 15, 549	Pounds 5, 821, 412 26, 330 43, 584	\$14, 941, 000 51, 532 103, 080	Pounds 6, 261, 325 8, 795 149, 288	\$14, 745, 058 17, 825 296, 377	
Java and Madeira Other Dutch East Indies. All other countries	20, 433 457 28, 201	22, 235 375 19, 666	1, 155 1, 710	924 3, 196	751 3, 620 10984 ===	687 6, 628 10, 605	
Total	7, 708, 257	18, 133, 975	5, 894, 191	15, 099, 732	6, 434, 763	15, 077, 180	
	1	926	1927		19	028	
The Netherlands Canada Cuba Argentina	6, 322, 749 8, 989 114, 056 102, 336	\$14, 406, 436 16. 077 303, 962 17, 374	5, 663, 895 14, 086 100, 654	\$12, 100, 482 24, 582 308, 329	6, 498, 037 4, 378 117, 897	\$13, 196, 902 6, 640 384, 430	
Java and Madeira. Other Dutch East Indies. All other countries.	2, 020 1, 050	2, 103 1, 395	5, 078 718	4, 229 805	10, 392 10 492	41, 753 10 395	
Total	6, 551, 200	14, 747, 347	5, 784, 431	12, 438, 427	6, 631, 206	13, 630, 130	

Nearly all imported wrapper leaf arrives unstemmed, as it is more convenient to handle in that form and less subject to loss through breakage. Imports through the Netherlands from Sumatra began about 1881, some 20 years after the establishment of the industry in that island. In 1890, 9,900,000 pounds came in, a figure never again surpassed. During the war, when it was difficult to ship from the Netherlands, imports in about the usual amounts came direct from the East Indies. Since 1900 the annual importations have been fairly uniform. From 1924 to 1928 they averaged 6,000,000 pounds, valued at \$12,000,000 to \$15,000,000 annually. The duty collected averaged over \$12,000,000. It is estimated that about two-thirds of the Sumatra leaf is used on 5-cent cigars and that three-fifths of the combined imports of Sumatra and Java are used on cigars of that price.

The annual importation of Sumatra and Java is sufficient to wrap almost 3,000,000,000 cigars, or one-half the average annual domestic production in recent years. There has been almost no growth in the cigar industry since 1910. In that year 6,800,000,000 large cigars were produced; 17 years later less than 6,500,000,000 were produced. In 1926 Congress materially reduced the internal-revenue taxes, especially upon the cheaper cigars. The tax on 5-cent cigars was reduced by the act approved February 26, 1926, from \$4 to \$2 per thousand. In 1927 the production of large cigars increased to 6,519,000,000, most of the gain over the previous year's production of 6,499,000,000 being in 5-cent cigars. In recent years cigarmaking machines have been increasingly used instead of the old hand methods, particularly in making the cheaper grades. It is to class A cigars (5-cent cigars), on which the reduction of the internal-revenue tax was most helpful and the introduction of machinery most effectual, that the manufacturers look for any gain in the industry. Since a large volume of business is necessary to insure the successful production by cigar-making machines, including filling and banding machines, their introduction into the industry has tended toward consolidation and consequently elimination of the small manufacturer.

With respect to the duty on wrapper tobacco, the interests of the cigar manufacturers are not identical for the reason that they use different types of tobacco. The largest manufacturers usually use Sumatra wrapper, especially on their 5-cent cigars. They buy in large lots, and are therefore able to send their own buyers to Amsterdam or to deal with domestic merchants on advantageous terms. Only 15 or 20 per cent of the total exports of Sumatra tobacco from the Netherlands is taken by American buyers, so that a wide selection is available. Care in grading gives a uniformity in type that enables the large manufacturer wrapping with Sumatra leaf to maintain the appearance of his brand of cigars. Other manufacturers have built up the most profitable part of their business by manufacturing higher priced cigars wrapped with Connecticut shade leaf. In certain portions of Pennsylvania a number of manufacturers make cigars by hand, employing local labor; they use quantities of shredded filler and cover their cigars with Florida-Georgia shade-grown tobacco. Manufacturers of clear Havana cigars maintain their product by using wrapper tobacco imported from Cuba; otherwise their product could not properly be called clear Havanas.

Since the major portion of the import of Sumatra wrapper is used on 5-cent cigars, the manufacturers of the cheapest grades of cigars are the ones most affected by any change in the wrapper rate. The field investigation made by the Tariff Commission indicates that the margin of profit on class A cigars is narrow. The average selling price to the jobber is about \$31.50 per thousand. The present internal-revenue tax is \$2 per thousand. On the basis of the conservative estimate of 1.75 pounds of Sumatra wrapper to 1,000 cigars, the wrapper duty of \$2.10 amounts to \$3.68 per 1,000 cigars. Thus the total duty and internal-revenue tax since 1926 has been \$5.68 per thousand or nearly one-fifth the price the manufacturer receives for his 5-cent cigar.

The producers of domestic cigar filler and binder tobaccos are also interested in the duty on wrapper tobacco. Their interest arises from the fact that most of the imported wrapper is used with domestic filler binder tobacco. Binder leaf is grown principally in Wisconsin, in the Connecticut River Valley, and in New York State. Filler leaf is grown principally in Pennsylvania in the regions centering in Lancaster and York Counties, and in Ohio and Indiana in the Miami River Valley. In 1928, 127,200 acres were devoted to filler and binder tobacco, with a production of 153,613,000 pounds, valued at \$26,138,000, as compared with 121,800 acres planted to wrapper tobacco, with a production of 11,166,000 pounds, valued at \$9,262,000.

The Sumatra wrapper leaf imported into the United States is typically light in color, thin, small-veined, silky, neutral in taste, and of sufficient tensile strength to work well on cigar machines. From $1\frac{3}{4}$ to 2 pounds are required to make 1,000 cigars. Sumatra leaf is carefully graded for size, color, and quality. As a rule the best grades are imported. The tail ends of the lots bought by Americans, the "Schwanz," are taken by Continental buyers. About two-thirds of the Sumatra leaf imported into the United States is used in 5-cent cigars. The very finest grades are used in class B and class C cigars. The grade selling at \$1.20 per pound ex-duty in 1928 is about the quality used in 5-cent cigars. For some of the finer grades importers pay as high as \$3 to \$4 per pound.

Georgia-Florida shade-grown tobacco is used almost entirely for 5-cent cigars. It is perhaps the domestic type most nearly comparable to imported Sumatra. Much of it is light in color, and but little more of it is required to produce 1,000 cigars than of the Sumatra. The better grades of it are neutral in taste. The average farm value of all grades of Georgia-Florida shade leaf in 1928 was 55 cents per pound; the higher grades brought from \$2 to \$3.

Connecticut shade-grown leaf of the better grades is of fine quality, but is likely to have a smaller proportion of light colors than the Georgia-Florida. It has a good flavor, which blends well with Havana and Porto Rican filler. As a rule, only the darker colors of the Connecticut shade wrapper are used on 5-cent cigars. The average farm value for the whole Connecticut shade crop in 1928 as reported by the Department of Agriculture was \$1 per pound; some of the best grades brought as high as \$3 to \$4 per pound. More than 70 per cent of the whole crop was actually used for wrapper, the remainder being used for binder, cigarettes, and chewing tobacco.

Although importations of Havana wrapper from Cuba constitute only a small proportion of the total imports of wrapper tobacco, customs officials have experienced administration difficulties since wrapper tobacco was first specifically provided for in the act of 1883. These difficulties arise from the fact that the imported Havana leaf consists largely of mixed bales of filler and wrapper tobaccos. The act of 1922 provides that filler tobacco when mixed or packed with more than 35 per cent of wrapper tobacco shall be dutiable at the same rate as wrapper. This provision is a substitute for the provision in the act of 1913 (which was the same as that in the act of 1909 and of 1897) that filler tobacco when mixed with more than 15 per cent wrapper tobacco, pay the same duty as wrapper tobacco. Since Havana wrapper is used in the United States only by manufacturers of clear Havana cigars, importations at Tampa and at Key West are the ones creating a problem. Under the act of 1922 the general rate of duty on unstemmed wrapper tobacco is \$2.10 per pound, as compared with 35 cents per pound on unstemmed filler; the rates applica-ble to imports from Cuba are \$1.68 and 28 cents, respectively. The difference between wrapper and filler rates is so great that it is of considerable importance from an administrative point of view. The question then arises as to what, for tariff purposes, shall be classed as wrapper tobacco. The requirements for a wrapper tobacco are so various that it is difficult to formulate a definition. The act of 1922 does not take as a criterion its actual use, nor does it prescribe any physical test or set any objective standard. Its definition is worded as follows: "The term 'wrapper tobacco' as used in this title means that quality of leaf tobacco which has the requisite color, texture, and burn, and is of sufficient size for cigar wrappers, and the term, 'filler tobacco' means all other leaf tobacco."

The standard is thus left indefinite. What is the color requisite for a clear Havana cigar wrapper? What is the texture or burn? What is sufficient size? The answers to these questions differ according to the size of cigars referred to, the particular crop of tobacco used, or even the needs of the individual manufacturer concerned. The very small manufacturer may be able to get wrappers out of leaf not so usable by the large factory.

Under the tariff act of 1922 and previous acts it was necessary for the customs officials to determine the exact percentage of wrapper and of filler leaf in mixed bales. The wrapper rate was levied upon the portion found to be of the wrapper grade and the filler rate on Under the proposed change it will be necessary to the remainder. determine only whether or not the percentage of wrapper in a particular mixed bale is more than 5 and not more than 35 per cent. Statistics of imports of unstemmed cigar wrapper and filler tobacco entered at Tampa from 1924 to 1928, inclusive, indicated that the wrapper content of mixed bales during that period averaged about Later shipments may, of course, show a higher per-15 per cent. centage either because of a change in packing in Cuba or because of a change in the grades of leaf purchased for importation into the United States.

SCHEDULE 7. AGRICULTURAL PRODUCTS AND PROVISIONS

(a) GENERAL STATEMENT

Schedule 7 includes not only the immediate products of the farm and closely related manufactures of farm products, but also fish and fish products. The work on fish and fish products is reported separately on pages 195 to 201.

During the period covered by this report the major portion of the time and effort of the agricultural division has been devoted directly or indirectly to obtaining and organizing information for use in connection with tariff legislation. For the two committees of Congress the division prepared a summary of tariff information giving pertinent data on every item appearing in Schedule 7, made digests of the testimony given at the committees' hearings, and in collaboration with the legal division suggested reclassifications of the commodities falling within certain paragraphs of the act of 1922. In addition it made a considerable number of informal reports and prepared statistical tabulations for Members of Congress and for others interested in the agricultural schedule. In the performance of this work a large volume of correspondence was maintained.

Although the work thus centered largely about tariff readjustment the division gave its attention also to the preparation of various surveys, carried on investigations under the general powers of the commission, and completed important cost investigations under section 315. Reports were drafted for the use of the commission in preparing reports to the President, under the provisions of section 315, on peanuts, eggs and egg products, milk and cream, flaxseed, and onions.

(b) WORK CONNECTED WITH TARIFF READJUSTMENT

The Summary of Tariff Information, prepared primarily for the use of members of the Ways and Means Committee, was made available before the public hearings of the committees were held. Later it was published for the use of the Members of the House and Senate and for the public in general. For each item included in the schedule the summary presents in compact and usable form a description of the article, statistics of production and trade, prices, a statement of competitive conditions, and a digest of court decisions respecting the The congressional committees had the services of the tariff law. experts of the division when the argicultural paragraphs of the bill were being drafted and revised and when they were under discussion in the two Houses of Congress. For the use of the committees the division also made digests of the testimony taken at the committee hearings, and went into the field for material for special studies on tapioca, tapioca flour, and cassava. A special study on milling-in-bond of wheat was also made. A brief summary of these studies follows.

Tapioca, tapioca flour, and cassava.—Tapioca, tapioca flour, and cassava are obtained from the root of a shrub native to tropical America and grown extensively in the Dutch East Indies, Central America, and Africa. Production is confined almost entirely to the Dutch East Indies; only negligible quantities are produced in the United States.

The following table shows imports of tapioca, tapioca flour, and cassava in the calendar years 1919 to 1928, inclusive. Tapioca and cassava have been on the free list for more than half a century. Tapioca flour, which has been specifically exempted from duty since 1909, was held under the act of 1890 to be free as tapioca and not dutiable as starch. This decision applied under the acts of 1894 and 1897.

Year	Quantity	Total value	Value per pound	Year	Quantity	Total value	Value per pound
1919 1920 1921 1922 1922 1923	Pounds 95, 652, 647 99, 286, 119 50, 458, 450 89, 027, 246 93, 882, 460	\$5, 014, 316 5, 634, 283 1, 673, 678 2, 785, 823 4, 252, 804	\$0. 052 . 057 . 033 . 031 . 045	1924 1925 1926 1927 1928 1	Pounds 83, 491, 156 118, 411, 974 103, 938, 420 110, 408, 412 171, 215, 709	\$3, 773, 530 4, 185, 440 3, 175, 439 3, 198, 602 3, 794, 608	\$0. 045 . 035 . 031 . 029 . 022

Total annual imports of tapioca, tapioca flour, and cassava, 1919 to 1928, inclusive

¹ Includes 29,660,585 pounds of gaplak, the dried sliced root of tapioca, and gaplak meal, the dried ground root, imported mainly on the Pacific coast for cattle feed.

The distribution data given in the following table and obtained from the leading importers at New York City and from important manufacturers of products made from tapioca, tapioca flour, and cassava show the uses served by tapioca. Sales distribution of tapioca, tapioca flour, and cassava in the United States in 1928

Foods:	Per cent
Pearl, flakes, siftings, seeds	6.6
Flour	
Sizing of textiles	
Wood glues	33.1
Adhesives, gums, and dextrines	27.3
Miscellaneous:	
Explosives	. 3
Shipments to jobbers, use unknown	5.4
All other	3.8
Total	100. 0.

The largest single use of tapioca and tapioca flour is in the manufacture of a glue for the furniture trade making veneers. According to furniture manufacturers, wood glues made from tapioca have properties not possessed by glues made from corn starch, and are the only starch glues that have so far proved satisfactory. More than 30 per cent of the tapioca imported into the United States goes into the manufacture of wood glue.

Domestic manufacturers of adhesives, gums, and dextrines practically all use tapioca, corn, and potato starches as raw materials. Fully 27 per cent of the tapioca consumed in the United States is used for such purposes. There appears to be a definite demand for the gums and dextrines made from each of these starches for certain purposes. For United States postage stamps and for envelopes used in the Federal service, Government contracts call for tapioca gums only. For sealing paper boxes, adhesives made from tapioca. are said to be much more satisfactory than those made from other starches, because of the quick stick of the tapioca gum. Manufacturers of adhesives and gums maintain that each starch fills a purpose of its own.

About 20 per cent of the tapioca consumed in the United States is used as food, either for puddings or as a starch filler or base for pastries and pies. Between 1921 and 1928 there was an apparent decline in the percentage consumption of tapioca for food, but a slight increase in the actual quantity consumed.

For puddings, tapioca competes with corn starch and other starches, the individual preference of the purchaser being the determining factor in sales. For bakers' supplies, such as fillers for pastry and pies, tapioca flour or starch competes with starches made from corn and wheat. Here the price of the starch material as well as the individual taste determines which ingredients will be used.

In the cotton textile industry, where large quantities of potato, tapioca, sago, corn, and wheat starches are used for sizing, it has been found that each of these starches will give a somewhat different finish to the cloth. The commission's survey indicates that the type and style of finish desired determine the kind of starch to be used for sizing and that there is no indiscriminate substitution of one starch for another in the textile mills. The same situation appears to exist in the sizing of cotton yarns.

From 1924 to April, 1929, inclusive, tapioca and tapioca flour sold, wholesale, at New York City, for somewhat higher prices than corn

[•] Quantity covered was 124,611,200 pounds. No gaplak or gaplak meal included.

starch, except in 1928, when certain grades of tapioca and tapioca flour were lower in price.

Milling-in-bond of wheat.9-A report on milling-in-bond of imported wheat,¹⁰ submitted by the commission to the Committee on Ways and Means and later made available to the Senate Finance Committee. contains information here briefly summarized.

The milling-in-bond of foreign wheat is provided for in section 311 of the tariff act of 1922. All flour produced from foreign wheat in bonded mills must be exported, but wheat mill feeds, obtained as a by-product, may be withdrawn from bonded warehouse for domestic consumption on payment of a duty equal to the duty which would be assessed on such products if imported. The imports of duty-paid wheat and of free wheat for milling-in-bond since September 22, 1922, have been as follows:

Imports of wheat, 1922–1928

[Rate of duty under act of 1922, 30 cents per bushel. Changed by President's proclamation to 42 cents per bushel, effective Apr. 6, 1924]

	Average Minne- apolis]	Full duty		Free in bond for milling and for export as flour			
C ale ndar year	price per bushel No. 1 dark northern	Quantity	Value	Unit value	Quantity	Value	Unit value	
1922 (Sept. 22–Dec. 31) 1923 1924 (Jan. 1–Apr. 5) 1924 (Apr. 6–Dec. 31) 1925 1926 1927 1928	\$1. 27 1. 26 1. 39 1. 72 1. 62 1. 40 1. 40	Bushels 3, 165, 026 8, 929, 749 6, 215, 465 679, 150 1, 308, 399 451, 029 21, 299 224, 133	\$3, 393, 207 8, 887, 124 5, 841, 153 736, 178 1, 701, 851 640, 140 27, 443 280, 690	\$1.07 1.00 .94 1.08 1.30 1.42 1.29 1.25	Bushels 3, 998, 888 9, 988, 592 } 9, 479, 819 10, 439, 714 15, 429, 102 11, 152, 699 19, 766, 974	\$4, 276, 881 10, 339, 659 9, 646, 551 15, 000, 670 21, 488, 633 14, 651, 452 22, 908, 096	\$1. 07 1. 04 1. 02 1. 44 1. 39 1. 31 1. 16	

Minneapolis and Buffalo are the two most important domestic milling centers for hard spring wheat flour. Milling-in-bond operations are carried on almost entirely in Buffalo. Statistics of production of flour at Minneapolis and Buffalo in recent years are as follows:

Production of flour in Minneapolis and Buffalo, 1920–1927

Year	Minneap- olis ª	Buffalo »	Year	Minneap- olis ¢	Buffalo »
1920 1921 1922 1923	Barrels 17, 117, 610 14, 524, 845 14, 785, 650 15, 730, 865	Barrels 5, 243, 360 6, 693, 255 6, 708, 827 6, 462, 571	1924 1925 1926 1927	Barrels 12, 191, 411 10, 969, 152 12, 509, 057 11, 184, 865	Barrels 6, 988, 609 9, 458, 142 9, 671, 829 9, 945, 548

• Year ended Aug. 31.

• Calendar year.

⁹ Wheat may also be imported for manufacture and products thereof exported with benefit of drawback of 99 per cent of the duty paid, under the provisions of section 313 of the tariff act of 1922. However, it is provided that such duty shall not be refunded unless not less than 30 per cent of domestic wheat has been mixed with the foreign wheat in the manufacture of flour. According to present information; no domestic flour miller has made use of the drawback provision to an important extent in recent years. ¹⁰ Published in hearings before the Committee on Ways and Means, Vol. XVI, p. 9972.

Exports of flour from the United States include flour made from foreign wheat under the milling-in-bond provisions, as well as flour made from wheat grown in the United States. The following table shows the total exports of flour and the estimated quantity of flour produced in bonded mills from foreign wheat.

Year	Total from all wheat	Made in bond from imported wheat ¹	Year	Total from all wheat	Made in bond from imported wheat ¹
1923 1924 1925	Barrels 16, 309, 856 15, 989, 760 11, 118, 808	Barrels 2, 219, 687 2, 106, 626 2, 319, 936	1926 1927 1928	Barrels 11, 850, 322 12, 823, 084 11, 848, 042	Barrels 3, 428, 689 2, 478, 378 4, 392, 661

Domestic exports of flour, 1923-1928

 1 Calculated on basis of wheat entered in bond for milling and export, $4\frac{1}{2}$ bushels of wheat equals 1 barrel of flour.

Most of the flour milled in bond is exported through the New York City customs district. Under the tariff act of 1922 exports through New York of all domestic wheat flour have averaged about 5,000,000 barrels annually. This average has been maintained despite a decline in exports of flour from 16,300,000 barrels in 1923 to 11,848,000 barrels in 1928, and is largely due to heavy exports of wheat flour made in bond from imported wheat.

Under reciprocity provisions with Cuba, flour imported from the United States, whether made in the United States from domestic or imported wheat, is granted a preferential rate at 30 per cent less than is accorded to flour from Canada. At the present time (1929) the Cuban duty on flour imported from other countries, including Canada, is \$1.16 per barrel of 196 pounds (\$1.30 per 100 kilos) and from the United States \$0.81 per barrel of 196 pounds (\$0.91 per 100 kilos). Exports of flour to Cuba from the United States through the chief flour-exporting ports and from Canada to Cuba have been as follows:

Exports of wheat flour from the United States to Cuba, by customs districts, 1923-1928

	endar year]					
	1923		1924		1925	
	Quantity	Per cent	Quantity	Per cent	Quantity	Per cent
Total domestic exports of wheat flour to Cuba Exports from— New York ¹ New Orleans, Galveston, and Mobile All other ports	Barrels 1 089, 556 360, 726 696, 320 32, 510	100. 0 33. 1 63. 9 3. 0	Barrels 1, 187, 185 381, 043 752, 247 53, 895	100. 0 32. 1 63. 4 4. 5	Barrels 1, 197, 903 416, 782 751, 296 29, 825	100. 0 34. 8 62. 7 2. 5
	1926		1927		1928	
Total domestic exports of wheat flour to Cuba Exports from— New York 1. New Orleans, Galveston, and Mobile All other ports	1, 146, 058 530, 019 602, 950 13, 089	100. 0 46. 2 52. 7 1. 1	1, 239, 226 724, 817 485, 867 28, 542	100. 0 58. 5 39. 2 2. 3	1, 139, 525 714, 062 370, 499 34, 964	100, 0 62, 7 32, 5 4, 8

[Calendar year]

¹ Includes small quantities from Baltimore and Philadelphia.

Exports of wheat flour from Canada to Cuba, 1924 to 1929.11

	Barrels		Barrels
		1926–27	
1924-25	145, 680	1927-28	18,804
		1928–29	

In milling-in-bond operations some domestic wheat or flour is mixed with the foreign; probably the softer winter varieties of domestic wheat are used to blend with the hard spring wheat from Canada.

The following table shows the quantity of duty-free foreign wheat, the quantity of domestic wheat, and the wheat equivalent of domestic flour used in the bonded mills at Buffalo in manufacturing flour for export.

Wheat and flour used in bonded flour mills in manufacturing flour for export, district No. 9, Buffalo, N. Y., 1925-1927

		An	Per cent of		
Calendar year	Foreign wheat	Used as wheat	Used in form of flour	Total	American wheat used in bonded flour mills
1925 1926 1927	Bushels 10, 255, 003 13, 812, 351 11, 738, 934	Bushels 3, 473, 947 1, 613, 791 4, 810, 985	Bushels 898, 470 676, 750 367, 380	Bushels 4, 372, 417 2, 290, 541 5, 178, 365	29. 89 14. 22 30. 61

(c) AGRICULTURAL SURVEYS

No agricultural surveys were published during the year, but a number were written in preliminary form. The information contained in them has been made available to the committees of the Congress in connection with tariff legislation.

(d) Agricultural Investigations Under the General Powers of the Commission

Cattle and beef.—On May 8, 1928, the commission instituted, under its general powers, an investigation of cattle and beef, including canned beef and by-products of beef, such as hides, tallow, and oleo oil. Field work was begun on July 31 to obtain ranch costs of cattle production in the range States of the United States, the costs of fattening cattle in the Corn Belt, and ranch costs in the four western Provinces of Canada.

For domestic costs of raising and fattening cattle the commission used a series of studies made in recent years by a number of State agricultural colleges and experiment stations, most of them in cooperation with the United States Department of Agriculture. In adapting the figures obtained to the purposes for which they are to be used and in bringing them up to date, the commission had the assistance of the colleges and of the department. Adjustments were made to allow for changes in (1) numbers, weights, and values in the cattle inven-

¹¹ Fiscal year ended Mar. 31.

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tories, sales, and purchases, (2) investment in other livestock, (3) sales of other livestock and livestock products, (4) purchases, sales, and inventories of crops, feeds, and supplies, (5) miscellaneous receipts, (6) cost of hired labor and value of unpaid labor, including board, (7) cost of leases, rentals, grazing fees, and taxes, (8) miscellaneous ranch expenses, (9) charges for depreciation and repairs, and (10) number of calves raised.

The ranch costs are for one or more areas in each of the Dakotas, Montana, Wyoming, Utah, California, New Mexico, Texas, Arizona, Nebraska, and Colorado. The costs of fattening cattle are for representative areas in Indiana, Iowa, Illinois, Nebraska, Missouri, and Kansas. In addition to the ranch costs, marketing expenses from range points to the central markets were obtained.

Cost records were taken for 40 representative ranches in the Provinces of Saskatchewan, Alberta, and British Columbia. These records cover operations on the short-grass ranches of eastern Alberta and western Saskatchewan, mainly leased lands; the foothill ranches of western Alberta, where wheat production has greatly expanded in recent years; and the bunch-grass ranches in the mountain region, where, grain production being impracticable, extensive use is made of national forest grazing. Marketing expenses from range points in Canada to the United States markets were also obtained.

In addition to the ranch cost studies, an investigation was made of the costs of packing and marketing beef and its by-products in the United States. In the New York district special attention was given to the processing and marketing of kosher beef. Through the cooperation of domestic packing houses having plants in Argentina and Uruguay, an effort is being made to procure similar data for the meatpacking industries in those countries. Data on the export trade in surplus by-products of beef packing have also been obtained.

The domestic slaughter of cattle and calves, production of fresh beef and veal, imports (for consumption) of live cattle and of fresh beef and veal, are shown in the following tabulation. Domestic exports of fresh beef and veal have averaged about 2,000,000 pounds per annum during the past three years, or only 0.02 per cent of production. Being so small, they are not included in this tabulation. Domestic exports of live cattle have averaged 14,183 head per annum during the past three years; i. e., about 0.06 per cent of domestic slaughter of cattle and calves. Being so small, and chiefly a border trade with Canada, Mexico, and Cuba, these exports also are excluded from tabulation.

	Domestic slughter			Dome	estie produ	Imports		
Year	Cattle	Calves	Cattle and calves	Beef	Veal	Beef and veal	Cattle 1	Beef and veal
	Iı	In thousands			In million of pounds			In million pounds
1923 1924 1925 1926 1927 1928	$13,883 \\ 14,400 \\ 14,706 \\ 14,971 \\ 14,000 \\ 12,452 \\$	8, 824 9, 466 10, 099 9, 542 9, 030 8, 667	22, 707 23, 866 24, 805 24, 513 23, 030 21, 119	6, 873 7, 065 7, 146 7, 458 6, 820 6, 082	862 925 1,001 960 867 814	7, 735 7, 990 7, 147 8, 418 7, 693 6, 896	137 142 173 212 427 516	19 17 16 20 42 49

¹ Approximately 4 per cent weighed 1,050 pounds per head or more, dutiable at 2 cents per pound. The rest weighed less than 1,050 pounds per head and were dutiable at 1.5 cents per pound.

The increase in imports of cattle during 1927 and 1928 resulted from a sharp advance in domestic prices after 1926, by which time a post-war surplus of domestic production had been eliminated. Virtually all cattle imported for consumption came from Canada and Mexico. Canada supplied about 72 per cent of the total during the three years ended December 31, 1927, as compared with 54 per cent during 1928, or an average of about 65 per cent of the total imported during the past four years. Canada is by far the chief source of imports of fresh beef and veal, but New Zealand has shipped increasing amounts during the past two years.

In order to supplement the study of beef cattle production costs, an analysis was made of the spread in prices between the New York and London markets for comparable grades of dressed beef. Medium western steer sides at New York compare with Argentine chilled sides (fore and hind quarters) in London. The Argentine beef can be landed in New York at virtually the same cost per pound as in London. The market differential was undoubtedly affected by the existing embargo,¹² but it does indicate the competitive situation as between domestic and Argentine beef. During the calendar years 1927 and 1928 the Argentine beef averaged 11.65 cents per pound in London as compared with 17.53 cents per pound for the domestic beef in New York, resulting in a market differential of 5.88 cents per pound. The following tabulation shows average annual prices for native beef steers and stockers and feeders at Chicago, chiller export steers in Buenos Aires, medium western steer beef (sides) at New York, and Argentine chilled sides (fores and hinds) in London, for the years 1923 to 1928, inclusive.

Year	Chi	cago	Buenos Aires	New York medium	London, Argentine	Market differential	
i ear	Native beef steers		chiller steers	western steer beef sides	chilled beef	between New York and London	
1923	\$9, 55	\$6. 55	\$3.60	\$13.86	\$9.90	\$3.96	
1924	9, 60	6. 35	4.38	13.65	10.00	3.65	
1925	10, 55	6. 80	6.16	14.12	11.50	2.62	
1926	9, 70	7. 40	5.16	13.71	10.60	3.11	
1927	11, 70	8.75	5. 52	15. 90	11.40	4.50	
1928	14, 05	11.05	6. 29	19. 16	11.90	7.26	

Prices per 100 pounds

Hay.—The commission instituted an investigation of the trade in hay June 15, 1928. The information obtained was incorporated in a survey and made available to the committees of the Congress concerned with tariff legislation.

The marketing problem in hay is one of control of surplus or prevention of deficiency in the hay regions of the northeastern States. Most of the imported hay crosses the section of the Canadian border that extends from Buffalo to Maine, and competes with hay produced in New York, Pennsylvania, New Jersey, and New England. New York and Pennsylvania are the most important surplus States of this region, usually shipping into New England, New Jersey, and, to a less extent, to the States farther south.

The cash market for hay is created principally by owners of horses in the urban centers and by dairy farmers, especially by those near the large cities where land is too valuable or not adapted for extensive

¹² The embargo was laid for sanitary reasons and became effective Jan. 1, 1927.

production of hay. In recent years the rapid decline in the number of horses, particularly in cities, has caused a sharp decrease in the demand for market hay. Notwithstanding this decrease in demand, imports have been maintained in considerable volume.

(e) INVESTIGATIONS FOR THE PURPOSES OF SECTION 315 OF THE TARIFF ACT OF 1922

(1) NEW INVESTIGATIONS

Since the beginning of the fiscal year no applications for investigation for the purposes of section 315 have been received. Work on the one investigation started—that concerning matzos (unleavened bread)—instituted on July 27, 1928, was suspended after the consideration of the pending tariff legislation began.

INVESTIGATIONS IN PROGRESS

Fresh tomatoes.—On June 10, 1927, the commission instituted an investigation of fresh tomatoes. An application for an investigation for the purposes of section 315 had been filed with the commission on April 15, 1927, by the Florida East Coast Growers' Association. It was indorsed by the American Farm Bureau Federation and by 22 other organizations. On July 12, 1927, the commission began field work at Miami, Fla., ending in Mexico three months later. The areas covered were the tomato-growing sections of Florida, Mississippi, Texas, and the west coast of Mexico. The cost data gathered were limited to the early crop.

Fresh tomatoes for table use are grown in all parts of the United States and are harvested the year round. The early crop, produced principally in south Florida and south Texas, is harvested between December 1 and June 1. The bulk of the intermediate crop is harvested during June and July and comes mainly from north Florida, Mississippi, east Texas, Arkansas, Tennessee, Ohio, and Illinois. The largest acreages of the late crop are in California, New Jersey, Maryland, Indiana, Missouri, and New York. Tomatoes grown in these States are largely for canning.

It is the early crop that presents a tariff problem so far as the fresh product is concerned. Imports, which come mainly from the west coast of Mexico, Cuba, and the Bahamas, are marketed in the same season as the domestic early crop. The volume of imports from Mexico and the correspondence of the marketing seasons are shown in the tables on page 155.

When the figures obtained in the field had been analyzed and tabulated, it became apparent that additional data were needed as to the quantity of marketable tomatoes left in the field in certain areas, the quantity of culls sorted out at the time of packing, the acreage under cultivation, and the effect of planting disease-resistant varieties. Representatives of the commission again went into the field to obtain this information for Florida, Mississippi, Texas, and Mexico.

A preliminary statement for use at the public hearing summarizing the information obtained in the United States and Mexico was issued to interested parties. The hearing, held June 25, 26, and 27, 1928, was attended by representatives of growers and shippers of early domestic tomatoes, by representatives of growers and shippers of Mexican, Cuban, and Bahama tomatoes, and by Senators and Representatives from Florida.

The table below shows production, imports, exports, and consumption of tomatoes in recent years.

Early fresh tomatoes: Domestic shipments, imports, exports, and apparent domestic consumption, during import seasons, 1922-23 to 1928-29

	Domes-		Imports 1		Exports	Apparent domestic consump- tion	
Season	tic ship- ments	From Cuba and Bahamas	From Mexico	Total			tic con- sump- tion im- ported
1922-23. 1923-24. 1924-25. 1925-26. 1926-27. 1927-28. 1928-29 ³ .	Carloads 9, 329 8, 372 8, 035 4, 606 12, 593 8, 902 10, 279	Carloads 257 200 331 824 936 1, 270 1, 594	Carloads 1, 798 1, 844 2, 757 2, 999 4, 796 4, 087 4, 587	Carloads 2, 055 2, 044 3, 088 3, 823 5, 732 5, 357 6, 181	Carloads 367 337 256 233 433 337 3 210	Carloads 11, 017 10, 079 10, 867 8, 196 17, 892 13, 922 16, 250	19 20 28 47 32 38 38
Average	8, 874	773	3, 267	4, 040	310	12, 603	32

[December to May, inclusive]

1 No imports from June to November.

² Subject to revision. ³ Through March, 1929.

NOTE.—Apparent domestic consumption equals domestic shipments plus imports minus exports.

The table below compares for the years 1925–26 to 1928–29 shipments of domestic and imported tomatoes during the importing season.

Early fresh tomatoes: Comparison of monthly carload shipments, domestic and imported, during import season, 1925-26 to 1928-29

	December	January	February	March	April	May	Total
1925–26:							
Domestic	110	14	54	297	1, 144	2,987	4,606
Imports-total	431	658	716	970	724	324	3, 823
Bahamas	67	, 111	72	19	5		274
Cuba	213	`100	62	106	65	4	550
Mexico	151	447	582	845	654	320	2, 999
1926-27:							1 S 1 S
Domestic 1	136	78	430	2, 162	3, 630	6, 157	12, 593
Imports-total	310	707	1,330	1, 613	1,482	290	5,732
Bahamas	17	166	111	17	2		313
Cuba	9	89	156	290	74	5	623
Mexico	284	452	1,063	1, 306	1,406	285	4, 796
1927-28:			· ·				
Domestic	352	492	300	532	2,109	5, 117	8,902
Imports-total	636	871	636	1,375	1, 526	2 313	5, 357
Bahamas	176	136	50	1			363
Cuba	193	292	247	154	19		905
Mexico	267	443	339	1,220	1,507	311	4,087
1928-29: ³					-		
Domestic	458	586	1, 234	1, 588	2,047	4,366	10, 279
Imports-total	1,011	1, 174	1, 384	1,067	804	741	6, 181
Bahamas	139	205	36				380
Cuba	385	413	256	137	23		1, 214
Mexico	487	556	1,092	930	781	741	4, 587

¹ Includes 13 cars from Porto Rico.

² Includes 2 cars from Bermuda. ³ Subject to revision.

Sweet peppers.—On April 10, 1928, the commission instituted an investigation of the cost of producing sweet peppers. As a preliminary study of the industry indicated that all domestic peppers shipped during the months of importations originate in Florida, the domestic

costs were obtained only for growing peppers in that State and for marketing them in the several consuming centers.

Foreign costs were obtained in Cuba and Mexico, the two sources of imports. Cuba was once the more important, but in recent years shipments from there have tended to decline and those from Mexico to increase.

A preliminary summary of the investigation has been completed, but no public hearing has been held, because of pending tariff legisla-tion. The information obtained in the investigation was made available to the committees of Congress.

The following table shows the domestic production, imports, and consumption of peppers during importing seasons 1924–25 to 1928–29.

Fresh sweet peppers: Domestic shipments, imports, and apparent domestic con-sumption during import season, 1924-25 to 1928-29

	Domestic		Imports 2		Apparent	Per cent of domestic
Season	shipments (¹)	Cuba	Mexico	Total	consump- tion	tion im- ported
1924–25. 1925–26. 1926–27. 1927–28. 1928–29 *	Carloads 710 368 1, 118 1, 516 1, 673	Carloads 3 357 739 573 308 276	Carloads 159 192 422 434 281	Carloads 516 931 995 742 557	Carloads 1, 226 1, 299 2, 113 2, 258 2, 230	42 72 47 33 25
5-year average	1, 077	451	298	748	1, 825	41

[December to May, inclusive]

Confined to Florida exclusively during import season.
 No imports from June to November.
 Includes 18 cars from Bermuda in May, 1925.

⁴ Subject to revision.

NOTE.—Apparent domestic consumption is equal to production plus imports minus exports. Exports are not recorded; they are known to be unimportant.

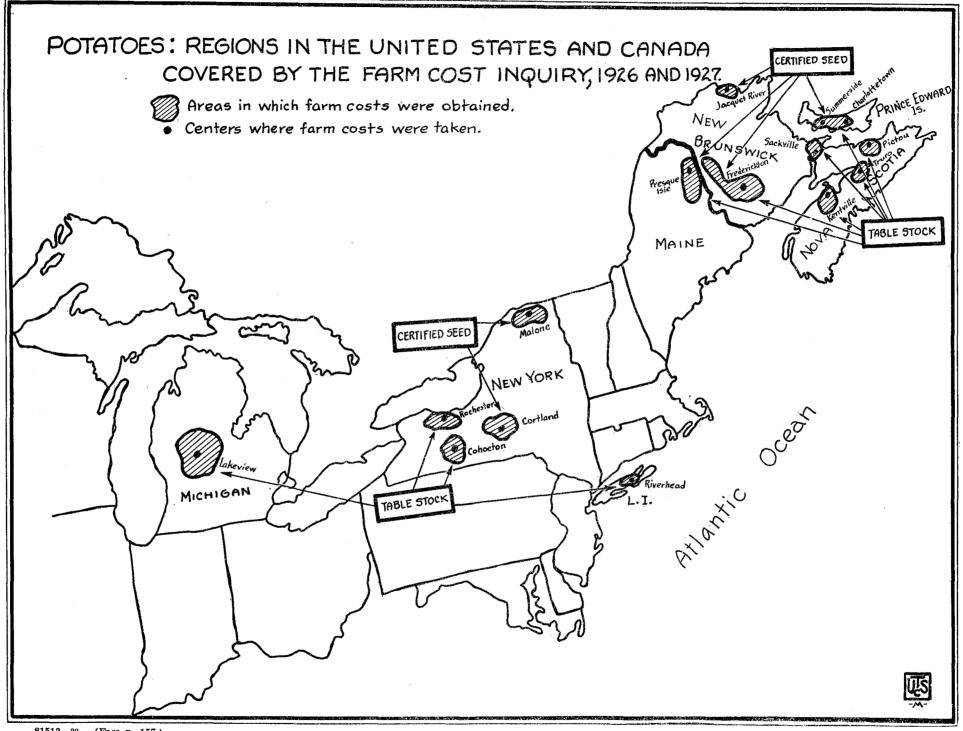
The table below compares for the years 1925-26 to 1928-29 the shipments of domestic and imported peppers during the importing season.

Fresh	sweet	peppers:	Comparison	of	monthly	carload	shipments,	domestic	and
		importe	ed, during im	por	t season,	1925-26	to 1928–29		

	December	January	February	March	April	May	Total
1925–26:							
Domestic	133	53	4	17	47	114	368
Imports-total	45	152	172	298	213	51	931
Cuba	19	107	143	271	156	43	739
Mexico	26	45	29	27	57	8	192
1926-27:			4			•	
Domestic 1	147	53	35	231	332	320	1, 118
Imports—total Cuba	43	162	354	278	121	37	995
Cuba	26	85	178	201	67	16	573
Mexico.	17	77	176	77	54	$\tilde{21}$	422
1927-28:					<u> </u>	~-	
Domestic	229	126	141	249	427	344	1, 516
Imports-total	12	163	298	149	73	47	742
Cuba	6	88	108	71	30	5	308
Mexico	Ğ	75	190	78	43	42	434
1928-29:	, i					12	101
Domestic 2	30	80	228	410	399	526	1.673
Imports-total		170	184	112	20	21	557
Cuba	19	74	104	64	14	1	276
Mexico	$\tilde{31}$	96	80	48	6	20	281

¹ Includes 19 cars from Porto Rico.

² Subject to revision.



81513-30. (Face p. 157.)

Potatoes.—An investigation for the purposes of section 315 of the act of 1922 of the cost of producing potatoes was instituted April 20, 1928, following the adoption of a resolution by the United States Senate on April 17, 1928 (Resolution No. 200), requesting the commission to determine the costs of production of potatoes in the United States and in the chief competing countries. Prior to this date several applications for an investigation had been filed with the commission.

The plans of investigation called for data on the costs of growing, storing, and handling potatoes in the United States and in Canada, on prices and other factors affecting competition, and for a separation of the figures to be obtained for potatoes intended for direct consumption and those grown principally for seed under State or Dominion supervision.

In a field study begun on July 5, 1928, cost data were obtained from 278 potato growers and 16 potato dealers in the United States, and from 220 potato growers and 17 dealers in Canada. United States costs were obtained in the principal potato growing areas of Maine, New York, and Michigan; Canadian costs, in the principal potato growing areas in the Provinces of Prince Edward Island, New Brunswick, and Nova Scotia. For this work, a force of six men was employed about six months. The scope of the investigation is illustrated by the map opposite this page.

Data obtained in the investigation were tabulated and summarized and made available to the committees of Congress.

The trend of domestic production has been gradually upward, although individual crops have varied widely. The 4-year average production (1925 to 1928) was 387,000,000 bushels, about 90 per cent of which were late potatoes. The leading potato-producing States are Maine, Minnesota, New York, Michigan, Wisconsin, and Pennsylvania. Many States have inspection services which officially certify for seed purposes potatoes that are true to type and that have been produced under conditions that make them practically free from disease. The leading States producing certified seed potatoes are Maine, Minnestoa, Idaho, and New York. The total production of certified seed potatoes advanced from 1,411,000 bushels in 1921 to 10,366,000 bushels in 1928.

Imports of potatoes increased from 730,000 bushels in 1923 to 5,000,000 bushels in 1927. From 1926 to 1928, 94 per cent of the imports were late potatoes from Canada and 4 per cent were early potatoes from Bermuda, Cuba, and other West Indian islands. An important proportion (probably 30 to 40 per cent in 1927 and 1928) of the potatoes from Canada were certified seed. The bulk of imported certified seed potatoes are bought by the potato growers along the Atlantic Seaboard as far south as Florida.

Exports of potatoes decreased from 3,600,000 bushels in 1919 to 2,700,000 bushels in 1928. Twenty-six per cent of the exports in 1928 were early potatoes shipped to Canada, and the remainder late potatoes, going principally to Cuba and Mexico.

(3) INVESTIGATIONS COMPLETED

Peanuts.—On January 10, 1929, the commission transmitted to the President a report upon its investigation of the cost of production of unshelled and shelled peanuts in the United States and in China, the principal competing country.

On January 19, 1929, the President proclaimed an increase, effective February 18, 1929, in the duty on unshelled peanuts, from 3 to $4\frac{1}{4}$ cents per pound and an increase in the duty on shelled peanuts from 4 cents per pound to 6 cents per pound.

The investigation was instituted on May 26, 1926, the day following the adoption of Senate Resolution No. 230, requesting the commission to determine the cost of production of peanuts (among other commodities) in the United States and in the chief competing country. Several applications for an investigation had been received by the commission prior to this time.

In a field study in the United States, begun in July, 1926, farm costs were obtained by a crew of six men under the direction of an agricultural expert and mill costs by six accountants. An economist of the commission's staff assisted in planning and beginning the cost investigations and made a field study of conditions of competition and problems of marketing.

Price, cost, and other economic data on peanuts were obtained in China during the months of December, 1926, and January, 1927. In this work two commodity experts, two accountants, and an interpreter were employed.

A preliminary statement of information presenting the data obtained in the investigation was issued to the trade on June 7, 1928; a public hearing was held on July 17, 18, and 19, 1928; and briefs were filed on August 20, 1928.

The commission's report to the President shows peanuts produced in the United States to be of three general types—(1) the Virginia type, produced in Virginia and North Carolina, and imported from the Orient; (2) the Spanish type, produced throughout the Southern States but mainly in Georgia, Alabama, and Texas; and (3) the less important runner type, produced in scattered areas of Alabama, Georgia, and neighboring States.

The following table shows the domestic production, exports, imports for consumption, and the total quantity of peanuts available for consumption in the United States. The domestic production covers all types of peanuts. On the average about 50 per cent of the production is of the Virginia type, the type which is imported.

Peanuts: United States production, exports, duty-paid imports, and consumption of peanuts, 1917–1928

Year	Produc- tion	Exports 1	Imports for con- sumption ²	Total avail- able for consump- tion	Percentage of con- sumption supplied by imports
		Pou	nds (000 omi	tted)	
1917	919, 028 1, 432, 581 1, 240, 102 783, 273 841, 474 829, 307 633, 114 647, 762 745, 059 698, 475	$\begin{array}{c} 22,413\\ 12,319\\ 19,778\\ 9,366\\ 14,493\\ 12,621\\ 4,806\\ 3,127\\ 3,489\\ 4,232\end{array}$	49, 033 92, 936 43, 665 162, 551 63, 914 14, 187 67, 340 81, 073 102, 152 56, 383	945. 648 1, 513, 198 1, 263, 989 936, 458 890, 895 830, 873 695, 648 725, 708 843, 722 750, 626	5.18 6.14 3.45 17.36 7.17 1.71 9.68 11.17 12.11 7.51
1920 1927 1928	631, 825 809, 060	4, 727 5, 419	51, 165 68, 974	678, 263 872, 615	7.51 7.54 7.90

[On the basis of peanuts, not shelled]

¹ Combined shelled and unshelled.

² Shelled peanuts converted on basis that 1.5 pounds not shelled make 1 pound shelled.

The following table gives the United States production and imports for consumption of peanuts by grades for the year 1925. These data obtained by the commission in its investigation of peanuts are available for the year 1925 alone. It will be noted that the competition from imports has been chiefly in a few grades.

Peanuts: Estimated United States production, imports, and consumption of peanuts of the Virginia type, by grades, 1925

[000 omitted]

	United States produc- tion	Imports for con- sumption	Total available for con- sumption	
Estimated quantity of Virginia type farm stock purchased by mills	Pounds 225, 995 11, 641 214, 354		Pounds	
Production of cleaned and graded peanuts, not shelled: Jumbos Fancies Jumbo extras Extras	42, 378 45, 143 2, 401	8,946 (¹) (¹) (¹)	51, 324 45, 143	
Total	95,752	8, 946	104, 698	8.54
Production of graded shelled peanuts: Virginia Extra Large ³	10,163 2,276	49, 198 12, 944 (¹) (¹) (¹)	65, 179 47, 208 10, 163 2, 276 8, 857	75. 48 27. 42
Total	71, 541	62, 142	133, 683	46.48

No comparable imports.
 Include 8,420 pounds of Chinese 28/30 grade which are larger than Extra Large Virginias.

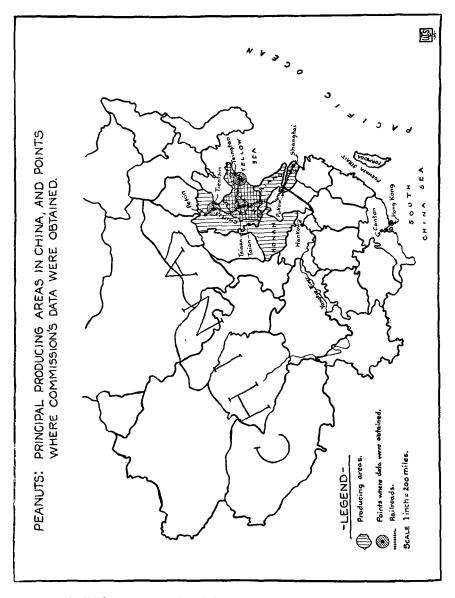
The investigation was confined to the Virginia and the Spanish types. Imports from the principal competing country are solely of the Virginia type, so that the cost comparison presented in the report relates to the Virginia type only. Data on the farm cost of producing peanuts of the Virginia type in the United States were obtained in northeastern North Carolina and in the adjoining section of Virginia. The areas covered were selected as of especial importance in peanut production and as typical in yield per acre, farm organization, labor conditions, and soil. Data were obtained from 232 farms for 5,855 acres planted to peanuts of the Virginia type, and producing a crop of 6,450,000 pounds in 1924, and for 6,070 acres producing 7,908,000 pounds in 1925.

Costs of cleaning, grading, and shelling Virginia peanuts were obtained from 14 mills, which in the crop year 1924–25 cleaned and shelled 99,304,000 pounds of farm-stock peanuts of the Virginia type, or approximately 44 per cent of the total production of that type in Virginia and North Carolina.

As evidence of the cost of producing peanuts in China, the commission obtained a day-by-day record of all reported factory sales of shelled and unshelled peanuts in Tsingtao, showing the quantities sold and the prices paid; prices and other data from invoices of shipment to the United States; costs incurred by three dealers in Tsingtao in the purchase of peanuts and in handling and grading them; direct data as to farm cost of production for a limited acreage. These

figures on farm cost, used as a check on the other data procured, were obtained under such conditions and for such a limited acreage as to make doubtful their representativeness. The scope of the investigation in China is pictured in the following chart.

The commission's report presents separate summaries for unshelled and for shelled peanuts.



For unshelled peanuts the following table compares the costs of domestic and Chinese peanuts, for the years 1924-25 and 1925-26, delivered in the principal United States markets. Domestic costs were taken to be the farm costs plus costs of milling and of transportation. In calculating the cost of Chinese nuts the prices of unshelled farm stock in Tsingtao were used as evidence of farm cost of produc-

tion. To these costs were added milling costs and transportation and other charges.

Peanuts, not shelled: Comparison of costs of production of domestic and Chinese peanuts, including transportation to the principal United States markets, 1924-25 and 1925-26

	Domestic Jumbo grade	Chinese average of 11/12, 12/13, 13/14 grades
Total cost, f. o. b. domestic milling point and Chinese port	8, 761	4.400
Transportation costs to-		
San Francisco	1. 242	. 517
New York	. 404	1.008
Total cost, including transportation:	0 105	4.018
(1) For domestic delivered at New York and Chinese at San Francisco		4.917
(2) For both domestic and Chinese delivered at San Francisco		4.917
(3) For both domestic and Chinese delivered at New York	9. 165	5.408
Amount by which average domestic delivered cost exceeds Chinese:	1	
(1)	4.2	48
(2)	.j 5. C	86
(3)	. 3.7	57

[Cents per pound]

The commission based its findings for unshelled nuts on a comparison of the total weighted average cost of domestic Virginia peanuts, of the Jumbo grade, delivered at their principal market, New York, with that of similar Chinese peanuts (11/12, 12/13, and 13/14 grades) at their principal United States market, San Francisco. The rate of duty necessary to equalize the costs of domestic and Chinese peanuts, including advantages and disadvantages in competition, was 4.25 cents per pound.

For shelled peanuts the following table compares the total cost of domestic and Chinese shelled peanuts, for the years 1924–25 and 1925–26, delivered at the principal United States markets. The costs for domestic peanuts are farm costs plus costs of milling and transportation; the costs for Chinese peanuts are prices of shelled farm-stock peanuts at Tsingtao which had been used as evidence^{*} of farm costs of production plus the milling costs and transportation and other charges.

Peanuts, shelled: Comparison of costs of domestic and Chinese peanuts, delivered at the principal United States markets, 1924–25 and 1925–26

		Domestic			Chinese		
	Extra large	No. 1	Average extra large and No. 1	30/32	38/40	Average 30/32 and 38/40	
Total cost f. o. b. domestic milling point and Chinese port	11.683	9. 189	10. 648	5, 294	4,679	5, 305	
Transportation costs to-			10.010	0,201	1.0.0	0.000	
San Francisco	. 993	. 993	. 993	.271	. 271	. 271	
Chicago Total cost, including transportation: (1) For domestic delivered at Chicago	. 636	. 636	. 636	1.281	1. 281	1. 281	
and Chinese at San Francisco (2) For both domestic and Chinese de-	12, 319	9,825	11.284	5, 565	4.950	5,306	
livered at San Francisco	12,676	10.182	11.641	5.565	4.950	5, 306	
livered at Chicago Amount by which domestic delivered costs exceed the Chinese:	12, 319	9,825	11. 284	6. 575	5,960	6.316	
(1)	6.754	4,875	5,978				
(2)	7.111	5.232	6.335				
(3)	5.744	3.865	4.968				

[Cents per pound]

The commission based its findings for shelled nuts on a comparison of costs of the domestic Virginia peanuts of the extra large and large grades, with those of similar Chinese peanuts (30/32 and 38/40 grades). The rate of duty necessary to equalize the differences in costs of domestic and Chinese shelled peanuts, including advantages and disadvantages in competition, within the limits prescribed in section 315, was 6 cents per pound.

Canned tomatoes and tomato paste.—The commission completed its investigation and on February 28, 1929, submitted to the President its report on the cost of production of canned tomatoes, instituted June 10, 1927, and of tomato paste, instituted October 14, 1927. The report was later published by the Finance Committee of the Senate.

The investigation covered (1) the costs of growing tomatoes for canning and for tomato paste, (2) the costs of canning tomatoes, and (3) the costs of manufacturing tomato paste.

CANNED TOMATOES

The farm costs of growing tomatoes and the costs of canning were obtained in California, Utah, Indiana, New York, New Jersey, and Maryland. In selecting the areas to be covered in each State, the factors taken into consideration were the importance of the area in tomato production and its representativeness in yield per acre, farm organization, labor conditions, and type of soil. The data obtained covered 214 farms producing 14,072 tons of tomatoes on 1,851 acres in 1926 and 13,367 tons on 2,018 acres in 1927. Costs of manufacturing tomato paste were obtained in California and Indiana.

Although no information was available to the commission as to the total cost of tomatoes per ton, or as to any item of the cost of growing them in Italy, the principal competing country, it is known that wages are lower in Italy than in the United States, that cultivation is more intensive, and that harvesting calls for more labor per ton harvested because of the small size of the Italian tomato. Lacking direct cost data, the commission used as evidence of foreign costs consular invoices of canned tomatoes and tomato paste shipped from Italy to New York during the period September, 1926, to August, 1927. These invoices covered 76 per cent of the imports of Italian canned tomatoes entered at New York City during this period, or about 58 per cent of the total imports for consumption in the United States. The invoice data were checked back to the records of the importers.

The comparability of domestic and Italian canned tomatoes was an important problem in this investigation. Italian tomatoes prepared for export to the United States are reported to be all of one grade. The peeled fruit is packed by hand, and by many buyers and brokers is considered the equivalent of the solid pack, extra fancy, or fancy grades of the United States. The Italian tomato has a different flavor from that of the domestic and is somewhat higher in total solids and sugars. Being almost uniformly solid and having a small core, it lends itself to a solid pack better than the more liquid American tomato. California and Utah tomatoes approximate Italian tomatoes in flavor but differ in appearance. Witnesses before the commission testified that during the war Americans of Italian origin when unable to obtain imported tomatoes purchased California standards with added puree.

In the United States the commission obtained costs of production for canned tomatoes of various grades, packed in cans of several sizes, but used in the final comparison only the costs of solid, fancy, or extra standard domestic tomatoes packed in Nos. 2, 2½, and 3 cans, the nearest in net content to the two sizes imported. Transportation costs per dozen cans were arrived at by obtaining the weighted average cost of transporting to New York by way of the Panama Canal from California and the rail rates from other points. The following table compares the domestic costs of production of canned tomatoes, including transportation to New York, with the total costs of Italian canned tomatoes landed at New York City, the cost of Italian canned tomatoes being calculated by assuming a 10 per cent profit in the invoice price of imports.

Canned tomatoes: Summary of costs of production in the United States and Italy, 1926, 1927

	United States weighted av- erage of No. 2, 2½, and 3 cans graded as solid, fancy, or extra stand- ard	Italy weighted average of No. 2 and No. 3 cans
Total cost at cannery on basis of— Prices paid by canner for tomatoes, 1926 Farm cost of production of tomatoes, 1926		1 \$0.9967
Farm cost of production of tomatoes, 1927 Simple average of farm cost of production of tomatoes, 1926-27. Transportation to New York (includes marine insurance for Italian)	1.2939 1.2500	. 0750
Total costs at New York on basis of- Price paid by canner for tomatoes, 1926 Farm cost of production of tomatoes, 1926	1, 3621 1, 3544	
Farm cost of production of tomatoes, 1927 Simple average of farm cost of production of tomatoes, 1926-27 Amount by which domestic costs at New York exceed Italian: Costs at New	1.3984	
York, on basis of— Price paid by canner for tomatoes, 1926 Farm cost of production of tomatoes, 1926	. 2827	
Farm cost of production of tomatoes, 1927 Simple average of farm cost of production of tomatoes, 1926-27 Foreign value	. 3706 . 3287	1. 0964
Amount of ad valorem duty necessary to equalize differences in costs of pro- duction on basis of— Price paid by canner for tomatoes, 1926	Per cent 27.09	
Farm cost of production of tomatoes, 1926 Farm cost of production of tomatoes, 1927 Simple average of farm cost of production of tomatoes, 1926-27	34.58	

[Per dozen cans]

¹ Calculated by assuming a 10 per cent profit in the invoice price of imports. (See transcript of minutes of public hearings, p. 456.)

From its investigation the commission reached the following findings: That for canned tomatoes Italy is the principal competing country and New York City is the principal market in the United States. The weighted average domestic cost of producing canned tomatoes of solid pack, fancy or extra standard grade, including transportation to New York, if based upon the price that canners paid for tomatoes in 1926, is \$1.36 per dozen cans; if based on the simple average farm costs of producing tomatoes in 1926 and 1927, it is \$1.40 per dozen cans. Transportation charges for domestic canned tomatoes to New York are practically the same, whether weighted by the production covered by the commission's investigation or by shipments that actually moved to New York City. The weighted average cost of production of like or similar canned tomatoes imported into the United States from Italy, including transportation to New York, is \$1.07 per dozen cans. Thus the weighted average cost of production of 1 dozen cans of tomatoes in the United States, including transportation to New York, exceeds the weighted average cost of 1 dozen cans of tomatoes imported from Italy by 29 cents, or 27.09 per cent of foreign value if the price paid by the domestic canner for tomatoes in 1926 be taken as the basis of comparison; and by 33 cents, or 30.67 per cent of foreign value, if the simple average of domestic farm costs of production in 1926 and 1927 be taken. The rate of duty necessary to equalize these differences in costs, within the limit provided in section 315 of the act of 1922, is 22½ per cent ad valorem.

TOMATO PASTE

The commission obtained the domestic costs of manufacturing tomato paste in the principal producing section of California and of Indiana. As evidence of foreign costs, it made an analysis of consular invoices of shipments of tomato paste from Italy to New York City in the period September, 1926, to August, 1927, inclusive. This analysis covered 89 per cent of the imported tomato paste entered at New York, or 52 per cent of the total imports for consumption into the United States.

Tomato paste is the concentrated product obtained by evaporating or drying tomatoes that have been freed of seeds, skins, and cores. In the daily diet of Italians and other Mediterranean peoples, tomato paste is an item of great importance for soups and sauces, and for other uses served by fresh or canned tomatoes, the competing products.

It usually takes about 5 pounds of the fresh fruit to make 1 pound of paste on a basis of 20 to 26 per cent concentrates. The commission's investigation shows that the domestic tomato paste is produced in various concentrations, and is packed in cans of several sizes, but that the bulk of it has a solid content of 20 to 26 per cent and is in 6-ounce cans, 200 to the case. Imports of Italian tomato paste consist almost entirely of paste concentrated to a total solid content of 20 to 26 per cent and packed in cans of about the same size as the domestic, 200 to the case.

Of the total domestic production of tomato paste, more than 50 per cent is manufactured in California where the tomatoes grown have much the same flavor as those grown in Italy. Much of the domestic tomato paste is artificially colored, but there is little difference in appearance between Italian and American pastes.

The commission made its final cost comparisons between domestic and Italian tomato paste of a total solid content of 20 to 26 per cent. The figures given in the following table are the costs as found for tomato paste, including transportation to New York City, and for Italian tomato paste landed at New York City, costs of the Italian paste being calculated by assuming a 10 per cent profit in the invoice price of imports. Tomato paste: Summary of cost of production in the United States and in Italy

	United States	Italy
otal costs at factory based on-		
Price paid by canner for tomatoes, 1926	\$8, 0391	1 \$8, 413
Farm cost of production of tomatoes, 1926	7,6916	
Farm cost of production of tomatoes, 1927	8,7015	
Simple average of farm cost of production of tomatoes, 1926-27		
Pransportation to New York (includes marine insurance for Italian)	. 5780	. 327
Price paid by canner for tomatoes, 1926	8.6171	8.740
Farm cost of production of tomatoes, 1926		0.110
Farm cost of production of tomatoes, 1927	9,2795	
Simple average of farm cost of production of tomatoes, 1926-27	8,7746	
Voreign value		9,254

[In cases of two hundred 6-ounce cans]

¹ Calculated by assuming a 10 per cent profit in the invoice price of imports. (See transcript of minutes of public hearings, p. 456.)

The commission reached the following findings with regard to its investigation of tomato paste: Italy is the principal competing country and New York the principal United States market. In the United States the weighted average cost of production of tomato paste with a concentration of 20 to 26 per cent of total solids is \$8.62 per case of two hundred 6-ounce cans; if based on the price paid by the domestic canners for tomatoes in 1926, it is \$8.77 per case of two hundred 6-ounce cans if based on a simple average of the domestic farm costs of production in 1926 and 1927. Transportation charges for domestic tomato paste to New York are practically the same, whether weighted by the production covered by the commission's investigation, or by the shipments that actually moved to New York City. For imported Italian paste of the same degree of concentration as the domestic, the weighted average cost, including transportation to New York City as evidenced by invoice prices was found to be \$8.74 per case The rate of duty, as shown by the of two hundred 6-ounce cans. differences in costs of production of tomato paste in the United States and in Italy, including transportation to New York City, necessary to equalize said differences within the limits provided in section 315 of the tariff act of 1922, is therefore 20 per cent ad valorem.

Eggs and egg products.—The President, on February 20, 1929, proclaimed an increase in the duty on whole eggs, egg yolk, and egg albumen, frozen or otherwise prepared or preserved, and not specially provided for, from 6 cents per pound to 7½ cents per pound.

This change in rate followed an investigation for the purposes of section 315 of the tariff act of 1922 of eggs and egg products instituted by the commission on August 4, 1926. Field work was conducted in the United States and in China, the principal competing country, in the latter part of 1926 and in 1927. A public hearing was held in the offices of the commission on June 10, 1928, prior to which a preliminary statement was issued presenting information obtained in the investigation. Briefs were filed on August 22, 1928.

The ascertainment of costs of production in the investigation was confined to frozen and dried egg products and the final cost comparison to frozen egg products. Figures obtained in the investigation indicated that domestic eggs come largely from farms where poultry raising for eggs is a secondary or minor enterprise. On such farms

no record is kept of feed consumed or of the value of the labor required. In the circumstances, dependable cost data were not obtainable for the major part of the domestic production of eggs in the shell. In China it was impossible to obtain farm costs of production because of disturbed conditions incident to civil warfare.

The commission's report shows that there is no direct competition between domestic and imported eggs in the shell. From 1924 to 1927, inclusive, imports of shell eggs averaged less than one-tenth of 1 per cent of domestic production. Imports are chiefly preserved duck eggs from China for the use of the Chinese residing in the United States.

Cost comparisons are not made for dried eggs for the reason that during the decade ended with 1926 there was no commercial production of dried eggs in the United States. In 1927 there was a shortage of Chinese eggs, to meet which two domestic companies (importers) began to dry egg yolks and whole eggs, but neither company was in the business in 1928.

On the basis of the figures obtained for 1926, the year covered by the investigation, the rate of duty necessary to equalize the differences between the cost of production of frozen eggs (whole eggs, albumen and yolks) in the United States and in China, including transportation to New York, was 7.658 cents per pound if transportation charges were weighted by production, and 7.531 cents per pound if weighted by actual shipments to New York.

On the basis of a cost comparison for the 3-year period 1926-1928, the cost of production of domestic frozen eggs, estimated from the price paid in 1926 and from the quoted prices of breaking stock in 1927 and 1928, including transportation to New York, was found to exceed the cost of production of frozen eggs in China by 5.49 cents per pound, weighting transportation charges by production; by 5.36 cents per pound, weighting transportation charges by actual shipments to New York.

In the three years 1925, 1926, and 1928 there was little variation in the wholesale price of breaking-stock eggs. Since the cost of breaking-stock eggs represents 90 per cent of the total cost of frozen eggs in the United States, it is fair to assume that in those three years frozen eggs were produced at approximately the same cost. The year 1926, therefore, appears to be a normal and representative period to take for recent costs in the domestic frozen-egg industry. For China, the prices paid at interior points, and transportation costs, are available only for the year 1926. There was a slight upward trend in wholesale prices of shell eggs in Shanghai from 1926 to 1928, but the higher prices may have been due to unfavorable business conditions caused by the revolution. If the higher prices prevailing in 1927 and 1928 are used as a basis of calculation, the costs of the frozen eggs in China are increased by only about 8 per cent.

The rate of duty necessary in the judgment of the commission to equalize the differences in cost of production of whole eggs, egg yolk, and egg albumen, frozen, in the United States and in the principal competing country, for the year 1926, was 7½ cents per pound.

The following table gives the total costs in 1926 of domestic and Chinese frozen eggs.

Frozen eggs: Comparison of weighted average costs of production of domestic and Chinese frozen eggs, including transportation and other charges to New York, 1926

Item	United States	China 1
Manufacturing costs: Raw material Labor Factory overhead General and administrative expense. Containers.		12, 587 . 186 . 930 . 880 . 659
Total Less credit from sale of egg cases	24. 702 . 222	15. 242
Net manufacturing cost ²	24. 480 ⁸ 1. 511	15. 242 4 3. 091
Total cost, including transportation and other charges from plants to New York, weighted by production	-	18. 333 358
ments	³ 1. 384	4 3. 091
York, weighted by actual shipments	25. 864 7.	18. 333 531

[Cents per pound]

¹ Foreign-cost data were converted to United States money by the following methods: Raw material and labor at the average rate of exchange for the breaking season of 1926 (March to July, inclusive); all other manufacturing costs at the average for the year 1926; transportation charges at the rate of exchange in effect on the date of the invoice.

¹ Interest is not included in either foreign or domestic costs.
 ³ Interest is not included in either foreign or domestic costs.
 ³ Includes freight, refrigeration in transit, and storage charges at New York for 1 month.
 ⁴ Includes packing charges; marine insurance; ocean freight; consular charges, wharfage, river, harbor, and conservancy dues at Shanghai, Ohina; and storage charges for 1 month at New York.

Commissioner Dennis held that any conclusion drawn from the data gathered by the commission was largely inferential and conjectural, but, doubtful as to whether exact costs could be calculated, he agreed to give the domestic producer the benefit of the doubt and joined the other commissioners in recommending a duty of 7½ cents per pound.

Milk and cream.-On May 14, 1929, the President proclaimed increases, effective June 13, 1929, in the duty on fresh milk from 21/2 to 3¼ cents per gallon and in the duty on cream from 20 to 30 cents. per gallon.

The investigation of the costs of production of milk and cream in the United States and in Canada, the principal competing country, was instituted on March 4, 1926, in compliance with Senate Resolution No. 146, adopted February 17, 1926. At a preliminary public hearing, held March 24 and 26, 1926, the commission presented for discussion certain problems that had arisen in planning the investi-This hearing was attended by representatives of the milk gation. and cream importers and producers, who discussed in detail the questions raised.

A field study occupied approximately four months, from July to ctober, 1926. During this time a staff of 10 farm-cost accountants October, 1926. and 2 clerks obtained 894 farm records in the United States and 197 Four cost accountants obtained cost data from records in Canada. 77 creamery plants in the United States and from 22 plants in Canada.

The investigation covered the following domestic producing regions: (1) The Boston milk shed, including all of New England except the

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northern part of Maine; (2) the New York milk shed, including the State of New York and the counties in northeastern Pennsylvania and northern New Jersey, contributing to the supply of the New York markets; (3) the Philadelphia milk shed, including 20 counties in southern and southeastern Pennsylvania, all of Delaware, the Eastern Shore of Maryland, and three counties in western Maryland; and (4) areas in the North Central States—Michigan, Ohio, Indiana, Iowa, Minnesota, and Wisconsin—which ship cream to the eastern markets. In Canada the investigation covered all counties in Quebec and Ontario bordering the United States and lying along the St. Lawrence River, the principal sources of imports of milk and cream into this country.

The map opposite this page illustrates the scope of the investigation in the United States and in Canada.

The commission's report makes separate cost comparisons for milk and cream. For milk, the comparison was limited to production cost areas in the United States and Canada supplying plants situated near the border line between the two countries. Milk imported into the United States from Canada enters near the border, and the plants receiving it separate it for cream, make it into condensed milk or other products, or reship it to New York City or Boston for consumption as market milk. During the fiscal year ended April 30, 1926, about 60 per cent of the imported milk went into milk products in the domestic border plants. The domestic regions supplying these plants are chiefly in northern Vermont and northern New York. Thus, the bulk of the milk imported from Canada is processed in the same plants, with the same equipment, and at the same cost as domestic milk. Most of this Canadian milk is hauled by the individual owner, or is collected by a truck hauling for a number of farmers living in a zone about 20 miles wide; it incurs practically the same expense as domestic milk from northern Vermont and New York. For purposes of comparison, therefore, the costs of production for both countries were calculated on the farm costs, including the costs of hauling to the domestic border plants.

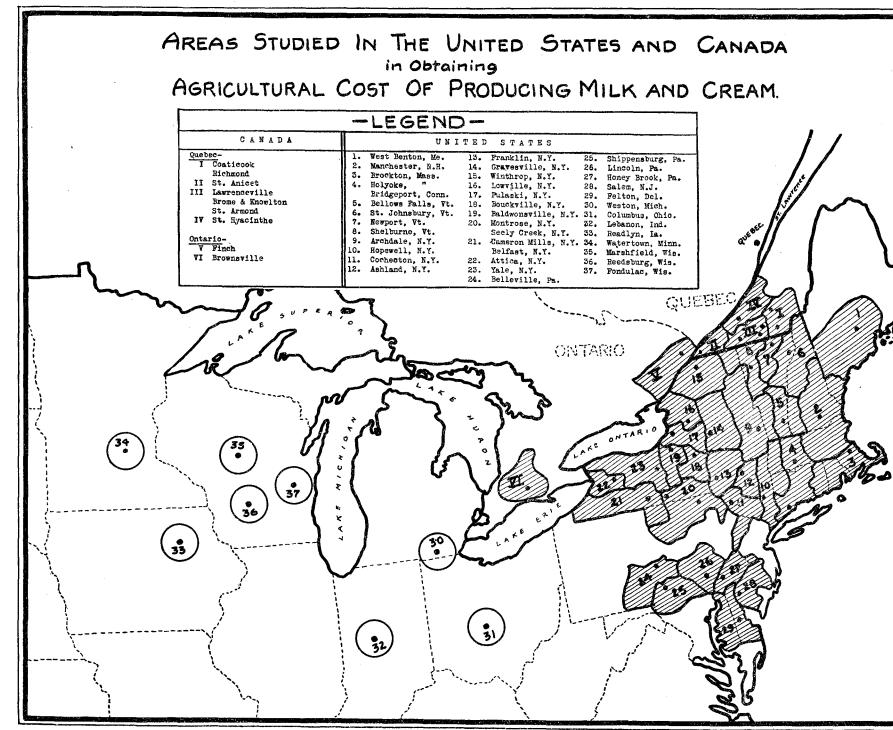
The weighted average farm cost of producing milk in the United States (northern Vermont and northern New York) for the year ended April 30, 1926, was found to be \$0.255 per gallon, and in Canada, \$0.212 per gallon, a difference of \$0.043 per gallon.

Milk for fluid use: Summary of costs of production in the United States and Canada, based upon delivery to United States border plants,¹ May 6, 1925, to April 30, 1926

[Dollars per gallon]

	United States				
	North- ern Ver- mont	North- ern New York	Western New York	Weighted average	Canada
A verage butterfat testper cent Farm cost of producing milk, including interest ² Difference in cost		3. 42 \$0. 260	3. 51 \$0. 250	3. 56 \$0. 255	3. 40 \$0. 212 . 043

(a) The milk of both countries being handled in the same plants, the plant costs are omitted as being identical;
 (b) transportation is for hauling to country plants and is already included in the farm cost.
 ² For details of cost see Table 11, p. 24, of the printed report to the President.



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Canadian cream enters into competition with domestic cream at the three principal markets-Boston, New York, and Philadelphia. Of the total imports of cream, in the year 1925-26, 20 per cent went to Boston, 18 per cent to Metropolitan New York, 12 per cent to Philadelphia, and the remainder, 50 per cent, to cities in the milk sheds supplying cream to these markets. Of the domestic cream consumed in Boston, New York, and Philadelphia, 37 per cent was supplied by areas in the Boston milk shed, 38 per cent by the New York milk shed, 13 per cent by the Philadelphia milk shed, and 12 per cent by creameries in six North Central States. Cost comparisons are therefore made between the weighted average cost for these areas and the weighted average cost in Canadian areas shipping to the United States. Three methods are employed in the final comparison. In Method I, Boston is considered the principal competing market in the United States, and Canadian transportation costs thereto are added to the Canadian farm and plant costs. The amount actually expended in moving cream from the producing center in the Boston area to the city of Boston constitutes the domestic transportation costs. According to this method, the weighted average cost of production of cream, including interest and transportation, for the fiscal year ended May 1, 1926, is \$2.680 per gallon for the United States, and \$2.279 for Canada. Costs in the United States are found to exceed costs in Canada by \$0.401 per gallon.

In Method II, New York is considered the principal competing market in the United States, and Canadian transportation costs thereto are added to the Canadian farm and plant costs. The amount expended in moving cream from the areas in the New York milk shed and from the North Central States to New York City constitutes the domestic transportation costs. According to this method, the domestic costs exceed the foreign costs by \$0.412 per gallon.

In Method III, an average of the expended transportation costs incurred in moving all the cream from the three eastern milk sheds and from the North Central States to the three eastern Metropolitan markets are compared with the average costs of transporting Canadian cream to these markets. According to this method, the domestic costs exceed the foreign costs by \$0.346.

The following tables give in detail the final cost comparisons.

Cream: Summary of cost of production in the United States and Canada, for cream with an average butterfat test of 40 per cent, including transportation to Boston, Mass. (Method I), May 1, 1925, to April 30, 1926

	Boston milk shed	Canada
Average butterfat test (per cent)	40.00	40.00
Farm cost of producing milk for cream, including interest	\$2.480	\$2.010
Plant-handling costs	.154	.178
Total cost, not including transportation	2.634	2. 188
Transportation to Boston, Mass	.046	. 091
Total cost, including transportation Amount by which United States cost exceeds Canadian cost	2. 680	2. 279 . 401

[Dollars per gallon]

Cream: Summary of cost of production in the United States and Canada, for cream with an average butterfat test of 40 per cent, including transportation to New York, N. Y. (Method II), May 1, 1925, to April 30, 1926

	New York milk shed	Canada
A verage butterfat test (per cent)	40.00	40.00
Farm cost of producing milk for cream, including interest	\$2.420	\$2.010
Plant-handling costs	.218	.178
Total cost, not including transportation	2. 638	2. 188
Transportation to New York, N. Y	. 057	. 095
Total cost, including transportation. Amount by which United States cost exceeds Canadian cost	2.695	2. 283 . 412

[Dollars per gallon]

Cream: Summary of cost of production in the United States and Canada, for cream with an average butterfat test of 40 per cent, including transportation to the normal principal market for each of the respective milk sheds (Method III), May 1, 1925, to A pril 30, 1926

	North Central States	Phila- delphia milk shed	New York milk shed	Boston milk shed	Weight- ed aver- age	Canada
Average butterfat test (per cent) Farm cost of producing milk for cream,	40.00	40.00	40.00	40.00	40.00	40.00
including interest Plant-handling costs	\$1.690 .159	\$2. 490 . 294	\$2.420 .218	\$2.480 .154	\$2, 370 , 195	\$2,010 ,178
Total cost, not including transporta- tion Transportation to the normal principal	1. 849	2. 784	2. 638	2. 634	2. 565	2. 188
market for each of the respective milk sheds	. 176	. 038	. 057	. 046	. 065	. 096
Total cost, including transportation_ Amount by which United States cost ex-	2. 025	2.822	2.695	2.680	2.630	2, 284
ceeds Canadian cost						.346

[Dollars per gallon]

The rate of duty necessary to equalize the differences in costs of producing cream in the United States and in Canada, within the limits of section 315 of the tariff act of 1922, is thus found to be \$0.30 per gallon.

Commissioner Dixon appended a statement to the report giving his reasons for withholding his signature.

Flaxseed.—On May 14, 1929, the President issued a proclamation, effective June 13, increasing the duty on flaxseed from 40 to 56 cents per bushel of 56 pounds. The President's action followed a report by the Tariff Commission of the results of an investigation instituted August 4, 1926, of the costs of producing flaxseed in the United States and in Argentina, the principal competing country. Prior to that date a number of applications for such an investigation had been received from producers and their representatives.

In a field study, begun November 30, 1926, and completed January 20, 1927, cost data for the crop year 1925 were obtained from 285 flaxseed producers and 41 elevators, and for the crop of 1926 from

324 flaxseed producers and 41 elevators. The records were taken in the principal flaxseed producing regions of Minnesota, North Dakota, South Dakota, and Montana.

Objections by the Argentine Government made it impracticable to obtain cost data from the producers in Argentina, the principal source of imports. As an evidence of foreign costs prices on invoices of imports of flaxseed from Argentina in 1925, 1926, and 1927 were used. Supplemental information concerning the Argentine flaxseed industry was obtained from other available sources.

A preliminary statement of the information obtained in the investigation was issued to interested parties, and on December 5 and 6, 1928, a public hearing was held at the offices of the commission. Testimony was given at the hearing by a special committee from North Dakota appointed by the flaxseed producers to analyze the commission's preliminary statement, by the Commissioner of Agriculture of Minnesota, by representatives of the Farm Bureau Federation, and by representatives of the agricultural colleges of South Dakota and Montana.

New York City is the principal market for flaxseed in the United States, and there a large percentage of the crushing is done. In 1925 and 1926, 38 per cent (in terms of quantity) of all flaxseed consumed in the United States was crushed at New York. Of the total domestic consumption of Argentine seed in the same years, 91 per cent was crushed at New York, and of the total consumption of domestic seed, about 11 per cent.

The weighted average cost of Argentine flaxseed, as evidenced by invoice prices in the crop years 1925 and 1926, including transportation to New York, was found to be \$1.983 per bushel of 56 pounds, and that of domestic flaxseed, including transportation to New York during the calendar years 1925 and 1926, to be \$2.539 per bushel of 56 pounds—a difference of \$0.556 per bushel.

The following table shows, for the years 1925 and 1926 and the 2-year average, a comparison of the domestic and foreign costs of production of flaxseed, including transportation to the chief consuming markets, New York and Buffalo. Flaxseed: Comparison of domestic and foreign costs of production for 1925, 1926, and the 2-year average, including transportation charges to the principal con-suming markets, New York and Buffalo

	1925		19	26	2-year average 1925, 1926	
	United States	Argen- tina 1	United States	Argen- tina 1	United States	Argen- tina
Cost of production: Farm cost	\$2, 150		\$2.160		\$2.155	
Elevator cost	. 078		. 092		. 085	
Total	2, 228	² \$1. 894	2.252	2 \$ 1. 797	2.240	² \$1. 846
Transportation charges to3						
New York Buffalo	. 304	.128	4.294 .175	.147 .225	. 299 . 180	. 137 . 215
Total cost, including transportation to—	. 100	.200	. 175	. 225	. 100	. 210
New York	2.532	2.022	2,546	1.944	2.539	1, 983
Buffalo	2, 413	2.100	2.427	2.022	2.420	2.061
Amount by which domestic costs exceed Argentine costs, including transporta-						
tion to-						
New York		10	.6	02	5.5	
Buffalo	.3	13	. 405		. 359	

[Per bushel]

¹ Invoice prices of imports from Argentina during 1926 have been used as evidence of the cost of the 1925

¹ Invoice prices of imports from Argentina during 1926 have been used as evidence of the cost of the 1925 crop and invoice prices of 1927, as evidence of cost of the 1926 crop.
² Includes loading expenses, commissions, and consular charges in Argentina. Argentine export taxes are not included.
³ There is practically no difference in the transportation costs on domestic flaxseed whether charges to Duluth be weighted by the production of all areas studied or by the production of only the areas in the Duluth shipping territory. On imported flaxseed from Argentina transportation charges include ocean freight, marine insurance, and landing charges at New York.
⁴ No shipments by barge canal in 1926. The weighted average rate for rail and barge shipments between Buffalo and New York for 1925 was used in computing transportation costs for 1926.
⁵ Vice Chairman Dennis and Commissioners Dixon and Clark maintain that the export tax should be included in the costs of Argentine flaxseed. If the export tax of \$0 017 per bushel on flaxsed from Argentine for the argenting the argenting framework.

be included in the costs of Argentine flaxseed. If the export tax of \$0.017 per bushel on flaxseed from Argentine flaxseed, included in the Argentine costs of production, the difference in the costs of domestic and Argentine flaxseed, including transportation to New York, exclusive of duty, is \$0.539 per bushel.

Vice Chairman Dennis and Commissioners Dixon and Clark, in separate statements appended to the report, commented on several difficulties encountered in making cost comparisons.

Onions.-The President's proclamation of an increase in duty on onions, from 1 cent to 1½ cents per pound, became effective January 21, 1929.

Prior to the issuance of the proclamation, the commission had submitted to the President a report on its investigation as to the cost of producing domestic and imported onions, after an investigation for the purposes of section 315, instituted July 23, 1926. Applications for such an investigation had been received from Indiana, California, Texas, and Utah.

Domestic costs were obtained for 1926 from 405 onion growers and from 20 local dealers in the principal onion-producing areas of Texas, California, Washington, Idaho, Utah, Colorado, Indiana, Ohio, Michigan, New York, and Massachusetts. For this work a field For this work a field crew of six was employed about six months. In addition, studies were made in New York and Chicago of conditions and methods of marketing imported and domestic onions, and later in New Mexico and Utah of the cost of crating domestic onions of the Spanish type.

Information concerning the onion industries of Spain and Egypt was sought from various sources, and a study was made of some 1,200 invoices of importations of onions from these countries.

A preliminary statement of the information obtained in the investigation was issued to the trade on January 9, 1928; a public hearing was held on February 9, 10, and 11, and briefs were filed on March 5 and 6, 1928.

Subsequent to the hearing the commission's experts again went to New York City to obtain more detailed data on matters discussed in the preliminary statement of information—in particular, information concerning United States weighers' weights, condemnations of the New York City Board of Health, and sales weights for imported onions.

Costs were obtained for the years 1925 and 1926 for the three principal types of onions—the strong, the domestic Spanish, and the Bermuda. The wide scope of the investigation is illustrated by the map on page 174.

Spain was found to be the principal competing country.

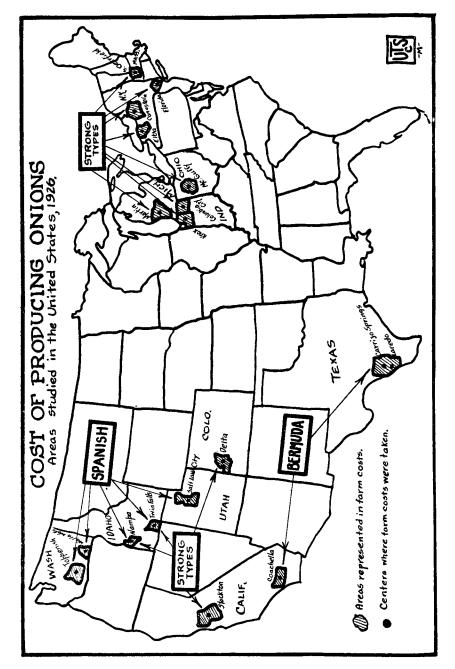
In the commission's report the final comparison of the costs of domestic and imported onions is made by four distinct methods. By Method I the 2-year average cost of imported Spanish onions landed at New York City as evidenced by invoice prices of purchased shipments is compared with the combined average cost of domestic Spanish onions in crates and of domestic Bermuda onions in crates. For domestic onions transportation costs to New York City are weighted on the basis of production. By Method I domestic costs are found to exceed foreign costs by 1.505 cents per pound.

Unable to obtain farm costs of production in Spain, the commission used in Method II farm prices in Spain, as reported by the United States consul at Valencia, and other items of cost involved in delivering Spanish onions to New York as obtained from a study of consular invoices of purchased shipments. To determine the cost f. o. b. port in Spain, the cost of containers, inland transportation, cartage, consular, and export fees were added to the farm price. The item of cost for packing shown in the invoices was not included in the f. o. b. cost, since it represented a labor expense for careful hand grading and packing not included in the costs of domestic onions.

In the report the 2-year average cost thus obtained of imported Spanish onions in crates landed at New York City is compared with the combined cost of domestic Spanish onions in sacks and Bermuda onions in crates. For the domestic onions transportation costs to New York City are weighted by the quantity produced. The cost of the imported onions is computed on the basis of United States weighers' weights less condemnations. The farm prices were reported by the United States Consul in American dollars; the other items of costs of Spanish onions taken from the invoices are converted into American dollars at the rate of exchange shown on the importers' books of record to have been paid. Transportation costs for the imported onions are the average rate from foreign ports to New York City, as ascertained from the invoices studied. By Method II the domestic costs are found to exceed the foreign cost by 1.623 cents per pound.

By Method III the 2-year average cost of imported Spanish onions landed at New York City, as evidenced by invoice prices of purchased shipments, is compared with the combined average costs of domestic Spanish in sacks and domestic Bermudas in crates. For the domestic onions, the costs, f. o. b. local shipping points are weighted by pro-

duction, and the transportation costs are weighted by unloads at New York City. The cost of the imported onions is computed on the basis of the United States weighers' weights less condemnations. The cost in pesetas is converted into dollars at the rate of exchange



actually paid as shown on the importers' books of record. The item of cost for packing shown in the invoices is not included in the f. o. b. cost, as it represents labor expense for careful hand grading and packing not included in the costs of domestic onions. Farmers' or dealers'

profits are not included in the domestic costs of production, but such profits presumably are included in the invoice prices of Spanish onions. In the absence of definite information concerning the amount of such profits, a deduction for profits of 8 per cent from the invoice f. o. b. price less packing is made in order to arrive at foreign costs for comparison with domestic costs. The transportation cost for the imported onions is the weighted average rate from the foreign ports to New York City, as ascertained from the invoices studied. By Method III the domestic costs are found to exceed the foreign costs by 1.552 cents per pound.

By Method IV the 2-year average cost of imported Spanish onions in crates landed at New York City, as evidenced by invoice prices of purchased shipments, is compared with the costs of domestic Bermuda onions in crates. For the domestic onions, the costs f. o. b. shipping points are weighted by production and the transportation costs are weighted by unloads at New York City. The cost of the imported onions is computed on the basis of the United States weighers' weights less condemnations. The cost in pesetas is converted into American dollars at the rate of exchange actually paid as shown in the importers' books of record. The transportation cost for the imported onions is the weighted average rate from the foreign port to New York City, as ascertained from the invoices studied. By Method IV, the domestic costs are found to exceed the foreign costs by 1.428 cents per pound.

In view of all the data gathered in the investigation, the commission is of the opinion that the rate of duty necessary to equalize the difference in the cost of production of onions in the United States, and of like or similar onions in Spain, within the limits of section 315, is 1.5 cents per pound.

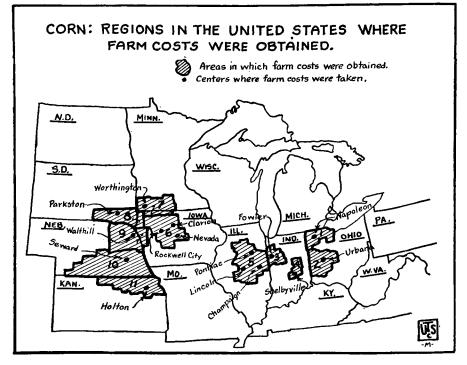
Corn or maize.—An investigation of the cost of producing corn was instituted on June 24, 1927, for the purposes of section 315 of the tariff Prior to that time the commission had received a numact of 1922. ber of letters from persons interested in obtaining a higher duty on corn; some of these letters had been transmitted by the President. Domestic field work was begun in August, 1927, and completed in A preliminary statement of the informa-October of the same year. tion obtained in the investigation was distributed to interested parties, and a public hearing was held at the office of the commission in Washington on August 1, 1928. On September 1, 1928, a brief was filed by the American Farm Bureau Federation, representing the domestic producers of corn. The commission's report was submitted to the President on October 22, 1928, and later was published by the Senate Committee on Finance. On August 16, 1929, in response to a request by the President, the commission submitted a supplementary statement giving more recent information in regard to production, imports, and prices than that contained in the original report.

The commission's investigation of the domestic industry was confined to surplus corn sections of eight Central States, commonly known as the Corn Belt—Ohio, Indiana, Illinois, Iowa, southern Minnesota, southeastern South Dakota, eastern Nebraska, and northeastern Kansas. Centers for study were determined after conferences with representatives of State agricultural colleges and State statisticians in charge of reporting crop estimates. Selection of the areas to be covered in each State was made on the basis of the quantity of corn sold and the representativeness of the areas in yield per acre, farm organization, labor conditions, and type of soil.

The map below shows the location of the surplus corn sections studied and the points in each area covered by the commission's cost investigation.

Because of representations made by the Argentine ambassador in Washington, it was deemed impracticable to obtain data in Argentina as to the costs of growing corn. As evidence of such costs, prices and other data were obtained from consular invoices of imports entered at New York City, San Francisco, and Seattle. The commission also gathered from published reports of the Argentine Minister of Agriculture information as to market prices, yield per acre, wages paid, and value of land in the corn-growing sections of that country.

Corn is one of the leading crops of the United States, whether judged by quantity produced, total value of the crop, acreage planted,



or value per acre. More corn is grown in the United States than in all other countries together, but, considering the quantity produced, the commercial movement is relatively small. The greater part of the crop is consumed on the farms where it is grown. Of the total grain corn produced from 1923 to 1927, approximately 87.5 per cent (2,000,000,000 bushels per year) was fed to animals; the very substantial remainder, when considered quantitatively, was used in the manufacture of foodstuffs for human consumption. In addition to the corn grown for grain, to which some 83,000,000 acres were devoted in 1926, about 12,000,000 acres were used for "hogging down" and "grazing over" and over 4,000,000,000 acres for the production of silage.

Since 1910 the largest quantity of corn imported in any single year was 12,289,000 bushels in 1914. Between 1921 and 1924 there was an increase from 158,748 bushels to 3,906,000 bushels, then in 1926 a

decline to about 1,000,000 bushels, and again in 1927 an increase to approximately 4,900,000 bushels. The 1927 import was less than three-tenths of 1 per cent of the total domestic production in that year, but amounted to 2.2 per cent of the receipts at the 11 primary markets—Chicago, St. Louis, Kansas City, Peoria, Omaha, Indianapolis, Milwaukee, Minneapolis, Duluth, Toledo, and Detroit—in the year beginning November, 1926.

Year	Rate of duty	Quantity	Value	Duty collected	Value per bushel	Equiva- lent ad valorem rate
1912 1913 1914	do do do do	865, 124 524, 175	\$72, 341 37, 843 47, 853 470, 176 318, 542	78, 626	\$0. 613 . 724 . 896 . 543 . 608	
1915. 1916 1917	Freedo do do do do	11, 765, 187 9, 893, 573 5, 210, 470 2, 267, 414 3, 197, 051	7, 564, 699 6, 083, 390 2, 866, 335 1, 488, 617 3, 482, 211		. 615 . 550	
1918	Free	$156, 362 \\ 11, 212, 717 \\ 7, 784, 482 \\ 113, 419 \\ 45, 329 \\ 112, 790 \\ 202, 776 \\ 3, 905, 667 \\ 1, 123, 193 \\ 123, 193$	$114,454 \\10,966,911 \\9,296,991 \\128,941 \\56,860 \\115,605 \\228,262 \\3,393,868 \\1,223,276 \\$	 6, 799 14, 522 30, 416 585, 850 168, 479		11. 96 14. 64 13. 33 17. 26 13. 77
1926	do	1, 055, 895 4, 916, 615	908, 911 3, 906, 699	158, 384 737, 492	. 861 . 795	17. 43 18. 88

Corn: Imports for consumption, 1910	0-1927
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The statistics of imports of corn into the United States by principal countries of origin show the predominance of Argentina as a source of imports. In 1927, 5,154,000 bushels, or about 94 per cent of the total, came from that country. For the purposes of the investigation, Argentina was, therefore, the principal competing country. Exports from Argentina to the United States represent only a small proportion of the total exports from that country. During 1924, 1925, and 1926 the exports to the United States were 1 per cent, 1.25 per cent and four-tenths of 1 per cent of the total quantity exported each year from Argentina.

Although imports of corn from Argentina are of the flint variety and domestic corn is almost entirely of the softer dent variety, they are used for approximately the same purposes and are readily substituted for each other. In the manufacture of corn meal, corn starch, corn sirups and sugars, and other corn products, they are freely interchanged. Both are used as feed for poultry and birds, and for hogs and other animals. The small kerneled flint corn is preferred for feeding pigeons and other birds and to some extent for feeding poultry; the dent variety for feeding hogs and other animals. Argentine corn cracked for animal feeds competes directly with domestic corn. Competition is limited, however, to two important deficiency areas—(1) the Atlantic coast within a relatively short distance from New York City; (2) the Pacific coast in the important poultry producing centers of California and in and around Seattle, Wash., and Portland, Oreg.

The table following gives the prices of corn at Chicago, Liverpool, and Buenos Aires, 1900 to 1927.

Corn: Comparison of annual average prices in Chicago, Buenos Aires, and Liverpool, 1900-1928

Year	Chicago No. 3 yellow ¹	Liver- pool ²	Buenos Aires ³	Excess of Liver- pool over Chicago	Excess of Liver- pool over Buenos Aires	Duty	Excess of Chicago over Buenos Aires
1900	$\begin{array}{c} . \ 62 \\ . \ 47 \\ . \ 49 \\ . \ 48 \\ . \ 44 \\ . \ 50 \\ . \ 59 \\ . \ 53 \\ . \ 71 \\ . \ 53 \\ . \ 70 \\ . \ 79 \\ 1. \ 11 \\ 1. \ 63 \\ 1. \ 62 \\ 1. \ 52 \end{array}$					15 cents per bushel do	$\begin{array}{c}061\\ +.011\\ +.065\\01\\066\\ +.033\\ +.063\\ +.033\\ +.166\\04\\ +.167\\ +.162\\ +.97\\ +.877\\ +.827\end{array}$
1922 1923 1923 1924 1925 1925 1926 1927 1928	. 55 . 73 . 88 1. 09 . 76 . 84	. 80 . 81 . 96 1. 02 1. 09 . 84 1. 06 1. 06	.70 .74 .77 .84 .95 .66 .70 .92	. 24 . 26 . 23 . 14 . 00 . 08 . 22 . 08	.07 .19 .18 .14 .18 .36	do 	19 04 +. 04 +. 14 +. 10 +. 14

[Per bushel]

¹ No. 3 yellow weighted average price per bushel of reported cash sales. From 1924 Agriculture Yearbook. Year beginning in previous November. ¹ Prices of American mixed maize from the Journal Royal Statistical Society, year 1927, from Bromhall's

Corn Trade News.

³ Quotations from Anuario de Estadistica Agro-Pecuaria 1925-26, sec. B, p. 129. Argentine Minister of Agriculture, years 1926, 1927, from Review of River Plate and Bolsa de Cereals.

The commission summarizes its findings of fact as follows:

1. Argentina is the principal competing country.

2. Commissioners Marvin, Brossard, and Lowell are of the opinion that the present duty of 15 cents per bushel of 56 pounds prescribed in paragraph 724 of Title I of the tariff act of 1922 does not equalize the difference in costs of production in the United States and in said principal competing country; that San Fran-cisco is the principal port of entry and the chief competing market; that for the final cost comparison in this investigation the domestic farm costs of production should include the charge for the use of corn land calculated at the rate of 6 per cent interest on the value of the farm land used in the production of corn; that the weighted average cost of production should be obtained by weighting the area and State unit costs respectively by the production in the respective areas and States included in the investigation; that transportation costs to San Francisco should be included for the domestic corn from all of the eight surplus producing States for which the commission has cost of production data (Ohio, Indiana, Illinois, Iowa, Minnesota, South Dakota, Nebraska, and Kansas); that in determining the weighted average of domestic costs of transportation, the freight rate to San Francisco from each producing area, respectively, for which the commis-sion ascertained costs, production should be weighted by the production of corn in that area; and that Argentine costs of production should be based on the weighted average of the invoice prices of Argentine corn during the two years, January 1, 1926, to December 31, 1927, including transportation costs to San Francisco.

The weighted average cost of production of corn in the United States for the two years, 1926 and 1927, including transportation to San Francisco, as shown in Table 43, page $44_{,a}$ is \$1.284 per bushel of 56 pounds, and the average cost of

· Printed report to President.

production of Argentine corn for the two years, 1926 and 1927, including transportation to San Francisco, is \$0.936 per bushel of 56 pounds. Said cost of production for the United States exceeds said cost of production for Argentina by \$0.348 per bushel of 56 pounds.

The rate of duty necessary to equalize said difference in costs of production of corn in the United States and in said principal competing country, within the limit specified in section 315 of the tariff act of 1922, is a specific duty of 22½ cents per bushel of 56 pounds.

3. Commissioners Dennis, Dixon, and Clark are of the opinion that New York is the principal port of entry and the chief competing market; that the weighted average cost of production of domestic corn should be obtained by weighting the unit costs of the various areas and States by the surplus corn produced in such areas and States, respectively; that domestic costs, as a rule, should include the cash rental charge for the use of corn land, but the evidence of cash rental is so meager in the report that these domestic costs must necessarily include the charge for the use of corn land calculated at the rate of 6 per cent interest per annum of the value of the farm land used in the production of corn; that the domestic cost should be calculated for the surplus producing States shipping corn to New York, where it meets the foreign corn in competition, such States shipping toin to New Tork, Illinois, Iowa, and Minnesota; that the weighted average costs of transportation to New York from these surplus producing States should be determined by weight-ing the freight rates from each State to New York on the basis of surplus produc-tion; that as farm costs of production in Argentina could not be procured, the total costs of the domestic corn delivered at New York should be compared with the invoice prices of Argenting corn delivered at New York should be compared with the invoice prices of Argentine corn delivered at New York during the years of 1926 and 1927.

The weighted average cost of production of corn in the United States, for the two years 1926 and 1927, including transportation to New York, as shown in Table 41, page 43,^a is \$1.048 per bushel of 56 pounds, and the average cost of production of Argentine corn, including transportation to New York, is \$0.927 per bushel of 56 pounds. Said cost of production in the United States exceeds said cost of production for Argentine corn by \$0.121. In the opinion of Com-missioners Dennis, Dixon, and Clark, the difference in costs of production shown above does not warrant a change in the duty.

The report with respect to corn or maize contains a detailed discussion of the items entering into cost, detailed tables of farm, marketing, and transportation costs, and summary tables employing different methods of cost calculation.

The cost comparison upon which the statement of Commissioners Marvin, Brossard, and Lowell is based, follows.

Corn: Comparison of costs of production of domestic and Argentine corn, including transportation from all areas to New York and San Francisco, 1926, 1927, and the 2-year average, with land charge on interest basis, weighted on total production in areas studied

	P					
· · · · · · · · · · · · · · · · · · ·	19:	26 1	192	27 1	2-year average	
Competitive market	Domestic cost	Foreign cost	Domestic cost	Foreign cost	Domestic cost	Foreign cost
New York: Farm cost Marketing cost Transportation cost	\$0.778 .071 .261	~	\$0.781 .074 .261		\$0.780 .072 .261	
Total cost	1.110	\$1.027	1.116	\$0. 827	1.113	\$0. 927
San Francisco: Farm cost Marketing cost Transportation cost	. 778 . 071 . 432		. 781 . 074 . 432		. 780 . 072 . 432	
Total cost. Amount by which United States cost ex- ceeds Argentine cost, including trans- portation:	1. 281	. 914	1. 287	. 957	1. 284	. 936
At New York At San Francisco	.0 .3	83 67	.2		.1	

[Per bushel]

¹ The crop year, May 1 to Apr. 30, for the domestic; the calendar year for the foreign; such a comparison is made necessary by the overlapping seasons in the Northern and Southern Hemispheres. • Printed report to President.

The cost comparison on which the statement of Commissioners Dennis, Dixon, and Clark is based follows.

Corn: Comparison of costs of production of domestic and Argentine corn, including transportation to New York and San Francisco, 1926, 1927, and 2-year average, weighted by quantities shipped out of counties where grown, with land charge on interest basis

	192	26 1	192	71	2-year average	
Competitive market	Domestic cost	Foreign cost	Domestic cost	Foreign cost	Domestic cost	Foreign cost
New York: Farm cost Marketing cost Transportation cost	\$0.701 .064 .241	<u></u> \$1.027	\$0. 781 . 067 . 241 1. 089	\$0. 827	\$0. 741 . 066 . 241 1. 048	\$0, 927
Total cost	1.006	\$1.027	1. 089		1.048	
San Francisco: Farm cost Marketing cost Transportation cost			. 761 . 070 . 382		. 785 . 069 . 382	
Total cost Amount by which United States cost exceeds Argentine cost, including trans- portation:	1. 257	. 914	1. 213	. 957	1. 236	. 936
At New York At San Francisco	² —.	021 43	. 2		.1	

[Per bushel]

¹ The crop year May 1 to Apr. 30, for the domestic; the calendar year for the foreign; such a comparison is made necessary by the overlapping season in the Northern and Southern Hemispheres. ² Minus sign means excess of Argentine over domestic costs.

The supplementary statement submitted by the commission on August 16, 1929, contains data showing acreage and production in the United States and Argentina over a period of years, and statistics on production, imports, exports, and prices for the year 1928 and for the few months of 1929 which became available since the submission of the corn report. The supplementary statement also shows the corn deficiency areas in the United States, the principal markets and the corn shipped to the principal markets, and cost comparisons for the New York and San Francisco markets and for New York and San Francisco combined. In addition to the supplementary statement signed by all commissioners, two separate statements were submitted by Commissioners Dennis, Dixon, and Clark, and by Commissioners Marvin, Brossard, and Lowell.

The statement by Commissioners Dennis, Dixon, and Clark pointed out that no new information had been secured as to costs of producing corn in the United States and Argentina; and that "the only significant fact about the new material is revealed by the later 16-month period for which international trade figures in corn have been obtained. This later statistical period (calendar year 1928 and first four months of 1929) indicates that our imports of corn are declining and our exports of corn increasing." They state that "If the facts before us in the autumn of 1928 suggested no basis for a higher duty when imports of corn amounted to 5,000,000 bushels, how can we modify that position when imports have now declined to 547,000 bushels (calendar year 1928)?"

They further state:

We have no new facts to alter our judgment that New York is the principal competing market for corn in the United States or to modify our objection to the fiction which would weight domestic transportation charges on corn to coastal markets by the entire output of the surplus-producing States. In point of fact, the corn market study of the Department of Commerce, the publication of which was made available since the transmission of the original report, shows that in 1926 practically all the shipments of corn to the Southwestern States originated in Iowa, Kansas, and Nebraska (see pp. 81, 82, and 83, supplementary report). Prices of corn in the principal markets plus transportation to San Francisco (p. 84, supplementary report) confirms the conclusion that the Pacific coast shipments originate in Kansas and Nebraska and confutes the doctrine that such transportation charges should be weighted by the entire production of all surplus-producing States. We reaffirm our former judgment that transportation charges should be limited to actual shipments or to shipments which might take place under conditions which are reasonable and conceivable to the human understanding.

Commissioners Dennis, Dixon, and Clark concluded that they "stand by their judgment as recorded in the original report that no warrant exists for a change in the present duty on corn."

The statement of Commissioners Marvin, Brossard, and Lowell calls attention to the decline in the corn acreage in the United States during the last 5-year period 1924–1928 over that of 1909–1914, and the decline in exports of corn from the United States from 72,745,000 bushels in 1919–1923 to 18,684,000 bushels during the 5-year period 1924–1928. The corn acreage in Argentina, on the other hand, had increased from a 5-year average of 21,900,000 acres during 1909–1913 to 31,500,000 acres in 1927.

Commissioners Marvin, Brossard, and Lowell stated as follows:

The comment by Commissioners Dennis, Dixon, and Clark lays emphasis upon the small percentage of imported corn compared with the national production of corn. Such a comparison fails to present fully the situation in our competitive markets, the Atlantic and Pacific seaboard areas. A fairer method would be a comparison of the amount of imports with the production of the deficiency areas. Thus the Pacific seaboard States—California, Oregon, and Washington produce 6,616,000 bushels of corn and import 1,018,000 bushels (average for 1923–1928). In other words, the imports are equal to 15 per cent of the amount produced in that area. Furthermore, the imports are by no means negligible when compared with the domestic corn sold in the open market instead of with total corn production, including that fed to livestock on the farms where produced.

Chairman Marvin and Commissioners Brossard and Lowell were of the opinion

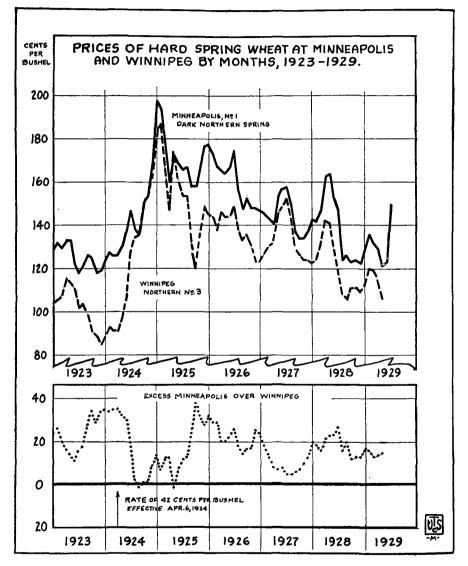
that the corn-deficient areas (the Atlantic and Pacific seaboard States) may be accepted as the principal competing market, and that the weighted average cost of production in the United States, including transportation costs to New York and San Francisco as representative points in the deficiency areas, may be compared with the weighted average cost of production of Argentine corn, including costs of transportation to the same points * * and the rate of duty necessary to equalize the difference in costs of production of corn in the United States and in the principal competing country, within the limit specified in section 315 of the tariff act of 1922, is $22\frac{1}{2}$ cents per bushel of 56 pounds.

(b) STATISTICS OF COMMODITIES ON WHICH CHANGES IN DUTIES HAVE BEEN MADE UNDER PROVISIONS OF SECTION 315

Statistics of imports and of prices of commodities on which changes in duties have been made under section 315 should be interpreted with caution. Many of the changes have been so recent that the figures can not be taken as an indication of the effect of the new rates. Even where the course of imports and prices is shown for a number of years since the change in rate became effective, it should not be assumed that increases or decreases have been due solely to the change in rate.

The statistics here given are arranged in the order in which the changes in duties upon the commodities were made. Imports for

consumption are given by years for the period 1923 to 1928 and by months or quarters beginning with the year before the change in duty. Prices are shown monthly or quarterly for the same period as imports. Where possible comparison is made of the prices of the commodity in the ruling domestic and foreign markets; otherwise, of the imported and domestic commodity in the principal domestic market.



(1) Wheat.—Table A shows the marked decline in imports of dutypaid wheat after the increase from 30 to 42 cents per bushel on April 6, 1924. Annual imports declined from 8,930,000 bushels in 1923 to the low level of 21,000 bushels in 1927, increasing to 224,000 bushels in 1928, but amounted to only 11,000 bushels in the first seven months of 1929. Free entries for milling-in-bond and for export increased from slightly less than 10,000,000 bushels in 1923 to nearly 20,000,000 bushels in 1928.

		Full duty		Free in bond for milling and export			
Year and month			Unit value	Quantity	Foreign value	Unit value	
Under the rate of duty originally provided in the act of 1988 (30 cents per bushel) 1923	Busheis 8, 929, 749 6, 215, 465	\$8, 887, 124 5, 841, 153	\$1.00 .94	Bushels 9, 988, 592 3, 058, 703	\$10, 339, 659 2, 745, 945	\$1. 04 . 90	
1924	679, 160 1, 308, 399 451, 029 21, 299 224, 133 15, 210	736, 178 1, 701, 851 640, 140 27, 443 280, 690 16, 849	1, 08 1, 30 1, 42 1, 29 1, 25 1, 11	6, 421, 116 10, 439, 714 15, 429, 102 11, 152, 699 19, 766, 974 11, 456, 858	6, 900, 606 15, 000, 670 21, 488, 633 14, 651, 452 22, 908, 096 12, 505, 083	1. 07 1. 44 1. 39 1. 31 1. 16 1. 09	

TABLE A.—Wheat: Imports for consumption, 1928-1929

Table B compares prices of No. 1 Dark Northern spring wheat in Minneapolis with prices of No. 3 Northern spring wheat in Winnipeg. Prices in Minneapolis have generally been higher than prices in Winnipeg but not by the full amount of the duty. The effect of the change in duty on prices has been modified by changes in freight rates, in conditions of storage and marketing, and in the relative quantities of the several grades imported. Furthermore, the Canadian standards for the several grades are not fixed but vary from year to year. In the fall of the year a large number of samples of the crop are obtained and analyzed, and the grades for that year are determined on the basis of the protein content of the wheat, its weight per bushel, and the percentage of foreign matter that it contains. This change in standards lessens the value of price comparisons in measuring the effects of a change in duty.

TABLE B.—Prices of spring wheat at Minneapolis and Winnipeg, 1923-1929 [Per bushel]

	Minne- apolis ¹	Winni- peg ²	Amount Minne- apolis		Minne- apolis ¹	Winni- peg ²	Amount Minne-
Date	Dark Northern No. 1	Northern No. 3	price exceeds Winni- peg	Date	Dark Northern No. 1	Northern No. 3	apolis price exceeds Winni- peg
1923:				1927:			
January	\$1.28	\$1.04	\$0.24	January	\$1.47	\$1.23	\$0. 24
April	1.33	1.16	. 17	April	1.41	1.33	. 08
July	1.18	1.02	. 16	July	1.58	1. 53	. 05
October	1.25	. 91	. 34	October	1.34	1. 27	. 07
1924:				1928:			
January	1.24	. 89	. 35	January	1. 43	1. 23	. 20
April 3	1.26	. 91	. 35	April		1.42	. 21
July	1.47	1.27	. 20	July	1.47	1.20	. 27
October	1. 51	1. 50	. 01	October	1.23	1.11	. 12
1925:				1929:			
January	1.98	1.84	. 14	January	1.29	1.12	. 17
April	1.60	1.47	. 13	April	1.29	1.15	. 14
July	1.66	1, 54	. 12	July	1.50		
October	1. 58	1.20	. 38				
January	1, 78	1.46	. 32				
April	1.66	1.46	. 20				
July	1.75	1.49	. 26				
October	1.53	1.36	. 17	· · ·			

From Crops and Markets, U. S. Department of Agriculture.
 From Monthly Bulletin of Agricultural Statistics: Dominion Bureau of Statistics.
 Change in duty from 30 cents to 42 cents per bushel effective Apr. 6, 1924.

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(2) Wheat flour.—Following the increase in the duty on wheat flour from 78 cents to \$1.04 per 100 pounds effective April 6, 1924, imports sharply declined, dropping from 264,000 barrels in 1923 to less than 4,000 barrels in 1928. (See Table C.) Since the price of flour moves with that of wheat, no price quotations on flour are here given.

Year	Quan	tity	Foreign value	Unit value	
Under the rate of duty originally provided for in act of 1922 (78 cents per 100 pounds) 1923 1924 Under the rate of duty as proclaimed by the President, effective April 6, 1924 (104 cents per 100 pounds)	Pcunds 51, 747, 653 11, 531, 441	Barrels 264, 019 55, 983	\$1, 366, 051 291, 610	Per barrel \$5. 17 5. 21	
1924	1, 141, 640 2, 173, 198 1, 794, 376 701, 403 757, 665 259, 459	8, 676 11, 086 9, 155 3, 579 3, 867 1, 324	27, 232 71, 417 71, 587 30, 158 26, 917 9, 050	3. 14 6. 44 7. 82 8. 43 6. 96 6. 84	

TABLE C.---Wheat flour: Imports for consumption, 1923-1929

(3) Bran, shorts, and other by-products of wheat.—The reduction in duty upon by-product feeds was followed by a considerable increase in imports. From a total of 126,000 long tons, valued at about \$3,000,000 in 1923, entries of direct importations and withdrawals from bonded mills together amounted to 273,000 long tons, valued at somewhat over \$8,000,000 in 1928.

Tables D to F show the movement of prices of by-product wheat feeds before and since the change in duty. Table E compares the prices of bran at Buffalo and Minneapolis with prices at Toronto and Winnipeg. Table F compares the prices of spring wheat middlings at Buffalo and Minneapolis with the prices of shorts at Toronto and Winnipeg.

TABLE D.—Bran, shorts, and other by-products of wheat: Imports for consumption, 1923-1929

	Direct in	portation	Unit	Withdrawn from bonded mills ¹		Unit	
Year and quarter	Quantity	Foreign value	value	Quantity	Foreign value	value	
Under the rate of duty originally provided for in the act of 1922 (15 per cent) 1923 1924 Under the ratelof duty as proclaimed by the President, effective A pril 6, 1924 (7½ per cent).	Long tons 126, 469 26, 427	\$2, 997, 626 568, 745	\$23. 70 21. 52	Long tons			
1924	210, 770 251, 862 105, 839 83, 102 138, 968 129, 944	\$4, 449, 221 6, 107, 274 2, 471, 434 2, 219, 497 3, 800, 292 3, 332, 548	\$21. 11 24. 25 23. 35 26. 71 27. 35 25. 65	79, 743 104, 970 133, 727 110, 988	\$1, 980, 004 2, 885, 156 4, 210, 302 3, 088, 194	\$24, 83 27, 49 31, 48 27, 82	

1 The by-products of wheat brought in free of duty and milled in bonded warehouses for export as flour.

TABLE E.—Prices of bran at Buffalo and Toronto, 1923-1928

Date	Buffalo standard spring wheat bran ¹	Toronto bran ²	Amount Toronto price exceeds Buffalo	Date	Buffalo standard spring wheat bran ¹	Toronto bran ²	Amount Toronto price exceeds Buffalo
1923: January July October 1924: January April ⁸ July October 1925:	\$32.00 24,50 33.50 29.00 25.50 26.00 27.00	\$24, 25 28, 25 26, 25 28, 25 28, 25 28, 25 26, 25 27, 25 30, 25	\$3.75 1.75 5.25 75 1.25 3.25	1926: January April J. October 1927: January April. July. October 1928:	\$31. 50 .30: 00 26. 00 25. 00 30. 10 31. 90 29. 35 28. 95	\$31. 25 31. 25 27. 25 28. 25 32. 25 32. 25 32. 25 30. 25	-\$0;92 1,22 3,26 2,16 ,37 2,90 1,30
January April July October	33.00 27.00 28.00 26.00	36. 00 26. 25 28. 25 27. 25	3.00 75 .25 1.25	January April July October	35. 00 38. 65 30. 25 32. 40	34. 00 40. 00 33. 40 33. 50	-1.00 1.30 3.10 1.10

[Per short ton]

¹ From Crops and Markets, U. S. Department of Agriculture. Prices shown through 1926 are averages. for the week which included the middle of the month. From January, 1927, prices shown are monthly a verages. ⁴ From Monthly Bulletin of Agricultural Statistics; Dominion Bureau of Statistics. ³ Change in duty from 15 per cent to 7½ per cent ad valorem effective Apr. 6, 1924.

TABLE F.—Prices of middlings (shorts) at Buffalo and Toronto, 1923-1929

[Per short ton]

Date	Buffalo standard spring wheat middlings ¹	Toronto shorts ²	Amount Toronto price exceeds Buffalo	Date	Buffalo standard spring wheat middlings ¹	Toronto shorts ²	Amount Toronto price exceeds Buffalo
1923: January	28.00 29.50 27.50 31.50	\$26. 25 30. 25 28. 25 31. 25 31. 25 32. 25 32. 25 32. 25 38. 25 28. 25 30. 25 29. 25 33. 25 29. 25 33. 25 30. 25 30. 25	$\begin{array}{c} -\$1.25\\ -\$1.25\\ -1.25\\ -2.25\\ 4.75\\ 4.25\\ 3.25\\ .75\\ 1.75\\ 1.75\\ 1.75\\ 1.75\\ 1.75\\ 4.25\end{array}$	1927: January July October 1928: January April October 1929: January July	\$31. 10 32. 75 35. 35 29. 80 34. 60 38. 85 34. 10 32. 90 33. 25 26. 40 31. 75	\$34. 25 34. 25 35. 25 32. 25 36. 00 42. 00 36. 20 35. 50 33. 50 29. 25	\$3:\15 1,50 10 2,45 1,40 3,15 2,10 2,60 .25 2,85

¹ From Crops and Markets; U. S. Department of Agriculture. Prices shown through 1926 are averages for the week which included the middle of the month. From January, 1927, prices shown are monthly

a Averages.
 ² From Monthly Bulletin of Agricultural Statistics; Dominion Bureau of Statistics.
 ³ Change in duty from 15 per cent to 7½ per cent ad valorem effective April 6, 1924.

(4) Live bobwhite quail.—Table G shows the importations of live bobwhite quail since the change in duty from 50 cents to 25 cents on November 2, 1925. The proclamation not only changed the duty

but created a new classification, bobwhite quail formerly being included in the general classification for live birds. For this reason no statistics of imports before the change in duty are available for com-The largest imports since the change, occurred in 1927 parison. when nearly 48,000 birds, valued at about \$18,000, came in.

TABLE G.—Bobwhite quail, valued at \$5 each or less: Imports for consumption, 1926-1929 1

Year and month	Quantity	Foreign value	Unit value
Rate of duty under act of 1922 (50 cents each 2) 1925: November.	Number		
December Under rate of duty as proclaimed by the President, effective November 2, 1925 (25 cents each)			
1926 1927 1928 1928	34, 039 47, 674 24, 349 37, 860	\$15, 818 17, 690 11, 643 18, 147	\$0. 465 . 371 . 478 . 479

¹ All importations of live quail occur during the months January to May. ² Imports of live quail were not reported separately prior to the change in rate of duty by presidential proclamation)

(5) Butter.—There has been a considerable expansion in the butter industry throughout the world in recent years. In the United States the production of creamery butter, representing about two-thirds of the total domestic output, increased from 1,242,214,000 pounds in 1923 to 1,487,949,000 pounds in 1928. During the same period the trend of the production of butter in important surplus producing foreign countries was also upward. The exports of 15 of the principal exporting countries, which had amounted to 543,000,000 pounds in 1922, reached a total of 855,000,000 pounds in 1927, an increase of over 300,000,000 pounds. This increase in the world's exportable butter surplus tended to depress prices in the world markets in much the same manner as the increase in domestic production bore down upon domestic prices. Much of this enlarged world surplus resulted from the expansion of production in the low-cost areas in the southern hemisphere.

Table H shows the imports for consumption of butter for 1923–1929.

TABLE H.-Butter: Imports for consumption from Denmark, New Zealand, and all countries, by years 1923-1929 and by months 1926-1929 1

	Pounds				
Calendar year and month	Denmark	New Zealand	Total		
Under the rate of duty originally provided in the act of 1922 (8 cents per pound)					
1923	7, 081, 208 5, 359, 566 420, 755 555, 848	2, 446, 247 3, 983, 691 2, 201, 815 832, 428	20, 809, 620 2 19, 279, 309 6, 861, 435 3, 276, 024		

¹ Rate of duty changed to 12 cents per pound by President's proclamation, effective Apr. 5, 1926. ² Includes 4,648,529 pounds valued at \$1,530,892 withdrawn from warehouse for which no detail by countries is available.

	Pounds				
Calendar year and month	Denmark	New Zealand	Total		
Under the rate of duty as proclaimed by the President, effective April 5, 1926 (12 cents per pound)	<u> </u>				
926	865, 176	996, 282	3, 451, 03		
927	997, 267	3, 511, 413	8, 456, 39		
928	644, 002	2, 215, 289	4, 334, 68		
929 (9 months)	732, 012	1, 143, 358	2, 117, 71		
926:					
January	345, 747	328, 497	1, 113, 91		
February	144, 677	251, 259	841,09		
March	50, 028	213, 651	616, 70		
April	1 76, 982	195, 104	713, 89		
May	16, 898	74,032	101, 38		
June	12, 241	68, 880	100, 94		
July	73, 368	44, 520	137, 21		
August	7,666	94, 167	127, 56		
September	21, 962	69, 440	144, 49		
October	17, 296	41, 160	184, 73		
November	150, 057	29,960	540, 57		
December	504, 102	418,040	2, 104, 53		
1927:					
January	227, 250	114, 240	698, 44		
February	143, 460	533, 020	951, 79		
March	130, 558	931, 392	2, 620, 97		
April	80, 103	1, 224, 026	2, 322, 27		
May	64, 902	86, 958	251, 31		
June	54,670	98, 168	203, 97		
July	53, 944	178, 577	269,00		
August	57,620	69, 328	162, 02		
September	52, 469	40, 768	119, 28		
Oletober	20, 241	36, 400	99, 74		
November	33, 793	105, 448	99, 74 194, 76		
December	78, 257	93, 088	562, 79		
1928:					
January	26,806	407, 400	1,009,62		
February	68, 810	178, 864	357.54		
March	44, 604	711,837	1,030,81		
April	58, 564	127, 156	232, 39		
May	68, 624	82, 768	232, 39 178, 35		
June	* 36, 111	73, 976	\$ 240, 03		
July	29, 968	100, 464	4 196, 32		
August	59, 449	200, 200	78, 07		
September	51, 703	128, 240	241, 24		
October	82,451	72, 464	210, 99		
November	48, 624	86, 280	204, 61		
December	68, 288	245, 840	354, 65		
1929:	00, 200	210,010	004,00		
January	107,663	153, 552	294, 49		
February	54,441	116, 704	197, 79		
March.	65,474	109, 256	198, 29		
April	100, 233	124, 264	258, 67		
May	86, 563	194, 824	298, 78		
June	89,010	161, 504	273.04		
July	61, 425	137,430	223, 86		
	66, 921	81,032	159, 32		
August	100,921				
September	100, 282	64, 792	213, 45		

 TABLE H.—Butter: Inports for consumption from Denmark, New Zealand, and all countries, by years 1923-1929 and by months 1926-1929—Continued

¹ Rate of duty changed to 12 cents per pound by President's proclamation, effective Apr. 5, 1926.
 ³ Includes 59,837 pounds valued at \$22,030 withdrawn from warehouse for which no countries are shown.
 ⁴ Includes 36,321 pounds valued at \$12,359 withdrawn from warehouse for which no countries are shown.

Table I compares the prices in London of New Zealand and Danish butter, selected as being most comparable in grade, with prices of 92-score butter in New York. The same data are shown graphically in the charts on page 190.

 TABLE I.—Comparison of prices of 92-score creamery butter in New York with prices of New Zealand and Danish butter in London, 1922–1929

[Cents per pound]

		I			
	Creamery 92-score New York	New Zea- land butter in London	Danish butter in London	Excess New York over New Zealand	Excess New York over Danish
1922:	_				
January	37.42	25.90	32.87	11. 52	4.55
February	37.33	27.58	35.12	9.75	2. 21
March	38.19	31.86	36.31	6.33	1.88
April May	37.77 36.55	36. 54 34. 84	36. 90 36. 82	1.23 1.71	. 87 —. 27
June	36. 95 36. 94	40.30	40.63	-3.36	-3.69
July	36. 31	43.39	42.84	-7.08	-6.33
August	35. 55	40.50	41.88	-4.95	-6.35
September	41.16	42.74	43.69	-1.58	-2.53
October	45.69	42.84	43.80 43.50	2.85 8.02	1.89 7.28
November December	50.78 54.33	42.76 38.11	43.03	16. 22	11.30
1923:	01.00	56.11	10.00	10. 22	11.00
January	52.19	40.98	43.96	11. 21	8.23
February	49.46	42.39	43.95	7.07	5. 51
March	49.57	42.69	44.19	6.88	5.38
April May	46.31 41.63	33.78 29.93	36.91 31.92	12.53 11.70	9.40 9.71
June	41.03 38.86	29.93 31.62	31. 92	7.24	7.43
July	39, 16	33. 25	33.04	5. 91	6.12
August	43.92	36.82	36.65	7.10	7.27
September	45.98	39, 83	41.62	6.15	4.36
October	47.45	39.55	41.07	7.90	6.38 10.98
November December	52.41 54.73	39.86 42.04	41.43 43.32	12.55 12.69	10.98
1924:		42.04	40.02	12.00	11. 11
January	52.93	40.73	41.87	12.20	11.06
February		38. 54	41.18	11.84	9.20
March		33. 53	39.60	13.35	7.28
April	. 38.75	30.90	34.65	7.85	4.10 .57
May June	. 38.74 41.49	33.28 34.16	38.17 35.25	5. 46. 7. 33	6.24
July		37.16	39.39	3.33	1, 10
August	38.37	41.04	42, 74	-2.67	-4.37
September		42.11	43.67		5. 78
October	38.46	45.40	47.32	-6.94	-8.86
November December	42.48	43. 81 44. 12	45. 14 49. 70	-1.33	-2. 66 -4. 96
1925:	44.74	44. 12	49.70	.04	-4. 50
January	40.61	37, 19	44, 17	3.42	-3.56
February	40.84	38.44	47.56	2,40	-6.72
March	47.60	39.26	48.59	8.34	- 99
A pril	44.69	38.13	42.69	6.56	2.00
May June	42.85 42.59	37.56 40.79	39.38 41.54	5.29 1.80	3, 47 1, 05
July	42. 39	40.79	41. 54	34	-, 30
August	43.46	43, 58	45, 80	12	-2,34
September	47.61	45.01	47.76	2.60	15
October	50.97	48.60	49.16	2.37	1.81
November	50.59	45, 54	46.73	5.05	3, 86
December	49.19	38.71	41.83	10.48	7, 36
January	44.75	37.96	38, 96	6.79	5.79
February	44.84	38, 21	42.06	6.63	2,78
March	43,08	37.85	41.54	5.23	1.54
April 1	39.55	37.87	39.18	1.68	. 37
May	40.92	37.22	38.04	3.70	2.88
June July	41.18	38.34	38.23 37.82	2.84 3.37	2,95 2,72
August	40.54	37, 85	38, 53	3, 79	3, 11
September	44.32	35, 80	38, 63	8,52	5, 69
October	. 46.71	32.05	38,92	14.66	7.79
November	. 50.33	32.57	37.58	17.76	12.75
December	54.50	37.25	39.96	17.25	14.54

1 Rate of duty increased from 8 cents to 12 cents per pound effective Apr. 5, 1926.

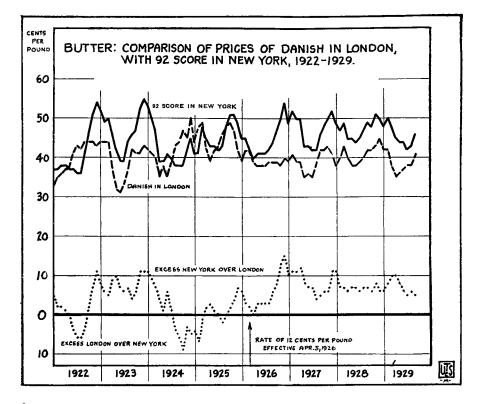
	Creamery 92-score New York	New Zea- land butter in London	Danish butter in London	Excess New York over New Zealand	Excess New York over Danish
1927:					
January	49.15	37.69	38,70	11.46	10.45
February		38.00	40.98	13. 54	10.56
March	50, 17	34.93	39, 22	15.24	10.95
April		33.04	38,65	17.30	11.69
May		35.02	35, 29	8.44	8.17
June		36.16	35, 82	6, 35	6. 69
July		35.44	34.68	6.28	7.04
August		36.81	37.55	5, 07	4.33
September	46.46	39,89	41.54	6.57	4, 92
October		38, 67	42.09	9.72	6. 30
November		38, 45	43, 48	11.34	6.31
December	51.87	36.67	41.28	5.20	10.59
1928:	01.01	00.01	11,20	0.20	10.00
January.	48, 76	35, 04	38, 25	13, 72	10, 51
February		35. 91	39,63	10, 71	6, 99
March	49.44	37.91	42,90	11.53	6, 54
April		37.38	39.91	8, 11	5, 58
May		37.31	38.29	7,62	6, 64
June		38, 56	37.53	5.57	6.60
July		40.39	38.92	4.54	6.01
August	46.93	40.56	39,92	6.37	7.01
September	48.75	40.28	42.17	8.47	6.58
Oetober	47.79	39.94	41.59	7.85	6.20
November	50.57	38.88	42.89	11.69	7,68
December	50.46	39,97	44.91	10,49	5, 58
1929:	. 00.40	38,81	44, 01	10. 20	0.00
January	47.94	40, 40	41.85	7.54	6.09
February		38, 83	41.67	11.06	8.22
March		36.61	38.37	11.84	10.08
April	45, 35	35, 86	35.21	9,49	10.00
May	43.54	36.25	35.97	7,29	7, 57
June		30.23	37.34	6.31	6.20
		37.47	37.87	4,95	0.20 4.55
July		37.4/	37.87	4.95 6.41	4, 00 6, 06
August					
September	46.22	39.18	41, 26	7.04	4, 96

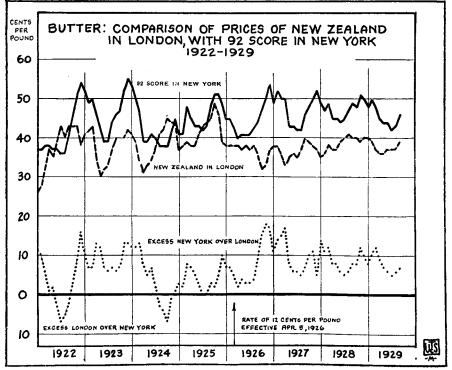
 TABLE I.—Comparison of prices of 92-score creamery butter in New York with

 prices of New Zealand and Danish butter in London, 1922–1929—Continued

[Cents per pound]

Source: New York prices from Crops and Markets. Monthly averages of weekly quotations through 1927, monthly averages of daily quotations for 1928 and January to September, inclusive, 1929. London prices from the Statist, monthly averages of weekly quotations.





(6) Swiss cheese.—Table J shows the course of imports of Swiss cheese (with the eye formation) from all countries since the increase in the duty from 5 cents per pound but not less than 25 per cent to 7½ cents per pound but not less than 37½ per cent, effective July 8, 1927. Comparable statistics for years preceding the change are not available because the classification was new with the proclamation. The table shows that since the increase the monthly imports have been well maintained with an upward trend.

Year and month	Quantity	Value	Unit value
1927: July ² August September October November December	$\left\{\begin{array}{c}712,348\\3 16,001\\1,180,942\\4 342\\1,500,755\\1,823,589\end{array}\right.$	\$38, 651 210, 014 3 2, 731 354, 228 3 8 467, 898 569, 594 390, 514	\$0. 281 . 295 . 171 . 300 . 190 . 312 . 312 . 299
Total	3 38, 097 6, 637, 066	³ 9, 503 2, 024, 135	. 249 . 305
1928: January February March April May June July August September October November	$ \left\{ \begin{array}{c} 1,060,403\\ \delta^3,472\\ 1,075,211\\ 1,673,214\\ 1,710,046\\ \delta^52,532\\ 1,817,928\\ 1,715,601\\ 2,192,816\\ 1,769,287\\ 1,952,219 \end{array} \right.$	379, 659 313, 120 8 634 326, 287 506, 241 512, 320 8 9, 992 550, 917 524, 444 664, 503 536, 291 595, 863 437, 782 290, 891	$\begin{array}{c} .303\\ .295\\ .183\\ .303\\ .303\\ .300\\ .303\\ .306\\ .303\\ .306\\ .303\\ .306\\ .303\\ .305\\ .303\\ .305\\ .303\\ .305\\ .326\\ .301\end{array}$
Total	$\left\{\begin{array}{r}{}^3 56,004\\18,528,300\end{array}\right.$	³ 10, 626 5, 638, 228	. 190 . 304
1929: January February March April May June July	1, 309, 335 1, 478, 841	437, 945 398, 598 458, 520 392, 282 536, 375 604, 090 606, 215	. 306 . 304 . 310 . 307 . 311 . 302 . 301

TABLE J.—Cheese having the eye formation characteristics of the Swiss or Emmenthaler type: Imports for consumption, by months, July, 1927-July, 1929¹

Rate of duty changed by presidential proclamation to 7½ cents per pound but not less than 37½ per cent, effective July 8, 1927. Dutiable at 37½ per cent ad valorem unless otherwise noted.
 July 8 to 31, inclusive. Not reported separately prior to July 8, 1927.
 Dutiable at 7½ cents per pound.

Comparison of Table J with Table K (p. 192) shows that in 1928 about 85 per cent of all cheese imported from Switzerland was the type with eye formation known as Emmenthaler. The maintenance of the volume of imports subsequent to the increase in duty may be largely explained by the fact that the Emmenthaler Cheese Corporation inaugurated a nation-wide magazine advertising campaign emphasizing the quality of the cheese and by the adoption of the new name "Switzerland Cheese" to distinguish the imported from the domestic cheese of the Swiss type. This name was stamped on the rind of the imported cheese so conspicuously that buyers could not fail to distinguish it from domestic cheese of the same type.

Year	Quantity	Foreign value	Unit value	Year	Quantity	Foreign value	Unit value
1923 1924 1925	Pounds 16, 371, 537 13, 434, 899 15, 829, 174	\$5, 499, 025 4, 739, 690 5, 526, 944	\$0, 336 . 353 . 349	1926 1927 1928	Pounds 16, 618, 987 18, 952, 870 18, 455, 886	\$5, 174, 765 5, 913, 418 5, 933, 149	\$0.311 .312 .321

TABLE K.—Cheese: Imports of all cheese from Switzerland, 1923-1928

Table L compares monthly prices of domestic and imported cheese of the Swiss type in New York. It shows that since 1927 the prices of domestic Swiss cheese have scarcely held at the levels obtaining in 1926, while the prices of the imported have somewhat advanced.

TABLE L.—Swiss cheese: Wholesale prices at New York of domestic and imported Swiss cheese, 1926-1929

[Cents per pound]

Wisconsin fancy, large- eyed			Imported Swiss, round, fancy, large- eyed
19	926	19)27
$\begin{array}{c} 37-41\\ 37-40\\ 37-40\\ 37-40\\ 37-40\\ 37-40\\ 37-40\\ 37-40\\ 35-\\ 35-\\ 35-\\ 35-\\ 35-\\ 35-\\ 35-\\ 35-$	$\begin{array}{c} -47 \\ -46 \\ 44 \\ 42 \\ 42 \\ 43 \\ 42 \\ 43 \\ 42 \\ 43 \\ 43$	35- 35- 35- 35- 35- 35- 135- 135- 36-37 38-39 38-39 38-39 38-39	-39 38-39 39-40 -41 43- 45-46 46- 46-47 -48 -48 -48 -48 -48 -48
19	928	19	929
38-40 38-40 38-40 38-40 38-40 39-40 39-40 39-40 39-40 39-40	$\begin{array}{c} -48\\ -47\\ 46-47\\ 46-47\\ 46-47\\ 47-48\\ 47-48\\ 47-48\\ 47-48\\ 47-48\\ 46-48\end{array}$	39-40 37-38 37-38 37-38 37-38 37-38 37-38 37-38 37-38	46-48 46-48 46-48 47-49 47-49 47-49 47-49 47-49
	fancy, large- eyed 11 37-40 37-40 37-40 37-40 37-40 37-40 37-40 37-40 35- 35- 35- 35- 35- 35- 35- 35- 35- 35-	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

¹ Change in duty from 5 cents per pound, but not less than 25 per cent ad valorem, to 7½ cents per pound, but not less than 37½ per cent ad valorem, effective July 8, 1927.

From: Producers' Price Current; prices taken at date nearest middle of month.

(7) Cherries, sulphured or in brine.—Table M gives monthly imports of cherries, sulphured or in brine, stemmed or pitted, since January 2, 1928, when the duty was increased from 2 to 3 cents per pound. Comparable statistics for earlier years and market quotations on these cherries are not available.

 TABLE M.—Cherries, sulphured or in brine, stemmed or pitted: Imports for consumption, by months, 1928 and 1929

Year and month	Quantity	Foreign value	Unit value
1928:	Pounds		
January		\$50, 887	\$0.118
February		93, 015	. 128
March		95, 194	. 133
April.	660, 154	83, 566	. 127
May		82, 318	. 117
June		49, 220	. 132
July	451, 223	54, 906	. 122
August		146, 902	. 137
September		209, 953	. 140
October		224, 943	. 160
November		232, 510	. 165
December		227, 677	. 161
Total	10, 955, 345	1, 561, 091	. 142
1929:	·····		
January	1, 169, 075	185, 794	. 159
February		130, 112	. 178
March		104, 328	. 160
April	716, 372	115, 529	. 161
May		88, 943	. 168
June		66, 823	. 171
July		236, 226	. 153

[Rate of duty under act of 1922: 2 cents per pound] 1

¹ Changed by presidential proclamation to 3 cents per pound, Jan. 2, 1928.

(8) Onions.—Table N indicates that for the short period for which comparable statistics are available imports of onions slightly declined after January 21, 1929, when the change in duty from 1 to 1½ cents per pound became effective. From February to September, 1929, inclusive, imports amounted to 41,678,000 pounds, as compared with 60,504,000 pounds in the corresponding period of the previous year.

Table O compares the prices of domestic onions of the strong and Bermuda types in New York with those of imported Egyptian onions, and the prices of domestic onions of the Spanish type in Chicago with those of imported Spanish onions.

TABLE N.—Onions: Imports for consumption, 1923–1928, and by months, 1928and 1929

[Under the rate of duty originally provided for in the act of 1922 (1 cent per pound)] 1

Year and month	Quantity	Foreign value	Unit value
· · · · · · · · · · · · · · · · · · ·	Pounds		- Ca
1923		\$2, 250, 935	\$0. 020
1924		1, 517, 554	. 020
1925		2, 748, 542	. 020
1926	99, 172, 825	1,867,589	. 019
1927	120, 573, 666	2,661,366	. 022
1928	125, 314, 060	2,660,878	. 021
1928:			
January	4, 440, 977	144, 693	. 033
February	3, 438, 967	82,448	. 024
March	4, 819, 610	128, 582	. 027
April		262, 765	. 023
May	9, 477, 815	198, 387	. 021
June	7, 629, 406	161, 642	. 021
July		137,811	. 021
August	3, 170, 526	48,643	. 015
September		281, 784	. 020
October		561, 563	. 020
November		212, 713	. 018
December		435, 047	. 021

¹ Changed by presidential proclamation to 1½ cents per pound, Jan. 21, 1929.

TABLE N.—Onions: Imports for consumption, 1923-1928, and by months, 1928 and 1929—Continued

Year and month	Quantity	Foreign value	Unit value
1929: January February March A pril May June July August September		8 56, 263 8 122, 796 0 104, 407 8 66, 412 5 22, 869 4 80, 701 4 94, 196 2 86, 380	. 022 . 022 . 023 . 019 . 019 . 019 . 013 . 014 . 016 . 017

[Under the rate of duty originally provided for in the act of 1922 (1 cent per pound)]

 TABLE O.—Onions: Average monthly prices at New York and Chicago, 1928

 and 1929

	New York			Chicago		
Year and month	New York yellows (in 100-pound bags) 1		Egyptian (in 110- pound bags)	Domestic Spanish (in 100-pound bags)	Imported Spanish (in 38-pound crates)	
					50s	72s
1928:						
January	\$2.18				\$6.68	\$6.08
February	1. 78				7.24	6. 71
March	2.36			² \$3. 88	8.11	7.68
April	2.36	\$5.42	\$3.88	2 3. 50		
May		3.20	3.08		!	
June		2.38	2.00		5.66	6.08
July	1.87	2.72	1.75		4.68	3. 95
August	2.42	2.20		3 2. 17	4.74	3. 95
September	3.12			2 3. 82	5.74	
October	2, 50			2 3.06	4.84	4.92
November	3.12			24.12	4.95	4.87
December	8.00			² 4. 25	4.61	4.95
1929:						
January				² 4. 54	6. 29	5.84
February					6.82	6.45
March		6.30				
April	2.01	4.62	3.72		!-	
May		2.96				
June		3. 76	3.15			
July	2.66	2.70	3. 09	\$ 3. 17	6. 21	
August	2.16			3 2. 38	5, 68	5. 39
September	2.04				5, 53	5,00

[Per 100 pounds]

¹ Includes Long Island, Canastota, Orange Co., and Eastern Yellows.

² Utah. 3 Walla Walla.

NOTE.—New York prices from Producer's Price Current; Chicago prices from Chicago Fruit and Vegetable Reporter. Prices here shown are simple averages of quotations on Wednesdays of each week.

(9) Peanuts, frozen eggs, flaxseed, and milk and cream.—On this group of commodities the duties have been changed since January 1, 1929. Because these changes have been so recently made, statistics do not reflect the permanent changes, if any, in these industries that may result from the higher rates of duties. Statistics on imports and prices for periods before and after the new rates became effective are, therefore, not submitted for these products.

SCHEDULE 7. FISH AND FISH PRODUCTS

SURVEYS AND SPECIAL STUDIES

(1) SUMMARY OF TARIFF INFORMATION

The commission's Summary of Tariff Information, 1929, is the first published document to treat of economic problems relating to all fish and fishery products consumed in the United States. Many of the data given in the summary were obtained in the course of a field survey made during the summer of 1928 in anticipation of a revision of the tariff law.

Tariff problems concerned with the fisheries are complicated by such considerations as the operation of United States fishing vessels in territorial, international, and foreign waters; their drawing in common with other countries upon the same basic source of supply; the numerous direct subsidies granted to foreign fishing enterprises; the treaty rights and port privileges granted by foreign governments; and regulations governing the purchase and sale of fishing equipment.

The dearth of published data bearing on economic aspects of the fisheries trade made it necessary that the commission obtain most of its information at first-hand in centers of production and distribution. To this end two fisheries experts were detailed to examine books of record and to confer with persons engaged in the fishing industries. In the course of their field work, these experts visited nearly all of the large fish producing, manufacturing, and distributing centers of the United States. Through conferences with producers, importers, distributors, and United States customs officers, they familiarized themselves with trade definitions and trade practices pertaining to individual fish and fishery products, obtained statistics on prices, production, cost of production, wages, and hours of labor, and information as to the comparability of the domestic and imported products.

The data obtained in this investigation were used by the congressional committees not only in their consideration of tariff rates, but in the rephrasing of the fisheries paragraphs so as to avoid some of the difficulties encountered in the administration of the tariff act of 1922. With a detailed description at hand of each fish or fishery product, and its commercial designation, the committees changed the wording of the fisheries paragraphs so as to reduce to a minimum chances of litigation; i. e., of leaving it to the courts to decide under which paragraph an article is properly dutiable.

Within recent years the fisheries trade of the world has undergone important changes that affect the United States trade. In general, the fisheries have made extensive plans for further expansion in most branches of the industry. Many new products have been developed and extensive improvements have been made in the preservation and transportation of fish and sea foods. In the United States there has been an appreciable increase in the catch of edible fish as a result in part of the new demand for fish in packaged form. The gain in fish production is significant in view of the declining per capita production of meat. Some fish products which were virtually unknown in this country when the tariff act of 1922 became effective are now important articles of commerce. In consequence there has been litigation concerning their proper classification for customs purposes. Important changes have also taken place with respect to United States fishing rights and privileges in foreign countries, and United States regulations concerning the use of foreign fishing vessels.

Approximately 2,700,000,000 pounds of sea and inland-water fishery products, having a wholesale value of \$280,000,000, are obtained from fish caught annually by United States fishermen. Annual imports into the United States approximate 415,000,000 pounds, valued at \$43,000,000, and exports 165,000,000 pounds, valued at \$20,000,000. In quantity of production, the United States fisheries are exceeded only by those of Japan. The principal sources of imports in order of importance are Canada, Norway, the United Kingdom, Japan, Mexico, Newfoundland, and the Netherlands. Exports go mainly to the United Kingdom, the Philippine Islands, Canada, Australia, British Malay, Germany, and Mexico.

(2) MARINE ANIMAL OIL SURVEY

Work on a survey of marine animal oils was carried on during periods when the commission's fishery experts were not engaged in preparing data for the Committee on Ways and Means and the Committee on Finance. The oils covered in this survey are whale, sperm, menhaden, cod, cod liver, herring, sardine, seal, and salmon. All statistics in the report were brought up to date and the text revised to include the latest available information on trade practices and competitive conditions. A number of persons engaged in the marine animal oil industry were also consulted as to statements in the report, and the section on methods of fishing and processing fish was mimeographed and mailed to producers for criticism.

(3) SALMON SURVEY

The commission has published a report on salmon, a résumé of which follows:

National character of the fisheries.-The principal salmon fisheries are confined to territorial waters and are, therefore, national rather than international. Only in boundary waters (such as part of Puget Sound) and in the trolling fisheries off the North Pacific coast are there international fisheries. Competition in the salmon trades is, therefore, limited to countries whose bays and streams abound in Japan, Siberia, and Canada are the three countries with salmon. runs sufficient to make their fisheries competitive with those of the United States. The fisheries of Japan, although large, do not yield a supply adequate to the home demand and, therefore, offer little competition with the United States. The Siberian fisheries are extensive and very productive. They yield large quantities of sockeye, which, when canned, finds a ready market in the United States and Great Britain. The Canadian fisheries center in British Columbia, in close proximity to Alaska, Washington, and Oregon, the important producing centers of the United States. They are thus in a position to export to us the highly perishable fresh salmon.

Depletion of the national supply.—Because of the danger of depletion through unregulated fishing, the several governments interested in salmon fishing have assumed regulatory powers over their own fisheries, with the announced intention of conserving the national supply. In consequence, competition within any one country or between different countries is governed in large measure by the extent to which restrictive legislation is enacted and enforced in the countries concerned, or in any one of them. Obviously, changes in the regulations or in their enforcement in the United States or in any competing foreign country may influence the effectiveness of the customs duties on the various salmon products.

Duties on materials.—Duties on the unprocessed or partially processed salmon for canning are usually included in the compensatory duties on the finished or semifinished fish, being designed to offset to the domestic manufacturer his greater cost of raw material. In respect to canned salmon, there are two factors to the compensation allowance for the duty on the fresh fish and allowance for shrinkage in manufacture. One hundred pounds of fresh salmon will yield only 70 pounds of canned. Thus, the canner who pays 2 cents per pound duty on the fresh fish (act of 1922) has an additional cost of 0.86 cent per pound chargeable to loss in weight in preparing the fish for canning.

The problem of a duty on the fresh salmon used in canning, however, lends itself to solution by simple mathematical calculation only with respect to the product of a limited area on Puget Sound adjacent to the international line where it is physically practicable to import the fresh fish for canning. Full compensation for the fresh-fish duty is, therefore, apparently needed in this region.

The salmon canner of Alaska or of the Columbia River region, however, even were there no customs duties on raw salmon, would not import because of the distance of his plant from British Columbia. This does not mean that the Alaskan and Columbia River producers may not be indirectly affected by the duty on raw salmon. If such duty were removed, it is possible that efficient Puget Sound canneries could use cheaper British Columbia raw material (assuming that the present duties are effective) and force a reduction in the domestic price received for the canned product of Alaska and of the Columbia River.

The exact allowance for raw material duty to be included in the duty on canned fish, so that it will apply to the major part of the industry, is thus clearly impossible to calculate. A duty that is compensatory for Puget Sound canners may be protective for Alaskan canners. Mild-cured salmon (lightly salted salmon sides) is in essentially the same category as canned salmon with respect to compensatory duties.

Raw salmon.—Salmon as landed by the fishermen is considered fresh fish regardless of its subsequent use. There is a so-called fresh salmon trade which does not process the fish, but sells it locally or packs it in crushed ice for shipment to distant points for table use. In this report the trade in salmon intended for the fresh-fish market is discussed separately because of its distinct competitive problems.

discussed separately because of its distinct competitive problems. Raw salmon is provided for under paragraph 717 of the tariff act of 1922 as "Fish, fresh * * or packed in ice; * * * salmon, * * * 2 cents per pound; * * *." Imports come almost entirely from Canada; the exact quantity imported fresh is not known because official statistics give only a total for fresh and frozen salmon. It is estimated that of the 6,028,000 pounds of fresh and frozen salmon imported in 1928, not more than 2,000,000 pounds were frozen. The remaining 4,028,000 pounds were sold fresh for immediate consumption or for mild curing. Because of the relative market prices of the fresh and canned fish, comparatively little raw salmon paying a duty of 2 cents per pound is canned. Under the tariff act of 1913, with raw salmon on the free list, there were at times relatively large imports—24,000,000 pounds in 1916—largely the cheaper varieties used by border canning companies. During the period of free entry imports fluctuated widely from year to year because of variations in the natural "runs" of fish, it being the practice of border canneries to import raw fish only in times of local shortage. An increased import of the red chinook salmon for mild curing was noted during the free entry period, but available data indicate that this trade declined after the raw fish became dutiable.

Different rates of specific duty on the several species of raw salmon have been advocated for the reason of the wide variations in price. Such a change may not be practicable because of the difficulty of distinguishing the several species. The present rate of 2 cents per pound applies alike to all species of fresh and frozen salmon. An ad valorem rate of duty might effect a variation in the duties on the several species, but is open to the objection that it would probably lead to administrative difficulties, as the price of each species and each grade of fresh salmon changes materially from day to day; a single car lot consignment often contains several species and grades.

Fresh and frozen salmon.—To the average consumer there is no difference between fresh salmon and frozen salmon just thawed out, but the frozen sells for less because it lacks the firmness of texture, the delicate flavor, and the keeping qualities of the strictly fresh.

Practically no salmon is caught on the Atlantic coast of the United States. On the Atlantic coast of Canada, however, there is an annual production of about 5,000,000 pounds, a large part of which is exported to New England where, because of its freshness, it commands a high price. Competition in the trade is chiefly between the Pacific coast industries of the two countries, where the fishing seasons are the same and where transportation costs are identical from the principal sources (Seattle, Wash., and Portland, Oreg., in the United States, and Vancouver, and Prince Rupert in Canada), to the principal markets. The major producing regions of Alaska are too remote for fresh salmon to compete in United States markets. The southern part of Alaska, although its supply is large, must sell chiefly in the State of Washington, shipment to more distant markets being impossible without deterioration of the fish in transit.

It is estimated that the annual consumption of fresh salmon in the United States is between 30,000,000 and 40,000,000 pounds, 10 per cent of which is imported. United States exports of fresh salmon are negligible.

Frozen salmon is prepared during the relatively short period of heavy catch for use in the winter, when fresh salmon from the sea is comparatively scarce and prices are high. Canada is now (1929) our only competitor, but Siberia is a potential rival, for it has already gained a United States market for frozen halibut.

The competitive status of the United States and Canadian frozensalmon industries differs from that of the fresh-fish industry in that the distance from market of the Alaskan supply does not affect its use for freezing. Imports of frozen salmon probably do not exceed 2,000,000 pounds annually, and may be less than 1,000,000 pounds. Domestic production in 1928 approximated 13,000,000 pounds, and exports 3,000,000 pounds. Fully half of the export went to the United Kingdom, where it was offered for sale in competition with Canadian and Newfoundland frozen salmon and with the fresh local salmon. Frozen salmon is dutiable in the United States at 2 cents per pound.

Canned salmon.—The average annual trade of the United States in canned salmon in the 4-year period, 1925–1928, is summarized below:

	Pounds
Production	303, 783, 000
Imports (maximum)	´ 900,́ 000
	······
Total	304,683,000
Exports	48, 299, 000
	0 # 0 0 0 0 0 0 0
Consumption	256, 384, 000

Besides its natural advantage of a large supply of fish, the United States canning industry has had, since its inception, the benefit of a customs duty ranging from 15 per cent to 30 per cent ad valorem. Since the present duty of 25 per cent ad valorem became effective (act of 1922) imports of the fancy grades of canned salmon have substantially declined and those of the cheaper grades have almost ceased. In view of the fact that Canada exports about 80 per cent of its production and Siberia at least 95 per cent, this decline in our imports is highly significant.

In the United States, the prices of canned salmon, like those of other important canned foods, such as pineapple, spinach, corn, peas, and tomatoes, are set by a few large packers, when the packing season is well advanced. The "opening prices" announced by the large concerns are taken as a guide by the smaller producers in fixing their quotations. Salmon canning, however, is concentrated in fewer hands than most other canning industries. In 1928 five packers produced 64 per cent of the pack of the most valuable species, the sockeye or red salmon. These five packers, however, produced only 26 per cent of the total pack of all varieties. The control of the foreign industry is in the hands of even fewer companies. In 1928 five companies put up 88 per cent of the total Canadian pack, and one company 79 per cent of the total Siberian pack. Opening prices are usually announced in August and are guaranteed against a decline until January. As they are published before the close of the canning season, subsequent quotations on one or more varieties may be higher or lower if unexpected changes occur in the runs of fish. Long periods ensue, however, when prices are stable, and for some varieties a single price may be maintained throughout an entire season.

In foreign markets, prices are materially affected by the annual variations in the combined pack of the United States, Canada, and Siberia. The rapid expansion of the Siberian industry within recent years has been the outstanding feature of the international trade in canned salmon. The large quantities of red salmon canned in Siberia, and the increasing production of the cheaper grades, are making it more difficult for the United States and Canada to market their large production of pink and chum salmon. In the United Kingdom, the principal foreign market for canned salmon, the price of Siberian red salmon has been uniformly below that of Alaskan red

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salmon. Comparing London and Seattle prices, there is considerable monthly variation in certain standard grades of canned salmon. Whether London is supplied by the United States only when there is an exportable surplus or whether United States packers quote prices to the export trade lower than to the domestic is not known. The available statistics of prices and of exports indicate that United States exports to the United Kingdom are made largely during periods of low prices in the United States. Influences other than competition from Canadian and Siberian salmon may contribute to price differences existing in the London market. In selling to the export trade the United States packer does not guarantee against a price decline in the foreign market. The average sale in the London market is usually larger than the average sale in the home market.

In some important foreign markets, United States canned salmon suffers, directly or indirectly, as a result of tariff discriminations. Canadian salmon enjoys concessions in France and preferential entrance into Australia, New Zealand, and other British possessions. In others—Cuba and the Philippines—the United States product has tariff advantages, but less valuable advantages than Canada has in other countries. Both Canada and the United States are, of course, subject to extensive competition from the more recently developed Siberian industry, especially in the English market, where there are no customs duties, and where the demand is for red salmon, a species relatively more abundant in Siberia than in the United States and Canada.

Mild-cured salmon.—The United States trade in mild-cured salmon (lightly salted salmon sides) in 1927 is summarized below:

	Pounds
Production	14, 308, 000
Imports (maximum)	
Total	14, 926, 875
Total Exports	2, 947, 400
•	
Consumption	11, 979, 475

A comparison of the above statistics with corresponding figures for the other salmon products indicates that there is greater competition in United States markets between the foreign and the domestic mild-cured than between any other salmon products, but even so, exports of mild-cured greatly exceed imports. In both the United States and Germany (the principal foreign market) there is a growing demand for mild-cured salmon, although in the latter country trade has not reached its pre-war level. Canada, Japan, and Siberia are the only important foreign sources of mild-cured salmon, and at present (1929) Canada is probably the principal source of United States imports.

Pickled salmon.—The United States pack of pickled salmon is put up largely for home consumption. Small quantities are imported from Newfoundland and Canada, but neither country is a large producer. Siberia, the only important producer, sells almost its entire output in the Orient. In the United States the demand for pickled salmon is declining. Domestic production in 1927 was only about 766,000 pounds. Statistics of imports and exports are lacking, but the trade is probably small. The decline in domestic consumption is probably due to the time and labor required to prepare salted fish for the table; the decrease in our foreign-born population, the chief consumers; and the wider distribution of fresh and frozen salmon.

Pickled salmon and the higher priced mild-cured salmon are competitive to the extent that when the latter is scarce or for other reasons the price is high, the former is used.

Under the last three general tariff acts pickled salmon has been provided for as follows: Act of 1909, 1 cent per pound; act of 1913, free; act of 1922, 25 per centum ad valorem.

Dry-salted salmon.-Almost the entire world supply of dry-salted salmon is consumed in the Orient. Most of it is produced in Siberia by the Japanese. Practically none has been produced in the United States since 1920. Only when there is a shortage in the Orient does the United States pack any appreciable quantities. Canada, the only other producer outside Asia, has gained a substantial market in the Orient in recent years, shipping approximately 11,000,000 pounds annually from 1921 to 1927, inclusive. The world production of dry-salted salmon appears to be declining, not only because the fisheries are being depleted, but because of an increased demand for the fresh fish by the other salmon industries. With a waning supply of fish available for salting, there has been an increase in the cost of the raw material and hence a rise in the price of the finished Japanese dry-salted pink salmon sold at 4 cents per pound product. in 1927, as compared with 1.8 cents in 1914.

The United States customs duty on dry-salted salmon under the tariff act of 1922 is $1\frac{1}{4}$ cents per pound.

Smoked salmon.—Smoked salmon, on account of its perishability and the relatively staple nature of the raw product (salted salmon), is prepared chiefly in the large consuming centers. There is an extensive market for it in the United States, but imports even when duty free never exceeded 3 per cent of domestic consumption. Factors that favor production in the large consuming centers apparently preclude extensive imports, although improvements in preserving processes may lead to substantial foreign competition.

Kippered salmon.—Kippered salmon, like smoked salmon, has encountered no serious competition from abroad, even when on the free list. There is little probability of immediate competition, because the large consuming centers are the most economical points of manufacture. Competition may develop, however, as a result of improved preserving processes. In recent years a small trade has been built up in frozen kippered salmon and in canned kippered salmon.

SCHEDULE 8. SPIRITS, WINES, AND OTHER BEVERAGES

Most of the articles included in Schedule 8 are of minor tariff importance, since their manufacture and trade are supervised by the Bureau of Prohibition. The Tariff Commission has summarized the available information in regard to domestic production, imports and exports of spirits, wines, and other beverages and it has been published as volume 8 of the Summary of Tariff Information, 1929. All of the public hearings held by both committees on the proposed

tariff act were attended by the representatives of the commission.

Subsequently, experts of the commission made digests of the testimony given before the committees and prepared memoranda for Members of Congress with respect to changes in duty requested by witnesses who appeared at the hearing.

SCHEDULES 9, 10, 11, AND 12. TEXTILES

(a) GENERAL STATEMENT

The textile division is concerned with all articles provided for in Schedules 9, 10, 11 (except raw wool, handled by the agricultural division), and 12, and with other textile materials and manufactures in the sundries schedule and on the free list.

During the past year the division prepared a summary of tariff information pertaining to textile subjects for the use of the Congressional committees in connection with pending tariff readjustments, and continued its work on surveys and on investigations instituted for the purposes of section 315.

In addition to making special investigations and preparing reports, the division maintains a current file reflecting changes in economic conditions, changes of tariff significance in industrial technique, and, what is equally important in the marketing of textiles, changes in styles or in the use of textiles in industry and in the arts that may have a far-reaching effect on demand and alter the conditions of foreign competition.

The source of statistical material for this file is usually the official publications of other United States Government agencies. Whenever possible the production figures of the Bureau of the Census, the statistical data compiled by the Department of Agriculture, and figures on foreign trade published by the Department of Commerce are relied upon. Pertinent material from official publications of foreign countries and statistical data published by domestic trade associations are also used.

Occasionally, however, the United States Census of Manufactures, which is taken more frequently and is more comprehensive than that of any other nation, does not contain details corresponding exactly to some particular classification in the tariff act. When production data are needed on an article not covered in the census schedules, questionnaires are sent to all known manufacturers of the article. This procedure is followed only when the article has considerable tariff importance, and when reliable information is not available through other sources.

Statistics on imports for consumption follow closely classifications in the tariff act, but at times are worded too broadly to indicate the exact nature and extent of foreign competition. Recourse is then had to actual invoices either for a general study or for statistical analysis. For example, an examination of invoices covering imports of "knit fabric, other than warp knit, wholly or in chief value of cotton" (par. 914) showed practically all of the imports under this clause to be a special type of elastic fabric knit of cotton, rayon, and india rubber, in selvedged pieces for use in corset manufacture.

In studying the kinds of articles imported, valuable assistance has been received from the office of the appraiser of the port of New York, the principal port of entry for manufactured textiles. During the past year, when information was desired as to the volume of imports of different kinds of silk velvet, a material in popular favor and one not given a separate import classification by type, the office of the appraiser made a special tabulation of imports of silk velvets showing weight and value by types and countries of origin. The textile examiners have given the experts of the commission the benefit of their experience and have afforded them opportunities for study, at firsthand, of the type, character, manufacturing technique, and quality of imports.

The fact that the production of different kinds of textiles is controlled by the trend of fashion complicates the task of the division, as articles made at one time of a certain material may six months later be made of a different material. Frequently, these changes are brought to the attention of the experts of the commission before the statistical agencies of the government have had an opportunity to observe them. These agencies have responded to suggestions of the commission with the result that production, import, and export statistics, showing details not formerly recorded, of material, type, or use, are now available. For example, additions recently made, for the domestic lace industry, supply details necessary for a tariff study of the factors involved in a comparison of imports and production in the various branches. They indicate that imports of bobbinet are large in comparison with domestic production; that in the Levers lace industry competition is acute; and that in the branches of the industry making Nottingham lace curtains and Barmen laces, domestic production supplies the American markets and imports are negligible.

Changes in the technical phases of an industry are best understood by constant contacts with the trade, but for financial reasons the commission must confine field trips to matters of more than passing importance. One of the outstanding opportunities in the textile field for measuring progress, studying materials and equipment, and interviewing manufacturers is afforded by textile exhibitions, such as the annual knitting arts exhibit held in Philadelphia, and now becoming an international institution.

Field trips are supplemented by careful technical research. Some three dozen periodicals and papers devoted to textile industries are scrutinized for technical information and matters affecting trade. Besides American publications, this list comprises the leading British textile magazine, 3 in French, 3 in German, 1 in Spanish, and 1 in Italian. Practically all the latest books on important textile industries have been purchased by the commission and new books are constantly being added in order that the experts may have accessible the best technical literature available. Whenever new questions arise which can not be solved by research, letters are sent to the trade association concerned, or to leading manufacturers and distributors. Such appeals for cooperation meet with gratifying responses.

(b) SUMMARY OF TARIFF INFORMATION, 1929

At the request of the Committee on Ways and Means a summary of tariff information similar to that published in 1921 was compiled by the commission. Material assembled for the act of 1922 was so out of date and, for many textiles, the tariff classifications of 1913 were so different from those of 1922 that the summary of 1929 was an entirely new piece of work. Within a few weeks, however, it was compiled, printed, and in the hands of the committee in time for the hearings. The early completion of the summary was made possible because information had been accumulated and organized during a period of years in preparation for the time when comprehensive information would be desired on short notice.

Summaries were prepared for four complete textile schedules: (1) Schedule 9, cotton manufactures, which covers 76 printed pages; (2) Schedule 10, flax, hemp, jute, and manufactures of, 56 pages; (3) Schedule 11, wool and manufactures of, 71 pages; and (4) Schedule 12, silk and silk goods, 63 pages. Schedule 12 also includes rayon and rayon goods, given a separate schedule in H. R. 2667 Besides the textile schedules, paragraphs covering textile products enumerated in Schedules 14 and 15 were also considered by the division. These included paragraph 1404, ramie hat braids and manufactures of; paragraph 1430, laces, embroideries, etc.; paragraph 1516, waste bagging; paragraph 1521, binding twine; paragraph 1525, bolting cloth; paragraph 1554, coir and coir yarn; paragraph 1560, raw cotton and cotton waste; paragraph 1582, vegetable fibers not specially provided for; paragraph 1624, otter trawl fishing nets; paragraph 1628, oakum; paragraph 1664, raw silk.

In the Summary of Tariff Information each item enumerated in the tariff act is considered separately. A short section on the "description and uses" of the article for the purpose of defining the technical language of the act, explaining classification, and pointing out how the industry concerned impinges upon other industries appears first. The meanings of such terms as "cloths woven with eight or more harnesses, or with Jacquard, lappet, or swivel attachments," "flax, hackled, including 'dressed line'," "gill netting," "top waste, slubbing waste, roving waste, and ring waste," "thrown silk, tram or organzine," to choose a few from the tariff act, are not supposed to be matters of common knowledge, and brief explanations are given.

Statistics of production, imports, and exports are accompanied by interpretive comments, brief description of the domestic and the foreign industry, and where necessary, differentiation in the types or qualities of the goods imported and the domestic goods produced for home use or exported. Under "competitive conditions" the salient factors influencing the trend of imports are focused, and the principal advantages and disadvantages of the domestic manufacturer in the domestic market are indicated. A section on customs decisions, prepared by the legal division of the commission, shows the textile paragraphs that have led to litigation and how the courts disposed of the questions raised.

(c) Work in Connection with Tariff Legislation

Ways and Means Committee.—Textile hearings held by the Committee on Ways and Means were attended by the experts of the division and digests of the testimony were subsequently prepared by them. When the hearings were completed, subcommittees of the majority members began to study the various schedules and draft changes for consideration at the full meeting of majority members. First on the program of the textile subcommittees were trips to leading textile centers, North and South, and to New York for conferences with customs officials. Experts of the division were asked to plan the itineraries, to select representative mills to be visited, and to accompany the committee members. As a basis for their tariff work, the subcommittees desired to obtain first-hand knowledge of textile imports at the principal port of entry, and to be shown a cross section of the domestic textile industry. They wished to see the machinery in operation, to have processes which were likely to be subjects of tariff argument explained, to have an opportunity of forming their own conclusions regarding conditions in the industry, and to make comparisons of imports with similar domestic goods.

In compliance with requests made by the subcommittees that experts of the division attend the deliberations of the committees when called upon, the services of the division were available to the subcommittees at all times. From the middle of March until the bill (H. R. 2667) was presented in the House, May 7, 1929, the experts of the division were in almost constant attendance upon the Committee on Ways and Means or the various textile subcommittees, to give information supplemental to that incorporated in the Summary of Tariff Information or to that submitted by witnesses at the hearings. As the work progressed frequent requests came from the various members of the subcommittees for special statistical tables and charts to clarify or to illustrate some point under discussion. With the cooperation of other divisions of the commission the material was prepared and presented to the subcommittees.

One of the major problems confronting the textile subcommittees was formulating tariff classifications for rayon and other synthetic fibers. From a comparatively small production of 15,000,000 pounds in 1921 this group of industries has grown until the estimated production in 1929 was 127,000,000 pounds. Rayon and other synthetic fibers were included in a separate schedule in H. R. 2667, and the subcommittee had the services of the textile division in drafting the new schedule.

Amendments to H. R. 2667 in the House of Representatives.—Amendments affecting many textile paragraphs in H. R. 2667, which were offered on the floor of the House, occasioned further conferences with members of the Committee on Ways and Means, and during this period of discussion of the bill, additional data were frequently furnished. Until the bill was passed by the House of Representatives on May 28, 1929, and sent to the Senate, the division worked in close cooperation with the Committee on Ways and Means.

Finance Committee.—The Committee on Finance, divided into subcommittees, held hearings on the pending tariff bill. Hearings on textile schedules began with cotton manufactures on June 14 and ended with the completion of the rayon schedule on July 9. Experts of the division attended the hearings on the commodities assigned to them and made digests of the testimony on Schedules 9, 10, 11, 12, and 13, and on textile paragraphs in other schedules.

Contrary to the practice followed by the Committee on Ways and Means, the Committee on Finance met in full sessions of the majority members to discuss revision of H. R. 2667. There were, therefore, no formal conferences of the commodity experts with the subcommittees, but individual members of the committee several times summoned

experts to submit data on subjects under review. As preliminary preparation for the meetings of the Finance Committee, the division brought up to date, as far as possible, the tables in the Summary of Tariff Information and obtained data on new aspects of the industry in question brought out at the hearings. The experts were requested by the chairman of the Committee on Finance to be present at committee meetings when the various textile subjects were under discussion in order to furnish or interpret statistical data and to answer technical questions.

In compliance with a request from the ranking minority member of the committee, a report was prepared on the principal textile paragraphs affected by changes as compared with the act of 1922, showing, where possible, domestic production, exports, imports, the tendency of prices, significant changes in technology and other special competitive factors peculiar to the particular industry.

Legislative Counsel.—The chief of the textile division and at times the various commodity experts cooperated with the members of the Legislative Counsel intrusted with the task of drafting the bill in accordance with the changes desired by the Committee on Ways and Means, and by the Committee on Finance.

(d) SURVEYS AND REPORTS

Textile imports and exports, 1891–1927.—The commission published in January, 1929, a statistical tabulation covering the import and export trade of the United States in textiles from 1891 to 1927. The publication consists of 365 pages of tables, including six illustrative charts. For the convenience of persons to whom copies of the tariff law are not easily accessible, the text of paragraphs relating to textiles in the act of 1922 was appended.

Of particular importance are the tables on imports for consumption, showing quantity, value, duty collected, the average unit value, and the equivalent ad valorem rate of duty on each textile item listed in the import classification. Each table begins with the year 1891 or the next earliest year available for the particular item. Covering the operations of the last five tariff acts—1890, 1894, 1897, 1909, and 1913—and the present act of 1922 through 1927, the statistics are divided into tariff periods and the annual average for each tariff period is calculated.

The following table summarizes the trade in 1927 of textile materials and manufactures.

Foreign trade of the United States in textile materials and manufactures in the calendar year 1927

	Textile mate- rials	Textile manu- factures
General imports	\$597, 113, 678	\$327, 743, 899
Exports of foreign merchandise	20, 111, 011	4, 745, 997
Exports of domestic merchandise	837, 226, 460	178, 249, 493
Excess of exports (+) or imports (-)	+260, 223, 793	—144, 748, 409

In textile materials, exports from the United States are principally raw cotton, whereas imports include raw silk, silk waste, wool, wool wastes, mohair, raw cotton, henequen, manila, and jute. The value of the raw cotton exported is much in excess of the value of the total textile materials imported for manufacture.

In textile manufactures, imports normally exceed exports. Imports are most largely those made of jute and flax, followed by those made of cotton, wool, silk, and rayon, in the order stated. Exports are most largely those made of cotton, followed by those made of silk, but include smaller amounts made of rayon, henequen, jute, and wool.

The detailed tables are combined into summary tables from which trends in the imports of textiles for consumption in the United States may be observed. Total imports of unmanufactured textile materials averaged, in value, approximately \$59,000,000 under the act of 1890 and \$616,000,000 under the act of 1922; total imports of manufac-tured textiles averaged in value \$113,000,000 under the act of 1890 and \$320,000,000 under the act of 1922. Reversal in the importance of unmanufactured as compared with manufactured textiles has been brought about largely by the post-war demand for raw silk in the American market, imports of this commodity averaging annually over \$388,000,000 in value under the act of 1922, as compared with an annual average of less than \$23,000,000 under the act of 1890. But, notwithstanding the higher level of prices, imports of silk manufactures increased only from an annual average value of about \$32,000,000 under the act of 1890 to approximately \$39,000,000 under the act of 1922. Exports of silk manufactures in 1927 amounted to an approximate value of \$15,000,000, over one-half of which were exports of silk hosiery.

Comparing annual averages, expressed in round numbers, under the act of 1890, with annual averages under the act of 1922, imports of raw cotton increased from \$4,000,000 to \$53,000,000; other vegetable fibers, unmanufactured, from \$19,000,000 to \$56,000,000; raw wool, from \$14,000,000 to \$118,000,000; cotton manufactures from \$27,000,000 to \$78,000,000; manufactures of other vegetable fibers from \$25,000,000 to \$135,000,000; manufactures of wool from \$28,000,000 to \$56,000,000; and manufactures of rayon (not commercially produced in the United States until 1910) amounted to \$12,000,000 under the act of 1922. In the manufactured group, vegetable fibers, other than cotton, have shown the most significant gains, the largest single increase being in imports of burlap from \$6,000,000 to \$71,000,000.

(e) OTHER WORK OF THE DIVISION

Although during the year under review the textile division was engaged mainly in work connected with tariff revision, it also prepared surveys and reports and conducted an investigation of handkerchiefs for the purposes of section 315 of the tariff act of 1922.

SCHEDULE 9. COTTON MANUFACTURES

(a) SURVEYS AND REPORTS

Cotton velvets and plushes, also cotton upholstery cloths, subjects of applications under the provisions of section 315 of the act of 1922, were studied and further information was obtained for the commission in deciding whether cost investigations here and abroad were

warranted. Additional data were obtained for a survey on countable cotton cloths, and more time was devoted to the survey under way on lace and lace articles.

Lace and lace articles.—The survey on lace and lace articles, now nearing completion, deals with the fabrics and articles provided for in paragraphs 920 and 1430 of the tariff act of 1922, particularly with Nottingham lace-curtain machine products, Levers laces, bobbinets, Barmen laces, Alencon laces, and handmade laces. Imports of Nottingham lace-curtain machine products and of

Imports of Nottingham lace-curtain machine products and of Barmen laces are small, the domestic demand being supplied almost entirely by domestic production. Of the domestic consumption of Levers laces, about two-thirds are of foreign origin. The demand for bobbinets is supplied largely by imports, and for Alencon laces and handmade laces wholly by imports.

All of these articles are subject to changes in style and fashion. Recent developments have tended to decrease the demand for cotton laces and to increase the demand for cotton nets and for silk laces and nets. The following table shows the trend of imports for consumption during the last four years.

Calendar year	Machine-m	ade laces	Nets, nettings, veils and veilings		
	Cotton	Silk	Cotton	Silk	
1925 1926 1927 1923	\$7, 908, 793 5, 355, 854 4, 900, 073 4, 551, 528	\$781, 351 631, 488 825, 231 1, 036, 470	\$1, 173, 478 1, 136, 014 1, 372, 999 1, 774, 567	\$527, 832 546, 587 557, 353 970, 782	

Laces:	Imports	for	consumption,	1925-1928
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The decreasing demand for cotton laces and the increasing demand for silk laces are further reflected by domestic production data. The last census figures available for Levers laces, those for 1927, show that of a total production of \$6,262,931, cotton laces comprised \$2,728,987 and silk, rayon, and mixed fiber laces totalled \$3,533,944; these figures indicate that domestic mills supply about 23 per cent of the cotton laces and about 62 per cent of the laces of silk and other fibers consumed in the United States.

(b) Investigation in Progress for Purposes of Section 315

Handkerchiefs.—On May 28, 1928, the commission instituted an investigation, for the purposes of section 315 of the tariff act of 1922, of the cost of production of unembroidered linen handkerchiefs, dutiable under paragraph 1016, and of embroidered linen and cotton handkerchiefs, dutiable under paragraph 1430.

Because of the pressure of work incident to the pending tariff legislation, domestic field work was suspended in December, 1928. At that time the field work had been completed in 12 out of 14 domestic mills selected for study. These mills were in New Jersey, New York, and Pennsylvania. Among them were 8 that carry out practically all manufacturing operations of handkerchief manufacture, and 4 that specialize in certain operations, such as embroidering and hemstitching, and that work on a contract basis for the regular manufacturers. Cost of production data were obtained on 355 specific types of plain cotton and linen handkerchiefs and on machineembroidered cotton and linen handkerchiefs made in continental United States, and on some hand-embroidered ones made in Porto Rico.

Field work abroad was begun late in September, 1928, at Belfast, Ireland, the world's center of the linen industry. There the representatives of the commission had the cooperation of handkerchief manufacturers and their association and also of the Ministry of Commerce and the Ministry of Labor of Northern Ireland. Costs were obtained from eight handkerchief manufacturing plants at Belfast and vicinity on 170 specific types of plain linen handkerchiefs finished by hand or by machine, and on linen handkerchiefs ornamented or embroidered by hand or by machine. Some cost data on the cambric and sheer linens used in making handkerchiefs were also obtained.

Completing the field work in Ireland the latter part of March, 1929, the representatives of the commission then proceeded to St. Gall, Switzerland, the principal center for machine-made embroideries. Here, as in Belfast, they had the cooperation of handkerchief manufacturers, and organizations connected with the manufacture of handkerchiefs. From four plants in St. Gall and its neighborhood they obtained cost data on 182 specific articles, principally machineembroidered handkerchiefs of cotton but including some of linen. Early in June work in Switzerland was completed.

Until 1927, handkerchiefs were not shown separately in statistics published by the Bureau of the Census. For that year production by firms engaged primarily in the manufacture of handkerchiefs amounted to \$29,697,000. A résumé of the industry is shown by the following statistics:

Number of establishments Wage earners (not including salaried employees) Wages		
Production:	Dozens	Value \$15:022.250
Men's handkerchiefs Women's handkerchiefs	20, 073, 315	\$15, 022, 350 \$14, 674, 791
Embroidered handkerchiefs produced by firms er		\$29, 697, 141
marily in the manufacture of embroideries Other products of handkerchief manufacturers		\$951, 891 \$1, 891, 079
Total		\$32, 540, 111

Plain cotton handkerchiefs, made to retail at 25 cents or less, constitute the bulk of domestic production. In terms of value, about a third of the domestic production, it is estimated, consists of embroidered handkerchiefs.

Imports of cotton and linen handkerchiefs are classified as "not ornamented," and "ornamented with lace, embroidery, etc." The following statistics show the trend of importation in recent years.

	Cot	ton	Linen		
Year	Not orna- mented	Ornamented with lace, embroidery, etc.	Not orna- mented	Ornamented with lace, embroidery, etc.	
1923 1924 1925 1928 1927 1928 1929 1929 (10 months)	\$698, 283 1, 035, 987 1, 220, 198 878, 763 681, 760 615, 548 565, 968	\$801, 242 1, 248, 898 1, 342, 402 1, 281, 288 1, 303, 539 1, 205, 738 1, 086, 791	\$2, 223, 139 2, 855, 706 2, 480, 138 3, 327, 739 3, 974, 998 3, 826, 277 3, 570, 531	\$1, 352, 550 1, 890, 924 1, 642, 226 1, 679, 270 1, 948, 528 1, 967, 452 1, 761, 569	

Handkerchiefs of cotton and timen: Imports for consumption in the United States, 1923-1929

The principal sources of imports in 1928 are given in the following table.

Handkerchiefs of linen and cotton: Imports for consumption in the United States. in 1928, by countries

	Cot	iton	Linen		
Imported from	Not orna- mented	Ornamented with lace, embroidery, etc.	Not orna- mented	Ornamented with lace, embroidery, etc.	
United Kingdom Switzerland Germany France China All other countries	\$493, 561 4, 145 3, 967 88, 555 2, 863 22, 295	\$38, 907 906, 552 163, 736 32, 207 37, 281 27, 055	\$2, 632, 950 16, 212 9, 432 1, 018, 901 6, 418 142, 364	\$982, 752 402, 896 81, 241 244, 640 95, 059 157, 864	
Total	615, 386	1, 205, 738	3, 826, 277	1, 964, 452	

Imports of cotton handkerchiefs not ornamented are chiefly from the United Kingdom and generally consist of handkerchiefs made from medium and fine counts of cotton cloth in colored or woven stripes, cords, or borders. Because of the rather limited demand for these handkerchiefs, the domestic manufacturer makes little or no attempt to produce them, with the result that imports are more supplemental than competitive. Imports of cotton handkerchiefs ornamented with lace or embroidery are chiefly machine-embroidered handkerchiefs from Switzerland, and compete with handkerchiefs of domestic manufacture. Lace trimmed or embroidered cotton handkerchiefs imported from other countries are for the most part ornamented by hand; because of the high cost of hand labor, such handkerchiefs are not usually manufactured in the United States. Plain linen handkerchiefs are imported chiefly from the United Kingdom, although appreciable quantities come from France. Many of them have touches of handwork, usually hand-rolled hems, hemstitching, or hand-drawn threads, work not commercially done in the United States. Such imports are to some extent competitive with handkerchiefs of domestic Linen handkerchiefs ornamented with embroidery or manufacture. lace are also imported chiefly from the United Kingdom, but come in appreciable quantities also from Switzerland, France, Germany, and China. Except handkerchiefs from Switzerland, which are largely machine embroidered, imports of linen handkerchiefs ornamented with lace or embroidery are largely handmade. The cheaper grades of hand-embroidered linen handkerchiefs compete to some extent, at least, on a price basis with machine-embroidered handkerchiefs manufactured in the United States. Some of these imported handkerchiefs ornamented with lace or embroidery are, however, of the higher-priced grades and are supplemental to, rather than competitive with, handkerchiefs of domestic manufacture.

The following table shows domestic exports of cotton handkerchiefs. Exports of linen and silk handkerchiefs of domestic manufacture are not separately recorded.

Year	Quantity	Value	Value per dozen	Year	Quantity	Value	Value per dozen
1922 1923 1924 1925	Dozens 360, 367 396, 991 331, 837 286, 115	\$251, 194 284, 638 240, 384 189, 652	\$0. 697 . 717 . 724 . 663	1926 1927 1928	Dozens 258, 835 225, 367 237, 962	\$178, 799 143, 296 155, 849	\$0.69 .636 .655

Cotton handkerchiefs: Domestic exports, 1922-1928

From 1923 to 1927 there was a steady decline in both the quantity and the value of exports of handkerchiefs. Cuba is the principal market, but appreciable quantities go to Canada, Mexico, and the Philippine Islands.

SCHEDULE 10. FLAX, HEMP, JUTE, AND MANUFACTURES OF

(a) SURVEYS AND REPORTS

A survey on linoleum and allied types of hard-surface floor coverings, an advance summary of which appeared in the annual report of the commission for 1928, has been printed and is available for distribution.

Domestic production of linoleum, felt-base floor covering, floor oilcloth, and rubber tile, in the last census year (1927) is compared with imports and exports in that year in the following table.

Linoleum and other hard-surface floor coverings: Domestic production, imports, and exports, 1927

[Source: United States Census for domestic production and Foreign Commerce and Navigation of the United States for imports and exports]

Article	Domestic production		Imports for consump- tion		Domestic exports	
110000	Quantity	Value	Quantity	Value	Quantity	Value
Linoleum Felt-base floor covering Floor oilcloth	Square yards 49, 921, 494 111, 527, 246 (2)	\$42, 039, 062 34, 826, 069 (²)	Square yards 1,061,564 None. 16,540	¹ \$1, 149, 853 None. 5, 666	Square yards 1, 092, 749 3, 480, 240	\$716, 678 1, 324, 682
Rubber tile	975, 361	4, 503, 433	None.	None.	(2)	(2)
Total	162, 424, 101	81, 368, 564	1, 078, 104	1, 155, 519	4, 572, 989	2, 041, 360

Imports classified as "linoleum, corticine, and cork carpets, mats, and rugs."
 Not separately recorded, probably negligible.

Our foreign trade in linoleum is largely with the United Kingdom. 82 per cent of our imports in 1927 originated in that country, and 20 per cent of our exports of linoleum went there. Australia took 29 per cent of our exports. In general, we exchange figured linoleum for the heavy plain, and straight-line inlaid linoleum of British manufacture.

The United Kingdom and Australia are also our chief markets for felt-base floor coverings, approximately two-thirds of our exports in 1927 going to these two countries. We import no felt-base floor covering.

Floor oilcloth is not exported from the United States and relatively insignificant quantities are imported. Very little rubber tile is exported from the United States, and there is no record of any imports.

Linoleum imported into the United Kingdom is admitted free of duty; imports into Australia are dutiable at 25 per cent if from the United States and at 10 per cent if from the United Kingdom.

United States and foreign tariff duties on selected typical linoleums as of March 31, 1928, were as follows:

Comparison of	relative heights of United States and foreign tariff duties on selected	
• •	typical linoleums as of March 31, 1928	

Detail	Battleship	linoleum	Inlaid linoleum		
Gage (thickness) inch Net weight per square yard pounds Gross weight per square yard do Price per square yard do Price per pound do Price per kilogram do	14.00 14.90 \$2.03 \$0.145		0.142 (3.61 mm.) 8.00 \$9.40 \$1.82 \$0.228 \$0.501		
		Actual or eq	uivalent dut	У	
Country	Per square yard	Per cent	Per square yard	Per cent	
Soviet Russia Mexico. Cuba (general tariff) Cuba (united States preferential) Spain Zechoslovakia Poland. Italy Bolivia. Belgium New Zealand (general tariff). Canada (general tariff). Canada (general tariff). United States. Hungary Greece Argentina. France (United States intermediate). Chile. Latvia. Japan. Brazil. Australia (general tariff). Canada (British preferential). France (minimum tariff). Norway. Sweden. New Zealand (British preferential). Prance (minimum tariff). Norway. Sweden. Philippine Islands. Duch East Indies. Australia (British preferential). Prance (Indies. Market India. Philippine Islands. Denmark. China. China. China. Person (Contemportal). China.	$\begin{array}{c} \$4. 9056\\ 2. 8213\\ 2. 6160\\ 2. 0940\\ 1. 2824\\ 1. 1130\\ 1. 0402\\ 9586\\ 9294\\ 8120\\ 7105\\ 7105\\ 7105\\ 7105\\ 6650\\ 6236\\ 6176\\ 6373\\ 6370\\ 6236\\ 6176\\ 5684\\ 5488\\ 55075\\ 5075\\ 5075\\ 5075\\ 5075\\ 5075\\ 5075\\ 4998\\ 4258\\ 4256\\ 4060\\ 3046\\ 3045\\ 3045\\ 2478\\ 4258\\ 4256\\ 4060\\ 3045\\ 3045\\ 3045\\ 3045\\ 3045\\ 1523\\ 1512\\ $	$\begin{array}{c} 241, 66\\ 138, 98\\ 128, 87\\ 103, 15\\ 63, 17\\ 55, 59\\ 54, 83\\ 51, 24\\ 47, 22\\ 45, 79\\ 40, 00\\ 35, 00\\ 24, 62\\ 22, 55\\ 20, 97\\ 20, 00\\ 15,$	$\begin{array}{r} \$2.\ 8032\\ 1.\ 6769\\ 1.\ 6502\\ 1.\ 3209\\ 7328\\ .\ 6448\\ .\ 9536\\ .\ 6856\\ .\ 6370\\ .\ 7792\\ .\ 7280\\ .\ 6370\ .\ $	$\begin{array}{c} 154.02\\ 92.14\\ 90.67\\ 772.58\\ 40.26\\ 35.40\\ 37.67\\ 35.01\\ 42.81\\ 40.00\\ 35.00\\ $	

(b) EFFECT OF CHANGES IN DUTY ON COTTON RAG RUGS

Following an investigation and a report by the commission, the President, by proclamation, changed the basis for the assessment of duty from the foreign value to the American selling price on cottonrag rugs of the type commonly known as hit-and-miss. Other types of cotton floor covering were not affected. The proclamation became effective February 28, 1928. Since that date, imports of hit-andmiss rag rugs and of other types of cotton floor coverings have been as follows:

	Carpets, carpeting, mats, and rugs, of cotton						
Year and month	Hit-and-mi	ss rag rugs	Other		Total		
	Quantity	Value ¹	Quantity	Value 3	Quantity	Value	
1928: March	Square yards 91, 338	\$50, 899	Square yards 149, 157	\$101, 814	, Square yards 240, 495	\$152, 713	
A pril May June	250, 075 163, 353 116, 043	142, 031 92, 564 64, 317	43, 378 66, 278 78, 844	55, 167 56, 641 81, 304	293, 453 229, 631 194, 887	197, 198 149, 205 145, 621	
July August September	303, 577 278, 668 181, 948	170, 435 152, 015 103, 533	84, 433 92, 347 98, 674	92, 580 78, 126 75, 318	388, 010 371, 015 280, 622	263, 015 230, 141 178, 851	
October November December	260, 461 132, 531 127, 929	140, 650 74, 857 72, 427	194, 225 271, 584 185, 255	127, 322 137, 423 98, 062	454, 686 404, 115 313, 184	267, 972 212, 280 170, 489	
Monthly average	190, 592	106, 373	126, 418	90, 397	317, 010	196, 770	
1929:							
January February March	241, 219 107, 891 187, 938 228, 033	136, 994 59, 582 101, 518 130, 665	460, 093 367, 225 290, 215 292, 637	186, 011 144, 252 117, 991 117, 058	$\begin{array}{r} 701, 312 \\ 475, 116 \\ 478, 153 \\ 520, 670 \end{array}$	323, 005 203, 834 219, 509 247, 723	
A pril. MayJune. July.	228,033 208,904 234,072 143,085	130, 005 120, 937 133, 181 78, 439	292, 037 288, 171 267, 477 260, 075	161, 169 132, 167 115, 071	497, 075 501, 549 403, 160	247, 723 282, 106 265, 348 193, 510	
August Monthly average	234, 868 198, 251	133, 140 111, 807	163, 578 298, 684	88, 971 132, 836	398, 446 496, 935	222, 111 244, 643	

Hit-and-miss rag rugs and other cotton floor covering: Imports for consumption, 1928 and 1929

¹ American selling price.

² Foreign value.

The preceding table shows that, following the change in the duty on hit-and-miss cotton rag rugs by proclamation of the President, the monthly average imports of hit-and-miss rugs increased only slightly, whereas the imports of cotton floor coverings other than hit-and-miss rugs increased greatly. The average monthly imports of hit-and-miss rugs (on which the duty was changed) for March to December, 1928, were 190,592 square yards; the average for January to August, 1929, was 198,251 square yards—only 4 per cent greater. Imports of other cotton floor coverings (on which the duty was not changed) for corresponding periods were 126,418 square yards and 298,684 square yards—an increase in 1929 over 1928 of 136 per cent. The trend of imports of hit-and-miss rag rugs and of other cotton floor coverings from Japan and from other countries is shown in the table following.

	Carpets, carpeting, mats, and rugs of cotton					
Imports for consumption	Hit-and-mi	ss rag rugs	Other			
	Quantity	Value	Quantity	Value		
1928—Monthly average (March-December): From Japan From other countries	Square yards 190, 583 9	\$106, 359 14	Square yards 65, 152 58, 745	\$18, 220 69, 766		
Total	190, 592 198, 247 4	106, 373 111, 795 12	¹ 123, 897 240, 571 58, 113	¹ 87, 986 57, 976 74, 860		
Total	198, 251	111, 807	298, 684	132, 836		

Hit-and-miss rag rugs and other cotton floor coverings—Monthly average imports from Japan and from other countries, 1928 and 1929

¹ Total does not check with preceding table. The difference, 2,521 square yards per month, valued at \$2,391, warehouse withdrawals, is not available by countries. Warehouse withdrawals of hit-and-miss rag rugs were considered as imports from Japan.

It is understood that the great increase in the imports from Japan, under the lower duty classification, of cotton floor coverings other than hit-and-miss rag rugs, following the change in the duty by presidential proclamation, results in part from the importation of rag rugs composed of the same material and made in the same way as the hit-and-miss rugs but in solid color or definite design, and in part from the importation of yarn rugs.

SCHEDULE 11. WOOL AND MANUFACTURES OF

(a) RAW WOOL

The production of wool in the United States increased from 261,095,000 pounds in 1922 to approximately 360,000,000 pounds ¹ in 1929, or nearly 38 per cent. The domestic production of mohair, 85 per cent of which is grown in Texas, increased from 8,488,000 pounds in 1922 to about 16,000,000 pounds ¹ in 1929.

in 1922 to about 16,000,000 pounds ¹ in 1929. Practically all of the domestic wool consists of the so-called "improved" or "blooded" wools. A few hundred thousand pounds of unimproved or carpet wools are shorn each year from primitive sheep owned by Indians in the Southwest. The Indians use most of this wool in the hand weaving of blankets of the Navajo type.

The reported mill consumption of domestic wools, by grades, during the years 1921 to 1927, inclusive, indicates that fine wool forms about 31 per cent of the domestic production, with half-blood amounting to 20 per cent, three-eighths blood 23 per cent, quarter-blood 22.5 per cent, and low-quarter blood and coarser wools 3.5 per cent. The reported consumption of similar imported wools during this period consisted of 29 per cent of fine, 10.5 per cent of half-blood,² 17 per cent of three-eighths blood,² 31 per cent of quarter-blood,² and 12.5 per cent of coarser wools.²

¹ Preliminary estimate.

 $^{^2}$ Grades comparable with the domestic "blood" grades with the exception of fine, a part of which is of the American half-blood grade.

The following table shows the domestic production of wool and of mohair, the estimated clean content³ of this production, and the estimated clean content of the imports of improved wool and of mohair and similar hair,⁴ for the years 1923 to 1928, inclusive. The table also shows clean content of both production and imports, and the percentage that production is of this total.

	U	nited State	es producti	on				Per cent	
Year	Wool		Mohair		Produc- tion of wool and mohair,	Imports, wool and hair,	Total of produc- tion and imports.	produc- tion is of total	
	Shorn and pulled	Clean content	Shorn and pulled	Clean content	clean content	clean content	clean content	in pre- ceding column	
1923 1924 1925 1926 1927 1928	266, 110 282, 330 301, 112 310, 500 332, 014 351, 013	121, 652 128, 117 135, 035 140, 898 149, 369 156, 970	9,067 9,857 10,432 11,799 13,470 14,522	7, 931 8, 631 9, 128 10, 325 11, 788 12, 705	129, 583 136, 748 144, 163 151, 223 161, 157 169, 675	165, 303 78, 621 100, 283 110, 335 80, 680 50, 192	294, 886 215, 369 244, 446 261, 558 241, 837 219, 867	44 65 59 58 67 77	

[In thousands of pounds; i. e., 000 omitted]

Imports of carpet wools have increased from 125,526,000 pounds in 1923 to 155,187,000 pounds in 1928, averaging 138,063,000 pounds per year during this period. Of this quantity about 9,100,000 pounds, or slightly over 6 per cent, were dutiable for use chiefly in clothing in which special effects were desired. The remainder-i. e., nearly 94 per cent—entered duty free (under bond) for use in floor coverings. Carpet wools come mainly from Asia, with important entries from Great Britain and South America, and scattering receipts from a wide range of relatively unimportant sources.

The commission has completed a tabulation of prices for comparable grades of domestic and foreign wools.⁵ These prices are on the clean-wool basis in the Boston market for "territory" (western or range) wools and at the London wool auctions for "colonial" (Australasian) wools. The prices and the market differentials-i. e., the spread between Boston and London for the years 1923 to 1928, inclusive, and for the first 10 months of 1929-are shown in the table The market differentials shown in this table are less for following. the fine and half-blood wool than for the medium grades—i. e., three-eighths-blood and quarter-blood. American woolgrowers are now breeding toward the medium grades.

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³ The clean wool content, i. e., after the grease and foreign matter are removed. ⁴ The clean yield of the imports of mohair, cashmere, alpaca, and similar hair amounts to about 4 per cent of the clean yield of imports of such hair and improved wools combined. ⁶ Comparability between grades was established as nearly as possible in cooperation with wool mer-chants and users in this country and England.

Wool: Comparison of prices of "territory" wools in the Boston market and "colonial" wools in the London market, 1923 to October, 1929

Fine combing		Half-I			Three-eighths- blood combing		Quarter-blood combing		Aver- age				
Year	Bos- ton	Lon- don	Dif- fer- ence	Bos- ton	Lon- don	Dif- fer- ence	Bos- ton	Lon- don	Dif- fer- ence	Bos- ton	Lon- don	Dif- fer- ence	Dif- fer- ence,4 grades
1923	\$1.401	\$1.168	\$0, 233	\$1.258	\$1.014	\$0.243	\$1.052	\$0, 856	\$0, 196	\$0. 886	\$0.772	\$0. 114	\$0, 197
1924		1.359								. 972	. 896	.076	. 090
1925	1.396		. 138			, 227	1.090						
1926	1.157		. 128			. 172			. 229	. 823			
1927	1.100		. 097						, 138	. 805			
1928	1, 158		. 145		. 925		1.042		. 225	. 976			
1929 (10 months)	1.001	. 809	. 192	1.002	. 722	. 280	. 954	. 645	. 309	. 867	. 598	. 269	. 262
Average			. 142			. 170			. 205			. 182	. 180

[Per pound]

(b) MANUFACTURES OF WOOL

SURVEYS AND SPECIAL STUDIES

Unprinted surveys on commodities in Schedule 11 include "Felts, not woven, of wool or hair," "One hundred imported wool cloths," and "Wool wearing apparel, not knit or crocheted." Additional recent information has been obtained for use in these surveys, such as import, export, and production data, but the completion of them has been suspended because of the more urgent work in connection with tariff legislation. The information in the surveys, however, has been made available to the Congress for use in connection with the pending legislation.

Anticipating a revision of the tariff act by the Congress, experts of the division made a field trip in July, 1928, to obtain data relative to current conditions in the wool-manufacturing industry. Information obtained from manufacturers and importers of woolens, worsteds, carpets, and wool-felt hats, and from dealers in raw wool and wool by-products was later used in the Summary of Tariff Information, 1929.

Special studies were made of court and Treasury decisions relative to Schedule 11 and an analysis of the articles imported as "manufactures of wool, not specially provided for." This information was made available to the Congress and specific mention has been made in the House and Senate bills of woven machine felts, blankets over 3 yards in length, wool tapestries, and wool-felt hats. A study was also made of imports of cloth in chief value of cotton but containing wool, and these fabrics have been specially provided for in Schedule 9. Since the enactment of the tariff act of 1922 the domestic carpet

Since the enactment of the tariff act of 1922 the domestic carpet and rug industry has developed and placed on the market a new type of rug known in the trade as "American orientals." These rugs are seamless, have a longer pile than the Wilton, have the design woven through to the back as in a real oriental, and are chemically washed to further simulate the appearance of the oriental. In the 9 by 12 foot size they retail for \$150 to \$220. Because of the longer pile these new rugs require more wool than the ordinary Wilton or Axminster, a fact that accounts in part at least for the increased amount of wool used in the industry and the decrease in the number of square yards produced. The House and Senate committees made provision for such rugs in paragraph 1117 of the tariff bill of 1929.

Subsequent to the hearings held by the Ways and Means Committee on Schedule 11, an expert of the division made a field trip to obtain information relative to the competition of wools not finer than 40s and mohair. Approximately 80 per cent of the manufacturers of mohair fabric in New England, New York, and Pennsylvania were interviewed and a report was submitted to the Senate Finance Committee.

Lessened activity in the domestic wool manufacturing industry as a whole and in the various branches of the industry in 1927 as compared with 1923 is shown in the following table.

Manufactures of wool: Statistics of domestic production for 1923 and 1927 and percentage change ¹ in 1927 as compared with 1923

	Number of estab- lishments	Wage earners, average number	Wages	Value of prod- ucts
Total manufactures of wool: 1923 1927 Change (per cent)	1, 004 891 —11. 3	237, 454 194, 827 —18. 0	\$280, 152, 690 224, 799, 962 	\$1, 312, 719, 242 1, 036, 143, 196 -21. 1
Woolen goods: 1923 1927 Change (per cent) Worsted goods:	$-\frac{471}{-8.2}$	72, 408 61, 790 14. 7	\$87, 313, 708 72, 156, 158 -17. 4	\$364, 287, 817 301, 308, 743 17. 3
1923 1927 Change (per cent) Wool carpets and rugs:	288	122, 144 92, 571 24. 2	\$135, 670, 814 101, 665, 747 —25. 1	\$698, 270, 621 516, 669, 556 26, 0
1923 1927 Change (per cent)	65	35, 217 32, 829 6. 8	\$48, 528, 430 42, 040, 892 13. 4	\$199, 480, 623 166, 888, 408 -16. 3
Felt goods, wool and hair: 1923. 1927. Change (per cent).	53 50 5.7	5, 735 5, 452 4. 9	\$6, 634, 964 6, 653, 147 +0. 3	\$42, 036, 964 41, 894, 844 -0. 3
Wool felt hats: 1923. 1927. Change (per cent)	17	1, 950 2, 185 +12. 1	\$2, 004, 774 2, 284, 018 +13. 9	\$8, 643, 217 9, 381, 645 +8. 5

[From Bureau of the Census]

¹ Percentage change based on 1923, (+) indicates increase, (-) decrease.

The above statistics indicate that in number of establishments, average number of wage earners, total wages, and value of products all branches of the wool-manufacturing industry, except the manufacture of wool felt hats, have declined from 1923 to 1927, the greatest decline taking place in the worsted industry. The wool felt hat industry is somewhat peculiar in that the great recent fashion demand for women's felt hats has called forth an increased production and greatly increased imports. Data are not available for the domestic production of wool felt hats in 1928 as compared with 1927, but imports of wool felt hats and hat bodies were nearly three times as large in 1928 as in 1927. Total imports of manufactures of wool increased from \$54,561,000 in 1923 to \$65,040,000 in 1927, as compared with a decrease in the value of domestic wool manufactures during the same period from \$1,312,719,242 to \$1,036,143,196, or about 21 per cent.

The commission reconsidered an application requesting a reduction in the rates of duty on wool gloves and mittens provided for in

paragraph 1114 of the act of 1922. A preliminary investigation made by the commission during the summer of 1928 disclosed that although imports had decreased since 1923, the decrease was not the result of any marked advantage enjoyed by domestic manufacturers, for domestic production had also decreased during the same period. A world-wide style decline seems to have affected foreign as well as domestic producers of wool gloves. In view of the general decline in demand for wool gloves, the commission did not order a cost investigation, but decided to defer action until such a time as changes in the wool glove and mitten industry should make an investigation advisable.

SCHEDULE 12. SILK AND SILK GOODS

(a) SURVEYS AND REPORTS

Valuable material was assembled for use in the amplification of the survey published in 1921, and now out of print, entitled "Silk, Silk Yarns and Threads, and Silk Pile Fabrics." Work on the new edition of this survey is temporarily suspended during the present tariff readjustment.

(b) INVESTIGATIONS AND REPORTS FOR THE PURPOSES OF SECTION 315 OF THE TARIFF ACT OF 1922

Applications received and preliminary reports thereon.—During the first five months of the current year, work on Schedule 12 consisted largely of special studies on commodities on which requests looking toward a decrease in the existing rates of duty had been received by the Department of State from the French Government and transmitted May 24, 1928, to the commission.

To assist the commission in determining whether investigations here and abroad under the flexible tariff provision were warranted or feasible, preliminary studies involving field work over a period of four weeks were undertaken. Through interviews with importers, manufacturers, retailers, and United States customs officers, firsthand information was obtained as to the comparability of foreign and domestic merchandise, prices, causes and strength of foreign competition, and other pertinent factors. The material gathered was embodied in a series of preliminary reports on the following commodities: (1) Spun silk yarns, (2) silk velvets, (3) silk plushes, (4) silk pile ribbons, (5) broad silks and silk upholstery fabrics, and (6) silk wearing apparel. The general status of competition from France on these articles is sketched below.

United States import trade with France in silk goods.—France has long been the leading source of supply for silk manufactures imported into the United States. Measured in terms of value, goods of French origin constituted in 1928 nearly 44 per cent of the total imports of silk manufactures, both dutiable and free. In that year, silk goods imported from France amounted to \$17,901,000, or more than twice the value of such goods imported from Japan, the closest foreign competitor of France in the American market.

Imports of silk wearing apparel, silk knit goods, silk velvets and plushes, silk velvet ribbons, laces, embroideries, veils and veilings of silk, silk ribbons, all-silk fabrics (printed, dyed, embossed, moiréd, or advanced), and silk-mixed fabrics are supplied chiefly by France. Imports from France of spun-silk yarns, of silk bolting cloth, and of silk small wares are exceeded only by those from Switzerland. France ranks next in importance to Japan and China as an exporter to the United States of all-silk fabrics woven in the grey and follows Japan as a supplier of silk handkerchiefs and mufflers.

Piece goods, taken in the aggregate, including broad silks, upholstery fabrics, velvets, plushes, and bolting cloth, form the largest item in the import trade with France, amounting in value in 1928 to over \$7,929,000. This sum represents about one-third of the total value of silk cloth imported from all countries and it exceeds in value the silk fabric imports from Japan, which amounted to \$6,727,000 in 1928.

Next in importance in the trade from France is the item of silk wearing apparel, woven, knitted, embroidered, etc., which aggregated \$5,149,000 in 1928, and constituted about two-thirds of the value of the entire importations from all sources.

Laces and lace articles, embroideries, nets and nettings, veils and veilings, form the next largest group of silk imports from France, amounting to approximately \$2,980,000, or about 73 per cent of the total imports of such products. The remainder of the silk purchases from France is composed of silk ribbons and silk velvet ribbons valued at \$430,000, slightly less than three-fourths of the total ribbon imports into this country, and accessories, such as silk handkerchiefs and mufflers, silk small wares, and other miscellaneous silk manufactures not separately classified.

The following table affords a comparison of the imports of silk manufactures in 1928 from France and Japan.

· · · · · · · · · · · · · · · · · · ·	France	Japan	All other countries	Total for all countries
Manufactures of silk, dutiable under Schedule 12: Spun silk Broad silks	\$570, 401	\$4, 917	\$1, 179, 111	\$1, 754, 429
All-silk in the grey	386, 364 3, 812, 044	5, 892, 646 775, 061 56, 444 3, 031	849, 988 4, 262, 600 492, 337 3, 764, 047	6, 810, 727 8, 680, 346 935, 145 7, 579, 122
Silk velvet or plush ribbons	300, 653 129, 366 27, 135		124, 848 42, 339 75, 209	425, 501 171, 714 103, 489
Silk wearing apparel— Not knit Knit or crocheted Silk handkerchiefs and mufflers All other manufactures		924, 709 193 521, 099 170, 745	740, 149 126, 573 247, 103 401, 918	3, 870, 046 269, 070 948, 678 1, 177, 686
Total manufactures of silk dutiable under Sched- ule 12	12, 069, 732	8, 349, 999	12, 306, 222	32, 725, 953
Manufactures of silk, dutiable under Schedule 14: ¹ Silk wearing apparel embroidered or of lace Silk handkerchiefs and mufflers embroidered or of	2, 801, 857	230, 784	481, 181	3, 513, 822
lace Laces and lace articles Veils and veilings, nets and nettings Embroideries All other	29, 147 1, 118, 776 472, 934 1, 158, 031 230, 054	178, 204 4, 138 12 64, 988 15, 597	28, 791 75, 036 475, 092 388, 491 77, 815	236, 142 1, 197, 950 948, 038 1, 611, 510 323, 466
Total manufactures of silk under Schedule 14	5, 810, 799	493, 723	1, 526, 406	7, 830, 928
Manufactures of silk, free: Bolting cloth Wearing apparel ²	20, 203		720, 795 90, 482	740, 998 90, 482
Total manufactures of silk	17, 900, 734	8, 843, 722	14, 643, 905	41, 388, 361

Silk manufactures: General imports in 1928 from France and Japan and total from all countries, classified according to tariff schedules

² From Philippines.

Distinctive characteristics and significance of silk imports from France.—Imports of silk goods from France are largely articles valued highly for their originality, exclusiveness, skillful hand labor, or prestige. France manufactures in greater proportion than any other country goods of a distinctive quality of design and of workmanship which find an outlet in the fashionable trade rather than in the quantity markets of the world. Most of the imports of French broad silks, upholstery fabrics, and dress velvets are of this class, consisting to a great extent of novelties-either plain woven or Jacquard wovenof continually changing variety and range. Printed plain-woven silks consisting mainly of hand-blocked fabrics and fabrics elaborately printed on multi-roller machines form a considerable portion of the French imports largely because of the demand for novelty and exclusiveness of design. With their world-wide markets and sales organizations in all leading countries, French manufacturers are able to confine orders to a limited quantity per pattern within specified trade zones. Because of the rapid development of the applied arts in America during and since the war, the superiority of the French printed silk goods has not been so marked in the last decade as formerly. At present, 1929, except where French designs are executed by hand, or are exceptionally elaborate, or sold on "confined" orders, the imports may be regarded as competitive with the better grade output of the domestic mills.

In much the same class as the printed silks, from the competitive point of view, are the Jacquard-figured goods, such as damasks, brocades, brocatelles, and armures, for upholstery, draperies, and apparel, which predominate in the imports from France. American manufacturers have attained a high level of excellence in the manufacture of Jacquard goods, but because they find it more profitable to produce conservative styles which have large sales and are adapted to mass-production methods they do not attempt the execution of designs as elaborate and original as the French patterns. It is in the complicated Jacquard goods and the high-quality trade requiring small orders per pattern that French producers have a competitive advantage.

Imports of French goods have led to the introduction in the domestic industry of many new types of fabrics which have been adaptable for large-scale reproduction. An example of this may be seen in the vogue for georgette crêpe, which, originating with the French two or three years preceding the World War and meeting with an extraordinary demand in this country, stimulated the expansion of American throwing as well as weaving facilities. Another more recent instance is the popularity of the so-called transparent velvet made with rayon pile on a silk ground. This fabric, introduced in 1925 in France and imported at first as a novelty, was copied by domestic velvet manufacturers and produced on an increasing scale until at the present time it constitutes the main item of silk dress velvet manufacture in this country. Production of transparent velvets in this country helped the domestic industry to recover from the depression which resulted after the cessation of demand for the major output of the industry-millinery velvets-following the adoption of the felt hat in women's headgear. Transparent velvets represent about two-thirds of the total imports of silk-pile fabrics, but as the domestic supply has been inadequate to meet the exceptional fashion demand, imports have, up to this time, been substantial.

France not only leads in the import trade in transparent velvets but also supplies America with the greater part of its Salome velvet, velvet brocades, fancy metallic velvets, and other high-priced velvet novelties. Silk-pile fabrics at the lower extremes of value, such as cotton-back chiffon velvets with spun-silk pile, are also an important import item from France and these have presented a serious competitive problem for the domestic industry. Another important type of imports of silk products from France is the model gowns from which reproductions or adaptions are made by domestic garment makers. Often the model gowns from which copies have been made are reexported, thereby affording a rebate of the custom duties paid. The practice of purchasing original French models for retailing is less important commercially, as the demand for them is attributable to the prestige of Paris design rather than an intrinsic superiority over American-made goods.

In addition to the models, a considerable number of so-called merchandise dresses in the moderate and inexpensive price range have been imported from France as a result of the development of mass production in Paris in recent years. Such apparel is usually hand finished or skillfully ornamented by hand with beading, embroidery, appliqué, or drawn work. French manufacturers have no competitive advantage over American manufacturers in the inexpensive machine-made apparel, but are successful in exporting in volume hand-finished or hand-trimmed garments during periods when intricacy of detail or elaborateness of ornamentation is sponsored by fashion. It is possible for such imports to undersell domestic apparel. A notable example of such competition is the hand-beaded georgette dress made in France in mass production and exported heavily to the United States during the vogue for that type of dress a few years ago.

Other instances may also be cited where the high percentage of labor involved in the production of the commodity, together with the limited or sporadic demand for it, explains the imports. Such examples are many; they include velvet ribbons, hatters' plush of high pickage and warp density, hand-woven tapestries, hand-blocked printed silks, Chantilly laces involving much hand clipping in the finishing processes, Alencon laces with hand-outlined motifs, and embroideries executed on the hand-operated pantograph machine. Even if the labor costs were not insurmountable, the instability of style and the fluctuating demand for these articles would render their production in the United States financially unattractive.

SCHEDULE 13. PAPERS AND BOOKS

(a) GENERAL STATEMENT

The work of the paper division concerns (1) all commodities provided for in Schedule 13 of the tariff act of 1922, (2) cigarette paper provided for in paragraph 1454, and (3) pulp and paper commodities provided for in the free list (Title II).

During the past year the paper division was occupied almost entirely with preparing information for the use of the Congress in connection with tariff legislation.

Although Schedule 13 consists of but 13 paragraphs, it makes provision for approximately 75 distinct products. Assembling data on these commodities for inclusion in a summary of tariff information required much research work, interviews, and correspondence with individuals and with trade associations.

Members of the division acted in an advisory capacity to the members of the Committee on Ways and Means and to the Senate Finance Committee, as well as to individual Members of the Congress. Following the public hearings of the Committee on Ways and Means, an expert of the paper division accompanied the members of the subcommittee on a field trip arranged for the purpose of acquainting them with the methods of paper manufacture. Reports and memoranda on various phases of the paper and allied industries were prepared for the members of the committees, and the experts were present at the executive sessions of the subcommittee when Schedule 13 of the House bill was drafted.

(b) SURVEYS AND REPORTS

There have been no surveys published during the past year on paper products and pulp, but the information obtained by the commission upon these subjects has been summarized in the Summary of Tariff Information, 1929.

The most important products from the point of view of tariff legislation are newsprint, book paper, light-weight tissues, lithographic products, and fine papers.

Newsprint paper.—In the act of 1922, standard newsprint paper is on the free list. Under the tariff act of 1913, practically all newsprint was free, but if the invoice value exceeded a certain amount $(2\frac{1}{2})$ cents per pound originally; subsequently raised to 5 cents and later to 8 cents per pound during the war) printing paper was dutiable at 12 per cent ad valorem. Under the tariff act of 1909, newsprint was dutiable as printing paper at varying rates based on value, beginning with three-sixteenths of 1 cent per pound.

The domestic consumption of newsprint paper has been approximately 3,500,000 tons annually in recent years, of which about 1,500,000 tons are produced in the United States and about 2,000,000 tons are imported, principally from Canada. The ratio of imports to domestic consumption has increased from 44 per cent in 1923, to 61 per cent in 1928.

More abundant supplies of pulpwood, greater development of hydroelectric power, and more modern, larger, and faster running machines give Canada an advantage over the United States in the production of newsprint paper. Exports of newsprint are relatively small, averaging around 15,000 tons. Prices of newsprint were from \$50 to \$60 per ton in 1929, as compared with about \$45 per ton before the war. At the peak of prices during the war, newsprint quotations ranged as high as \$250 per ton for immediate delivery.

A considerable tonnage of newsprint is used for other purposes than in the printing of newsprint papers, such as in the manufacture of writing tablets and the printing of magazines and catalogues. *Printing or book paper*.—Printing or book paper is dutiable at one-

Printing or book paper.—Printing or book paper is dutiable at onefourth of 1 cent per pound and 10 per cent ad valorem. The manufacture of printing or book paper has shown an upward trend in the United States in recent years, because many mills which formerly made newsprint have turned to the production of book paper. Considerable pulpwood and chemical and mechanically ground wood pulp are imported for manufacture into book paper. Approximately 65 mills, located in 16 States, produce this type of paper, and in 1928 the production was approximately 1,334,000 tons. Imports, which are relatively small are chiefly from Finland, Germany, and the United Kingdom. Exports in 1928 were 12,000 tons and were sent principally to Canada, Cuba, the Philippines, and Australia.

Tissue paper.—The duty on tissue papers weighing not more than 6 pounds per ream is 6 cents per pound plus 15 per cent ad valorem, and weighing 6 to 10 pounds per ream, 5 cents per pound plus 15 per cent ad valorem. These papers are made for a wide variety of uses, such as printing, carbonizing, copying, waxing, electrical insulating, wrapping, and absorbing. The light-weight tissues are of high grade, and require much care and skill in their manufacture. The cheaper grades of tissue papers are those used as fruit wrappers and in the manufacture of towels, napkins, and sanitary products. The manufacture of the light-weight tissues in the United States has not progressed in the same ratio as the manufacture of the heavier grades because the lighter papers do not lend themselves to mass production as readily as the other grades.

Domestic production in 1927 of high-grade tissues was 58,590 tons, with a value of about \$13,000,000. The production of the cheaper tissue in that year was 257,480 tons, valued at \$35,354,212. Imports of tissue paper in 1928 were 1,700 tons, valued at \$2,000,000. These imports were principally papers weighing less than 6 pounds to the ream and with an average foreign value of about 61 cents per pound.

Developments along technical lines occasionally create demands for paper which are difficult to meet immediately. An example of this condition is the condenser tissue used in radio-receiver sets and in talking-picture machines. In this case, the domestic industry has made additional machine installations to meet this particular demand.

Cigarette paper.—Cigarette paper is dutiable at 60 per cent ad valorem. Most of the domestic consumption of cigarette paper made for use in automatic cigarette machines is imported from France. Imports increased from 9,717,757 pounds in 1923 to 13,-928,115 pounds in 1928, and in value from about \$2,500,000 to about \$4,000,000. Domestic production of this type of paper is but a small part of the quantity consumed annually in this country.

Lithographic products.—Cigar bands, labels, flaps, ceramic decalcomanias, and transparencies are the representative lithographic products which are imported at varying rates of duty provided in paragraph 1306. Domestic production data for these products are not immediately available because statistics are compiled for the industry as a whole. Imports of cigar bands, labels, and flaps amounted in 1928 to 207,745 pounds, valued at \$255,666. They are imported chiefly from Germany, and to a less extent from France and Cuba. Cigar consumption has not increased with the growth in population of the United States, and the domestic industry has therefore not found an expanding market.

Ceramic decalcomanias are used in the decoration of chinaware. Domestic production in 1924 was in five establishments and of the value of \$1,208,000. Imports in 1927 were 322,809 pounds, valued at

\$428,961. Germany is the principal country shipping to the United States.

Transparencies are lithographically printed advertising signs on thin paper, and are used on display windows and doors. Five lithographic plants in the United States manufacture transparencies, and their sales in 1928 were approximately \$450,000 in value. Imports are principally from Germany, Belgium, and Ireland, and the foreign value of such imports is estimated at \$75,000 or more They are not specially provided for, and are classified as annually. "lithographically printed matter not exceeding eight-thousandths of 1 inch in thickness" at 25 cents per pound. Transparencies are sold by the thousand, and weigh from 7 to 15 pounds per thousand; the selling price ranges from \$50 to \$200 or more per thousand, according to the number of square inches, character of the design, and the number of colors in which printed. On the basis of 25 cents per pound, transparencies weighing 8 pounds per thousand and valued at \$48.50 per thousand would pay a duty of \$2, or an equivalent ad valorem of 4 per cent. Transparencies weighing 13 pounds per thousand and valued at \$115 per thousand would pay a duty of \$3.25, or an equivalent ad valorem of 2.8 per cent.

Fine papers.—Fine papers are dutiable at 3 cents per pound and 15 per cent ad valorem. They include ledger, high-class writing, and light-weight papers. The production of fine paper and Bristol board in the United States in 1927 was 508,808 tons, valued at \$105,-Imports in 1928 were 1,590 tons valued at \$817,248. 000.000. Although the imports are small as compared with the total domestic production of fine papers, they are of the highest grades, and offer substantial competition with similar papers produced in the United States. Writing, letter, and note paper imports in 1928 were 611 tons, valued at \$410,146. Another large item of fine paper imported is drawing paper, which amounted in 1928 to 739 tons, valued at \$303,000. Considerable of the imported paper is handmade, and comes from France and Italy, where the labor cost is much below the American wage scale. The most intensive foreign competition is in the field of high-grade boxed stationery, or papeteries. The domestic writing paper mills supply about 16 per cent of their total output to the stationery and papeteries manufacturers.

(c) Investigations for the Purposes of Section 315 of the Tariff Act of 1922

In December, 1928, three applications for investigations for the purposes of section 315 of the tariff act of 1922 were made to the commission. These applications covered papeteries or boxed or packaged writing paper and envelopes.

No report was prepared by the commodity division because of the pressure of work being done for the Congress, but material obtained in 1924, when an earlier application for an investigation of papeteries was being considered, and information recently collected is available for a preliminary report. A brief résumé of conditions in the industry follows.

Papeteries.—The manufacture of packaged writing paper and envelopes constitutes a separate domestic industry. For the most part the paper, paper board, and other materials are not produced by manufacturers of papeterie, but are obtained from the paper mills. The paper is cut into small sizes, sometimes further processed by printing, embossing, decorating, or deckle-edging, and envelopes are made to match. Paper board and other materials are used together with decorated or fancy papers for making attractive boxes in which packages of paper and envelopes are put up as a unit. The range of papeteries is from the small boxes, retailing at 25 cents or even less, to the artistic combinations in beautiful boxes selling for many dollars.

According to the census of manufactures, the value of domestic papeteries produced in 1927 was more than \$16,000,000.

In the various processes of manufacturing papeterie, much hand labor is involved. Competition with imports is keen, particularly in the cheaper grades. Domestic manufacturers complain of their inability to conduct their business profitably.

Papeteries are not specifically provided for in the tariff act of 1922. Both paper and envelopes are dutiable at the rates provided for the paper from which they are made, with an additional rate of 5 per cent ad valorem on plain envelopes, and 10 per cent ad valorem on envelopes bordered, embossed, pointed, tinted, decorated, or lined. All of the data on papeteries obtained by the commission were

All of the data on papeteries obtained by the commission were made available to the Congress in its readjustment of the tariff act of 1922. The bills of both committees of Congress carry specific provision for papeteries.

SCHEDULE 14. SUNDRIES

(a) GENERAL STATEMENT

The sundries division deals with all commodities provided for in Schedule 14 of the tariff act of 1922 except the following articles assigned to other divisions: Asbestos, emery and other abrasives, cabinet locks, and calender rolls, to the metals division; thermostatic bottles, to the ceramics division; gas mantles, to the chemical division; and ramie hat braids and laces and embroideries, to the textile division. The division also deals with manufactures of pyroxylin, provided for in paragraph 31, and with articles on the free list related to the dutiable articles coming within its purview. Hides and skins, leather, and boots and shoes are the most important of such articles.

(b) WORK IN CONNECTION WITH TARIFF LEGISLATION

The division has been largely occupied during 1928–29 with work for the congressional committees engaged in readjusting the tariff act of 1922. For the Committee on Ways and Means, a summary of tariff information was completed covering all paragraphs of the sundries schedule. This summary contained a description of the commodities falling within the classification "sundries," a statement as to their uses, and information concerning their production in the United States and in foreign countries, imports, exports, prices, competitive conditions, court and Treasury decisions, and cost-of-production data where the commodity had been the subject of an investigation for the purposes of section 315.

At the hearings held by the Committee on Ways and Means and by the Finance Committee, experts from the sundries division were in

attendance when Schedule 14 was under consideration, and gave information when requested by members of the committees.

The division further served the two committees by making for their use a digest of the hearings; by preparing tables showing compensatory duties on various commodities, and where specific or compound rates were used the equivalent ad valorem duty; and by furnishing other data on special request.

Assistance was also given the legislative counsel in phrasing the schedule so as to carry out the intent of the committees and in appending notes explaining the significance of the changes made.

(c) Investigations Under the General Powers of the Commission

Calf leather.—In response to Senate Resolution No. 163, dated March 2, 1928, the commission under its general powers instituted an investigation to determine the extent of sales of foreign calf leather in the United States since January 1, 1925, and the wages paid to workers in tanneries processing calf leather in the United States and in competing countries. Beginning May 1, 1928, field work was carried on in the United States and Canada over a period of six weeks, and later in Germany, France, Belgium, Holland, England, and Scotland. At New York and Boston importers were interviewed with regard to the sales price and the grades of calf leather imported, and an analysis was made of invoices of imports at those ports. On February 18, 1929, the Tariff Commission submitted its report to the Senate and sent copies of it to the trade. Domestic tanners questioned certain statements made in the report as to the comparability of domestic and imported calf leather and as to the basis of calculating the number of square feet in the skins reported to have been tanned. The commission thereupon held an informal conference with representatives of the domestic tanners and in May, 1929, sent its agents to the tanneries to verify, from records and books of account, the data submitted by tanners. After making a second analysis of invoices of imports—covering a longer period than was covered by the first analysis—the commission reexamined the data. The revision of the report has been interrupted by the many demands made upon the experts in connection with the tariff legislation.

Goat and kid leathers.—On February 1, 1929, the commission transmitted to the Senate a report ¹ on the sales of imported goat and kid leather in the United States since January 1, 1925, and on the wage rates paid in domestic and foreign tanneries to workers on black and colored leathers made from goat and kid skins.

The report contained information as to domestic production, capital invested in the industry, sources of raw materials, imports and exports, prices, and wages paid in foreign as well as in domestic tanneries. To obtain this information the commission's agents visited 23 domestic tanneries and examined their books and records. In addition to the data which they obtained on capital invested, production, and sales, they made an analysis of the pay roll of each tannery for the week ending nearest April 7, 1928. On the foreign kid-leather industry less complete data were obtained by the com-

¹ Printed as S. Doc. No. 217, 70th Cong., 2d sess.

mission's representatives. At two tanneries in Great Britain, and at one tannery in France, they were able to fill out the commission's questionnaire, but in Germany they were refused figures on wages and production and obtained only general information.

Domestic tanners of kid leather depend upon foreign sources of supply for approximately 99 per cent of their raw material. Asia, especially British India, and South America furnish the bulk of the 50,000,000 or more skins that are each year imported. The chief tanning centers are Philadelphia, Pa., Camden, N. J., Wilmington, Del., and Lynn and Haverhill, Mass. The tanneries of Philadelphia, Camden, and Wilmington handle about 80 per cent of the skins tanned in this country. They produce a wide range of black and colored leathers, patent kid, fancy kid, glove kid, and cabretta.

leathers, patent kid, fancy kid, glove kid, and cabretta. The extent of sales of foreign leather in the United States is best measured by imports for consumption. Imports of goat and kid leather, estimated at about 3 per cent of domestic production in 1927, have increased rapidly in recent years. Between 1923 and 1927 they increased from 453,861 square feet, valued at \$236,040, to 6,784,817 square feet, valued at \$3,524,163. Germany and France are the chief sources of imports. The leather that the two countries shipped to the United States in 1927 was apparently of high grade, the unit value being \$0.616 and \$0.502, respectively. Imports of leather from Great Britain had a unit value of only \$0.212 per square foot. Gold and silver and other fancy and colored kid leather make up the bulk. of the imports.

The average sales value of black kid leather, as reported by 13 representative domestic tanneries in 1927, was \$0.2769 per square foot. For colored kid leather, the average sales value, as reported by 20 tanneries in 1927 was \$0.2705 per square foot. Export values of black and colored kid leathers of domestic manufacture averaged \$0.286 per square foot in 1927.

The commission's report gives approximate average wage rates in the three competing countries, but states that hourly wages paid for the various labor operations can not be given without disclosing confidential information.

(d) INVESTIGATIONS FOR THE PURPOSES OF SECTION 315

(1) Applications received.—No applications for investigations looking toward changes in the rates of duty on commodities provided for in Schedule 14 have been received since July, 1928.

(2) Investigations in progress.—Investigations instituted and carried to advanced stages with respect to imitation solid pearl beads and imitation solid pearls, brierwood pipes, and cork insulation and cork tile, have been temporarily suspended on account of the pending tariff readjustment. For information on these investigations, see the Twelfth Annual Report of the Tariff Commission.

(e) Imports of Sewed Straw Hats Following the Change in Duty

Straw hats.—Since the President's proclamation changing the rate of duty from 60 to 88 per cent on men's sewed straw hats valued at \$9.50 or less per dozen, effective March 14, 1926, imports of sewed straw hats have been recorded under two classifications, namely, "Men's sewed straw hats valued at not over \$9.50 per dozen" and "Other sewed straw hats." Imports recorded under "Men's sewed straw hats valued at not over \$9.50 per dozen" are restricted to men's sewed hats composed wholly or in chief value of straw. Imports entered as "Other sewed straw hats" include not only women's hats made of straw but men's and women's sewed hats composed wholly or in chief value of chip, grass, or any of the other material specified in paragraph 1406 of the tariff act of 1922. The classification "Other sewed straw hats" covers also men's sewed straw hats valued at more than \$9.50 per dozen.

Imports of all sewed straw hats show a tendency to increase in quantity and to decrease in value. The average value per hat was 53 cents in 1925, 51 cents in 1926, 49 cents in 1927, 38 cents in 1928, and 34 cents in the first six months of 1929. Italy continues to be the chief competing country, supplying over 90 per cent of the total imports.

Since the President's proclamation assessing a duty of 88 per cent ad valorem on men's sewed straw hats valued at \$9.50 or less per dozen, imports entered under this classification have decreased in number, value, and unit value. In 1927, the first full calendar year after the change in the duty, imports under this classification numbered 1,499,352 hats, valued at \$598,047, with a unit value of 40 cents. In 1928 they declined to 1,005,982 hats, valued at \$338,048, with a unit value of 34 cents; and in 1929 (January through June, inclusive), numbered 863,071 hats, valued at \$316,810, with a unit value of 37 cents.

Men's sewed hats made of chip braid, similar in appearance to and competing with men's sewed straw hats valued at \$9.50 or less per dozen are dutiable at 60 per cent and not at the proclaimed rate of 88 per cent. In 1927, imports of sewed hats dutiable at 60 per cent numbered 750,240; in 1928, 1,808,214; in 1929 (January-June, inclusive), 2,873,084. At the same time the unit value per hat imported under this classification decreased from 68 cents in 1927 to 33 cents in 1929.

XXI. THE LIBRARY

The commission's library consists of a collection of 17,555 books and pamphlets, a large number of unbound and uncounted periodicals, and a selected list of 462 domestic and foreign current trade, technical, and Government periodicals, many of which are printed in foreign languages. As up-to-date information is found in periodicals rather than in books, the commission subscribes to a wide range of periodicals bearing upon industry and trade. In the selection of trade journals bearing on agricultural, chemical, metals, and textile industries the commission has a wide choice because of the vast amount of printed material available on such subjects.

During the past year 1,405 books and pamphlets, and one periodical subscription were added to the library. Fully half of the accessions were gifts or were sent in exchange for publications of the commission. For the convenience of the staff a weekly record of accessions is prepared in the library and distributed among the employees of the commission. The circulation of books and periodicals through the various divisions during the year amounted to 47,837 copies. This figure includes only charges to various divisions and no account is taken of the circulation within the divisions. There were distributed, besides, 27,650 copies of current dispatches sent by United States representatives in foreign countries.

The commission does not buy books unless it sees for them more than temporary use. In this way the shelves are kept fairly free from dead material. There is, however, a considerable demand for material which the commission does not feel justified in buying and in order to supply this demand books and periodicals are daily borrowed from the Library of Congress and from other libraries. The commission's library, on the other hand, lends its books and periodicals to other Government libraries.

Though no record is kept of the reference and research work done by the library staff, these constitute its principal activities. A rush of work in any of the commodity divisions of the commission is invariably reflected in the library. The staff may be called upon to prepare bibliographies or to suggest and procure authoritative reference books on some problem that has arisen. The question raised concerning a commodity may be a simple one easily answered in a few minutes, or it may be a difficult one entailing exhaustive search through source material in foreign languages—work that may take considerable time.

The library is housed in two rooms. During the past year an additional book stack was installed, but even with the added accommodations, the shelves of both rooms are crowded.

XXII. PERSONNEL

The commission and its staff, as organized at the close of the fiscal year 1929, consisted of 229 persons. This personnel comprised 6 commissioners and 223 employees, 141 of whom were men and 88 women. Fifty-one members of the staff had rendered military or naval service. The total number within the civil service retirement law was 135. The amount of money deducted from their salaries under the law was \$10,307.98.

The allocation of the personnel in the District of Columbia, under the provisions of the classification act of 1923, is shown in the appended table.

Allocation of the Tariff Commission personnel in the District of Columbia as of June 30, 1929

	Num- ber	Service	Grade
Commissioners Chief investigator Secretary Chief of division Assistant chief investigator Chief of division Accountants Assistant to the secretary Chief of division Accountants Do Editor	6 1 1 1 1 1 2 1 10 2 1	Clerical, administrative, and fiscal do	15 14 13 12 12 10 10 9 9 9 9 9 8 8 8

	Num- ber	Service	Gr
Chief of division	1	Church, administrative, and fiscal	
Accountants	8	do	
undries expert	ĭ	do	
Pariff report specialist	î	do	
Pariff report specialist Chiefs of sections		do	
ccountants	2 2 1	do	
Assistant editor	ī	do	
lerk	ĩ	do	
enior clerk	ī	do	
lerks	· 4	do	
ecretaries to commissioners	6	do	
lerk-stenographers	ž	do	
ccountants	$\overline{2}$	do	
raphic draftsman	ĩ	do	
bliefs of sections	$\tilde{2}$	do	
ransportation clerk	ĩ	do	
lerks	$1\hat{7}$	do	
tenographers	4	do	
lerk-stenographers	7	do	
lerks	14	do	
tenographers	13	do	
lerk-stenographer	ĩ	do	
perator office devices	î	do	
tockroom clerk	î	do	
ile clerks	3	do	
lerks	5	do	
tenographers	3	do	
perator office devices	1	do	
elephone operator	i	do	
lerk	i	do	
hief economist	i	Professional and scientific service	
niel economist	i	dodo	
hief of division	7	dodo	
hiels of divisions	5		
conomists	5	do	
gricultural experts	23	do	
hiefs of divisions	2	do	
fetals experts	1	do	
eramics expert	1	do	
isheries expert	4	do	
extile experts	4	do	
dreign tariffs expert	1	do	
egal expert	$\frac{1}{2}$		
extile experts		do	
gricultural experts	3	do	
hemical experts		do	
oreign tariffs expert	1	do	
extile experts	3	do	
gricultural experts	6	do	
undries experts	3	do	
letals experts	2	do	
umber expert	1	do	
oreign tariffs expert	1	do	
eramics experts	2	do	
ibrarian	1	do	
indries experts	2	do	
letals expert	1	do	
ssistant economists	2	do	
gricultural expert	1	do	
preign tariffs experts	4	do	
eramics expert	1	do	
ssistant librarian	1	do	
indries expert	1	do	
hemical expert	ī	do	
inior attorney	1	do	
gricultural expert	1	do	
ssistant librarian	1	Subprofessional	
	1	Custodial	
[echanic		Custodial	
echanic	6	do	

Allocation of the Tariff Commission personnel in the District of Columbia as of June 30, 1929-Continued

The table which follows presents a comparison of the personnel of the commission, including the field service, as of June 30, 1928, June 30, 1929, and November 30, 1929. Comparison of personnel, including field service, as of June 30, 1928, June 30, 1929, and November 30, 1929

	June 30, 1928	June 30, 1929	Novem- ber 30, 1929
Commissioners Chief economist. Chief investigator Secretary. Assistant to the secretary. Chiefs of divisions Librarian Special experts. Clerks, including stenographers and typists Secretaries and stenographers assigned to commissioners. Operators, office devices. Telephone operators and stock clerks. Messengers. Skilled laborer.	18 95 88 8	6 1 1 1 17 17 17 17 17 17 18 88 92 8 8 2 2 8 8 2 2 8 1	6 1 1 1 16 1 85 96 85 96 82 2 2 8 1
Total	232	229	² 229

¹ Included in previous years under chiefs of divisions.
 ² Including 7 temporary employees engaged in special work in connection with the revision of the tariff act of 1922 by the Congress.

The following changes in personnel occurred during the fiscal year ended June 30. 1929:

Appointments: Permanent employees Temporary employees	24 18-
- Total	42
Separations: Resignations Temporary employments completed	24 21
Total	45
Net reduction of staff	3

XXIII. FINANCES AND APPROPRIATIONS

(1) SALARIES AND EXPENSES

The regular appropriations for the Tariff Commission for the fiscal year ended June 30, 1929, were \$754,000. That amount included \$738,000 for salaries and expenses, exclusive of printing and binding for which there was a special appropriation of \$16,000. By the deficiency act approved March 4, 1929, \$4,000 additional was made available for printing and binding, and \$51,000 was added to provide for increases in salaries through the operation of the amended classification act of May 28, 1928 (Welch Act).

As is shown in detail in other sections of this report, the work of the commission since these appropriations were made has been largely the preparation of material for the use of the Congress, particularly for the House Committee on Ways and Means and of the Senate Committee on Finance, in the drafting and consideration of the pending tariff legislation. The commission has prepared tabulations and other statements of information for the President and for individual members of the Senate and the House of Representatives relating to many separate items in the tariff.

Effort has been made consistently and effectively to conserve the commission's appropriations and to avoid unnecessary expenditures.

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Economies have been effected whenever possible without impairing the efficient performance of official duties.

(2) PRINTING AND BINDING

The amount available for printing and binding for the Tariff Commission during the fiscal year ended June 30, 1929, was \$20,000 including \$4,000 appropriated by the deficiency act approved March 4, 1929.

In order to comply with the provisions of the act of September 8, 1916, which created the commission, it is necessary that the commission's reports, representing the results of its research and investigations, shall be issued in printed form. The commission has not in any year had sufficient appropriations to cover the expense of printing all the reports which it has completed, and the past year was no exception. Some reports finished during the fiscal year 1929 have been printed at the expense of the appropriation for the fiscal year 1930. It was necessary also, in order that some of the commission's reports might be available when needed, to have them printed by the Committee on Ways and Means of the House of Representatives. This was true of the Summary of Tariff Information, 1929, and of certain other reports.

The commission's printed reports are distributed almost entirely in response to personal requests. They have been sought by persons of widely diversified interests, including producers, importers, trade associations, public libraries, foreign governments, students, school children, writers on economics, and many others.

(3) EXPENDITURES

The expenditures, including outstanding obligations, by the commission during the fiscal year ended June 30, 1929, were forg . 1

Salaries:		
Six commissioners		1 \$54, 000. 00
Employees—		
Departmental service		594, 520. 81
Field service		27, 621, 37
Field expenses of investigations: ²		,
In the United States		38, 735. 63
In foreign countries		6, 273. 98
Books of reference and publications		2, 845. 17
Printing and binding		20, 000, 00
Telephone and telegraph		2, 204. 29
Rent of office (foreign)		780. 72
Repairs and alterations		495.53
Office equipment, supplies, miscellaneous exp	pense	11, 870. 26
Total		759, 347. 76
Respectfully submitted.	THOMAS O. MARY	VIN.
		hairman.
	Alfred P. Denn	
	Vice C	hairman.
	Edgar B. Bross.	ARD,
	SHERMAN J. LOW	ELL,
	LINCOLN DIXON,	•

Salaries increased from \$7,500 to \$9,000 July 1, under act of May 27, 1928.
 These figures are exclusive of salaries and include only direct expenses in the conduct of field work.

FRANK CLARK,

Commissioners.

APPENDIX 1.—DATA RELATING TO INVESTIGATIONS BY THE COMMISSION UNDER SECTIONS 315, 316, AND 317 OF THE TARIFF ACT OF 1922, AND UNDER ITS GENERAL POWERS

TABLE I.—Applications received

(A) UNDER SECTION 315

Paragraph No.	Commodity	Date of application	Nature of request	Status	
	SCHEDULE 1.—Chemicals, oils, and paints				
1 1	Formic acid Oxalic acid	Sept. 27, 1922 Sept. 29, 1922	Increasedo	Withdrawn. Investigation completed	(see
1	do Tartaric acid	Apr. 4, 1923 Mar. 17, 1925	Decrease Increase	} Table II). Investigation ordered.	
1, 5	Amino acids and salts	Dec. 16, 1922	do	Do.	
2 2	Aldehyde derivatives	Jan. 12, 1923 Sept. 6, 1924	Decrease	Investigation not ordered. Do.	
4	Methanol	May 14, 1925	Increase	Investigation completed Table II).	(see
4 5	Barbituric acid	Sept. 29, 1927 Sept. 19, 1922	Decrease Duty on Ameri- can selling price.	Pending. Investigation completed Table II).	(see
5	Chemical compounds used for purifying gas.	Mar. 28, 1928	Increase	Investigation not ordered.	
5	Ichthyol	Apr. 17, 1923	do	Do.	
5 5	Sodium silicofluoride	Apr. 17, 1923 June 9, 1924 Jan. 31, 1925	do do	Pending. Investigation completed Table II).	· (see
	do	Feb. 5, 1925 Feb. 10, 1925 Oct. 25, 1922	do	Do. Do.	
7	Ammonium chloride	Oct. 25, 1922	Decrease	Investigation not ordered.	
9	Cream of tartar Raw tartar	Apr. 7, 1925 May 31, 1928	Increase	Investigation ordered.	
9 12	Barium dioxide	May 31, 1928 Oct. 16, 1922	Decrease Increase	Pending.	
12		Dec. 1, 1922	do	Investigation completed	(see
12	do	Jan. 22, 1923	Decrease	Table II).	•
12 12	Barium carbonate, pre-	Dec. 1, 1923 Feb. 20, 1925	Increase	Do.	
12 19	Barium chloride	May 29, 1928 Dec. 19, 1922	Decrease	Investigation ordered. Investigation completed Table II).	(see
19	do do <u>Ta</u> ilor's chalk	Apr. 13, 1923 July 2, 1923	do	Do. Do.	
20 20	Tailor's chalk Whiting	July 2, 1923 Dec. 14, 1928 Feb. 25, 1927	Increasedo	Pending. Investigation completed Table II).	(see
25	Calcium arsenate	Jan. 13, 1923	Decrease	Investigation not ordered.	
25	0.0	Jan. 14, 1924	do	Withdrawn.	
25 26	Chloral hydrate	Jan. 13, 1923 Jan. 14, 1924 Jan. 17, 1923 Sept. 1, 1922	Duty on Ameri- can selling price.	Investigation not ordered. Withdrawn.	
26 26	Thymol	May 29, 1928 Mar. 21, 1923	¹ Investigation Increase	Report sent to Senate. ² Investigation not ordered.	
26 27	Thymol crystals Cresylic acid	Mar. 17, 1923 May 3, 1923	Decrease	Do. Investigation completed Table II).	(see
27	do	May 4, 1923 Nov. 12, 1923	do	Do. Do.	
27	do	05	l do	Do. Do.	
27	do	Nov. 14, 1923	do	Do.	
27	do	Nov. 15, 1923	do	Do.	
27	do Ethyl benzol	00	00	Do. Investigation not ordered.	
27 27 27	Novadelox or benzoyl	July 25, 1925 Aug. 5, 1925 Sept. 30, 1922	do	Do. Do.	
	peroxide. do Phenol	Oct. 14, 1922 Apr. 18, 1923	do	Do. Investigation completed	(see
28 28	Biological stains	Sept. 22, 1922 Oct. 12, 1922	Increase Decrease	Table II). Investigation not ordered. Withdrawn.	
AU	Indigo, natural	Nov. 8, 1922	dodo	Investigation not ordered.	
28			do		

¹ Senate resolution requesting investigation.

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² Printed as S. Doc. 182, 70th Cong., 2d sess.

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TABLE I.—Applications received—Continued

Paragraph No.	Commodity	Date of application	Nature of request	Status
	SCHEDULE 1.—Chemicals, oils, and paints—Con.			
39	Logwood extract	Sept. 28, 1922	Increase	
39		Nov. 3, 1922	Decrease	Investigation not ordered.
42			do	Do. Do.
42 42			Increase	
42	dodo	Ang 11 1926	Decrease	Do.
42	Fish glue	Mar. 1, 1923	do	
42	Glue	June 14, 1924	Increase	
44 48	Inks, printing and litho. Licorice extract	Apr. 14, 1925 Jan. 29, 1925	Adjustment of duty.	Investigation not ordered. Do.
50	Chloride of magnesium Animal fats	July 26, 1923	Increase	Do.
53	Animal fats	Apr. 26, 1923	Decrease	Do.
53 53			do	Do. Do.
53	Whale oil	do	do	Do.
54	Linseed oil	Mar. 10, 1923	[do)
54	do	Apr. 18, 1923	do	Investigation completed (se
54	do	May 5, 1923	do Increase Decrease	Table II.)
54		Dec. 4, 1923	1 Increase	J
54	Olive oildo	Mar. 10, 1924	Increase	Investigation not ordered. Do.
54	do	June 14, 1926	do	Do.
54, 55	Vegetable oils	Apr. 18, 1923	Decrease	Investigation ordered.
54. 55	do	do	do	Do.
54, 55	do	Apr. 23, 1923	do	Do.
54, 55	do	4 DF 26 1022	do	Do. Do.
04,00 54 55	do	Apr. 20, 1923	do	Do.
55	Coconut oil	Feb. 2.1923	do	Do.
55	do	Apr. 18, 1923	do	Do.
55	Cottonseed oil Peanut oil	Apr. 26, 1923	do	Do.
55	Peanut oil	Mar. 15, 1923	do	Do.
55	Sove-been oil	Mar 16 1023	do	Do. Do.
55	Soya-bean oildo	Apr. 18, 1923	do	Do.
55	do	Apr. 26, 1923	do	Do.
59		May 2, 1923	do	Investigation not ordered.
61	Mustard oil	Oct. 9, 1922	Duty on Ameri- can selling price.	Do.
62	Perfumes	May 31, 1928	Decrease	Pending.
71		Apr. 17, 1923	do	Investigation not ordered.
71	Decolorizing carbons	Jan 25 1926	Increase	Investigation ordered.
73	Lampblack	Feb. 8, 1923	do	Investigation not ordered.
75		Feb. 8, 1923 Jan. 15, 1924 Mar. 24, 1923	Decrease	Do. Do.
30	Permanganate of potash.	Nov. 12, 1926	Increase	Investigation completed (see
				Table II).
80		Jan. 25, 1927	do	Investigation discontinued (see Table II.)
»U -	Potassium chlorate	Feb. 12, 1927 Oct. 18, 1922 Feb. 17, 1923	Decrease	Do.
	dodo	Feb. 17, 1923	Increase	Investigation completed (see
80	do	Mar. 7, 1923	do	Table II).
83	Formate of soda	Sept. 29, 1922	do	Investigation not ordered.
	Glauber salt	Dec. 14, 1925	do	Do.
33 33	Salt Sodium nitrite	Dec. 20, 1923 Oct. 12, 1922	Decrease	Do. Investigation completed (see
		, i		Table II).
33	Sodium phosphate	June 12, 1926	do	Investigation ordered.
	Strontium nitrate	Feb. 4.1925		Investigation not ordered.
97 91	Titanium potassium ox- alate.		do	Do.
	Titanium potassium ox-		do	Бо.
91	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware	Feb. 16,1925		
202	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles	Feb. 16, 1925 May 28, 1925	Increase	Pending. (Investigation completed (see
91 202 204	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles	Feb. 16, 1925 May 28, 1925 Oct. 27, 1924 Nov. 13 1924	Increase	Pending. (Investigation completed (see (Table II).
91 202 204	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles Magnesite	Feb. 16, 1925 May 28, 1925 Oct. 27, 1924 Nov. 13, 1924 Apr. 30, 1923	Increase	Pending. (Investigation completed (see (Table II). Do.
91 202 204	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles Magnesite	Feb. 16, 1925 May 28, 1925 Oct. 27, 1924 Nov. 13, 1924 Apr. 30, 1923	Increase	Pending. (Investigation completed (see [Table II). Do. Do.
91 202 204 204 204	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles	Feb. 16, 1925 May 28, 1925 (Oct. 27, 1924 Nov. 13, 1924 Apr. 30, 1923 Aug. 21, 1923 Feb. 28, 1924	Increase }do Decrease dodo	Pending. (Investigation completed (see Table II). Do. Do. Investigation not ordered.
91 202 204 204 204	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles Magnesite	Feb. 16, 1925 May 28, 1925 (Oct. 27, 1924 Nov. 13, 1924 Apr. 30, 1923 Aug. 21, 1923 Feb. 28, 1924	Increase	Pending. (Investigation completed (see Table II). Do. Do. Investigation not ordered. Investigation ordered under gen
91 202 204 204 206 207 207 207	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles. Magnesite do Pumice stone. China clay Fluorspär	Feb. 16, 1925 May 28, 1925 Oct. 27, 1924 Nov. 13, 1924 Apr. 30, 1923 Feb. 28, 1924 Oct. 29, 1924 Apr. 9, 1925	Increase }do dodo Increase dodo	Pending. (Investigation completed (see Table II). Do. Do. Investigation not ordered. Investigation ordered under gen eral powers. Investigation completed (see Table II.)
202 204 204 206 206 207 207 207 207	Titanium potassium ox- alate. SCHEDULE 2.—Earths, earthenware, and glass- ware Tiles	Feb. 16, 1925 May 28, 1925 (Oct. 27, 1924 Nov. 13, 1924 Apr. 30, 1923 Feb. 28, 1924 Oct. 29, 1924 Apr. 9, 1925 Apr. 27, 1925	Increase }do do Increase do increase do do	Pending. [Investigation completed (see Table II). Do. Investigation not ordered. Investigation ordered under gen eral powers. Investigation completed (see

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(A) UNDER SECTION 315-Continued

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TABLE I.—Applications received—Continued

Paragraph No. Date of Commodity Nature of request Status application SCHEDULE 2.-Earths. earthenware, and glass-ware-Continued June 18, 1923 June 7, 1923 May 31, 1928 Chemical stoneware China Articles of faïence and 212 Decrease..... Investigation not ordered. 212_____ Investigation ordered. Pending. ____do..... 212_____do..... porcelain. Graphite.... Increase..... Investigation ordered under gen-213 Oct. 2, 1922 eral powers. Do. Oct. 3, 1922 Dec. 6, 1922 Mar. 24, 1925 May 31, 1928 213do..... .do..... Decrease..... 213_____ -----do-----Do. 213..... D٥. ____do_____ _____do.____ Crystalline flakes_____ Fused silica_____ Diamond dies_____ 213.....do..... Pending. May 31, 1020 June 6, 1928 Feb. 8, 1923 May 21, 1925 Dec. 18, 1924 Apr. 7, 1927 213_____ .do..... Do. Do. 214. 214, 1429.... Increase..... Decrease Investigation not ordered. Increase 214 Feldspar Clinical thermometers... Do. Pending. 218_____ 218_____ Clinical t Do. ____do_____ 218_____do... ____do_____ Do. thermometer blanks. Glass-stoppered bottles ... 218_____ Nov. 17, 1925 Duty on Ameri-Investigation ordered. can selling price. 218_____218, 230____ Perfume bottles_____ Nov. 23, 1925 _do.... Do. Glassware._____ Blown glassware._____ Gauge glasses_____ Window glass_____ Jan. 11, 1926 Aug. 31, 1926 Mar. 19, 1928 D٥. Increase_____ 218. 218, 230.... ____do_____ Do. ____do____ Pending. 219 Investigation completed (see Table II). Apr. 7, 1927 ____do..... Nov. 16, 1922 Sept. 25, 1922 Dec. 12, 1923 May 15, 1923 223_____ Decrease..... Investigation ordered. Mirrors. 229____ Electric-light bulbs Increase-----Investigation not ordered. 229 ____do____ Do. Tungsten electric lamps. 229_____ Do. Do. _____do_____ Oct. 6, 1922 Nov. 27, 1925 Feb. 1, 1924 June 5, 1925 Stained-glass windows__ Vitrolite_____ Finished marble_____ 230_____do..... 231__do..... Pending. 231_____ 232, 233____ .do.... D٥. Agate rings for fishing lines, unmounted. Manufactures of, and 233_____ Adjustment of Do. duty. Increase. 235..... Apr. 16, 1924 Investigation completed (see unmanufactured granite. Table II). 235_____ Dec. 1, 1925 July 19, 1926 May 27, 1926 Decrease_____ D٥ __do____ 235_____ Granite monuments..... Increase Do. 235_____ Travertine stone Pending. SCHEDULE 3.—Metals and manufactures of 301..... Pig iron..... Dec. 13, 1922 Increase_____ Investigation completed (see Table II). Withdrawn. Decrease 302 Ferromanganese_____ June 6, 1925 302_____ Mar. 31, 1927 Mar. 22, 1926 Do. Manganese..... ____do_____ 302_____ ----do-----___do_____ Do. Investigation ordered under gen-Increase_____ eral powers. Aug. 12, 1927 May 15, 1925 Sept. 22, 1926 Mar. 5, 1928 Decrease Dô. Increase Investigation ordered. Do. .____do____. Mar. 5, 1928 ____do____ Do. D٥. .do..... do May 1, 1925 June 1, 1925 Sept. 1, 1925 May 1, 1925 June 1, 1925 Apr. 29, 1925 Do. ----do-----Pending.do..... 303, 304.... ____do_____ .do..... Do. Do. ----303, 304.... _do_____ .___do_____ 304_____ Beams..... Do. ____do_____ 304..... Billets_____do..... Investigation un-Do. Đ٥ 304_____ Ingots_____ der sec. 315. 304_____ June 1, 1925 Sept. 1, 1925 Apr. 29, 1925 Increase_____ D٥. 308-----Steel sheets_____ Steel plates_____ do Do. Investigation un-Do. 309_____ der sec. 315. May 1, 1925 June 1, 1925 Sept. 1, 1925 May 1, 1925 312_____ Increase_____ Do. Angles..... 312_____ ____do____do..... D0,
 312
 _____do
 Sept. 1, 1925

 312
 Channels
 May 1, 1925

 312
 Girders
 _____do

 312
 Joists
 _____do
 312_____ Do ____do_____ Do _____do_____do...... Do. ____do____. Do.

(A) UNDER SECTION 315-Continued

³ Senate resolution also requesting investigation.

TABLE I.—Applications received—Continued

(A) UNDER SECTION 315-Continued

Paragraph No.	Commodity	Date of application	Nature of request	Status
	SCHEDULE 3.—Metals and manufactures of—Con.			
312	Light shapes	Sept. 1, 1925	Increase	Pending.
313, 314	Bands	June 1, 1925	do	Do.
315	Wire rods	June 1,1925 Sept. 1,1925	do	Do.
316	Wire	do	do	Do.
18	Wire cloth	May 23, 1925	do	Do.
25	Anvils	Mar. 2, 1927	do	Do.
27		Dec. 23, 1927	do	Do.
27	gas nine.	Feb. 13, 1928	do	Do.
28	Corrugated furnaces	May 11, 1928 Nov. 22, 1922	do Decrease	Do. Investigation not ordered.
31	Upholstery nails	Jan. 22, 1926	Investigation un- der sec. 315.	Pending.
331	Wire nails Utensíls	Sept. 1,1925 Apr. 29,1925	Increase Investigation un-	Do. Do.
			der sec. 315.	
340	Jewelers' saws	May 3, 1923 Oct. 26, 1922	Decrease	Investigation not ordered.
342	Umbrella frames	Oct. 26, 1922	Increase	Pending.
43	Crochet needles	Mar 11, 1926	do	Do.
343		June 12, 1925	do	Do. Investigation not ordered
343		Mar. 27, 1923 June 5, 1925	Decrease	Investigation not ordered. Pending.
	lines, mounted.	vano 0, 1920	duties.	* ULUHIE.
344	Fishing tackle	July 9, 1923	Increase	Investigation not ordered.
344	do	May 22, 1926	do	Do.
48		Mar. 9, 1923	do	Do.
854		Mar. 3, 1927	Decrease	Pending.
55	Cutlery of stainless steel. Kitchen and butcher	Jan. 29, 1923	do	Withdrawn. Pending.
	knives.	May 31, 1928		rending.
358		Oct. 31, 1922	do	Referred to Treasury Depart- ment.
359 360		Feb. 15, 1927 Sept. 27, 1922	Increasedo	Investigation not ordered. Included in investigation of scientific instruments, under
)	Scientific instruments	Apr. 23, 1923	Decrease	general powers. Investigation under general pow- ers.
360	do	June 15, 1923	do	Do.
662 866	Swiss pattern files Parts of automatic pistols.	Nov. 22, 1922 Oct. 22, 1925	Increase Decrease	Investigation ordered. Investigation not ordered.
368	Escapements	Dec. 8, 1922	do	Do.
68	Taximeters	Dec. 30, 1922	Increase	Investigation completed (see Table II).
372	Hosiery machines	July 8, 1925	Decrease	Investigation not ordered.
372	Machine tools	Dec. 30, 1926	Increase	Pending.
372	Spindles and flyers	Nov. 22, 1922	do	Investigation not ordered.
372 375	Woolen cards		do	Do.
382	Metallic magnesium	May 26, 1923	do	Investigation ordered. Pending.
83	Gold leaf	Nov. 7, 1927 June 1, 1923	do	Investigation completed (see Table II).
383	do	June 6, 1923	do	Do.
396	Print rollers	Dec. 1, 1922	do	Do.
399	Aluminum pigeon bands.	Dec. 6, 1922	Duty on Ameri- can selling	Investigation not ordered.
399		May 4, 1925	price. do	Pending.
399	flectors. Wire netting	June 18, 1927	Increase	Do.
399	Bicycle bells	Mar. 28, 1928	do	Do.
99	Bit braces	Apr. 26, 1928	do	Do.
99	Marcel irons	Jan. 2,1929	do	Do.
99	Straightening combs	do	do	Do.
	SCHEDULE 4.—Wood and manufactures of			
01	Logs, Canadian	Dec. 2, 1922	Decrease	Investigation completed (see
101	do	Apr. 30, 1923	do	Table II). Do.
101	do	May 2, 1923	do	Do.
403	Cabinet logs	Dec. 20, 1922	do	Investigation not ordered.
103	Cabinet lumber Logs, lignum-vitæ	Feb. 5, 1923	Increase Decrease	Do. Do.
403	Veneers of wood	Aug. 14, 1923	do	Do.
	do		Increase	Do.
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TABLE I.—Applications received—Continued

i	-	· · · · · · · · · · · · · · · · · · ·	1	
Paragraph No.	· Commodity	Date of application	Nature of request	Status
	SCHEDULE 4.—Wood and manufactures of—Con.			
407	Reed and willow prod-	Feb. 11, 1927	Increase	Pending.
407 410 410	ucts. Willow furniture Bent-wood chairs do	Feb. 14, 1923 Apr. 19, 1923 Aug. 11, 1923	do Duty on Ameri- can selling price.	Investigation not ordered. Investigation ordered. Do.
410	do	Sept. 13, 1923	Increase	Do. Do.
410	do Carved wood Furniture	July 25, 1928	do	Pending.
410 410	Furniture Paintbrush handles	Dec. 20, 1924 Jan. 15, 1923	do Reclassification	Investigation not ordered. Investigation completed (see Table II).
410	Plywood	Feb. 14, 1928	Increase	Investigation not ordered. Do.
410	Spring clothespins	Jan. 23, 1925	do	Do.
410 410	Spring clothespins Wood flour Wooden cigar molds	Mar. 9, 1928 May 13, 1926	do do	Pending. Do.
	SCHEDULE 5.—Sugar, molasses, and manu- factures of			
502		(Sept. 20, 1924) Sept. 25, 1924	}Decrease	(Investigations under general powers.
502 503	Blackstrap	Oct. 3.1922	do	Do.
			do	Table II). Do.
503	do	Sept. 19, 1924	do	Do.
503 504	Maple sugar Rare sugars	Dec. 16, 1922	Duty on Ameri- can selling	Do. Investigation ordered.
	SCHEDULE 7.—Agricultural products and provisions		price.	
701, 702, 703, 706.	Livestock, meat, meat products.	Sept. 4, 1926	Increase	Investigation ordered under gen- eral powers.
701, 706	Beef and beef products		do	Do. Do.
701.706	l do	Anr 19, 1927	do	Do.
701	Live and dressed cattle Beef	do Dec. 2, 1924	do	Do. Do.
701	Cattle and livestock	Oct. 2, 1922	Decrease	Do.
701	do	Feb. 17, 1925 Jan. 5, 1924	Increasedo	Do. Do.
701	do Meat	do	do	Do.
701	Tallowdo	Mar. 16, 1923 Apr. 18, 1923	Decreasedo	
701	do	Apr. 2, 1925	Increase	Do,
701 706	Canned meat	Apr. 18, 1925 Feb. 26, 1926	do do	Investigation ordered under gen-
706	do	Apr. 2, 1925	qo	eral powers. Do.
706	do do	Apr. 18, 1925 Feb. 2, 1927	do	Do. Do.
706	Canned and other pre-	May 21, 1927	do	Do.
707 707, 710	Milk and cream ³ Dairy products	Mar. 19, 1927 June 20, 1925	do	
707, 709, 710.	do	Jan. 28, 1926	do	Do.
709	Butter 3	Mar. 10, 1924	do	Investigation completed (see Table II).
709	do	May 2, 1924 May 23 1924	do	Do. Do.
709 710	Cheese and substitutes therefor.	May 23, 1924 May 23, 1924	do	Investigation not ordered (see Swiss cheese, Table II).
710 710	Cheddar cheese Cheese of the Cheddar	Mar. 31, 1926 May 25, 1927	do	Do. Do.
710	type. Swiss cheese without eye	Oct. 19, 1927	do	Pending.
710 711	formation. Cheese other than Swiss. Bobwhite quail	May 22, 1926 May 19, 1925	Increase	Investiga ion not ordered. Investigation completed (see Ta-
	resolution also requesting	ļ]	ble II).

(A) UNDER SECTION 315-Continued

³ Senate resolution also requesting investigation.

TABLE I.—Applications received—Continued

(A) UNDER SECTION 315-Continued

pr Qr	EDULE7.— Agricultural oducts and provisions— ontinued namental birds. Id or game birds 4 re or dressed turkeys gs	Jan. Oct. June Sept. Jan. Feb. Jan. Aug. May Aug. Sept. Sept. Sept. Aug. Sept. Aug. Sept. Aug. Sept. Aug. Sept. Nov. Nov. Nov.	9, 1925 13, 1928 31, 1922 28, 1927 20, 1925 30, 1925 5, 1923 9, 1924 27, 1925 26, 1927 24, 1925 26, 1927 12, 1927 24, 1925 28, 1927 24, 1925 21, 1925 21, 1925 21, 1925 21, 1925 21, 1925 22, 1924 4, 1925 23, 1924 24, 1925 23, 1924 28, 1924 1, 1923 28, 1924 28, 1924 1, 1923 28, 1924 28, 1924 28, 1924 28, 1924 28, 1924 28, 1924 28, 1924 28, 1925 21, 1925 22, 1925 21, 1925 21, 1925 21, 1925 22, 1925 23, 1924 24, 1925 25, 1924 28, 1925 21, 1925 22, 1925 24, 1925 24, 1925 26, 1927 24, 1925 26, 1927 24, 1925 26, 1927 24, 1925 28, 1927 24, 1925 27, 1925 28, 1927 24, 1925 28, 1927 24, 1925 28, 1927 24, 1925 27, 1925 28, 1927 24, 1925 27, 1925 28, 1927 24, 1925 27, 1925 28, 1925 28, 1926 28, 1927 24, 1925 28, 1925	Decrease	Pending. Do. Investigation not ordered (see Bobwhite quail, Table II). Pending. Investigation completed (see Table II). Do. Do. Investigation not ordered. Do. Do. Do. Investigation not ordered. Pending. Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do
711 Hu 711 Hu 711 Liv 713 Egg 713 Fis 713 Fis 717 Sal 717 Sal 717 Sal 717 Sal 717 Sal 718 Fis 719 Fin 718 Sto 719 Fis 720 Fas 720 Fis 721 Fis 720 Fis 721 Fis 722 Coi 723 Bu 724 Coi 737 P 736 Blt 737 P 737 P 744 Oli 746 Pin 749 Ch 749 Ch	ngarian partridge Id or game birds 4 re or dressed turkeys. gs	Jan. Oct. June Sept. Jan. Feb. Jan. Aug. May Aug. Sept. Sept. Sept. Aug. Sept. Aug. Sept. Aug. Sept. Aug. Sept. Nov. Nov. Nov.	$\begin{array}{c} 13, 1928\\ 31, 1922\\ 28, 1927\\ 20, 1925\\ 5, 1923\\ 9, 1924\\ 27, 1925\\ 24, 1925\\ 20, 1924\\ 24, 1925\\ 20, 1924\\ 24, 1925\\ 26, 1927\\ 12, 1927\\ 24, 1925\\ 25, 1927\\ 24, 1925\\ 25, 1927\\ 24, 1925\\ 25, 1924\\ 28, 1924\\ 1, 1923\\ 28, 1924\\ 1, 1923\\ 28, 1923\\ 30, 1928\\ \end{array}$	do	Do. Investigation not ordered (see Bobwhite quail, Table II). Pending. Investigation completed (see Table II). Do. Investigation not ordered. Do. Investigation under general pow ers completed. Pending. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Do. Do. Do. Do. Investigation completed (see Table II). Investigation completed (see
711 Wi 711, 712	ld or game birds 4 re or dressed turkeys_ gs do .do .do .do .do mon from Canada ppered herring ied fish, salted or un- alted. .ekfish .ekfish .do .do mentary pastes .do .do .do .do .do .eat .do .do .eat .do .do .do .eberries, wild .do	Oct. June June Sept. Jan. Feb. Jan. Feb. Jan. Aug. May Aug. Sept. Sept. Sept. Sept. Aug. Apr. Sept. Aug. May Nav. Sept.	$\begin{array}{c} 31, 1922\\ 28, 1927\\ 20, 1925\\ 30, 1925\\ 29, 1925\\ 5, 1923\\ 9, 1924\\ 27, 1925\\ 24, 1925\\ 20, 1924\\ 24, 1925\\ 20, 1924\\ 24, 1925\\ 26, 1927\\ 24, 1925\\ 28, 1922\\ 8, 1922\\ 24, 1925\\ 25, 1924\\ 24, 1924\\ 5, 1925\\ 25, 1924\\ 28, 1924\\ 1, 1923\\ 28, 1923\\ 30, 1928\\ \end{array}$	do	Investigation not ordered (see Bobwhite quail, Table II). Pending. Investigation completed (see Table II). Do. Do. Investigation not ordered. Do. Investigation under general pow ers completed. Pending. Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do
713 Egg 713 Egg 713 Egg 713 Fis 717, 718 Fis 717, 718 Fis 717, 718 Fis 717, 718 Fis 717 Lal 717 Sal 718 Str 718 Str 718 Str 718 Str 719 Fit 720 Fit 720, 721 Fit 720, 721 Ca' 721 Ca' 720, 721 Ca' 721 Ca' 722 Bu 723 Bu 724 Co 725 Ali 726 Ra 737 P 738 Bu 737 P 74 Oh 746 Pin 749 Ch 749 Ch	gs gs, dried or frozen .do .do .do mon from Canada ppered herring ied fish, salted or un- alted. .ekfish .ekfish .do	Sept. Dec. Jan. Feb. Jan. Aug. Sept. Sept. Sept. Sept. Sept. Sept. Aug. Sept. Sept. Nov. Nov. Mar. Feb. Sept.	$\begin{array}{c} 30, 1925\\ 29, 1925\\ 5, 1923\\ 9, 1924\\ 27, 1925\\ 20, 1924\\ 27, 1925\\ 20, 1924\\ 24, 1925\\ 26, 1927\\ 12, 1927\\ 24, 1925\\ 21, 1925\\ 21, 1925\\ 22, 1922\\ 6, 1927\\ 24, 1924\\ 19, 1924\\ 19, 1924\\ 19, 1924\\ 19, 1924\\ 1, 1923\\ 28, 1923\\ 30, 1928\\ \end{array}$		Pending. Investigation completed (see Table II). Do. Investigation not ordered. Do. Investigation under general pow ers completed. Pending. Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Do. Investigation completed (see Table II). Investigation completed (see Table II). Investigation completed (see Table II). Investigation ordered.
713 713 717, 718 Fis 717, 718 Fis 717, 718 Lai 717, 718 Lai 717, 718 Sal 717, 718 Sal 717, 718 Sal 717, 718 Sal 718 Dri 718 Sto 719 Fis 720, 721 Fis 721 Ca 723 Bu 723 Bu 724 Co 725 Ali 726 Ta 737 Ch 737 P 738 Bu 739 Cit 742 Cu 746 Pin 749 Ch 749 Ch 751 Fia	do	Dec. Jan. Feb. Jan. Aug. May Aug. Sept. Sept. Sept. Sept. Sept. Aug. Sept. Aug. Sept. Nov. Mar. Feb. Sept.	$\begin{array}{c} 29, 1925\\ 5, 1923\\ 9, 1924\\ 27, 1925\\ 24, 1925\\ 20, 1924\\ 24, 1925\\ 26, 1927\\ 12, 1927\\ 24, 1925\\ 26, 1927\\ 12, 1927\\ 24, 1925\\ 25, 1924\\ 9, 1925\\ 25, 1924\\ 28, 1924\\ 1, 1923\\ 28, 1924\\ 1, 1923\\ 28, 1923\\ 30, 1928\\ \end{array}$	do. Decrease. do. Decrease. do. Increase. do. Decrease. Increase. do. Decrease. Increase. do. Decrease. do. do. do. do. do. do. do. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do. do. Decrease. do.	Do. Do. Investigation not ordered. Do. Investigation under general powers ers completed. Pending. Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Do. Do. Investigation completed (see Table II). Investigation completed (see
717, 718	h doke fish mon from Canada ppered herring ied fish, salted or un- alted. kish nan haddie do do ke wheat do mentary pastes eat tzos spherries, wild	Jan. Feb. Jan. Aug. May Aug. Sept. Sept. Sept. Sept. Sept. Sept. Apr. Sept. Nov. Nov. Mar. Feb. Sept.	$\begin{array}{c} 5, 1923\\ 9, 1924\\ 27, 1925\\ 20, 1924\\ 24, 1925\\ 26, 1927\\ 12, 1925\\ 26, 1927\\ 12, 1927\\ 24, 1925\\ 21, 1925\\ 21, 1925\\ 28, 1922\\ 6, 1927\\ 24, 1925\\ 25, 1924\\ 28, 1924\\ 19, 1924\\ 1, 1923\\ 28, 1924\\ 1, 1923\\ 28, 1923\\ 30, 1928\\ \end{array}$	Decrease Increase do do Increase do Decrease Increase do Decrease Increase Increase Increase do 	Investigation not ordered. Do. Investigation under general powers completed. Pending. Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Do. Investigation completed (see Table II). Investigation completed (see Table II). Investigation completed (see Table II). Investigation completed (see Table II). Investigation completed (see
717, 718. Lai 717. Lai 717. Sal 717. Sal 718. Sta 718. Dri 718. Sta 718. Sta 718. Sta 719. Fin 720. Fin 720. Fin 720. Fin 720. Ca 721. Fa 720. Ta 721. Ca 722. Bu 723. Bu 725. Ali 726. Blu 736. Blu 737. Ch 742. Ch 744. Oli 749. Ch 749. Ch 749. Ch 749. Ch	do	Feb. Jan. Aug. May Aug. Sept. Sept. Sept. Sept. Sept. Aug. Sept. Nov. Nov. Mar. Feb. Sept.	9, 1924 27, 1925 24, 1925 20, 1924 24, 1925 26, 1927 12, 1925 26, 1927 12, 1925 28, 1922 28, 1922 24, 1925 25, 1924 28, 1924 1, 1923 28, 1924 1, 1923 28, 1924 1, 1923 28, 1924	Increase	Investigation under general pow ers completed. Pending. Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Investigation completed (see Table II). Investigation ordered.
717 Sal 717 Sal 718 Dri 718 Dri 719 Fin 720 Sar 720, 721 Fis 723 Bu 723 Bu 725 Ali 726 T25 733 Ma 736 Blu 737 Ch 737 Ch 737 Ch 744 Oli 749 Pla 749 Ch 749 Ch 749 Ch 749 Ch	mon ppered herring jed fish, salted or un- alted. .ckfish dines do kwheat do mentary pastes do eat do tzos peherries, wild beherries	Aug. May Sept. Sept. Sept. Sept. Sept. Apr. Jan. Sept. Aug. Nov. Nov. Feb. Sept.	24, 1925 20, 1924 24, 1925 26, 1927 12, 1927 24, 1925 29, 1925 21, 1925 28, 1922 28, 1922 24, 1924 5, 1924 28, 1924 19, 1924 1, 1923 28, 1924 28, 1924 1, 1923 28, 1924	Decrease	ers completed. Pending. Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Lo. Table II). Investigation completed (see Table II). Investigation ordered.
717 Sal 718 Kip 718 Dri 718 Sto 719 Fin 720 Sar 720, 721 Fis 723 Bu 723 Bu 724 Coi 725 Ali 726 Rai 727 Rai 736 Rai 737 Ch 737 Ch 742 Cu 744 Oli 749 Pia 749 Ch 749 Ch	mon from Canada ppered herring ied fish, salted or un- alted. wekfish do do h, canned viar ckwheat do mentary pastes do eat do tzos spberries, wild berries.	May Aug. Sept. Sept. Sept. Sept. Sept. Aug. Sept. Aug. Nov. Mar. Feb. Sept.	20, 1924 24, 1925 26, 1927 24, 1925 26, 1927 24, 1925 21, 1925 28, 1922 28, 1922 28, 1922 26, 1927 24, 1924 28, 1924 19, 1924 1, 1923 28, 1924 28, 1923 30, 1928	do Increase Decrease Increase Increase Decrease	Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Investigation completed (see Table II). Do. Investigation ordered.
718 Kij 718 Dri 718 Dri 718 Sto 718 Sto 718 Sto 719 Fin 720 Fin 720 Fin 721 Ca 721 Ca 723 Bu 724 Coi 725 Ali 726 Wit 727 Ta 728 Wit 736 Blu 737 Ch 737 Ch 737 Ch 737 Ch 737 Ch 738 Cit 742 Oli 746 Pin 749 Pha 749 Ch 749 Ch 749 Ch	ppered herring ied fish, salted or un- alted. .ekfish do h, canned viar ckwheat do rn mentary pastes do ieat .do peat .do tzos pberries, wild beherries	Aug. Sept. Oct. Aug. Sept. Sept. Sept. Aug. Apr. Sept. Nov. Nov. Mar. Feb. Sept.	24, 1925 26, 1927 12, 1927 24, 1925 9, 1925 21, 1925 28, 1922 6, 1927 24, 1924 5, 1924 25, 1924 28, 1924 1, 1923 28, 1924 28, 1923 30, 1928	do Increase Decrease Increase Decrease Increase Increase do 	Do. Do. Do. Investigation not ordered. Pending. Investigation not ordered. Do. Do. Do. Table II). Investigation completed (see Table II). Investigation completed (see Table II). Do. Investigation completed (see Table II). Do. Investigation ordered.
718 Drive 718 Store 718 Store 719 Fin 720 Sar 720 Sar 720 Fin 721 Fin 723 Bu 723 Coi 724 Coi 725 Ali 725 Ma 726 Wh 729 Wh 733 Ma 736 Rai 736 Blu 737 Ch 737 Ch 737 Ch 737 Ch 742 Cu 744 Oli 749 Pla 749 Ch 749 Ch 749 Ch 749 Ch 740 Ch	ied fish, salted or un- alted. .ekfish	Sept. Oct. Sept. Sept. Sept. Jan. Sept. Aug. Apr. Sept. Nov. Nov. Mar. Feb. Sept.	26, 1927 12, 1927 24, 1925 9, 1925 21, 1925 28, 1922 28, 1922 25, 1924 25, 1924 19, 1924 1, 1923 28, 1924 1, 1923 28, 1923 30, 1928	Increase Decrease Increase do Decrease Increase do do do do do do do do do do do do Decrease Decrease	Do. Investigation not ordered. Pending Investigation not ordered. Do. Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Investigation completed (see Table II). Do. Investigation ordered.
718 Sto 719 Fin 720 Sar 720 Fin 720 Fin 721 Ca 723 Bu 724 Coi 725 Ali 725 Ali 726 Wh 727 Wh 736 Bu 737 Ch 737 Ch 738 Cit 742 Cu 744 Oli 749 Pha 749 Ch 749 Ch 749 Ch	ekfish nan haddie do viar ckwheat do mentary pastes do ica eat tzos spherries, wild teherries	Aug. Sept. Sept. Sept. Apr. Sept. Aug. Apr. Sept. Nov. Mar. Feb. Sept.	24, 1925 9, 1925 21, 1925 28, 1922 6, 1927 24, 1924 5, 1925 25, 1924 28, 1924 19, 1924 1, 1923 28, 1923 28, 1923 30, 1928	Decrease Increase Decrease Increase do do do do do do do do do do do do do	Pending Investigation not ordered. Do. Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Do. Investigation ordered.
720	dines	Sept. Sept. Apr. Jan. Sept. Aug. Apr. Sept. Nov. Mar. Feb. Sept.	9, 1925 21, 1925 28, 1922 6, 1927 24, 1924 5, 1925 25, 1924 28, 1924 19, 1924 1, 1923 28, 1923 30, 1928	Increasedo Decrease Increase do do do do do 	Investigation not ordered. Do. Do. Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Do. Investigation ordered.
720	.do do do do do do do do tzos spberries, wild bear	Sept. Apr. Jan. Sept. Aug. Apr. Sept. Nov. Mar. Feb. Sept.	21, 1925 28, 1922 6, 1927 24, 1924 5, 1925 25, 1924 28, 1924 19, 1924 1, 1923 28, 1923 30, 1928	do Decrease Increase do do do do do do Decrease	Do. Do. Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Do. Investigation ordered.
720, 721	h, canned viar _dwheat _do _do _do _do _ado	Sept. Apr. Jan. Sept. Aug. Apr. Sept. Nov. Nov. Mar. Feb. Sept.	28, 1922 6, 1927 24, 1924 5, 1925 25, 1924 28, 1924 19, 1924 1, 1923 28, 1923 30, 1928	Decrease Increase do do do do do do do Decrease	Do. Do. Do. Trable II. Investigation completed (see Table II. Investigation condered. Table II. Do. Investigation completed (see Table II. Do. Investigation ordered.
723 Bu 723 Coi 724 Coi 725 Ali 726 Mi 729 Wi 730 Ma 736 Blu 737 Coi 736 Blu 737 Ch 737 Ch 739 Cit 742 Cu 744 Oli 749 Pla 749 Ch 749 Fla 749 Gla	ckwheat do neat do do do do atzos spberries, wild uberries	Aug. Apr. Sept. Nov. Mar. Feb. Sept.	28, 1924 28, 1924 19, 1924 1, 1923 28, 1923 30, 1928	do do do do Decrease	Do. Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Do. Investigation ordered.
723 Coi 724 Coi 725 Ali 725 Wi 729 Wi 729 Wi 729 Wi 729 Wi 730 Rai 736 Blu 736 Blu 737 Ch 742 Clu 744 Oli 749 Pla 749 Ch 751 Flo	_do mentary pastes _do _ado _do tzos spberries, wild teberries	Aug. Apr. Sept. Nov. Mar. Feb. Sept.	28, 1924 28, 1924 19, 1924 1, 1923 28, 1923 30, 1928	do do do do Decrease	Do. Investigation completed (see Table II). Investigation not ordered. Do. Investigation completed (see Table II). Do. Investigation ordered.
724	rn do atzos spberries, wild	Aug. Apr. Sept. Nov. Mar. Feb. Sept.	28, 1924 28, 1924 19, 1924 1, 1923 28, 1923 30, 1928	do do do do do Decrease	Table II). Investigation not ordered. Do. Investigation completed (see Table II). Do. Investigation ordered.
725	_do leat dosplerries, wild	Sept. Nov. Mar. Feb. Sept.	19, 1924 1, 1923 28, 1923 30, 1928	do do Decrease	Investigation not ordered. Do. Investigation completed (see Table II). Do. Investigation ordered.
725	_do leat dosplerries, wild	Sept. Nov. Mar. Feb. Sept.	19, 1924 1, 1923 28, 1923 30, 1928	do do Decrease	Do. Investigation completed (see Table II). Do. Investigation ordered.
729	_do atzos spberries, wild leberries	Nov. Nov. Mar. Feb. Sept.	1, 1923 28, 1923 30, 1928	do do Decrease	Investigation completed (see Table II). Do. Investigation ordered.
736. Rai 736. Blu 737. Ch 737. P 737. P 739. Cit 742. Clu 744. Oli 746. Pin 746. Pin 749. Ch 749. Ch 749. Ch 749. Gla 751. Fla	spherries, wild	Feb. Sept.	30, 1928	Decrease	Do. Investigation ordered.
736. Rai 736. Blu 737. Ch 737. P 737. P 739. Cit 742. Clu 744. Oli 746. Pin 746. Pin 749. Ch 749. Ch 749. Ch 749. Gla 751. Fla	spherries, wild	Feb. Sept.	30, 1928	Decrease	
736 Bli 737 Ch 737 Ch 737 Ch 737 Ch 738 Ch 739 Cit 742 Cu 744 Oli 746 Pin 749 Pla 749 Ch 749 Ch 749 Ch 749 Ch 749 Gla 751 Fla	ieherries	Sept.	23.1924		Panding
737Ch 737P 737P 738Cit 742Cu 744Oli 746Pin 746Pin 749Pia 749Ch 749Ch 749Ch	erries, glacé	Sept.	00 1000	do	
737 Ch p 739 Cit 742 Ciu 744 Oli 746 Pin 746 Pin 746 Pia 749 Ch 749 Ch 749 Ch		่	20, 1920 5 1923	Increase	Do. Investigation not ordered.
739 Cit 742 Cui 744 Oli 746 Pia 749 Pia 749 Pia 749 Chi p 749 Gia	erries, partially pre-	Apr.	5, 1923 29, 1925	do	Investigation completed (see Table II).
742 Cu: 744 Oli 746 Pin 746 Pla 749 Chi 749 Chi 749 Chi 749 Chi	_do	Mar.	5, 1926	do	Do.
746 Pin 746 Pla 749 Pla 749 Chu p 749 Gla 751 Flo	rron, candied rrants		28, 1924 31, 1923	Adjustment of rates.	Pending. Investigation not ordered.
746	ves	May	12, 1925 26, 1923	Increase	Pending.
749 Cho 749 Cho 749 Gla 751 Flo	neapples	Oct.	26, 1923 29, 1924	Decrease Increase	Investigation not ordered. Do.
749 Cho 749 Cho 749 Gla 751 Flo	ntains	Öct.	23, 1922	Decrease	Do.
749 Gla 751 Flo	do erries, preserved or repared.	Oct.	31, 1922 10, 1928	Increase	Do. Pending.
751 Flo	repared.	Teh	0 1000		_
751 Cu	cé fruit	Nov.	8, 1928 24, 1922	Decrease	Do. Investigation not ordered.
	t Narcissus flowers	Mar.	9, 1927	Increase	Do.
751 Iris	3	Mar.	10, 1927	do	Do.
757 Pea	conuts. desiccated anuts ³	May	23, 1922 2, 1923	Decrease	
757	_do	Jan.	12, 1926	Increase	Do.
757	_do	Jan. Feb	20, 1926	do	Do. Do.
758 Wa	do	May	31, 1928	Decrease	Pending.
759 Im	itation sliced al- nonds (peanuts)	_	1, 1925	Increase	Do.
759	_do	Nov.	8, 1926	do	Do.
760 Cot 760	ttonseed ³	Nov	26, 1922 11, 1922	Decrease	Investigation ordered. Do.
760	_do	Dec.	21, 1922	do	Do.
760 Fla	xseed	Nov.	28, 1923	Increase	Investigation completed (see Table II).
760	_do	Dec.	4, 1923	do	Do.
		Mar.	11, 1926 24, 1926	do	Do. - Do.
760	_do	Mav	15.1926	do	Do.
760 Soy 761 Alf	_do	3.4		Investigation	Investigation ordered.

¹ Senate resolution requesting investigation. ⁴ 116 other applications on the same commodity. ⁴ Senate resolution also requested investigation.

TABLE I.—Applications received—Continued

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(A) UNDER SECTION 315-Continued

Paragraph No.	Commodity	Date of application	Nature of request	Status
	SCHEDULE 7.— Agricultural products and provisions— Continued			
761	Alfalfa seed	Sept. 10, 1926	Increase	Investigation not ordered.
761	Clover seed	Jan. 17, 1925	do	Do.
	do	Feb. 9, 1925	do	Do.
	do	Feb. 20, 1925	do	Do.
761	do	Mar. 24, 1926 May 15 1928	do	Do. Do.
761	do	May 15, 1926 Sept. 28, 1926	do	Do.
761	do	Sent. 29 1927	do	Do.
761	Sorghum seed. Navy beans Mushrooms, preserved	Oct. 25, 1922	Decrease	Do.
703	Mushrooms preserved	June 14, 1926 Oct. 17, 1922	Increase Decrease	Pending. Investigation not ordered.
766	dodo	Feb. 21, 1923	dodo	Do.
766	do	May 31, 1928	do	Pending.
767	Dried peas	July 27, 1927	Increase	Pending.
767	Dried peasdo	Dec. 16, 1925	do	Do.
	do	Dec. 21, 1925	do	Do.
	do	Dec. 29, 1925	do	Do. Do.
767	Split peas	Jan. 2, 1926 May 28, 1924 Apr. 29, 1927	do	Do.
767	do Onions	Apr. 29, 1927	do	Do.
		Mar. 19, 1926	do	Investigation completed (see Table II),
768	do	Mar. 25, 1926	do	Do.
	do	Apr. 5, 1926	do	Do.
768	do	Apr. 16, 1926	do	Do. Do.
769	Potatoes 3	May 11, 1926 Feb. 17, 1928	do	Investigation ordered.
769	do Canned tomatoes	Mar. 12, 1928	do	Do.
		May 24, 1926	do	Investigation completed (see Table II).
770	do	May 27, 1926	do	Do.
770	do	May 28, 1926	do	Do. Do.
770	do	June 7, 1926	do	Do.
770	do	June 14, 1926	do	Do.
770	do dodo	June 17, 1926	do	Do.
770	do	June 26, 1926	do	Do. Do.
RRA	<i>3</i> -	Arres 10 1000	do	Do.
770	Canned tomato paste	July 13, 1927	Decrease	Do.
770	Tomato paste	Oct. 12, 1927	do	Do.
770	Fresh tomatoes	Apr. 15, 1927	Increasedo	Investigation ordered.
772	Canned tomato paste Tomato paste Fresh tomatoes Turnips Celery	Aug. 3, 1925 Feb. 11, 1927	do	Pending. Investigation not ordered.
772	do	£60. 14, 1944	do	Do.
772	do	Mar. 24, 1928	do	Do.
772		Apr. 15, 1927 Mar. 14, 1925	do	Investigation ordered.
775	Pickle onions	July 8, 1924	do	Pending. Do.
777	Hay.	Aug. 13, 1927	do	Investigation ordered under gen-
				eral powers.
777	Hops	Aug. 19, 1927 Mar. 21, 1923	Decrease	Do. Investigation not ordered.
778	dodo	Apr. 9, 1923	Decrease	Do.
778	65	Apr. 11, 1923	do	Do.
778	do	do	do	Do.
779	do Cloves and clove stems Raw materials for ani-	Sept. 30, 1922	do	Do.
/779	Raw materials for ani- mal fats and vegetable oils.	Mar. 11, 1924	do	Investigation ordered of raw ma- terials for vegetable oils.
	SCHEDULE 9.—Cotton manufactures			
903 903-906	Nankin ticking Cotton cloth	May 28, 1924 Apr. 29, 1925	Increase Investigation under sec. 315.	Investigation not ordered. Do.
903-906		Mar. 6, 1925	Increase	Withdrawn.
903-906	do	do .	do	Do.
903-906 903-906	do Cotton shirtings	Sent 20 1000	Decrease	Do. Investigation not ordered.
903, 904, 906, 921.	Cotton textiles	do Sept. 29, 1922 May 12, 1924	Decrease	Do.
909	Upholstery fabrics	Aug. 1,1928	do	Pending.

³ Senate resolution also requested investigation.

TABLE I.—Applications received—Continued

Paragraph	Commodity	Date of	Nature of request	Status
No.		application		
•.	SCHEDULE 9.—Cotton manufactures—Contd.			•
910 912	Spreads and quilte	May 31, 1928 Oct. 19, 1922	Decrease	Pending. Withdrawn.
912	Household articles	Apr. 29, 1925	Investigation	Investigation not ordered.
913	Woven labels	Dec. 12, 1923	under sec. 315. Duty on Ameri- can selling price.	Do.
915	Fabric gloves	Jan. 16, 1923	Increase	Investigation completed (see Table II).
915	Gloves	Apr. 29, 1925	Investigation under sec. 315.	Do.
916	Hosiery	Jan. 15, 1923	Duty on Ameri- can selling price.	Do.
916	do	Apr. 29, 1925	Investigation under sec. 315.	Do.
	Handkerchiefs	Apr. 29, 1927	Duty on Ameri- can selling price.	Pending.
918 921	Heavy coat lining	Oct. 6, 1927 May 7, 1924	Decrease	Do. Investigation not ordered.
	SCHEDULE 10.—Flax, hemp, and jute, and manufactures of			
	Crin vegetal, or African fiber.	Apr. 9,1923	Decrease	Investigation not ordered.
1001	dodo Hemp	Feb. 25, 1924 Mar. 12, 1923	Increase	Do. Do.
1008 1016	Hemp Brattice cloth Handkerchiefs	Mar. 23, 1928 Apr. 29, 1927	Duty on Ameri- can selling	Withdrawn. Investigation ordered.
1016	do Rice-straw rugs	Oct. 6, 1927	price. Decrease Increase	Do.
1022 1022		Jan. 17, 1924 Dec. 3, 1924 Jan. 6, 1927	do	Investigation not ordered. Investigation completed (see Table II).
1022	Cocoa mats	Jan. 6, 1927 Nov. 7, 1925	do do	Do. Investigation not ordered.
	SCHEDULE 11.—Wool and manufactures of			
1101	Camel hair Wools, Class IIIdo	Nov. 24, 1922 do Sept. 27, 1922	Decrease do do	Investigation not ordered. Do. Do.
1107 1108	Worsted yarn	May 28, 1925 Mar. 23, 1923	Increase Decrease	Pending.
1108, 1109 1108, 1109	Worsted cloth Woven fabrics	May 28, 1925	Increase Investigation un- der sec. 315.	Pending.
1111 1114	Blankets Gloves and mittens	do	do	Do. Do.
1115	Wearing apparel for men_	Dec. 6, 1924 Nov 18 1925	Increasedo	Do.
1115 1116	Wool felt hats Oriental rugs	Apr. 5, 1928 Dec. 16, 1925	do do	Do. Investigation discontinued (see Table II).
1116	do do Wool crêpe	Jan. 4, 1926	do	Do. Do. Investigation not ordered.
	SCHEDULE 12.—Silk and silk goods			
1202	Schappe thread			Pending.
1205	Fabrics for furniture Silk fabrics	do	do	Do. Do.
1206 1206	Hatter's plush Plushes, velvets, and ribbons.	May 31, 1928	do do	Investigation not ordered. Pending.
1206 1209		Feb. 17, 1928 Apr. 29, 1927	Increase Duty on Ameri- can selling	Do. Do.
1209 1210	do Garments and articles of silk.	Oct. 6, 1927 May 31, 1928	price. Decreasedo	Do. Do.

(A) UNDER SECTION 315-Continued

TABLE I.—Applications received—Continued

(A) UNDER SECTION 315-Continued

1304	Company 10 Denses			
1304	SCHEDULE 13.—Papers and books			
1304	Cellucotton	Apr. 18, 1924 May 31, 1928 May 28, 1925	Increase	Investigation not ordered.
1205	Onionskin paper	May 31, 1928	Decrease Increase	Pending. Do.
1305 1305	Paper with coated sur- face.	Aug. 14, 1923	Decrease	Investigation not ordered.
1305 1307, 1308	Sulphurized paper	May 31, 1928 May 5, 1924	do Duty on Ameri-	Pending. Do.
			can selling price.	
1307, 1308 .	do	Dec. 12, 1928	Increase	Do.
	do	Dec. 14, 1928 Dec. 26, 1928	do	Do. Do.
1310	Mans	Dec. 1, 1922	Decrease	Investigation not ordered.
1310	Rag books	Dec. 1, 1922 Dec. 15, 1922	do	Do.
1	DUFDOSAS	July 18, 1927	Increase	Pending.
1313		Nov. 2, 1927	do	Do.
1313	Wall pockets	Nov. 8, 1922	do	Investigation completed (see Table II).
	SCHEDULE 14.—Sundries			1 0010 11).
1401	Asbestos shingles Lacrosse sticks	Apr. 13, 1923	Increase	Pending.
1402	Lacrosse sticks	Apr. 13, 1923 Aug. 30, 1926	Decrease	Do.
1402	do	Oct. 13, 1926	do	Do. Do.
1403, 1430	Beaded bags	Oct. 15, 1926 Oct. 28, 1922	do	Investigation not ordered.
1403, 1429	Imitation pearls	Dec. 12, 1925	Can selling	Investigation ordered.
1403, 1428	Beads, necklaces, pend- ants, etc., of synthetic phenolic resin.	Jan. 30, 1926	price. Increase	Pending.
1405 1406	Silk footwear	May 31, 1928 Oct. 28, 1922	Decrease Reclassification	Do. Referred to Treasury Depart-
	Men's sewed straw hats_	Sept. 1,1923	Increase	ment. Investigation completed (see
1406	do	Sept. 6, 1924	do	Table II). Do.
1406	doStraw braids for hats	Sept. 6, 1924 May 22, 1924 Mar. 23, 1923	do	Pending.
1410	Buttons, horn	Mar. 23, 1923	Decrease	Investigation not ordered.
1411 1411	Agate button molds Agate buttons	Jan. 16, 1923 July 2, 1927	Increase	Do. Do.
1412	Cork insulation in slabs, boards, etc.	May 31, 1924	do	Investigation ordered.
1412	do	Mar. 18, 1925	do	Do.
1412 1414, 399	Cork tile Toy novelties	Apr. 29, 1926	do	Do. Pending
1419	Artificial flowers	Apr. 29, 1925 Nov. 21, 1924 Sept. 21, 1922	do	Pending. Investigation ordered.
1419	do	WILLY SI, 1920	Decrease	Do.
1419	Artificial fruit	do	do	Do.
1419 1419	Prepared feathers	do Oct. 31, 1922	do	Pending. Investigation ordered, included
1420	Silver fox skins	Nov 21 1024	do	with artificial flowers. • Investigation not ordered.
1420	Furs and fur skins	Nov. 21, 1924 Oct. 25, 1922	Increase	Withdrawn.
1420	Sheepskin baby carriage robes.	Apr. 28, 1926	Adjustment of duties.	Pending.
	Hatters' fur and rabbit skins.	May 4, 1923	Decrease	
1428	Mesh bags	Aug. 23, 1923	Increase	
1428	do Swivels and rings for	Nov. 26, 1923 Mar. 12, 1926	Decrease Increase	Do. Pending.
1430	watch chains. Handkerchiefs	Apr. 29, 1927	Duty on Ameri- can selling	Investigation ordered.
1430	do	Oct. 6, 1927	price. Decrease	Do.
1430	Laces and tulles	May 31, 1928	do	Pending.
		Mov 11 1099	do	Investigation ordered.
1490	Mosquito bars	Oct. 23, 1922 Mar. 4, 1926	do	Do. Investigation not ordered
1430	Real lace (drawn work) _ Ladies' trimmed hats	Mar. 4, 1926 Apr. 25, 1923	do	Investigation not ordered. Do.
1430	Buckskin	Mar. 23, 1923	do	Do.
1431	Pigskin	Mar. 5, 1923	Reclassification _	Referred to Treasury Depart- ment.
1432	Leather leggins	Mar. 26, 1924	Increase	Investigation not ordered.
1432	Moccasins Raw gut Gut and manufactures of.	Nov. 25, 1922	Decrease	Do.
1494	naw gut	Oct. 17, 1922	Increase	Do. Pending.
1434 1434				

Paragraph No.	Commodity	Date of application	Nature of request	Status
	SCHEDULE 14.—Sun. dries—Continued			
1435	Gas mantles	• • • •	can selling	Investigation not ordered.
1443	Pipe organs	Sept. 26, 1922	do	Do.
1443	Titz-Kunst-harmonium.	Dec. 14, 1922	Decrease	Do.
1443	Violins	Oct. 30, 1922	do	Do.
1443	Wood-wind musical in-	OCL 20 1924	Increase	Pending.
1442	struments. do	O.+ 01 1004	4.	De
1440		No. 1924		Do. Do.
1443	Crowong of fugging	NOV. 5, 1924	uo	Investigation not ordered.
1451	do	Apr 05 1000	Decrease	Do.
1451	do	Apr. 20, 1923	do	D0.
1451	do	Apr. 20, 1923	do	Do.
1451	do	Tuno 7 1022	do	Do.
453	Cameras	Oct 26 1022	Adjustment	Investigation not ordered.
1453	Motion-picture films	Fab 20, 1922	Ingrosso	Pending
1454	Cigarette paper	May 21 1029	Decrease	Do
1454	Smokers' articles of	Jan. 15, 1923	Duty on Ameri-	Investigation ordered.
	phenolic resin.	Jan. 10, 1920	can selling price.	Investigation ordered.
1456	Umbrella handles and canes.	June 19, 1925		Pending.
j	Yachts	Oct. 26, 1922	(5)	Investigation not ordered.
	SCHEDULE 15Free list			
1504	Cream separators	Nov. 11, 1922	Decrease	No jurisdiction.
1589	Hides	Dec. 2, 1924	Increase	Do.
1607	Shoes	May 18, 1923	do	Do.
1662	Dried shrimp	Ion 12 1000	do	Do.

TABLE I.—Applications received.—Continued (A) UNDER SECTION 315—Continued

(B) UNDER SECTION 316

<u> </u>	(b) UNDER SECTION 316						
	SCHEDULE 1.—Chemicals, oils, and paints						
1, 9	Tartaric acid and cream of tartar.	Mar. 12	, 1923	Investigation of alleged dump- ing.	Investigation not ordered.		
54	Olive oil	May 19,	1924	Relief from un-	Do.		
83	Sodium nitrite	Nov. 10	, 1923	fair methods.	Do.		
	SCHEDULE 2.—Earths, earthenware, glassware						
205, 154 3				Investigation re unfair com- petition.	Investigation not ordered.		
211, 235	Canadian granite	Feb. 25,	1926	do	Do.		
218 218 218 218	Barometers		1927	-:do	D0.		
	SCHEDULE 3.—Metals and manufactures of						
316	Wire rope	- ,	(Relief from un- fair methods	Investigation not ordered		
366	Revolvers simulating Smith & Wesson re- volvers.	May 28,	1923	of importation. do	Investigation completed Table II).	(seo-	
399	Wrenches	Dec. 26,	1924	do	Investigation not ordered.		
	SCHEDULE 7.—Agricul- tural products and provi- sions						
	Pineapples			fair methods	-		
775	Cacao butter	July 8,	1924	of importation. do	Do.		

⁵ Different duty on yachts brought over on steamers and those brought over on their own bottoms.

TABLE I.—Applications received—Continued

Paragraph No.	Commodity	Date of application	Nature of request	Status
921	SCHEDULE 9.—Cotton manufactures Sanitary napkins	Apr. 18, 1924	Relief from un- fair methods of importation.	Investigation completed (see Table II).
	SCHEDULE 10.—Flax, hemp, and jute, and manufactures of		or importation.	
1005	Manila rope	Apr. 14,1926	Relief from un- fair methods of importation.	Investigation completed (see Table II).
1022	Rugs, simulating Wear- tex rugs.	Aug. 30, 1927	do	Investigation not ordered.
	SCHEDULE 13.—Paper and manufactures			
1310	Printing and engraving	Jan. 17, 1923	Relief from un- fair methods of importa- tion.	Investigation not ordered.
	SCHEDULE 14.—Sundries			
1414			fair methods of importa- tion.	Investigation not ordered.
1428 1441	Mesh bags Laminated products composed of paper or other materials and insoluble and infusible condensation products of phenols and form- aldehyde.	June 7, 1924 Apr. 22, 1927	do	Do. Investigation completed (see Table II).
1443	Tuning pins	Feb. 7,1925	Investigation of alleged dump- ing.	Investigation not ordered.
1454	Brierwood pipes	Jan. 9, 1923	Relief from un- fair methods of competi- tion.	Investigation completed (see Table II).
	Artificial teeth, facings, and backings.	Feb. 9,1925	do	Investigation not ordered.
		Dec. 15, 1925	do	Investigation ordered.
	do	Apr. 10,1926	do	Do.

(B) UNDER SECTION 316-Continued

(C) UNDER SECTION 317

	SCHEDULE 1.—Chemicals, oils, and paints			
50	Magnesium carbonate	Nov. 15, 1922	Investigation re discrimina- tion.	Investigation undertaken.
55 80,'83 80,_83	Cottonseed oil Bichromatesdo	Jan. 10, 1923 Oct. 26, 1922 do	do	Do. Do. Do.
	SCHEDULE 3.—Metals and manufactures of			
369	Automobiles	Oct. 24, 1922	Investigation re discrimina- tion.	Investigation undertaken.
	SCHEDULE 15.—Free list		***=	
1633	Refined oil and gasoline_	Dec. 13, 1923	Investigation re discrimina- tion.	Investigation undertaken.
1700	Flooring, hardwood	Mar. 24, 1923	do	Do.
	Discrimination in Gua- temala.	June 16, 1923	discrimina-	Investigation undertaken.
	Discrimination in Aus- tralian tariff.	Nov. 30, 1923	tion. do	Do.

Schedule	Para- graph No.	Commodity	Date ordered	Present status
Schedule 1.—Chemicals, oils, and paints.	1	Oxalic acid	Mar 27, 1923	Report submitted to the President Dec. 19, 1924 The President proclaimed increase in duty from 4
	1 4	Tartaric acid Methanol	Mar. 4, 1926 July 24, 1925	cents per pound to 6 cents per pound Dec. 29, 1924. Work suspended. Report submitted to Presi dent Oct. 5, 1926. The President proclaimed in- crease of duty from 12 cents
	1, 5 5	Amino acids and salts Diethylbarbituric acid and derivatives there- of (barbital).	Aug. 11, 1923 Mar. 27, 1923	per gallon to 18 cents per gallon Nov. 27, 1926. Work suspended. Report submitted to the President Nov. 6, 1924. President proclaimed that the rate of 25 per cent ad valorem be based and as
	5	Sodium silicofluoride	July 24, 1925	sessed upon the American selling price. Nov. 14, 1924. Report submitted to Presi- dent Aug. 11, 1928. Presi- dent proclaimed that the rate of 25 per cent ad valo- rem be based and assessed on American selling price,
	9 12	Cream of tartar Barium carbonate	Mar. 4, 1926 Jan. 8, 1926	Aug. 31, 1928. Work suspended. Report submitted to Presi- dent Mar. 17, 1928. Presi- dent proclaimed increase in duty from 1 cent per pound
	12 12	Barium chloride Ba.ium dioxide	July 20, 1928 Mar. 27, 1923	to 1½ cents' per pound, Mar. 26, 1928. Work suspended. Report submitted to Presi- dent May 14, 1924. Presi- dent proclaimed increase in duty from 4 cents to 6 cents per pound May 19,
	19 20 27	Casein Whiting Phenol	do May 26, 1927 May 4, 1923	1924. Report sent to President. Do. Report submitted to Presi- dent Oct. 7, 1927. Presi- dent proclaimed degrease in rate of duty from 40 per cent based on American selling price and 7 cents per pound to 20 per cent based on American selling price and 3½ cents per pound.
	27	Cresylic acid	do	and 31/2 cents per pound, Oct. 31, 1927. Report submitted to Presi- dent June 15, 1927. Presi- dent proclaimed decresse in rate of duty from 40 per cent based on American selling price and 7 cents per pound to 20 per cent based on American selling price and 31/2 cents per pound.
	28 39 42 53, 54, 55, 701 54	Synthetic phenolic resin. Logwood extract Edible gelatin Glue Animal and vegetable oils and fats. ¹ Linseed or flaxseed oil	do	July 20, 1927. Work suspended. Do. Do. Do. Report submitted to Presi dent June 19, 1929. Presi- dent proclaimed increase in duty from 3% cents per pound to 3% cents per

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TABLE II.—Investigations instituted and present status thereof (A) UNDER SECTION 315

¹ Includes 10 oils upon which specific application has been made.

TABLE II.-Investigations instituted and present status thereof-Continued

(A) UNDER SECTION 316-Continued						
Schedule	Para- graph No.	Commodity	Date ordered	Present status		
Schedule 1.—Chemicals, oils, and paints—Con.	80	Potassium chlorate	Mar. 27, 1923	Report submitted to the President Apr. 3, 1925. The President proclaimed increase in duty from 1½ cents per pound to 2½ cents per pound Apr. 11,		
	80	Potassium nitrate	Apr. 18, 1928	1925. Investigation discontinued.		
	80	Potassium permanga- nate.	May 26, 1927	(See p. 64.) Report submitted to Presi- dent Nov. 3, 1928. Pres- ident proclaimed increase of duty from 4 cents per pound to 6 cents per pound, Nov. 16, 1928.		
	83	Sodium nitrite	Mar. 27, 1923	Report submitted to Presi- dent Apr. 26, 1924. Presi- dent proclaimed increase in duty from 3 cents to 4½ cents per pound May 6, 1924.		
	83	Sodium phosphate		Work suspended. (Investigation of caustic mag- nesite and magnesite brick temporarily suspended. Investigation of crude and caustic calcined magnesite completed. Report sub- mitted to President July		
Schedule 2.—E arths, earthenware, and glass- ware.	204 201	Magnesite and magne- site brick.	}Aug. 11, 1923	6, 1927. The President pro- claimed increase in duty on crude magnesite from fr of 1 cent per pound; and an increase in the duty on caustic calcined magnesite from 5% of 1 cent per pound to 1% of 1 cent per pound Nov. 10, 1927.		
	207*	Fluorspar	Jan. 8, 1926	[Nov. 10, 1927. Report submitted to Presi- dent Oct. 9, 1928. The President proclaimed in- crease in duty from \$5.60 per ton to \$8.40 per ton on fluorspar containing more than 93 per centum of cal- cium fluoride.		
	211 212	Table and kitchen china and earthenware.	Mar. 19, 1925	Work suspended.		
	218 218 (217)	Blown glass tableware Perfume and toilet bot-	July 12, 1928 May 26, 1927	Do. Do.		
	219	tles. Window glass	do	Report submitted to Presi- dent Mar. 26, 1929. Presi- dent proclaimed increases in rates of duty varying according to sizes, May 14, 1929. (See pp. 97-99, su-		
	222	Cast polished plate glass (extension of mirror plate investigation).	May 5, 1923	pra.) Report submitted to Presi- dent Aug. 22, 1928. Presi- dent proclaimed increases in rates of duty varying according to sizes, Jan. 17, 1929. (See pp. 94-97, su-		
Schedule 3.—Metals and manufactures of.	223 235 301	Mirror plates Granite Pig iron	July 24, 1925	Work suspended. Report sent to President. Report submitted to Presi- dent Feb. 2, 1927. Presi- dent proclaimed increase in rate of duty from 75 cents per ton to \$1.12½ per ton		
	302, 305 362	Tungsten	May 14, 1928 Mar. 27, 1923	Feb. 23, 1927. Work suspended. Do.		

(A) UNDER SECTION 315-Continued

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·····	(A) UNDER SECTION 3.		
Schedule	Para- graph No.	Commodity	Date ordered	Present status
Schedule 3.—Metals and manufactures of—Con.	368	Taximeters	May 4, 1923	Report submitted to Presi- dent Oct. I, 1925. The President proclaimed in- crease in duty from \$3 per meter and 45 per cent ad valorem to \$3 per meter and 27.1 per cent based on American selling price,
	375 383	Metallic magnesium Gold leat	July 27, 1923 Apr. 5, 1924	Dec. 12, 1925. Work suspended. Report submitted to Presi- dent July 22, 1925. Presi- dent proclaimed an in- crease in duty from 55 cents to 82½ cents per 100 leaves (not exceeding equivalent of 3¾ by 3¾ inches). Additional duty on leaves exceeding this size in same proportion, Feb. 23, 1927.
	396	Print rollers	May 4, 1923	Report submitted to Presi- dent Oct. 7, 1925. The President proclaimed in- crease in duty from 60 per cent ad valorem to 72 per cent ad valorem to 72 per cent ad valorem June 21, 1926. [Preliminary hearing held Aug. 6, 1923, in re author- ity of commission to in-
Schedule 4Wood and manufactures of.	401	Logs of fir, spruce, cedar, and western hemlock.	{July 2, 1923 ∖Apr. 1, 1924	vestigate this paragraph, Oct. 12, 1923, reported to President and investiga- tion discontinued. (See Seventh annual report, pp. 13, 14, 72-85.) Apr. 1, 1924, investigation or dered at request of Presi- dent. Report sent to Pres-
	410	Paintbrush handles	Mar. 27, 1923	[ident. Report submitted to Presi- dent Oct. 2, 1926. The President proclaimed de- crease in duty from 334 per cent to 1634 per cent
Schedule 5.—Sugar, mo- lasses, and manufac- tures of.	410 501	Bent-wood chairs Sugar	Apr. 23, 1925 Mar. 27, 1923	Oct. 14, 1926. Work suspended. Reports submitted to Presi- dent July 31 and Aug. 1, 1924. Statement issued by
Schedule 7.—A g ri c u l- tural products and provisions.	503 504 707	Maple sirup and sugar Rare sugars Milk and cream	Ang 11 1923	President on June 15, 1925. Report sent to President. Work suspended. Report submitted to Presi- dent Jan. 10, 1929. Presi- dent proclaimed increase in duty on milk from 2½ cents per gallon to 3½ cents per gallon to 3½ cents per gallon to 34 crease in the duty on cream from 20 cents per gallon, May 14, 1020
	709	Butter	July 14, 1924	May 14, 1929. Report submitted to Presi- dent Feb. 25, 1926. The President proclaimed in- crease in duty from 8 cents per pound to 12 cents per
	710	Swiss cheese	Aug. 9, 1924	pound Mar. 6, 1926. Report submitted to Presi- dent Apr. 16, 1927, Presi- dent proclaimed increase in duty from 5 cents per pound but not less than 25 per cent ad valorem, to 7½ cents per pound but not less than 37½ per cent ad valorem, June 8, 1927

TABLE II.—Investigations instituted and present status thereof—Continued (A) UNDER SECTION 315—Continued

	(40)	O CHEER SECTION 3	20-Contentiner	1
Schedule	Para- graph No,	Commodity	Date ordered	Present status
Schedule 7.—A gricul- tural products and provisions—Contd.	711	Bobwhite quail	May 19, 1925	Report submitted to the President Sept. 28, 1925. On Oct. 3, 1925, the Presi- dent proclaimed a decrease
	713	Eggs and egg products	Aug. 4, 1926	in duly from 50 cents each to 25 cents each Report submitted to Presi- dent Feb. 5, 1920. Bresi- dent proclaimed increase in rate of duty from 6 cents
	717 724	Halibut Corn	Aug. 11, 1924 June 24, 1927	per pound to 7½ cents per pound, Feb. 20, 1929. Report sent to President. Do. (Report submitted to Presi- dent Mar. 4, 1924. Presi- dent proclaimed change of
	729 730	{Wheat and wheat prod- ucts.	}Nov. 14, 1923	rate of duty on wheat from 30 cents to 42 cents per bushel; wheat flour, semo- lina, etc., from 78 cents to \$1.04 per 100 pounds; bran, shorts, and by-product feeds, from 15 per cent ad valorem, Mar. 7, 1924. Work surgended.
	733 737	Matzos Cherries	July 26, 1928 Mar. 22, 1927	Report submitted to Presi- dent Nov 25, 1927. Presi- dent proclaimed increase in
	757	Peanuts	May 26, 1926	duty from 2 cents per lb. to 3 cents per lb. Dec. 3, 1927. Report submitted to Presi- dent Jan. 10, 1929. Presi- dent proclaimed increase in duty on peanuts not shelled from 3 cents per pound to 4½ cents per pound; and on shelled peanuts from 4 cents per pound to 6,cents per pound, Ten 10 1000
	760 760	Cottonseed Flaxseed	do Aug. 4, 1926	Jan. 19, 1929. Work suspended. Report submitted to Presi- dent May 2, 1929. Presi- dent proclaimed increase in duty from 40 cents per bushel of 56 pounds to 56 cents per bushel of 56 pounds, May 14, 1929.
	760 768	Soya beans Onions	May 26, 1926 July 23, 1926	pounds, May 14, 1929. Work suspended. Report submitted to Presi- dent Dec. 11, 1928. Presi- dent proglaimed increase i n duty from 1 cent per pound to 1½ cents per pound, Dec. 22, 1928.
Schedule 9.—Cotton manufactures. Schedule 14.—Sundries Schedule 9.—Cotton manufactures. Schedule 14.—Sundries Schedule 10.—Flax, hemp, and jute.	769 770 770 772 915 , 1430 915 916 920 1430 1022	Potatoes, white or Irish. Fresh tomatoes Canned tomatoes Peppers, fresh sweet Cotton gloves of warp- knit fabrics. Cotton warp-knit fabric. Cotton hosiery Lace ² Rag rugs	June 10, 1927 Oct. 14, 1927 Apr. 18, 1928 Mar. 27, 1923 do Oct. 25, 1923	 Work Suspended. Do. Report sent to President. Work suspended. (Reports submitted to President June 12, 1925. Statement issued by President Oct. 3, 1925. Report sent to President. Work suspended. Report submitted to the President July 15, 1927.
		watches and manquite have		President proclaimed that the rate of 35 per cent ad valorem on cotton rag rugs of hit-and-miss type be based and assessed upon the American selling price, Feb. 13, 1928.

TABLE II.—Investigations instituted and present status thereof—Continued (A) UNDER SECTION 315—Continued

² Includes applications on lace curtains and mosquito bars. 81513-30------17

Schedule	Para- graph No.	Commodity	Date ordered	Present status
Schedule 11.—Wool and	1116	Oriental rugs	Oct. 28, 1926	Investigation discontinued.
manufactures of. Schedule 13.—Papers and books.	1313	Wall pockets	Mar. 27, 1923	Report submitted to Presi- dent Oct. 1, 1925. State- ment issued by President Oct. 3, 1925.
Schedule 14.—Sundries	{ 1403 1429	Imitation pearls	May 26, 1927	Work suspended.
	1406	' Men's sewed straw hats.	May 29, 1924	Report submitted to Presi- dent Feb. 4, 1926. The President issued proclama- tion increasing rate of duty on straw hats valued at \$9.50 or less per dozen from 60 per cent to 88 per cent. Duty on other straw hats remained unchanged Feb. 12, 1926.
	1412	Cork insulation and corktile.	May 31, 1928	Work suspended.
	1419	Artificial flowers, fruits, etc. ³	Mar. 27, 1923	Do.
	1430 1016	Handkerchiefs	May 28, 1928	Do.
	1454	Smokers' articles of syn- thetic phenolic resin.	May 4, 1923	Do.
	1454		do	Do.

TABLE II.—Investigations instituted and present status thereof—Continued (A) UNDER SECTION 315—Continued

(B) UNDER SECTION 316

Schedule	Para- graph No.	Commodity	Date ordered	Present status
Schedule 3.—Metals and manufactures of.	366	Certain revolvers al- leged to be manufac- tured in simulation of the Smith & Wesson product.	June 3, 1924	President approved findings of commission continuing suspension of entry of cer- tain revolvers and revok- ing suspension as to others.
Schedule 9Cotton manufactures.	921	Sanitary napkins	Oct. 14, 1924	President approved findings of commission and dis- missed complaint.
Schedule 10.—Manufac- tures of flax, jute, hemp, etc.	1005	Manila rope	Apr. 20, 1926	President approved findings of the commission and issued order forbidding im- portation of rope im- properly described as ma- nila rope or bolt rope.
Schedule 14.—Sundries	1441	Laminated products composed of paper or other materials and insoluble and infusible condensation products of phenols and formal- dehyde.	Dec. 23, 1927	President approved findings of the commission and issued orders forbidding importation of certain lam- inated products.
	1454	Brierwood pipes	Aug. 11, 1923 -	President approved findings of commission and dis- missed complaint.
		Synthetic phenolic resin of Form C and articles made thereof.	Apr. 16, 1926	Temporary order of exclu- sion from entry in effect. Commission's final find- ings issued. Appeal pend- ing in Court of Custom- Appeals.

* Includes applications upon 2 specific commodities.

TABLE II.—Investigations instituted and present status thereof—Continued (C) UNDER THE GENERAL POWERS OF THE COMMISSION

Schenule	Para- graph No.	Commodity	Date ordered	Present status
Schednie 1.—Chemicals, oils, and paints.	26	Thymol and thymol crystals.	Aug. 7, 1923	Completed.
Schedule 2.—Earths, earthenware, and glassware.	207 213	China clay Graphite	Appr. 20, 1928 do	In progress. Do.
Schedule 3.—Metals and manufactures of.		Copper-producing in- dustry.	Sept. 23, 1924	Do.
	302 360	Manganese ore Scientific and drawing	May 26, 1927 Apr. 24, 1925	Field work completed. In progress.
Schedule 4Wood and manufactures of.	1660	instruments. Red-cedar shingles	July 22, 1926	Report printed.
Schedule 5.—Sugar, mo- lasses, and manufac- tures of.	502 503	Maple sugar and sirup, blackstrap, and edible molasses.	July 23, 1925	Field work completed.
Schedule 7.—Agricul- tural products and provisions.	701 705 706	Cattle, meat, and meat products.	May 8, 1928	In progress.
Schedule 14.—Sundries	717 764 777	Fresh-water fish Sugar beets Hay Calf tannery industry Goat skin and kid skin	June 15, 1928 Mar. 5, 1928	Report "Lake fish" printed. Final reports printed. In progress. Report in preparation. Report sent to Senate. ⁶

Senate resolution requesting investigation.
Printed as S. Doc. 217, 70th Cong., 2d sess.

TABLE III.—Commodities not listed for investigation

(A) UNDER SECTION 315

Schedule	Para- graph No.	Commodity	Status
Schedule 1.—Chemicals, oils,	1	Formic acid	Withdrawn.
and paints.	2	Aldehyde derivatives	Dismissed without prejudice.
-	5	lehthyol	Do.
	5	Chemicals for purification of gas.	Do.
	7	Ammonium chloride	Do.
	25	Calcium arsenate	Informally suspended.
	26	Chloral hydrate	Withdrawn.
	26	Thymol	Dismissed without prejudice.
	26 27	Thymol crystals Novadelox or benzol peroxide	Do. Do.
	27	Ethyl benzol	Informally suspended.
	28	Biological stains	Do.
	28	Certain coal-tar dyes	
	28	Natural indigo	Dismissed without prejudice.
	36	Licorice root	Do.
	\$39	Quebracho extract	Informally suspended.
	42	Agar agar	Do
1	42	Casein glue	Dismissed without prejudice.
	42	Fish glue	1 Do.
	44	Inks, printing and lithograph.	
	48 50	Licorice, extract	Do. Do.
	50 53	Chloride of magnesium Animal fats	
	53	Fish oils	Dismissed without prejudice.
	53	Herring oil	Do.
	53	Whale oil	Do.
	54	Olive oil	Do.
	59	Cajeput oil	Informally suspended
	61	Mustard oil	Do. –
	71	Bone black	Dismissed without prejudice.
	73	Lampblack	Do.
	75	Oxide of iron	Do.
	77	Varnish	Do.
1	83 83	Glauber salt Formate of soda	Do. Do.
	83 83	Salt	Do. Do.
	83 87	Strontium nitrate	Do.
	91	Titanium potassium oxalate	
I	91)	i itamum potassium orasate	1. V.

TABLE III.—Commodities not listed for investigation—Continued

Schedule	Para- graph No.	Commodity	Status
chedule 2.—Earths, earth-	206	Pumice stone	Dismissed without prejudice.
enware, and glassware.	207	China clay (kaolin)	Do.
	$208 \\ 212$	Mica. Chemical stoneware	Do. Do.
	214	}Diamond dies	Do.
	1429)	
	214 229	Feldspar Electric-light bulbs	Do. Do.
	229	Tungsten electric lamps	Do.
	230	Stained-glass windows	Do.
chedule 3.—Metals and manufactures of.	328 340	Corrugated furnaces	Do. Do.
manufactures of.	343	Needle cases	Informally suspended.
	344	Fishing tackle	Dismissed without prejudice.
	$348 \\ 355$	Snap fasteners	Do. Withdrawn.
	358	Cutlery of stainless steel	Referred to Treasury Departmen
	359	Surgical instruments	Dismissed without prejudice.
	360	Drawing instruments	Do.
	360 366	Scientific instruments Parts of automatic pistols	Informally suspended. Dismissed without prejudice.
	368	Escapements	Dismissed without projudice.
	372	Hosiery machines	Do.
	$372 \\ 372$	Spindles and flyers Woolen cards	Informally suspended. Dismissed without prejudice.
	399	Aluminum pigeon bands	Informally suspended.
Schedule 4Wood and	403	Cabinet logs	Dismissed without prejudice.
manufactures of.	403	Cabinet lumber	Do.
	403 403	Logs, lignum-vitæ Veneers of wood	Do. Do.
	407	Willow furniture	Do.
	410	Furniture	Informally suspended.
	410 410	Spring clothespins Plywood	Dismissed without prejudice. Do.
chedule 7. Agricultural	701	Tallow	Dismissed without prejudice.
products and provisions.	701	Cattle and beef	Do.
	701, 705,	Meat and meat products	Do.
	706 710	Cheese and substitutes there-	Do.
	710	for. Cheddar cheese	Do.
	711	Wild or game birds	Informally suspended.
	717, 718 718	Fish	Dismissed without prejudice.
	718	Stockfish Sardines	Do. Do.
	720, 721	Fish, canned	Do.
	721	Caviar	Do.
	723 725	Buckwheat	Do. Do.
	737	Alimentary pastes Cherries, glacé	Do.
	742	Currants	Do.
	746	Pineapples	Do.
	749 751	Plantains. Flowers, cut	Informally suspended. Dismissed without prejudice.
	751	Narcissus flowers, cut	Do.
	751	Iris, cut	Do.
	756 761	Coconuts, desiccated	Do. Do.
	761	Clover seed	Do.
	761	Sorghum seed	Informally suspended.
	772	Celery	Dismissed without prejudice.
	777 778	Hay Hops	Do. Do.
	779	Cloves and clove stems	
Schedule 9Cotton manu-	903	Nankin ticking	Do.
factures.	903, 906 903, 906	Cotton cloth Cotton cloth, fine	Do. Withd ra wn.
	903, 906 903, 906	Cotton shirtings	Dismissed without prejudice.
	903, 904,	Cotton textiles	
j	906, 921 912)	
	912	Household articles of cotton Spreads and quilts	
	913	Woven labels	Dismissed without prejudice.
	921	Heavy coat linings	Do.
		Crin vegetal	Do.
Schedule 10Flax, hemp,	1001	Hamp	Du.
Schedule 10.—Flax, hemp, and jute, and manufac- tures of.	1001 1001 1008	Hemp Brattice cloth	Do. Withdrawn.

(A) UNDER SECTION 315-Continued

TABLE III.—Commodities not listed for investigation—Continued

Schedule	Para- graph No.	Commodity	Status
Schedule 11Wool and	1101	Camel hair	Dismissed without prejudice.
manufactures of.	1101	Wool, Class III	Do.
	1108	Bedford cord	Do.
1	1119	Wool crepe	Do.
Schedule 12.—Silk and man- ufactures of.	1206	Hatter's plush	Do.
Schedule 13 Paper and	1304	Cellucotton	Do.
books.	1305	Paper with coated surface	
	1310	Maps	Do.
	1310	Rag books	Do.
Schedule 14.—Sundries	1403 1430	Beaded bags	Do.
	1406	Harvest hats	Referred to Treasury Department
	1410	Horn buttons	Informally suspended.
	1411	Agate button molds	Dismissed without prejudice.
j	1411	Agate buttons	Do.
	1420	Silver fox skins	Do.
	1420	Furs and fur skins	Withdrawn.
	1420 1421	Hatters' fur and rabbit skin	Dismissed without prejudice.
	1421	Mesh bags	Do.
1	1420	Real lace and drawn work	Do.
	1430	Ladies' trimmed hats	Do.
	1430	Buckskin	Informally suspended.
(1431	Pigskin	
	1432	Leather leggins	Dismissed without prejudice.
	1432	Moccasins	
	1434	Raw gut	Dismissed without prejudice.
	1435	Gas mantles	Do.
	1400	Pipe organs	Do.
	1443	Titz-Kunst harmonium	Informally suspended.
	1443	Violins	Do.
	1451	Crayons or fusains	Dismissed without prejudice.
	1451	Cameras	Informally suspended.
Schedule 15.—Free list	1403	Cream separators	On free list.
Schedule 10. Tiee list	1589	Hides.	Do.
	1607	Shoes	Do.
	1662	Dried shrimp	Do.
	1002	Yachts	Informally suspended.

(A) UNDER SECTION 315-Continued

(B) UNDER SECTION 316

Schedule 1.—Chemicals, oils, and paints.	1, 9 54	Tartaric acid and cream of tartar. Olive oil	Dismissed without prejudice. Do.
· · · ·	83	Sodium nitrite	Do.
Schedule 2.—Earths, earth- enware, and glassware.	205 1543	}Portland cement	Do.
	211 235	Canadian granite	Do.
	218	Thermometers, barometers, combination thermometer and barometer.	Do.
Schedule 3Metals and	316	Wire rope	Do.
manufactures of.	399	Wrenches	Do.
Schedule 7.—Agricultural	746	Pineapples	Do.
products and provisions.	775	Cacao butter	Do.
Schedule 10.—Flax, hemp, jute, and manufactures of.	1022	Rugs simulating Weartex rugs.	Do.
Schedule 13.—Papers and books.	1310	Printing and engraving	Do.
Schedule 14.—Sundries	1414	Dolls and doll hands	Do.
	1428	Mesh bags	Do.
	1443	Tuning pins Artificial teeth facings and backings.	Do. Do.

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TABLE IV.—Commodities upon which applications have been received but concerning which investigations have not been instituted

	(A) UNDER SECTION :	315
Para- graph No.	Commodity	Nature of request
	SCHEDULE 1.—Chemicals, oils, and paints	
4	Methanol	Decrease.
5	Hydrogen peroxide	Increase.
9 20	Raw tartar Tailors' chalk	
62	Perfumes	Decrease.
	SCHEDULE 2.—Earths, earthenware, and glassware	
202	Tíles	Increase.
212	Articles of faience and porcelain	Decrease.
213	Graphite	Do.
$\begin{array}{c}213\\214\end{array}$	Crystalline flakes Fused silica	Do. Increase
218	Clinical thermometers	Do.
218	Clinical thermometer blanks	Do.
18, 230 231	Gauge glasses Vitrolite	Do. Do.
32, 233	Finished marble	Do.
233	Agate rings for fishing lines, unmounted	Adjustment of duty.
235	Travertine stone	Increase.
	SCHEDULE 3.—Metals and manufactures of	•
302 03, 304	Manganese and alloys Bars of iron and steel	Increase. Do.
304	Beams	Do.
304	Billets	Do.
304	Ingots Steel sheets	Do.
308 309	Steel plates	Do. Investigation under section 315.
312	Angles	Increase.
312	Channels	Do.
$\begin{array}{c} 312\\ 312 \end{array}$	Girders Joists	Do. Do.
312	Light shapes	Do.
13, 314	Bands	Do.
$\frac{315}{316}$	Wire rods Wire	Do. Do.
318	Wire cloth	Do.
325	Anvils	Do.
$\frac{327}{327}$	Cast iron pipe	Do.
331	Cast iron pressure and gas pipe Upholstery nails	Do. Investigation under section 315.
331	Wire nails	Increase.
339	Utensils	Investigation under section 315.
342 343	Umbrella frames Crochet needles	Increase. Do.
343	Latch needles	Do.
344	Agate rings for fishing lines, mounted	Adjustment of duties.
$354 \\ 355$	Pen and pocket knives Kitchen knives	Decrease. Do.
355	Butcher knives	Do.
372	Machine tools	Increase.
382 399	Aluminum foil Christmas tree light reflectors	Do. Do.
399	Wire netting	Do.
399	Bicycle bells	Do.
399 399	Bit braces Marcel irons	Do. Do.
399	Straightening combs	Do.
	SCHEDULE 4.—Wood and manufactures of	
407	Reed and willow products	Increase.
410	Carved wood	Do.
410 410	Wood flour Wooden cigar molds	Do. Do.
	SCHEDULE 7.—Agricultural products and provisions	
710	Swiss cheese without eye formation	Increase.
711	Hungerien nertridge	Decrease.
711	Ornamental birds	Do. Increase.
711.719		
711, 7 12 717	Salmon Dried fish, salted	Decrease.

(A) UNDER SECTION 315

TABLE IV.—Commodities upon which applications have been received but concerning which investigations have not been instituted—Continued

Para raph No.	Commodity	Nature of request
	SCHEDULE 7.—Agricultural products and provisions—Con.	and the second sec
		<u> <u> <u> </u> <u> </u></u></u>
718 719	Kippered herring Finnan haddie	Decrease.
736	Raspberries, wild	Do.
736	Blueberries	Do.
739	Citron, candied	Increase.
744	Olives Cherries prepared or preserved	. <u>D</u> o.
749 749	Cherries prepared or preserved	Do.
758	Glacé fruit Walnuts and green-walnut kernels	Do. Decrease.
759	Imitation sliced almonds	Increase.
763	Navy beans.	Do.
766	Mushrooms, preserved	Decrease.
767 767	Split peas	Increase.
771	Dried peas Turnips	Do. Do.
773	Pickle onions	Do.
775	Cacao butter	Do.
	SCHEDULE 9.—Cotton manufactures	
909	Upholstery fabrics	Increase.
910	Velvets and plushes	Decrease.
918	Handkerchiefs	Increase and decrease.
	SCHEDULE 11.—Wool and manufactures of	
1107	Worsted yarn	Increase.
1108,	Worsted cloth	
1109 1108,	2	
1109	Woven fabrics	Investigation under section 315.
1111	Blankets	Do.
1114	Gloves and mittens	Do.
$1115 \\ 1115$	Wearing apparel for men Wool felt hats	' Increase. Do.
	Schedule 12.—Silk and silk goods	10.
1000		
$1202 \\ 1205$	Schappe thread	Decrease. Do.
1205	Fabrics for furniture	Do. Do.
1206	Velvets, plushes, and ribbons	Do.
1206	Velvets	Increase.
1209	Handkerchiefs	Increase and decrease.
1210 1210	Garments of silk	Decrease.
1210	Articles of silk	Do.
·	SCHEDULE 13.—Papers and books	· · · · · ·
1304	Onionskin paper, etc	Decrease.
1305	Decalcomanias	Increase.
1305	Sulphurized paper	Decrease.
1307	Papeteries	Increase.
1308 1313	Paper tubes for textile purposes	Do.
1313	Fly ribbons	Do.
	SCHEDULE 14.—Sundries	
1401	Asbestos shingles	Increase.
1402	Lacrosse sticks	Decrease.
1403	Beads, necklaces, pendants, etc., of synthetic phenolic	Increase.
1428	f resin. Silk footwear	D
1405 1406	SIIK 1001Wear	Decrease. Increase.
1400	Straw braids	
399	Toy novelties	Do. .
1419	Feathers, prepared	Decrease.
1420	Sheepskin baby-carriage robes	Adjustment of duties.
1428	Swivels and rings for watch chains	
1430 1434	Laces and tulles Gut and manufactures of	Decrease. Increase.
1443	Wood wind musical instruments	Do.
1453	Motion-picture films	Do
1454	Cigarette paper Umbrella handles and canes	Decrease.
1456	Timbrelle handles and canes	Increase.

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(A) UNDER SECTION 315-Continued

APPENDIX 2.-LIST OF PUBLICATIONS OF THE TARIFF COMMISSION

The scope of the commission's work since its organization in 1917 is outlined by the following list of subjects investigated and reported upon to December, 1929:

ABBREVIATIONS

t=Available only from Superintendent of Documents.
*=Printed edition exhausted.
**=Not specially provided for, or not provided for eo nomine.
FL=Free list.
In prog.=Work in progress.
M.S.=Manuscript (typewritten).
M. S.=Miscellaneous series (unnumbered).
u. S. p. f.=Not specially provided for.
P.=Printed. (Figures following indicate year of publication.)
T. I. S.=Tariff information series.
W. M.=Report to Ways and Means Committee (unnumbered).
R. P.=Report to President.
F. C.=Finance Committee report.

		Tariff s	et of 1913		Report No.	
Subject	Status	Sched- ule	Para- graph	Paragraph of act of 1922		
Abrasive materials (report)	P 1921			2	B-3	
A cetaldehyde A cetic acid A cetone and acetone oil Acids:	Ms P 1921 P 1921		387 3	1 3	A-2 A-2	
Acetic Acetic anhydride	P 1921 P 1921		387 2	1	A-2 A-2	
Arsenic and arsenious Benzoic	P 1921 In prog		387	1, 1513 27, 28	FL-6	
Boric Carbolic. (See Phenol.) Chromic	P 1921 P 1921	A FL	1 387	1 1501	A-1 A-18	
Citric	P 1921	A	1	1 1 1	A-1	
Cresylic.	P† 1927 P 1925	FL	452	27	R.P. R.P.	
Diethylbarbituric Formic				**1	R.P. A-1	
Gallic	P 1921	A	1	1	A-1	
Glycerophosphoric		A	18	26	A-6	
H Hydrochloric	In prog P 1921	FL	387	27 1501	FL-1	
Hydrocyanic.	P 1921	FL	387	**1	FL-i	
Hydrofluoric	P 1921	FL	387	1501	FL-1	
Lactic	P 1921 P 1921	A	1	1	A-1 FL-1	
Muriatic Nitric	P 1921	FL	387	1501 1501	FL-1	
Oleic	Ms					
Oxalic	{P 1921 P 1925	} A	1	1	A-1, R. P.	
Phosphoric		FL	387	1	FL-1	
Prussic (hydrocyanic)	P 1921	FL	387	**1	FL-1	
Pyrogallic	P 1921	A	1	1	A-1	
Pyroligneous	P 1921 In prog_	FL	387	**1 27, 28	A-2	
Silicic	P 1921	FL	387	21,20	A-18	
Stearic	Ms			î		
Sulphuric, or oil of vitriol	P 1921	FL	387	1501	FL-1	
Tannic Tartaric	P 1921 P 1921	A			A-1 A-1	
Valerianic	P 1921	FL	387	1501	FL-1	
Acids exempt from duty	P 1921	FL	387	1501	FL-1	
Acids of paragraph 1 and related materials pro-	∫P 1921	n			f A-1,	
vided for in the tariff act of 1913. Aconite	P 1920 P 1921		388	25 1500	(T. L. S13	
Adhesive felt for sheathing vessels	P 1921	FL	481	35, 1502 **1302	A-7, FL-2 FL-14	
Agar-agar	P† 1921	A	34	42	A-9	
Agate, manufactures of	P 1921	B	98	233	B-11	
Agates, unmanufactured	P 1921	FL	390	1503	N-1	
Agricultural implements	P 1921	FL	391	1504	FL-3	

		Tariff a	act of 1913	Dahamarah	
Subject	Status	Sched- ule	Para- graph	Paragraph of act of 1922	Report No
Agricultural staples and the tariff:	-				
Wheat and wheat flour		FL	644	729	T. I. S20 T. I. S20
Oats and oatmeal. Barley and barley malt	P† 1920	G G	192 188-190	726 722	T. I. S20 T. I. S20
Flaxseed or linseed	P 1920	Ğ	212	780	T. I. S20
Flawsood on lingood oil	10+1000	A	45	54	T T S _ 24
Potstoes	P 1920	FL	581 205	769	T. I. S20 T. I. S20
Air rifles	P 1920	6	132	777 1414	C-14
Potatoes. Hay	P 1921	B	98	233	B-11
A10868	P 1921	0	145	**380	C-19
Albumen, dried egg	P 1922	A	4	713	G-11
Ethyl (nonbeverage or industrial)	In prog			.4	
Methyl or wood (methanol)	{P 1921 P 1927	BFL	393	4	A-2, R. P
Propyl	(P 1927 In prog	p* #		4	,
Alcoholic compounds, n. s. p. f.	P 1921		16	24	A-1
Aldehyde ammonia	Ms			2	
ldol	Ms			2	
Alizarin assistants Alloy steels	P† 1921 P 1921	A	45	56	A-1
Almond oil:	F 1921	C	110	305	C-2
Bitter		A	46	1631	A-1
Sweet		A	45	1632	A-1
AlmondsAloes		G	223 **27, **477	754	G-3
Althea root	P 1921	FL.	544	35,1502 35,1502	A- FL-
Alum	P 1921	A	6	6	Ā-
lumina, bydrate of	P 1921	A	6	**6	A-
Luminum: Alloys	P 1921		143	374	C-1
Bars, plates, sheets, strips, and rods	P 1921	č	143	374	Č-1
Compounds	P 1921	A	6	6	A-
Hollow ware Hydroxide or refined bauxite	P 1921	C	134	339	C-1
Hydroxide or refined bauxite	P 1921		6	· 6	A-
Leaf Manufactures, n. s. p. f	P 1921 P 1921	C	146 134, 167	382 339	C-1 C-1
Crude	P 1921	FL	411	374	Č-1
CrudeSulphate	P 1921	A	6	6	A
Amber: Gum	P† 1921		36	11	A-4
Manufactures of	P 1921	N.		1438	N-1
Ambergris	P† 1921	A		61	A-1
Amberoid, gum	P 1921		36	11	
American valuation as the basis for assessing duties ad valorem, information concerning	P 1921			*======	W. M
(report)					l l
Ammoniacal gas liquor	P 1921	A	7	**1459	A-
Ammonium:		A	7	7	
Carbonate Chloride (muriate)	P 1921		7	7	A- A-
Liquid annydrous	P 1921	A	7	7	A-
Nifrate		FL	395	7	A-
Perchlorate Phosphate	P 1921 P 1921		395	7 7	A- A-
Picrate	P 1921		5	5	A-
Sulphate	P 1921	FL	395	7	Ā-
Amylacetate	P 1921	A	29	**38	A
Amyl alcohol Amyl nitrite	P 1921 P 1921	A	33	**38	A- A-
Anchors and parts of, iron or steel	P 1921	Ĉ		319	
Anchovies	P* 1921	. G		**721	G-1
Angles, iron or steel	P 1921		104	312	C-
Aniliné, oil and salt Animal hair, n. s. p. f	In prog		503	27 1586	N-1
Animal and expressed vegetable oils and fats	P 1921 P† 1921	. F L/	600	1000	A-1
Anise-seed ou	P 1921	A	. 46	1631	A-i A-
Annatto	P 1921	. FL	399	1509	A-
Annual reports: First, 1917	P* 1917				M. 5
Second, 1918	P 1919				M.S
Third. 1919	P 1919				M.S M.S
Fourth, 1920	P 1920	-1		[[] M. S
Fifth, 1921	1 PT 1922	1		1	1 1/4 8
Sixth, 1922 Seventh, 1923	P 1923				M.S.
Eighth, 1924	P 1924				M. 8
Ninth, 1925	· · · · · · · · · · · · · · · · · · ·			1	M

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		Tariff :	act of 1913		
Subject	Status	Sched- ule	Para- graph	Paragraph of act of 1922	Report No.
Annual reports—Continued.		·			
Tenth, 1926	P 1926				M.S.
Eleventh, 1927 Twelfth, 1928	P 1927 P 1020				M.S. M.S.
Thirteenth, 1929	P 1929				M. S.
Anthraquinone Antifriction balls and bearings	In prog				
Antimonial lead (type metal)	P 1921	C. C, FL.	106 160, 637	321 393	C-5 C-17
Allovs	{P 1920 P 1921	C, FL.	154, 572	**376	$\begin{cases} C-17, \\ T.I.S. 21 \end{cases}$
Ore and stibuite containing	∫P 1920	FL	396	1508	$\begin{cases} C-17, \\ T.I.S. 21 \end{cases}$
Oxide, salts, and compounds	{P 1920 P 1921	c	144	8	$\left\{ \begin{array}{c} C-17, \\ T.I.S. 21 \\ \end{array} \right.$
Regulus or metal and matte containing	{P 1920 {P 1921	C	144	376	$\begin{cases} C-17, \\ T.I.S.21 \end{cases}$
Antitoxins, vaccine virus, and all other serums Anvils of iron or steel		FL C	400 118	1510 325	FL-2 C-9
Apatite		FL	401	1640	FL-5
Apples, green or ripe and dried	P 1921	G	217	734	G-20
A pricot kernels	FP 1921	Ģ	223	760	G-34
Arabic or senegal gum Archil liquid	P† 1921 P 1921	A FL	36 564	$11 \\ 1509$	A-9 A-8
Argentine German silver	P 1921	б	145	380	C-19
Argols	P 1921	A	8	9	A-1
Arrowroot	P 1921	FL	402	1511	G-38
Arsenic and arsenious acid	P 1921 P 1921	FL	403 387	379 1, 1513	FL-6 FL-6
Arsenic, sulphide of	P 1921	FL FL	403	1, 1513	FL-6
	P 1921	N, FL	∫376, 611,	1449, 1705-	} N-24
Art, works of			652-657	1708	9
Articles not enumerated but similar to articles	P 1921	N	386	1460	N-27
enumerated. Articles not enumerated or provided for Artificial flowers	P 1921 P 1921	N N	385 347	1459 1419	N-27 N-6
Artifical silk: Manufactures of	P 1925	т.	319	1213	L-4
Spun	P 1925	Ĩ	**319	1213	L -4
Spun. Tops. Waste.	P 1925	L	**319	**1213	L-4
Waste	P 1925	N	384	1213	Į-4
Yarns Asafetida	P 1925 P 1921	L FL	319 405	1213 35, 1502	L-4 A-7, FL-4
Asbestos:		* D	1 100	00,1002	
Manufactures of	P 1921	N	367	1401	N-20
Unmanufactured Ashes, wood and lye of, and beet root	P 1921 P 1921	FL FL	406	1515	N-20 A-16
Asnes, wood and iye of, and beet root	P 1921	FL	407 534	1645 1609	FL-7
Asphalt, limestone-rockAsphaltum	P 1921	FL	534	1609
Attar of roses	P 1921	A		1631	A-12
Aubusson carpets and rugs	P 1923	K	293, 300	1116	K-6 C-31
Automobile equipment, electrical	P 1922 P 1921	C	**167	**369, 399 369	C-10
Axes	P 1921	C	**167	**399	Č-13
Axles of iron or steel	P 1921	C	121	323	C-10
Axminster carpets and rugs	P 1923	к	293, 300	1116, 1117	K-6
Babbitt metal	P 1921	C	**154	393	C-17
Bag leather	P 1922	FL	**530	1431	N_16
Bagging for cotton, of jute, processed Bags:	P 1922	FL	408	1019	J-7
Jute or cotton	P 1923	I, J	{ **266, 281, **284	**921, 1018	1-9
Leather	P 1922	N	360	1432	N-18
Paper	P 1922	M	324	1305	M-4
Balances and weights Ball clay	In prog P 1921	B	**76	**207	B-4
Balls and bearings, antifriction Balm of Gilead		C. FL	106 409	321 **34, **1567	C-5 A-7, FL-2
Balsam: Canada	P 1921	A	9	10	A-3
Copaiba	P 1921	Â	9	10	A-3
Guriun	P 1921	A	**9	**10	A-3
Peru	P 1921	A	9	10	A-3
Tolu Balsams (see also Drug industry, crude botanical).	P 1921 P 1921	A	9	10	A-3
Bandings:					A-7
Cotton Silk	P 1925 P† 1922	I	262 316	**913 **1207	I-7 L-2

		Tariff	act of 1913		1
Subject	Status	Sched- ule	Para- graph	Paragraph of act of 1922	Report No.
Band iron or steel	P 1921	C,FL.	{107, 109, 509	309, 313, 314	C-4
Bar iron	P 1921	o	103	303	C-2
Barbed wire Bargaining tariffs. (See Reciprocity and com- mercial treaties.) Barium:	P 1921	0	645	1697	C-8
Carbonate	{P 1921 P 1928	}A	10	12	A-4, R.P.
Chloride	P 1921 (P 1921	A	10	12	A-4
Dioxide	P 1924	}A	10	12	A-4, R. P.
Metal	P 1921	[C	143	**1562	C-16
Barium chemical and lithopone industries	{P 1920 P 1921	}			A-4, T. I. S18
Barley and barley malt. (See Agricultural staples and the tariff.) Barrel hoops, iron or steel	P 1921	<u>c</u>	107	313	C-4
Barrels	P 1921	D	171, 172	405, 406	D-2
Bars: Steel Wrought iron	P 1921 P 1921	ç	110	315	C-7 C-2
Barytes:		C	103	303	0-2
Crude	(P 1920 P 1921 P 1920	}A	51	69	A-4, T. I. S18 A-4,
Ground	(P 1921	} A	51	69	T. I. S18
Baskets: Bamboo, etc	P 1921	D	175	409	D-4
Leather	P 1922	N	360	1432	N-18
Bath mats, cottonBatteries, electric		I	264	**910, 1022 320	I-8 C-31
Batting, cotton Bauxite:	P 1922	Ĩ	264	**921	I8
Crude Refined	P 1921 P 1921	FL	411 6	207	C-16 A-3
Bay rum	P 1921	H	242	63	A-14
Beads Beams, iron or steel	P 1921	N	333 104	1403	N-1 C-3
Bean industry, American	P 1920			312	w.м.
Beens Beef and cattle industry. (See Cattle and beef in United States.)	In prog			763	
Beeswax	P 1921	FL	412	1458	FL-7
Beet sugar Belgium, colonial tariffs. (See Colonial tariff policies.)	P 1921	E	177	501	E-1
Belladonna leaves and roots	P 1921	A, FL.	{ **27, **477	36	A-7
Bell metal	P 1921	FL	413	1519	C-19
Bells Belting and sole leather	P 1921 P 1922	FL FL	413 **530	1519 **1606	C-19 N-15
Belting for machinery, cotton or other vegetable fiber.	P 1925	I	262	913	I-7
Belting, leather Belts and belting, silk	P 1922 P† 1922	N	360 316	1432 **1207	N-18 L-2
Belts, cotton	P 1925	I	262	**913	Ĩ-7
BenzidineBenzoic acid	In prog In prog			27 27, 28	
Bergamot oil	P 1921	A	46	1631	A-12
Beta-napthol	In prog P 1921	- <u>M</u>	323	27, 28 1304	М-3
Bibulous paper. Bicycles and finished parts of Billets, steel	P 1921	C	120	371	C-10
Billets, steel Billiard balls	P 1921 P 1921	C, FL.	110, 613	303, 304	C-7 N-7
Binetal sheets	P 1921	N C	341	1413 309	C-23
Bindings:		1	t		т
CottonSilk	P 1925 P† 1922	I L	262 316	**913 **1207	I-7 L-2
Silk Birch tar oil Birds, live bobwhite quail	P 1921	FL	561	**59	A-12
Birds, live bobwhite quai	P† 1925 P 1921	FL FL	416	711 377	R. P. FL-6
Salts of	P 1921	A	65	22	A-17
Bitumen Black pigments	P 1922	FL	534	1609 73	FL-7 A-15
Blacksmiths' hammers, tongs, etc	P 1921	A	11	13	A-5
Blacksmiths' hammers, tongs, etc	P 1921 In prog	c	122	326 502	C-9
Blackstrap molasses Bladders, integuments, tendons, and intestines	P 1921	FL	419	1655	N-19
of animals and fish sounds, n. s. p. f. Bladders, manufactures of	P 1921	N	367	1438	N-19
Blades, cutlery		ĉ	128-130	354, 356-358	C-13

Subject Tariff act of 1033 (block) Paragraph of ect of 1922 (block) Report No. Blanc five. Cotto P 1921. (block) A		,	. <u> </u>			
Subject Status ule Sched- ule Pars- graph act of 1922 Appert NU. Blanc faxe. P 1921. A. 51 69 A.44 Blanckets: P 1922. I.22 49 912.**021 K-24 Wooll. P 1921. C. FL 110.613 304 C-7 Blask size P 1921. A. 12 14 A.5 Blask files P 1921. A. 12 14 A.5 Blood obd, response (see Drug industry, crude botanical) P 1921. PL 440 1524 FL-5 Blood obd, field, n. s. p. f. Plost. FL 647 403, 1701 FL-5 Bolter, scion (sitks). Plost. Plost. FL 443 170 FL-5 Bolter, scion (sitks). Plost. Plost. FL 447 T1 A-15 Bolter, scion (sitks). See Drad sitks. Plost. 123 330, 304 N-24 Bolter, scion (sitks). See Drad sitks. Plost. 1237 ***			Tariff a	act of 1913		
Binkets: Coton p	Subject	Status				Report No.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		P 1921	A	51	69	Л-4
Blanks, stel. P	Cotton	P 1922				
Bilasting caps						
of wood. P 1922. FL. 447 71 A-15 Blood, dried, n. S. p. 1. P 1921. FL. 447 71 A-15 Blood, dried, n. S. p. 1. P 1921. FL. 447 71 A-15 Blood, dried, n. S. p. 1. P 1921. C, FL $\{110, 518, 1, 303, 304, 004. C-2, C-7 Blows, glassware. See Glassware. P 1922. FL. 647 403, 1700. FL. Bolting cloth (silk). (See Broad silks.) P 1922. C. 123 330 C-11 Bolting cloth (silk). (See Broad silks.) P 1922. C. 123 330 C-11 Bolts Bolts Bolts P 1922. FL 447 71. A-15 Bones. P 1922. FL 447 71. A-15 15 16 1207 FL 433 1526 FL-5 15 16 16 17 71. A-15 Bones. P 1922. FL 433 1437 $	Blasting caps	P 1921	N	346	1418	N-8
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Bleaching powder. Blinds of bamboo, wood, straw, or compositions of wood					
Blooms, iron or steel. P 1921. C, FL. $\begin{bmatrix} 116, 518, \\ 613, \\ 613, \\ 613, \\ 711, \\ 711, \\ 711, \\ 711, \\ 711, \\ 711, \\ 712, \\ 712, \\ 713, \\ 713, \\ 711, $	Blood char					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		D 1001	a nr	(110. 518.	303 204	0.007
Boards, sawed, planed, tongued and grooved. P 1922. FL. 647 403, 1700 FL.37 Boilers. P 1921. C. 105 307 C-4 Boilers. P 1922. C. 123 330 C-11 Boilers. P 1922. C. 123 330 C-11 Boilers. P 1922. C. 123 330 C-11 Boilers. P 1922. FL. 447 71 A-15 Done, sangs: P 1922. N. 368 1430 N-21 Cotton. P 1921. N. 368 1430 N-21 Book paper. P 1921. N. 453 1467 N-12 Books, apper and. (See Paper and books.) P 1922. FL. 430 N-17 Boras, crude and unnanufactured. P 1921. R. 467 N-18 Boras, refined P 1921. N. 367 **142 N-1.7 Borta scrude and unnanufactured. P 1921. N. 167<	-	P 1921	C, FL_		303, 304	C-2, C-7
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Boards, sawed, planed, tongued and grooved Bobwhite quail, live	P†1925	FL	647	711	R. P,
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Boiler plate				307	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Bolting cloth (silk). (See Broad silks.) Bolts			_		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		P 1922	FL	447	71	A-15
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Manufactures of, n. s. p. f					
Bones, crude, burned, calcined, etc. P 1921. FL. 423 1526 FL. Boonnes, fur. P 1921. N. 354 1427 N-13 Book paper P 1921. N. 354 1427 N-13 Books, paper and, (See Paper and books.) P 1922. FL. 530 **1631 M-2 Bootas and shoes. P 1922. FL. 530 **16431, **1606 N-17 Borax, erude and unmanufactured. P 1921. A. 1 I N-18 Borax, erude and unmanufactured. P 1921. A. 1 I A-1 Borta Flass P 1922. C. 164 301 Botte caps. P 1922. C. 164 301 C-28 Boxtes: P 1922. D. 172 406 D-2 Packing, empty. P 1922. M. 335 1305 M-4 Boxood, rough or sawed. P 1922. M. 324 1305, 1313 M-4 Braces: Cotton. P 1922. I. 264 331 C-48	Cotton		I			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		P 1921	FL			FL-5
Bookbinder's leather P 1922 FL. **530 **1431, **1606 N-17 Books, paper and. Gee Paper and books.) P 1922 FL. 530 1607 N-18 Boots, and shoes P 1921 FL. 429 1532 A-1 Borax, redue and unmanufactured P 1921 A 67 83 A-1 Bort. P 1921 N 357 **1429 N-1, B-3 Bott P 1921 N 357 **1429 N-1, B-3 Bottle caps. P 1921 N 357 **1429 N-1, B-3 Bottles, glass. P 1921 D 164 391 C28 Botts; glass P 1921 D 177 406 D-2 Packing, empty P 1921 D 177 406 D-2 Paper, papier-mâché, etc. P 1922 M 324 1305, 1313 M-4 Braces: Cotton Stauctures P 1921 D 166 327 C-39 Braks, old. P 1921 <td< td=""><td>Bonnets, fur</td><td>P 1921</td><td>N</td><td></td><td></td><td></td></td<>	Bonnets, fur	P 1921	N			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Bookbinder's leather		FL	**530	**1431, **1606	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Books, paper and. (See Paper and books.)	D 1090		1		NT 19
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Boots and snoes		FL			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Borax, renned		A	67	83	
Botanical drug industry, crude $\left\{ \begin{array}{c} P 1920 \\ P 1921 \\ P 1922 \\ P 1922 \\ P 1922 \\ P 1922 \\ P 1921 \\ P 1$						
Bottle caps P 1922 C 164 391 C-28 Bottles, glass P 1921 B 83,84 217 B-9 Boxes: P 1921 B 83,84 217 B-9 Containing oranges, etc. P 1921 D 172 406 D-2 Paper, papier-mâché, etc. P 1921 D 171 405 D-2 Paper, papier-mâché, etc. P 1921 D 171 406 D-2 Bradismachines. P 1921 D, FL 169,648 403 D-1 Bradis iron or steel P 1921 FL 554 331 C-4 Bratismachines. P 1921 FL 430 1533 C-19 Brass rolling-mill products. P 1921 FL 430 1533 C-10 Bracesite P 1921 FL 430 1533 C-10 Bracesite P 1921 G **226 755 G-34 Breccia: P		JP 1920		007	1720	∫ A -7,
Bottles, glass P 1921 B 83,84 217 B-9 Boxes: Containing oranges, etc. P 1921 D 172 406 D-2 Packing, empty P 1921 D 171 405 D-2 Packing, empty P 1921 D 171 406 D-2 Braces: P 1921 D 171 406 D-2 Cotton Silk P 1921 D, FL 169, 648 403 D-1 Brads, iron or steel P 1921 FL 316 1207 L-2 Brads, iron or steel P 1921 FL 316 1207 L-2 Brass rolling-mill products P 1921 FL 430 1533 C-19 Bratice cloth P 1921 C 167 396 C-19 P 1921 B 97 232 B-11 Manufactures of P 1921 B 97 232 B-11 Manufactures of P 1921 B 97 232 B-11 Refractory Chrome P 1921 B <td></td> <td>{(1 1041</td> <td>C</td> <td>164</td> <td>391</td> <td></td>		{(1 1041	C	164	391	
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Brass rolling-mill products. P 1921 C 167 396 C-19 Bratitice cloth P 1922 279 1010 J-7 Brazil nuts P 1921 G **226 755 G-34 Breccia: P 1921 B 97 232 B-11 Manufactures of P 1921 B 98 233 B-11 Brick: Refractory Chrome P 1921 B 98 233 B-11 Magnesite Structural Common Sand-lime P 1921 B 71 201, 1536 B-1 Brier root and brierwood P 1921 B 71 201, 1536 B-1 Bristles: Not sorted, etc P 1921 D 168 402 N-26 Bristlobard P 1921 N 3337 1406 N-4 Sorted, etc P 1921 M 328 1302, 1307 M-4 Sorted, etc P P 192	Braid machines	P 1921	l C	165	372	
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Brenze powders. Broom handles. Brooms. Brush industry (report).	P 1921 P 1921 P 1922 P 1921 P 1921 P* 1918	C FL FL N	146 434 647 336	382- 1538 **410 1407	C-18 N-3 FL-37 N-3 T. I. S8
Brushes Brushes, carbon electric Brussels carpets and rugs Buchu leaves. Buckles of iron or steel	P 1921 P 1921 P 1923	N B K A	336 81 295 39	1407 216 1117 36	N-4 B-8 K-6 A-7, A-10
Buckram. Budding knives. Building forms, iron or steel	P 1922 P 1921 P 1921	C. J, FL. C	151 279,408 128 104	346 907 354 312	C-20 J-7 C-13 C-3
Building stones Bulb beams, iron or steel Bulbs, incandescent. Bullions Burgundy pitch	P 1921 P 1921	B C B C C FL	99 104 95 150 437	235 312 229 385 1540	B-11 C-3 B-9 C-18 FL-2
Burlap Burrstones: In blocks Manufactured	P 1922 P 1921 P 1921	J, FL_ FL FL	279, 408 614 438	1675 234	FL-2 J-7 B-3 B-3
Butter and butter substitutes Butter and butter substitutes Button industry (report) Butyl alcohol	P 1926 P 1921 P* 1918 P 1921	G G	195 195 **33	709 709 4	R. P. G-7 T. I. S4 A-9
Butyraldehyde	P 1925 P 1921	G D,FL FL	212 169, 648 439	2 762 403	G-17a D-1
Cadmium Cadmium sulphide Caffeine and compounds Cajeput oil Calcined magnesia	P 1922 P 1921	A A FL A	439 **63 13 561 42	378 **68 15 **59 50	FL-6 A-15 A-5 A-12 A-10
Calcium: Acetate Carbide Chloride Cyanamide	P 1921	FL FL FL FL	440 440 440 499	1541 16 1541 1541	A-2 FL-8 FL-8 FL-5
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Calomel Cameras. Camphor Canada balsam. Canada, reciprocity with	P 1921 P 1921 P 1921	A N A A	14 380 36 9	$ \begin{array}{r} 17 \\ 1453 \\ 52 \\ 10 \end{array} $	A-5 N-25 A-9 A-3 M.S.
Candle wicking, cotton Candy, sugar Cane sirup Cane sirup and edible molasses	P 1925 P 1921 In prog In prog	I E	262 180	913 505 501, 502 502	I-7 E-2
Cane sugar Canes and umbrellas Caraway oil	{P 1921 {P 1926 P 1921 P 1921 P 1921	}e N A	177 383 46	501 1456 1631	E-1, R. P. N-27 A-12
Carbolic acid. (SeePhenol.) Carbon: Brushes, disks, plates, and other manufac- tures.	{P 1921 P 1922 P 1921	}B	81, 82	216	B-8, C-31
Electrodes for electric furnaces, etc Miscellaneous electrical specialties Pots, porous	\P 1922 {P 1921 {P 1922 P 1921 P 1921	}B }B B	81 81, 82 82	216 216 **216	B-8, C-31 B-8, C-31 B-8
Tetrachloride Unmanufactured Carbonized noils	P 1921 P 1921 P 1926	A B FL	19 81 651	18 {**214, **216, **1459 1105	A-6 B-8 FL-40
Carbons: Arclamps Effectric lighting, composed of petroleum coke and of lampblack.	P 1921 P 1921 P 1921	B B	82 82	216 **216	B-8 B-8
Card clothing Cardboard Cardboard Cardboard , cut, die-cut, etc	P 1921 P 1921 P 1921 P 1922	C FL M M	124 595 328 332	337 779 1302 1313	C-8 A-7, FL-2 M-1 M-4

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Rugs):					14.1	
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Brussels Chenille Axminster	P 1923 P 1923	<u>к</u>	295 293	1116	· K-6 K-6	
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Tapestry Brussels		K	297	1117	<u> </u>	
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Wilton Wool, n. s. p. f	P 1923 P 1923	К К	294 302 , 3 03	1117 1117	K-6 K-6	
Woven whole for rooms, and oriental, Berlin,	P 1923	ĸ	302, 303	1116		
Aubusson, Axminster, and similar rugs.					}	
Cartridges, loaded and empty Car-truck channel of iron or steel Cascara sagrada. (See Drug industry, crude	P 1921 P 1921	N C	346 104	1418 312	N-8 C-3	
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Casein	∫P 1921)	FL	527	19	FL-15,R.P.	
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Cash registers	P 1922	FL FL	**530 441	1431 372	N-16 FL3	
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Cassava. (See Starch and related materials.)	1 1021					
Cassia oil		A	46	1631	A-12	
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Cast polished plate glass. (See Reports to		1			1	
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Castor or castoreum	P 1921	ĔL	442	61	FL-2	
Castor oil	P†1921	A	45	54	A-11	
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its effect on.) Cattle and beef in the United States	P 1922	FL	619	701	T. I. S30	
Cattle hair, n. s. p. f Cattle industries of the United States and Canada	P 1921	FL	503	1586	N-12	
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Cedar, rough or sawed	P 1921 P 1921	D, FL	169, 648 46	401, 403, 1700 **59	D-1 A-12	
Cedrat oil Cellophane	P 1925	A	**34	1213	L-4	
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Cement:		1				
Copper	P 1921		461	1556		
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Roman, Portland, and other hydraulic Census of dyes and coal-tar chemicals:	1 1021					
1917	P* 1918				T. I. S6	
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1920. Census of dyes and other synthetic organic	F 1941			· • • • • • • • • • • • • • • • • • • •	1. 1. 520	
chemicals.	1	1				
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Cerium nitrate	P 1921	A	5	90	C-22	
Cerium salts	P 1921	A	1 -			
Certain vegetable oils (coconut, cottonseed, pea- nut. soya bean).	P†1926			. 55	(1)	
Part I. Cost of production.			1		1	
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the prices and interchangeability of oils and	1		1		1	
fats. Chains, iron or steel	D 1001	0	126	329	C-12	

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¹ Preliminary statement of information.

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tariff policies.) Grindstones Grit, iron or steel	P 1921 P 1921	В С	100 112	236 335	B-3 B-3
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Guano	P 1921	FL	499 36	1583 11	FL-5 A-9
Gun blocks, wood Gun wads Gunpowder	P 1922 P 1921	FL N FL	647 350 501	1700 1423 1585	FL-37 N-11 FL-18
Gurjun balsam Gutta-percha: Crude	P 1921	A FL	**9	**10 1594	A-3 FL-17
Manufactures of	P 1921	N B	368 74	1439 205	N-21 B-2
H-acid Hair and manufactures	In prog P 1921	N	351,352,	27 1424,1425,	N-12
Haircloth Hammers, blacksmiths', etc Handbook of commercial treaties between all na-	P 1921	N C	503 353 122	1586 1426 326	N-12 C-9 M. S.
tions (report). Handkerchiefs:	P† 1922	 			WI. 5,
CottonSilk		I L	255 315	918 1209	I-5 L-2
Handle bolts Hardware, umbrella	P 1922 P 1921	FL	647 141	1700 342	FL-37 C-8
Hare, skins of Harness and saddle leather	P 1921	FL FL	603 **530	1579 **1606	N-10 N-15
Harness and saddlery	P 1922	<u>FL</u>	530	1436, 1606	N-18
Hassocks Hat bands, silk	P 1923 P† 1922	K	303 316	1118 **1207	K-6 L-2
Hat braids, ramie	P 1921	N	334	1404	N-2
Fur Men's sewed straw		N	354 335	1427 1406	N-13 R. P.
Straw Hatters' plush	P 1921	N N	335 382	1406 1206	N-2 L-1
Hay. (See Agricultural staples and the tariff.) Heading blocks, wood	P 1922	FL	647	404	FL-37
Heading bolts, wood Healds, cotton Healing plasters	P 1925	I	647 262 50	404 913 66	FL-37 I-7 A-14
Hemlock: Bark	P 1921	FL		1568	À-8
	1 70 1001	FL	624	39	A-8
Extract Hemp (see also Woven fabrics)	P 1921 P 1925	FL		1001	FL-16

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Henequen	P 1925	FL	**497	1582	FL-16
Herring oil Hexamethylenetetramine	P† 1921 In prog	A	44	53 41	A-11
Hide rope Hides and skins	P 1922 P 1922	FL FL	505 ∫ 506,603,	**1588	N-18 T. I. S. 28
Hinges.	P 1922	C	1 604 123	} 1589, 1666 **399	C-11
Hobnails Hogsheads Hollow ware:	P 1921 P 1921	FL D	554 171	331 405	C-8 D-2
Aluminum Cast iron or steel		C	134 125	339 327	C-16 C-11
Enameled iron or steel	P 1921	C	134	339	C-15
Hones Honey		FL G	507 206	1590 716	B-3 E-2
Hoods, fur Hoofs, unmanufactured	P 1921	N	354	1427	N-13
Hoois, unmanufactured Hooks and eyes	P 1921 P 1922	FL	508 151	1591 347	FL-5 C-20
Hoop iron or steel	P 1921	Ċ	107, 109	309, 313	C-4
Hoop poles, wood Hop poles, wood	P 1922	FL FL	647 647	**410 **410	FL-37 FL-37
Horns, and parts of	P 1921	FL	511	1592	N-21
Horsehair, artificial Horsehair, n. s. p. f	P 1925 P 1921	L FL	319 503	1213 1586	L-4 N-12
Horseshoe-nail rods	P 1921	FL	554	**315	C-8
Horseshoe nails Hose for liquids or gases:	P 1921	FL	554	331	C-8
Cotton, wholly or in chief value	P 1923	J	274	1007	J-4
Rubber, chief value Other vegetable fiber, wholly or in chief value.	P 1923 P 1923	N J	**368 274	**1439 1007	J-4 J -4
Hosiery: Cotton	{P 1923	} ₁	259, 260	916	I-6, R. P.
Silk	\P 1929 P† 1922	, Ъ	**317	1208	L-2
Wool	P 1921	K	288	1114	K-3
Hospital utensils Hubs for wheels, wood	P 1922 P 1921	C	134	339 404	C-15 FL-37
Human hair. Hydrastis. (See Drug industry, crude botanical.)	P 1921	N	351	1424	N-12:
Hydrated lime	P 1921 P 1921	B FL	73 387	203 1501	B-2 FL-1
Hydrochloric acid Hydrocyanic acid	P 1921	FL	387	**1	' FL-1
Hydrofluoric acid	P 1921	FL	387	1501	FL-1
Hydrogen peroxide Hydrogenated oils. Hyoscyamus. (See Drug industry, crude bo- tanical.)	In prog In prog			557	
Hyposulphite of soda. (See Sodium sulphite.)	-				
Ice Ichthyol oil	P 1921 P 1921	FL	512 561	1593	FL-6 A-12
Ignition apparatus	P 1922	0	167	399	C-31
Imports and exports, textiles, 1891-1927	(P 1929 (P 1920	h			M.S.
Incandescent gas mantle industry	P 1921	}			T.I.S14
Incandescent lamps, electric Incandescent light bulbs	F 1921	B B		229 229	C-31 B-9
Index to foreign periodicals	P 1926				M. S.
India rubber: Crude and scrap Manufactures of, n. s. p. f	P 1921 P 1921	FL N	513 368	1594 1439	FL17 N-21
Indigo: Natural	P 1921	FL	514	28	A-8
Synthetic Indurated fiber ware	In prog P 1921		355	28 1303	N-11
Industrial alcohol	In prog			4	
Infusorial earth Ingots, steel	P 1921	FL C, FL	**549 110, 613	**1619 304	B-3. C-7
Ink and ink powders. Insect powders. (See Drug industry, crude	P 1921	A	37	28, 44	A-9
botanical.) Insulated wires and cables	P 1921	c	114	316	C-8
Integuments	P 1921	FL	419	1655	N-19
Interim legislation (report) International commercial law. (See Handbook	P 1917				/ M. S.
of commercial treaties.) Intestines of animals and fish sounds	P 1921	<u>FL</u>	419	1523, 1655	N-19
Iodine, crude or resublimed	P 1921	FL	515	45, 1595	A-9
Iodoform	P 1921 P 1921	A FL	38 516	**5 35, 1502	A-9 A-7, FL-2
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lium, crude	P 1921	FL	517	1596	FL-2
Band	P 1921.	C, FL_	<i>{</i> 107, 109,	309, 313, 314	C
Bars	P 1921	C	t 509 103	303	C-:
Blooms	P 1921	FL	518	303	Č-
Castings	P 1922	<u>C</u>	125	327	C-1
Chromite of Hollow ware, cast	P 1921 P 1922	FL C	448	1547 327	FL-2 C-1
H00D	P 1921.	FL	509	314	Č-
Kentledge. (See Pig iron.)	P 1921	FL	518	303	C
Loops Malleable castings	P 1922	г <u>р</u>	125	303	C-1
Ore	P 1921	FL	518	1597	FL-2
Oxide	P 1922 P 1922	A	55	1677	A-1
Oxide pigments, n.s.p.f		A	55	75	A-1
Pigs	\P†1927	}FL	518	301	FL-21, R.P
Round.	P 1921 - P 1921	C FL	103	303 301	C-: FL-2
Scrap, wroughtSlabs	P 1921	FL	518 518	303	г 1 С
Sulphate or copperas	P 1921.	FL	462	**1573	FL-(
Sulphuret of Wrought	P 1921 P 1921	FL FL	617 518	1677 301	FL-1 FL-2
n in pigs. (See Reports to President, and	1 1021	r D	516	801	F 11-21
ig iron)					
n or steel: Air rifles	P 1921.	c	132	1414	C-14
Anchors	P 1921	č	106	319	Č-
Angles	P 1921	C	104	312	C-
Antifriction balls and bearings Anvils	P 1921 - P 1921 -	C	106 118	321 325	C-4 C-1
Automobiles and parts	P 1921	č	119	369	C-1
Axes		C	**167	**399	C-1
Axles Ball bearings	P 1921 P 1921	с	121 106	323 321	C-1(C-8
Barbed wire	P 1921	FL	645	1697	č-e
Barrel hoops	P 1921	C	107	313	C-4
Beams Bicycles and parts thereof	P 1921 - P 1921	С	104 120	312 371	C-3 C-1
Billets	P 1921	C, FL.	110, 613	303, 304	C-3
Blacksmiths' hammers, tongs, and sledges	P 1921 P 1921	g	122	326	C-1 C-1
Blades, cutlery Blanks	P 1921	C. C,FL	128-130 110, 613	354, 356 304	C-1
Blooms	P 1921	C, FL.	∫ 110,518,	} 303, 304	C-2, C-7
Brads	P 1921	FL	1 613 554	331	C-4
Budding knives	P 1921.	C	128	354	C-1
Building forms	P 1921	C	104	312	C-
Bulb beams	P 1921 P 1921	С С	104 124	312 337	C-4
Car-truck channels	P 1921	č	104	312	C-
Chains	P 1921	g	126	329	C-1
Channels Clasp knives	P 1921 P 1921	C	104 128	312 354	C-1 C-1
Columns and posts	P 1921	C	104	312	Č-
Cotton ties	P 1921	FL	509	314	C-
Crowbars Deck beams	P 1921 P 1921	C	122 104	326 312	C- C-
Engraved plates Fence rods, wire	P 1921	č	137	341	C-1
Fence rods, wire	P 1921 P 1921	ç	113	315	
Files and file blanks Fishing tackle	P 1921	С С	131 136	362 344	C-1 C-1
Floats	P 1921	C	131	362	C-1
Flues Forgings	P 1921 P 1921	С	127 106	328	C-1
Frames	P 1921	č	100	319 312	C- C-
Frames Furnaces, welded, cylindrical	P 1921	C	127	328	C-1
Girders Grit	P 1921 P 1921	C	104	312	C-
Hobnails	P 1921	C FL	112 554	335 331	B- C-
Ноор	P 1921.	C, FL.		309, 313	Č-
Hollow ware, enameled	P 1921	Q	100 509 134	339	C-1
Horseshoe-nail rods	P 1921	FL	554	**315	C-1
Horseshoe nails	P 1921	FL	554	331	C-
Hospital utensils Joints	P 1921 P 1921	C	134 104	339	C-1 C-
Joists	P 1921	č	104	312 312	C-
	P 1921				

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n or steel—Continued.					
Motor cycles and parts	P 1921	0	120	369	C-10
Muskets	P 1921	C	132	364	C-14
Nail rods	P 1921.	C	113	315	O-8
Nuts.	P 1922	Q	123	830	C-11
Pipes Plates—	P 1921	с	127	328	C-12
Boiler	P 1921	o	105	307	C-4
Crucible steel	P 1921	č	105	**304	ŏ-4
Saw	P 1921	Č	105	**304	Č-4
Pocketknives	P 1921	C	128	354	C-18
Pruning knives	P 1921	0	128	354	C-13
Railway bars and rails	P 1921	FL	587	322	Q-(
Railway fishplates	P 1921	Ø	108	322	C-(
Railway wheels	P 1921	Q	142	324	C-1
Rasps	P 1921	g	131	362	C-1
Razors	P 1921	Q	128	358	C-1
Rifles.	P 1921	g	132	364, 365	C-14 C-8
Rivet rods	P 1921	с	113	315	
Rivets, lathed Roller bearings	P 1922 P 1921	č	138 106	332 321	C-11 C-1
Sand	P 1921	č	100	335	B-3
Sashes	P 1921	č	104	312	0-1 C-1
Saws	P 1921	ö	139	340	Č-
Scissors and shears	P 1921	ŏ	128	357	C-1
Scrap	P 1921	FL	518	301	FL-2
Screws	P 1921	Č	140	338	C-6
Scroll	P 1921	č	107, 109	309, 313	Č-4
			f105, 109,	n i	
Sheets	P 1921.	C	110	} 308-310	C-4
Shot	P 1921	C	112	335	B-3
Shotgun barrels	P 1921	FL	597	1661	C-14
Shotguns	P 1921	0	132, 133	364, 365	C-14
Side arms	P 1921	0	129	363	C-13
Skelp	P 1921	C	105	307, 308	C-4
Slabs	P 1921	<u>F</u> L	518, 613	303, 304	C-4
Spikes	P 1921	FL	554	331	C-8
Spiral nut locks	P 1921	Q	123	330	C-11
Splice bars	P 1921	C	108	322	C-e
Sprigs	P 1921	FL	554	**331	C-8
Sprocket chains	P 1921 P 1921	C	126	329	C-12 C-8
Staples		FL	554	331	C-12
Stays	P 1921	C	127	328	
Strips	P 1921	C	{105, 109, 110	313	C-4
Structural shapes	P 1921	C	104	312	C3
Studs	P 1922	č	138	332	C-11
Swords and sword blades	P 1921	č	129	363	Č-13
Table utensils	P 1921	ŏ	134	339	Č-15
Tacks	P 1921	FL	554	331	C-8
Taggers tin	P 1921	C	109	310	C-4
Tanks	P 1921	l 0	127	328	C-1
Terneplate	P 1921	C	109, 115	310, 311	C-
Ties, cotton	P 1921	FL	509	314	C
Tin plate	P 1921	C	109, 115	310, 311	C-
Tires, locomotive	P 1921	C	142	324	C-1
Track tools	P 1921	C	122	326	C-
Tubes, finished, n. s. p. f	P 1921	C	127	328	C-1
Tupes, welded	P 1921	Q	127	328	C-1
Umbrella hardware	P 1921	Q	141	342	C-
Vessels, cylindrical or tubular	P 1921	0	127	328	C-1
Washers	P 1922	C	123	330	C-1
Wedges	P 1921	C	122	326	C-4
Wire— Barbed	P 1921	FL	045	1697	c⊣
Flat	P 1921	FL.	645 645	317	Č-
Insulated cable	P 1921	C	114	316	ŏ-
Fencing	P 1921	FL	645	310	č-
Heddles or healds	P 1921	C	114	316	Č-
Manufactures of, n. s. p. f.	P 1921	0	114	**399	Č-
Rods	P 1921	č	113	315	Ŭ,
Rope and strand	P 1921	0	114	316	č-
Round	P 1921	č	114	316	Č-i
m-oxide pigment, n. s. p. f	P 1922.	Ă	55	75	A-1
n sulphate or copperas.	P 1921	FL.	462	1573	FL-8
nglass	P 1921	A	34	42	A-9
		FL	497	1582	FL-1e
le or Tampico fiber	P 1925	F L/	1 101	1002	

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Ivory and manufactures of, n. s. p. f	P 1921	N	369	1440	N-21
Ivy or laurel root	P 1921 P 1921	D	168	402	N-26
Jacquard designs, paper. Jalap	P 1921		328 519	35, 1502	M-7 A-7, FL-2
Japan, colonial tariffs. (See Colonial tariff policies.)					
Japan, foreign trade of					M.S.
Japan: trade during the war (report) Japanese cotton industry and trade	P 1919.				M. S. I-10
Jasmine oil	P 1921	A	46		A-12
Jet: Manufactures of	P 1921	В	98	233	B-11
Unmanufactured	P 1921.	FL	520	1599	N-1
Jewelry and parts and findings	P 1921	N	356	1428	N-1
Joists, iron or steel Joss sticks and light	P 1921 P 1921		104 521	312 1600	C-3 N-8
Juniper oil	P 1921	A	46	**59	A-12
Jute and jute butts	P 1925	FL	497	1582	FL-16
Jute bags or sacks	P 1923	J	281, 284	1018	J-9
Jute cloth	P 1922	J, FL	$\begin{cases} 279, 284, \\ 408 \end{cases}$	1008-1011, 1019	} J-7
Jute webbing	P 1922	J	278	1015	´
Jute yarn	P 1921	J	267	1003	J-1
Kainite Kaolin (see also China clay)	P 1921 P 1921	FL B	525 76	1645 207	A-16 B-4
Kaolin		D	70	207	
Kapok	P 1925	FL	**497	**1582	FL-16
Kauri		FL	500	1584	FL-17
Kelp Kentledge. (Sce Pig iron.) Kid skins. (See Leather.)	P 1921	FL	523	1602	A-16
Kieserite	P 1921	FL	524	1603	FL-22
Kindling wood Kitchen utensils Knit goods:	P 1922 P 1921	FL C	647 134	**410 339	FL-37 C-15
Cotton	P 1923	I	${259-261, \ **266}$	} 914-917	I-6
Silk		L	317, 318	1208	L-2
Wool		K	288, 291	1114	K-3
Knitting machines Knives, pen, pocket, etc		C	**167 128	**372 354	C-29 C-13
Labels for garments	P 1925	Ĭ	262	913	I-7
Lac, shell	P 1921	FL	526	1604	FL-17
Lace machines and parts of	In prog P 1921	C	165	1430 372	C-29
Lacings, boot, shoe, and corset	P 1925	I	262	913	I-7
Lactarene	P 1921	FL	527	19	FL -15
Lactic acid Lahn	P 1921 P 1921	A C	1 150	1 385	A-1 C-18
Lake fish	P 1927	G.FL.	216, 483	717, 718, 720	T. I. S36
Lame	P 1921	C	150	385	C-18
Lamp wicking	P 1925 P 1922	I B	262 95	913	I-7 C-31
Lamps, incandescent Lancewood, rough or sawed	P†1921	D, FL	169, 648	229 403	D-1
Lanolin	P 1921.	A	44	**53	A-11
Last blocks, wood	P 1922 P 1922	FL	647	404	FL-37 FL-37
Lavender oil	P 1922	FL	647 46	1700 1631	A-12
Lavender oil Laws relating to Tariff Commission (English)	P 1923				M. S.
Laws relating to Tariff Commission (French)	P 1925				M. S.
Laws relating to Tariff Commission (German)	P 1925.				M. S.
Acetate	P 1922	A	57	47	A-15
Arsenate	In prog			47	
Articles of Manufacturers of, n. s. p. f	P 1921 P 1921	C	153 **167	393 **399	C-21 C-21
Metailic	P 1921	č	**153	**399	C-21
Nitrate of	P 1921	A	57	47	A-15
Ore Oxides	P 1921 P 1922	C	152 56	392	C-21 A-15
League of Nations mandates. (See Colonial tariff policies.)	1 1922	A		79	A-13
Leather: Bags, baskets, and belts	P 1922.	N	360	1490	NT 10
Belting and sole	P 1922	FL	**530	1432 **1006	N-18 N-15
Bookbinder's	P 1922	FL	**530	**1606	N-15 N-17
Boot and shoe cut stock	P 1922.	FL	530	1606	N-18
Boots and shoes Calf leather in United States, sales of foreign_	In prog	FL	530	1607	N-18
Controlounde de Canton Dintos, salos di Idielgi.	an brog	•			

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Leather—Continued.					
Case, bag, and strap Chamois	P 1922 P 1922	FL	**530 359	1431 1431	N-16 N-17
Fancy	P 1922	FL	**530	f **1431	} N-17
Glove	P 1922	N	359	1431 **1606	N-17
Gloves	P 1922		∫ 361365 ,	in l	N-11 N-18
		n, fl	\ 495	} 1433, 1580	4S. Doc. 217
Goat Harness and saddle	P 1929 P 1922	FL	**530	**1606	N-15
Harness and saddlery	P 1922	FL	530	1436, 1606	N-18
Hide rope Kid	P 1922 P 1020	FL	505	1588	N-18 S. Doc. 217
Kid Leather, n. s. p. f. Manufactures of, n. s. p. f.	P 1922	FL	530	1606	N-17
Patent	P 1922 P 1922	N FL	360 **530	1432, 1606 **1606	N-18 N-16
Pianoforte	P 1922	N	359	1431	N-17
Rough Shoe laces	D 1000	FL FL	**530 530	**1606 1606	N-15 N-18
Trunks and valises	TP 1022	N	360	1432	N-18
Upholstery Upper	P 1922	N, FL	359, **530 **530	1431, **1606 **1606	N-16
Leatherboard	D 1021	FĹ FL	530	1302, 1313	N-16 M-1
Leeches	TD 1001	FL	531	1608	FL-2
Lemon juice Lemon oil	P 1921	FL	532 46	1610 59	A-1 A-12
Lemon-grass oli	D 1091	A	46	1631	A-12
Lenses Levant wormseed. (See Santonin.)	P 1921	B	92	226	B-10
Licorice:					
Extracts of		A	40	48	A-7, A-10 A-7, A-10
Root Light bulbs, incandescent	P 1921 P 1921	A B	39 95	36 229	A-7, A-10 B-9
Light bulbs, incandescent Lighting fixtures. (See Electrical apparatus	F 1921				
and supplies.) Lignum-vitæ, rough or sawed	D 1001	D, FL	169,648	403	D-1
Lime	P 1921 P 1921	B	73	203	B-2
Lime Lime, citrate of Lime oil	P 1921	A	41 46	49	A-1 A-12
Limestone:	P 1921	A	40	. 1631	A-14
Building and monumental		B	99	. 235	B-11
Unmanufactured Limestone-rock asphalt		FL FL	614 534	203 1609	B-7 FL-7
Linen:	İ		(280, 283,	.	
Fabrics	i	J	284	} 1009-1013	J-8
Thread Linoleum and floor oilcloth	P 1922 P 1923	J	269	1004	J1 J5
Linotype composition	P 1929	J C	276 160	1020 393	C-17
Linotype composition Linotype machines	P 1921 P 1920	FL	441	1542	FL-3
Linseed oil	P 1921	. A	45	54	T. I. S20
T ith	P 1929	1			R. P.
Lithographic plates	P 1921	C FL	137 535	341 1612	C-15 C-15
Lithographic plates Lithographic stones Lithopone	(P 1920_)	A	61	79	(A-4
Lithopone industry, production costs in the	(P 1921_) P 1921			10	T. I. S18 T. I. S24
Litmus	P 1921	FL	536	1509	A-8
Live bobwhite quail	P†1925	Ċ	123	711 330	R. P. C-11
Lock washers	P 1921	č	**167	1437	C-30
Locomotives, steam	P 1921	C	165	372	C-29
Logs Logs of fir, spruce, cedar or Western hemlock	P 1922	FL	647	401, 1700 401	FL37 R. P.
Logwood:					-
Crude Extract	P 1921 P 1921	FL	**624 30	1568 39	A-8 A-8
London purple Loom harness	P 1921	FL	569	64	FL-8
Loom harness	P 1925 P 1921	I FL	262 518	913 303	I-7 C-4
Lumber, sawed, planed, tongued and grooved	P 1922	FL	647	1700	FL-37
Macaroni, vermicelli, and all similar preparations.	P 1921 P 1921	G	191 **46	725 **59	G-3
Mace oil Machinery:		A			A-12
Agricultural implements	P 1921 P 1921	FL	391	1504	FL-3 FL-3
Cash registers	E 1941	· F 10	441	372	· E 12~3

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Machinery-Continued.	D 1001				
Cotton gins Cotton machinery	P 1921 P 1921		391 **167	1504 **372	FL-3 C-29
Cream separators	P 1921	FL	441	372, 1504	FL-3
Embroidery machines	P 1921	C	165	372	C-29
Engines, internal combustion	P 1921 P 1921 P 1921	ç	**167	**372	C-29
Engines, steam Farm tractors	P 1921	FI.	165 **391	372 **1504	C-29 FL-3
Farm wagons	P 1921	FL	391	1504	FL-3
Knitting machines.	P 1921	C	**167	372	C-29
Lace and braid machines			165	372	C-29
Linotype machines Locomotives, steam	P 1921	Г <i>L</i>	441 165	1542 372	FL-3 C-29
Miscellaneous machinery	P 1921	C	167	372	Č-29
Printing presses	P 1921		165	372	C-29
Sand-blast machines			441	1542	FL-3 C-29
Sewing machines		FL.	441	372	FL-3
Silk machinery	P 1921	C	**167	**372	C-29
Sludge machines	P 1091	FL	441	1542	FL-3
Sugar machinery	P 1921	FL	391	1504	FL-3 FL-3
Tar and oil spreading machines Textile machinery (general)	P 1921 P 1921		441 167	1542 372	F L-3 C-29
Tools, machine.			165	372	Č-29
Typesetting machines	P 1921	FL		1542	FL-3
Typewriters Wool machinery	P 1921		441	1542	FL-3
Madder	P 1921 P 1921	C FL	**167 538	**372 **28	C-29 A-8
Magnesite. (See Mineral industries affected by the war.)					
Magnesite, crude and calcined	{P 1922 P 1928	}FL	539	204	FL-24,R.P.
Magnesite industry (report)	{P 1919 P 1920	}			W. M., F. C.
Magnesium:					í .
Carbonate	P 1921		42 143	50	A-10
Metallic Sulphate	P 1921 P 1921			375 50	C-16 A-10
Magnetite iron ore	P 1921	FL	537	1613	FL-21
Maguey	P 1925	FL	**497	**1582	FL-16
Mahogany, rough or sawed	P 1921 P 1922	D,FL	169, 648 125	403 327	D-1 C-11
Malleable-iron castings	F 1922		120	021	0-11
tariff.)					
Mandrake. (See Drug industry, crude botanical.) Manganese. (See Mineral industries affected by the war.)			i I		
Manganese and manganese-iron alloys	P 1921	C	**102	302	C-1
Manganese, borate, resinate, and sulphate	In prog_		- 	51	W. M.
Manganese ore Manganese, oxide and ore of	P 1919 P 1921	FL	540	302	FL-28
Mangrove:]		. 12
Bark		FL	**624	1568	A-8
Extract Manicure knives		FL	**624	39 354	A-8 C-13
Manila		FL		1582	FL-16
Manila or holt rope	P† 1927_		İ	1005	R. P.
Manna Manure, substances used only for	P 1921	FL	541	35, 1502	A-7, FL-2
Manure, substances used only for	P 1921 P 1921	FL	499 178	1583 503	FL-5 E-2
Maple sugar				503	Ē-2
Marble:	Ì	1	5		
Crude and dressed	P 1921		97 98	232	B-11
Manufactures of	Me	В	80	233	B-11
Marjoram. (See Drug industry, crude botanical.)					[
Marrons	F 1921	FL	557	1546	G-34
Marshmallow or althea root, leaves and flowers_	P 1921 P 1921	FL		1615	FL-15
Marshmanow of althea root, leaves and howers	P 1921	N		35, 1502 1303	A-7, FL-2 N-22
Masks	P 1921	N		1417	N-8
Masks	1 1041		t		
Masks Matches Matting and mats (see also Carpets, Floor cov-	1 1921			1	
Masks Matches. Matting and mats (see also Carpets, Floor cov- erings, and Rugs):		N	971	1000	
Masks. Matches. Matting and mats (see also Carpets, Floor cov- erings, and Rugs): Coccoa fiber and rattan	P* 1921.	N	371 302	1023	
Masks. Matches. Matting and mats (see also Carpets, Floor cov- erings, and Rugs): Cocca fiber and rattan. Cotton	P* 1921. P* 1921.	K	371 302 272	1023 1022 1022	J-3
Masks. Matches. Matting and mats (see also Carpets, Floor cov- erings, and Rugs): Coccoa fiber and rattan. Cotton. Straw, grass, and other vegetable substances. Medals.	P* 1921. P* 1921. P* 1921. P 1921	K J FL	302	1022	J-3 J-3
Masks. Matches. Matting and mats (see also Carpets, Floor cov- erings, and Rugs): Cocoa fiber and rattan. Cotton. Straw, grass, and other vegetable substances. Medical instruments and apparatus.	P* 1921. P* 1921. P* 1921. P 1921 In prog.	K J FL	30 2 272 546	1022 1022 1617	J-3 J-3 N-24
Masks. Matches. Matting and mats (see also Carpets, Floor cov- erings, and Rugs): Coccoa fiber and rattan Cotton. Straw, grass, and other vegetable substances. Medals. Medical instruments and apparatus. Medicinal compounds. n. S. D.	P* 1921. P* 1921. P* 1921. P 1921 In prog. P 1921	K J FL	302 272	1022 1022	J-3 J-3 N-24 A-3
Masks. Matches. Matting and mats (see also Carpets, Floor cov- erings, and Rugs): Cocoa fiber and rattan. Cotton. Straw, grass, and other vegetable substances. Medical instruments and apparatus.	P* 1921. P* 1921. P* 1921. P 1921 In prog. P 1921 P 1921 P 1921	K J FL A	30 2 272 546	1022 1022 1617 5 1454	J-3 J-3 J-3 N-24 A-3 A-6 N-20

		Tariff a	ct of 1918.	Demonstration		
Subject	Status	Status Sched- ule		Paragraph of act of 1922	Report No.	
Men's sewed straw hats	P 1926	N	335	1406	R. P.	
Menthol	P 1921 P 1921	A A	48 14	52 17	A-10 A-5	
Mercury. (See Quicksilver.)						
Mesothorium Metal manufactures, miscellaneous	P 1921 P 1921	FL C	**585 167	1650 399	C-22 C-30	
Metal powders, metal leaf, and tinsel products	P 1921	C	150	385	C-18	
Metal threads	P 1921	C	150 146	385	C-18 C-18	
Metallics Meterological instruments	In prog.			382 360, 399	0-10	
Methanol (methyl alcohol)	P 1921	}FL	393	4	A-2, R. P.	
Mica.	P 1921	B	77	208	B- 5	
Microscopes (see also Scientific instruments) Milk, sugar of Milk and cream:	P 1921 P 1921	B FL	94 547	228 **504	B-10 FL-15	
Fresh	{P 1921 P 1929	}FL	547	707	G-7, R.P.	
Preserved or condensed Mill shafting	P 1921	FL	547	708	<u>G-7</u>	
Mill shafting Millinery ornaments	P 1921 P 1921	C N	110 347	304 1419	C-7 N-9	
Millstones. Mineral industries affected by the war, industrial	P 1921	FL	438	234	B-3	
Mineral industries affected by the war, industrial readjustment of (report). Antimony		c	144	396	T. I. S21	
Chromite	P 1920	FL	448	1547	T. I. S21	
Graphite Magnesite	P 1920	FL	579 539	213 204	T. I. S21 T. I. S21	
Manganese	P 1920	FL	540	302	T. I. S21	
Potash Pyrites	P 1920 P 1920	FL	617	1677	T. I. S21 T. I. S21	
Ouicheilvor	P 1020	C	159	386	T. I. S21	
Sulphur	P 1920 P 1920	FL FL	617 633	1677 302	T. I. S21 T. I. S21	
Sulphur. Tungsten. Mineral salts obtained by evaporation	P 1921	FL	548	1618	FL-22	
Minor metals (report)	P 1921		95		FL-6	
Mirrors, small Mohair	In prog.			230 1102	· B-9	
Molasses:		Į į				
Blackstrap Edible	P 1921		177	502 502	E-1 E-1	
Molybdenum	P 1921	C	102 **549	302	C-1	
Molybdenum ore Monazite sand	P 1921 P 1921		154	302 1621	FL28 C22	
Monumental stone (see also Granite)	P 1921	B	99	235	B-11	
Mop cloths, cotton Moquette carpets. (See Carpets.) Morphine. (See Opium.)	P 1922	I	264	912	I-8	
Moss, seaweed, etc.: Manufactured	P 1921	N	372	1442	N-22	
Unmanufactured Most-favored-nation clause. (See Handbook of commercial treaties.) Mother-of-pearl and shell:	P 1921	FL	552	1622	N-22	
In natural state	P 1921			1638	N-21	
Manufactures of, n. s. p. f	P 1921 P 1921	N		1440 1452	N-21 N-25	
Motor cycles and parts	. P 1921	. C	120	369	C-10	
Mungo Muriatic acid			651 387	1105 1501	FL-40 FL-1	
Mushrooms	P*1921	. G		766	Ğ-9	
Musical instruments		N	373	1443	N-23	
Musk, grained or in pods Muskets	P 1921 P 1921		49	61 364	A-14 C-14	
Myrobalan: Fruit		l l				
Extract	. P 1921	FL	**624	1568 39	A-8 A-8	
Nail rods	P 1921	. C	113	315	A-8 C-8	
Nails, cut, horseshoe, and wire Narrow wares:	P 1921	FL	554	331	C-8	
Cotton	P 1925 P†1922	I	262 316	913 1207	I-7 L-2	
Silk Natural dyes. (See Tanning materials.)						
Naval stores Navigation instruments other than optical Needles:	In prog.			1688 399	FL-17	
Hand sewing and darning				1623	C-15	
Knitting or sewing machine Neroli oil	P 1921 P 1921			343 1631	C-15 A-12	

Studiet Studiet Studiet Para- uls act of 1922 Pepor No. Net machines. (Cetaling: Containg: Cont			Tariff a	act of 1913		
Nets, fishing: Cotton p <th>Subject</th> <th></th> <th></th> <th></th> <th>Paragraph of act of 1922</th> <th>Report No.</th>	Subject				Paragraph of act of 1922	Report No.
$\begin{array}{c} Cotton & p. 1923 & 1 & & 2966 & 1006, 1262 & p. 1. & 1.25 \\ Plax, here, rame & p. 1921 & FL & & 567 & 1067, 1262 & p. 1.26 \\ New Zealand flax & p. 1921 & FL & & 567 & 1672 & Mar Machael and the set of the set o$		-				
Figs, here, p. ramle. P 1923. J. 271 1006, 1634 J2 New Zeiland fax. P 1921. FL. 657 1652 FL. 657 1672 New Zeiland L, oxide, alloys, sheets, and strips. P 1921. C. 155 390 C-23 Manufactures, n. s. p. I. P 1921. FL. 656 1634 C-23 Niter caks. Ges and matte. P 1921. FL. 651 1105 FL-0 Nolis: Carbonized wool. P 1922. FL. 651 1105 FL-0 Nolis: Carbonized wool. P 1921. FL. 651 1105 FL-1 Nutrails all cices, jewilry. P 1921. FL. 631 1201, *103 FL-1 Nutrails circais of . P 1921. FL. 634 1634 A-1 Nutrails all cices, jewilry. P 1921. FL. 634 A-1 A-1 Nutrails all cices, wood. P 1922. FL. 634 A-5 A-7 FL-2	Nets, fishing:	P 1923.	I	**266	**921	J-2
New Zealand flax P	Flav hemn ramie	P 1923	J	271	1006, 1624	J-2
Nickei: p 1921. C 155 390 C-23 Manufactures, n. s. p. I. p 1921. C 155 390 C-23 Dress and matte. p 1921. C 166 361 C-3 Nitre cacke. (See Softum sulphate.) p 1921. FL. 655 1100 FL-40 Nolis: Carbonized wool. p 1922. FL. 651 1100 FL-40 Voreity articles, iswelry. P 1921. FL. 634 163 A1 Nutragils. P 1921. FL. 645 1201.**063 A1 Nuts. P 1921. FL. 624 1265 A1 Nuts. P 1921. FL. 624 1264 A1 Nuts. P 1921. FL. 624 126. A7 Oak and oatmeal. P 1922. FL. 624 30. A7 Oak and oatmeal. P 1922. FL. 625 75 A-7	New Zealand flax	P 1925	FL			
$\begin{array}{c} Cast metal, oxide, alloys, sheets, and strips. \\ \mbox{Maufactures, n. s. p. 1$		F 1941	F 1/	507	1072	W1-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Cast metal, oxide, alloys, sheets, and strips		C			C-23
Nippers. P	Manufactures, n. s. p. 1	P 1921	E EL			
Nitre cake. (See Softum sulphate.). P P1921. FL 387 1500 FL-100 Nolic: P1926. FL 651 1105 FL-465 Noreity articles, tevely P1921. J. J. FL. 311, **969 1201, **1663 A-1 Nutrgalls, extracts of P1921. FL 634 14A A-1 Nutrgalls, extracts of P1921. A	Nippers					C-9
Nois: Carbonized wool	Niter cake. (See Sodium sulphate.)		TT		1601	ET 1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		I 1921	F 1/	307	1501	FL-1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Carbonized wool		FL			FL-40
Novelty articles, jewelry P P1221 N S256 1422 N Nutgalls, extracts of P P121 A 30 1 A Nutgalls, extracts of P P121 A 30 1 A Nuts, ion and steel P P1221 G, FL (223, 524, 754, 755, 758, 758, 758, 759, 758, 759, 758, 759, 758, 759, 758, 759, 758, 759, 758, 759, 758, 759, 756, 750, 750, 750, 750, 750, 750, 750, 750						
Nutgalls. P $P_1 P21$ <	Novelty articles, jewelry	P 1921	N	356		
Nutting oil P <t< td=""><td>Nutgalls</td><td> P 1921</td><td></td><td></td><td></td><td></td></t<>	Nutgalls	P 1921				
Nuts. P 1921 G, FL. $\{225, 224, 163, 785, 785, 785, 785, 785, 785, 785, 785$	Nutralis, extracts of	P 1921	A	**46		
Nuts, iron and steel P			G.FL	<i>{</i> 223, 224,	754, 755, 758,	0_34
Nux vomica P P P P P S58 1627 A-7, FL-2 Bark P P P FL 558 1628 A-7, FL-2 Oakum P P P FL 559 1628 A-7, FL-2 Oakum P P P 550 1628 FL-14 550 Oakum P P P 1222 FL 559 1628 FL-14 Odarlferous substances, preparations, and mix-tures. (See Perfumery.) P 1921 FL 367 1501 FL-1 Olicoths (except sik olicioths and olicoths for floors). P 1922 J 254 907 1-4 Olisoreading machines P 1921 A 3 3 A-22 Acetone P 1921 A 46 1631 A-11 Sweet P 1921 A 46 1631 A-11 Animal an expressed vegetable (report) P 1921 A 46 1631 A-12 Bergannoces P <			c	226, 557		IJ
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Nux vomica		FL			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Oak:	P 1021	ът	**604	1549	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Extract	P 1921				
Oats and oatmeal. (See Agricultural staples and the tariff.) P 1922. A 55 75 A-15 Odoriferous substances, preparations, and mix-tures. (See Perfumery.) P 1921. FL 387 1501 FL-1 Oil of vitriol. P 1922. A 55 75 A-15 Oil of vitriol. P 1921. FL 387 1501 FL-1 Soya bean oil industry. P 1923. J 276 1020 J-5 Oilcloth, floor. P 1923. J 276 1020 J-5 Oilsoreading machines P 1921. FL 441 1542 FL-3 Oilsoreading machines P 1921. A 46 1631 A-11 Sweet Sweet P 1921. A 46 1631 A-12 Attar of ross. P 1921. A 46 1631 A-12 P P 1921. A 46 1631 A-12 Carcowa P 1921. A	Oakum	P 1923	FL			
the tariff.) P 1922. A 55 75 A-15 Odoriferous substances, preparations, and mixtures. P 1921. FL 387 1501 FL-1 Oli of vitriol P 1921. FL 387 1501 FL-1 Olicoke (see also Cottonseed-oil industry and P 1923. J 276 1020 J-5 Olicloth, floor. P 1923. J 276 1020 J-5 Olispreading machines. P 1921. FL 441 1542 FL-3 Olisy Acetone P 1921. A 3 3 A-22 Almond- P 1921. A 46 1631 A-11 Sweet P 1921. A 46 1631 A-11 Anise seed. P 1921. A 46 1631 A-12 Birch-tar. P 1921. A 46 1631 A-12 Castor P 1921. A 46 1631 A-12 Castor	Oats and oatmeal. (See Agricultural staples and	P 1922	I Louis	647	404	FL-3/
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Odoriferous substances preparations and mix.	P 1922	A	55	75	A-15
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	tures. (See Perfumery.)					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Oilcloth floor					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	floors).	P 1923	1	254	907	1-4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Oil-spreading machines	P 1921	FL	441	1542	FL-3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Oils:	P 1921	A	3	3	A-2
Sweet P_{11921} $A_{}$ 45 1632 A_{-11} Animal and expressed vegetable (report) P_{11921} $A_{}$ 46 1631 A_{-12} Attar of roses P_{1921} $A_{}$ 46 1631 A_{-12} Bergamot P_{1921} $A_{}$ 46 1631 A_{-12} Birch-tar P_{1921} $A_{}$ 46 1631 A_{-12} Caraway P_{1921} $A_{}$ 46 1631 A_{-12} Caraway P_{1921} $A_{}$ 46 1631 A_{-12} Cassia P_{1921} $A_{}$ 46 1631 A_{-12} Castor P_{1921} $A_{$	Almond—					
Animal and expressed vegetable (report) P 1921 A 45 53,58 A-11 Anise seed P 1921 A 46 1631 A-12 Bergamot P 1921 A 46 1631 A-12 Bergamot P 1921 FL 561 *659 A-12 Cajeput P 1921 FL 561 *659 A-12 Caraway P 1921 A 46 1631 A-12 Cassia P 1921 A 46 1631 A-12 Castor P 1921 A 46 1631 A-12 Chamomile P 1921 A 46 1631 A-12 Chamomile P 1921 A 46 1631 A-12 Chamomile P 1921 A 46 1631 A-12 Chinese-nut P 1921 A 46 1631 A-12 Chinese-nut P 1921 A 46 1631 A-12 Coconut (see also Certain vegetable oils) P 1921 FL 232, 561 55 A-11, W.M. <td>Bitter</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Bitter					
Attar of roses. P 1921. A 46 1631 A-12 Bergamot P 1921 FL 561 1631 A-12 Birch-tar P 1921 FL 561 **59 A-12 Caieput P 1921 FL 561 **59 A-12 Caraway P 1921 FL 561 **59 A-12 Cassia P 1921 A 46 1631 A-12 Cassia P 1921 A 46 1631 A-12 Castar P 1921 A 46 1631 A-12 Castar P 1921 A 46 1631 A-12 Castar P 1921 A 46 *59 A-12 Chamomile P 1921 A 46 *631 A-12 Chemically treated In prog FL 561 *64131 A-12 Citronella Coconut (see also Certain vegetable oils) P 1921 A 46 1631 A-12 Cod P 1921 FL 561	Animal and expressed vegetable (report)	P†1921	A			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Anise seed	P 1921				
Birch-tar P	Bergamot.	P 1921	A			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Birch-tar	P 1921	FL	561	**59	A-12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cajeput.	P 1921			1631	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cassia	P 1921	A	46	1631	A-12
$ \begin{array}{c cccc} Chamomile & P & 1921 & A & 46 & **59 & A-12 \\ Chemically treated & P & 1921 & FL & 561 & **1632 & A-11 \\ Cinnamon & P & 1921 & A & 46 & 1631 & A-12 \\ Citronella & P & 1921 & A & 46 & 1631 & A-12 \\ Citronella & P & 1921 & A & 46 & 1631 & A-12 \\ Coconut (see also Certain vegetable oils) & P & 1921 & FL & 361 & 1630 & A-11 \\ Cod & P & 1921 & FL & 561 & 1630 & A-11 \\ Cod & P & 1921 & FL & 561 & 1630 & A-11 \\ Cot & P & 1921 & FL & 561 & 1630 & A-11 \\ Cot & P & 1921 & FL & 561 & 1630 & A-11 \\ Cot & P & 1921 & FL & 561 & 1630 & A-11 \\ Cot & P & 1922 & FL & 561 & 1630 & A-11 \\ Cot & P & 1921 & FL & 561 & 1630 & A-11 \\ Cot & P & 1921 & FL & 561 & 1630 & A-11 \\ Cot & P & 1921 & FL & 561 & 1632 & A-11 \\ W.M. \\ Croton & P & 1921 & FL & 561 & 1632 & A-11 \\ Essential and distilled (report) & P & 1921 & A & 45 & 58 & A-11 \\ Fenel & P & 1921 & A & 45 & 58 & A-11 \\ Fenel & P & 1921 & A & 44 & 53 & A-11 \\ Fish & and marine animal & P & 1921 & A & 44 & 53 & A-11 \\ Fusel & P & 1921 & A & 44 & 53 & A-11 \\ Herring & P & 1921 & A & $	CastorCadrat	P 1921				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Chamomile	P 1921	A		**59	
$\begin{array}{c cccc} Cinnamon. & P & 1921. & A & & 46 & 1631 & A - 12 \\ Citronella & & P & 1921. & A & & 46 & 1631 & A - 12 \\ Coconut (see also Certain vegetable oils) & P & 1920. \\ Cod & & P & 1920. \\ Cod & & P & 1921. & FL & 232, 561 & 55 & A - 11, W.M. \\ Cod & & P & 1921. & FL & 561 & 1630 & A - 11 \\ Corn & P & 1921. & FL & 561 & 1630 & A - 11 \\ Corn & P & 1921. & FL & 561 & 1630 & A - 11 \\ Cottonseed (see also Certain vegetable oils) & P & 1921. & FL & 561 & 1630 & A - 11 \\ Cottonseed (see also Certain vegetable oils) & P & 1921. & FL & 561 & 1630 & A - 11 \\ Cottonseed (see also Certain vegetable oils) & P & 1921. & FL & 561 & 1630 & A - 11 \\ Cottonseed (see also Certain vegetable oils) & P & 1921. & FL & 561 & 1632 & A - 11 \\ Cottonseed (see also Certain vegetable oils) & P & 1921. & A & & 445 & 564 & A - 11 \\ Exsential and distilled (report) & P & 1921. & A & & 446 & 59 & A - 12 \\ Expressed vegetable & P & 1921. & A & & 446 & 58 & A - 11 \\ Fennel & P & 1921. & A & & 446 & 58 & A - 11 \\ Fish & And marine animal & P & 1921. & A & & 444 & 53 & A - 11 \\ Fusel & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 444 & 53 & A - 11 \\ Herring & P & 1921. & A & & 57 & 57 \\ \end{array}$	Chemically treated	In prog	FI	561	57	
$\begin{array}{c cccc} Citronella P 1921 A 46 & 1631 & A-12 \\ Coconut (see also Certain vegetable oils) \left\{ \begin{array}{c} P 1920 \\ P 1921 \\ P 1921 \\ P 1921 \\ FL & 232, 561 & 55 \\ P 1921 \\ FL & 232, 561 & 55 \\ A-11, W.M. \\ P 1921 \\ FL & 561 & 1630 & A-11 \\ P 1921 \\ Cotonseed (see also Certain vegetable oils) \\ P 1921 \\ Croton \\ P 1921 \\ Croton \\ P 1921 \\ FL & 561 & 1630 & A-11 \\ P 1921 \\ FL & 561 & 1632 & A-11 \\ P 1921 \\ FL & 561 & 1632 & A-11 \\ P 1921 \\ Fl & -1561 & 1632 & A-11 \\ P 1921 \\ P 1921 \\ P 1921 \\ P 1921 \\ Fl & -1561 & 1632 & A-11 \\ P 1921 \\ F & -1561 & 1632 & A-11 \\ P 1921 \\ F & -1561 & 1632 & A-11 \\ P 1921 \\ F & -1561 & 1632 & A-11 \\ P 1921 \\ F & -1561 & 1632 & A-11 \\ P 1921 \\ F & -1561 & 1632 & A-11 \\ P 1921 \\ F & -1561 & 1632 & A-11 \\ P 1921 \\ F & -1561 & 1632 & A-11 \\ F & -1561 & 1632 & A-11 \\ P 1921 \\ A & -166 & *569 & A-12 \\ F & -156 & -166 & -166 & -166 \\ F & -166 & -166 & -166 & -166 \\ F & -166 & -166 & -166 & -166 \\ F & -166 & -166 & -166 & -166 & -166 \\ F & -166 & -166 & -166 & -166 & -166 & -166 \\ F & -166 & -166 & -166 & -166 & -166 & -166 & -166 \\ F & -166 & $			A		1632	A-11 A-12
$ \begin{array}{c} \text{Cocontr} (\text{see also Certain Vegetable only} & P_1 921 & P_1 & 232, 561 & 55 & A-11, W.M. \\ \text{Cod} & P_1 1921 & FL & 561 & 1630 & A-11 \\ \text{Cod-liver} & P_1 921 & FL & 561 & 1630 & A-11 \\ \text{Corn} & P_1 921 & FL & 561 & 1630 & A-11 \\ \text{Cotonseed (see also Certain vegetable oils)} & P_1 921 & FL & 561 & 1632 & A-11, W.M. \\ \text{Coton} & P_1 921 & FL & 561 & 1630 & A-11 \\ \text{Coton} & P_1 921 & FL & 561 & 1632 & A-11 \\ \text{Coton} & P_1 921 & FL & 561 & 1632 & A-11 \\ \text{Coton} & P_1 921 & FL & 561 & 1632 & A-11 \\ \text{Expressed vegetable} & P_1 921 & A & **46 & 59 & A-12 \\ \text{Expressed vegetable} & P_1 921 & A & **46 & 59 & A-12 \\ \text{Expressed vegetable} & P_1 921 & A & **46 & 58 & A-11 \\ \text{Fennel} & P_1 921 & A & **46 & 58 & A-11 \\ \text{Fish} & \text{and marine animal} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Fusel} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Herring} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Herring} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Herring} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Herring} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Herring} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Hydrogenated} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Hydrogenated} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Hydrogenated} & P_1 921 & A & **44 & 53 & A-11 \\ \text{Hydrogenated} & P_1 921 & A & **44 & 53 & A-11 \\ \end{array}$			`	46		A-12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•	P†1920	G, FL	232, 561	55	A-11, W.M.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		P†1921	F.L			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		P 1921		001 **45	1630	A-11
Essential and distilled (report) $P_1 1921$ A_{-12} Eucalyptus $P_1 1921$ A_{-12} Europhysic $P_1 1921$ A_{-12} Expressed vegetable $P_1 1921$ A_{-12} Fish $P_1 1921$ A_{-12} Fish and marine animal $P_1 1921$ A_{-12} Fusel $P_1 1921$ A_{-12} Hempseed $P_1 1921$ A_{-12} Humpseed $P_1 1921$ A_{-12} Hempseed $P_1 1921$ A_{-11} Hydrogenated $P_1 1921$ A_{-12} A_{-12} A_{-12} A_{-11}	Cottonseed (see also Certain vegetable oils)	P 1921	FL	561		A-11, W.M.
Eucelyptus P1921 A **46 50 A-12 Expressed vegetable P1921 A 45 58 A-11 Fenel P1921 A 46 **59 A-12 Fish P1921 A 46 **59 A-12 Fish P1921 A 46 **59 A-12 Fish and marine animal P1921 A 44 53 A-11 Fusel P1921 A 44 53 A-11 Fusel P1921 A 45 54 A-9 Hempseed P1921 A 45 54 A-11 Herring P1921 A 44 53 A-11 Hydrogenated P1921 A 44 53 A-11 Hydrogenated P1921 A 57 57			FL	561	1632	A-11
Expressed vegetable P_11921 $A_{}$ 45 58 $A-11$ Fennel P_1921 $A_{}$ 46 **69 $A-12$ Fish P_1921 $A_{}$ 44 53 $A-11$ Fish and marine animal P_11921 $A_{}$ 44 53 $A-11$ Fusel P_1021 $A_{}$ 33 4 $A-9$ Hempseed P_11921 $A_{}$ 45 54 $A-11$ Herring P_11921 $A_{}$ 44 53 $A-11$ Hydrogenated P_11921 $A_{}$ 44 53 $A-11$	Eucelyptus	P+1921	A		59	
Fish P1921 A 44 53 A_11 Fish and marine animal P1921 A 44 53 A_11 Fusel P1921 A 33 4 A-9 Hempseed P1921 A 35 54 A-11 Herring P1921 A 45 54 A-11 Hydrogenated P1921 A 57 57	Expressed vegetable	P†1921	A		58	A-11
Fish and marine animal $P^{\dagger}1921$ A 44 53 A-11 Fusel P 1921 A A 33 4 A-9 Hempseed P 1921 A A 45 54 A-11 Herring P 1921 A A 45 54 A-11 Hydrogenated P 1921 A 44 53 A-11	Fish	P 1921			69 53	
Hempseed	Fish and marine animal	P 1921	A	44	53	A-11
Herring P†1921 A 44 53 A-11 Hydrogenated In prog 57 57 57	Fusel	P 1921				A-9
	Herring	P†1921	A		53	A-11 A-11
- IPTEUVOE PTEUVI KT. 581 444 144 44	Hydrogenated Ichthyol	In prog.	FL	561	57 **5	A-12

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		Tarin	act of 1913	Paragraph of	
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Oils-Continued.					
Jasmine	P 1921	A	46	**1631	A-12
Juniper	P 1921	A	46	**59	A-12
Lavender Lemon	P 1921 P 1921	A	46 46	1631 59	A-12 A-12
Lemon grass	P 1921	Â	46	1631	A-12
Lime	P 1921	A	46	1681	A-12
	P 1920	1.	45	54	(T. I. S20,
Linseed	P 1929	A	45	54	R. P.
Mace Marine animal		'A	**46	**59	A-12
Marine anima)	Ms			1001	
Neroli Nutmeg		A	46 **46	1631 **59	A-12 A-12
Olive	P 1921	Â	45	54, 1632	A-11
Orange	P 1921	A	46	59	A-12
Origanum Balm and palm karnal	P 1921	A FL	46	1631	A-12
Origanum Palm and palm-kernel Peanut (see also Certain vegetable oils)	(P 1920	FU	561	1632	A-11
Peanut (see also Certain vegetable oils)	(P 1921	}A	45	55	A-11,†W.M.
repperimit	F 1921	A	46	59	A-12
Perilla Petroleum, crude and refined	P 1921 P 1921	FL FL	561 561	1632 1633	A-11 FL-7
Poppy seed	P† 1921	A	45	54	A-11
Rapeseed	P† 1921	A	45	54	A-11
Rose, or attar of roses		A	46	1631	A-12
Rosemary Seal			46 44	1631 53	A-12 A-11
Sesame seed	P 1921.	A	45	1632	A-11
Sod	P† 1921	A	44	53	A~11
Soya bean (see also Certain vegetable oils)	P† 1921	FL	561	55	A-11
SpermSpike lavender	P† 1921 P 1921	A	44 46	53	A-11 A-12
Thyme	P 1921	A	46	1631	Â-12
Valerian	P 1921	A	46	**59	A-12
Vegetable (coconut, cottonseed, peanut, soya bean)	P 1926			55	(5)
Part I. Cost of production.					
Part II. Economic study of the trade in					
and the prices and interchangeability of oils and fats.					
Vegetable, expressed	P† 1921	Å	45	58	A-11
Vegetable, expressed Vulcanized	In prog.			57	•
Whale Oils and fats, animal and expressed vegetable	P† 1921		44 45	53 58	A-11 A-11
Oils, suggested reclassification of chemicals,	P† 1921 P 1921	A			\mathbf{W} . \mathbf{M} .
paints, and.					
Old pewter and britannia metal		FL	572	**393	C-17
Oleic acid	Ms P† 1921	A	45	1 54, 1632	A-11
Olive oil Onion and garlic industry, American (report) Onion seed	P 1920				W. M.
Onion seed	P 1925	G	212	762	G-17b
Onions	P 1929	G		768	R. P.
Crude and dressed	P 1921	в	97	232	B-11
Manufactures of	P 1921	B	. 98	233	B-11
Open-door agreements. (See Colonial tariff poli-					
cies.) Opera glasses (see also Scientific instruments)	P 1921	В	93	228	B-10
Ophthalmic goods				225	
Ophthalmic instruments	In prog.			228	
Opium and its derivatives	P 1921	A	47 494	60 227	A-7, A-13 B-10
Optical glass, rough (see also Scientific instru- ments).	P 1921	F 1/	454	221	D-10
Optical glass and chemical glassware	P 1919				W. M.
Optical instruments (see also Scientific instru-	P 1921	B	93, 94	228	B-10
ments).	P 1921	A	`46	59	A-12
Orange oil Orchil. (See Archil.)	1 1041	A			
Organs	P 1921	N	**373	**1443	N-23
Origanum oil	P 1921	A	46 **30	1631 **39	A-12 A-8
Osage-orange extract Osier	P 1921 P 1921	D	173	407	D-3
Osmium		FL	517	1596	FL-20
Other optical instruments	P 1921	B,FL .	94, 573	228	B-10
Outerwear, silk, knit	{P 1921 P 1925	}L	**317	1208	L-2
Outerwear, wool, knit	P 1925	`ĸ	291	1114	K- 3
Outline of work and plans	P 1917 (P 1921				M. S.
Oxalic acid	{P 1921	}A	1	1	A-1, R. P.
	P 1926 P 1921	' D	171	405	D-2
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⁵ Preliminary statement of information.

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acking-box shooks	P 1921	D	171	405	 D-2	
addings, flax, hemp, or jute	P 1922]J, FL.	∫283, 284,	} 1009	J-7, J-8	
aintbrush handles	P 1923 P† 1926	D	1 408 176	410	R. P.	
ninte	P 1922	Â	63	67,68	A-15	
aints, suggested reclassification of chemicals,	P†1921	·			W. M.	
oils, and. alladium	P 1921	FL	517	1596	FL-20	
olings	P 1922	. FL	647	1702	FL-37	
alm and palm-kernel oil	P 1921. P 1921.	FL	561	1632	A-11	
alm leaf, manufactures of, n. s. p. f alm-leaf fans	P 1921		368 480	1439 1572	N-21 N-11	
aper:		1				
Bags Bibulous	P 1922	M	324 323	1305 1304	M-4	
Biblious	P 1921	M	322	1301	M-3 M-2	
Box board	P* 1921	M	320	**1302	M-1	
Boxes, covered with coated paper, etc	P 1922 P 1922	M	324 **332	1305	M-4	
Boxes, n. s. p. f Bristol board		M		1313 1302	M-4 M-1	
Building	P 1921	. M	. 320	1302	M-1	
Cerdboard	1 P 1921	M		1302	M-1	
Cigarette	P 1922	N M	381 324	1454 1305	M-4 M-4	
Coated	P 1922	. M	324	1305	M-4	
Cut. die-cut. etc.	P 1922	- <u>M</u>	332	1313	M-4	
Decalcomania Decorated	P 1922 P 1922	FL M	567	1305, 1635	M-4	
	1.00	l)		1305	M-4	
Envelopes		[]}M	1 '	**1305, 1308	M-4, M-6	
Filtering Fine	P 1921 P 1921	- M	323	1309	M-3	
Gummed		M	326	1307 1305	M-6 M-4	
Hanging	P 1921	- M	328	1309	M-7	
Imitation parchment	. P 1921.		. 324	1305	M-3	
Manufactures, n. s. p. f Newsprint	1 1 1 1 9 2 1	M FL	332	1313 1672	M-4 M-2	
Not specially provided for	P 1922_	- M		1309	M-4	
Parchment	_ P 1921		. 324	1305	M-3	
Photographic Press				1305	M-4 M-1	
Printing				1313 1301	M-2	
Reinforced	1 P 1922	- M	. 324	1305	M-4	
Sheathing	P 1921 P 1922	- M		1302	M-1	
Stock, crude	P 1922	- M	. 566 324	1651 1305	M-4 M-4	
Tissue	_ P 1921	- M	. 323	1304	M-3	
Wall Waxed	P 1921 P 1922		**328	**1309	M-7 M-4	
Wronning	P 1921	M		1305 1309	M-4 M-7	
aper and books (report)	. P*1917.				T. I. S1	
apier-mâché apier-mâché, manufactures of	P 1922 P 1921	- N		1303	M-4	
Paracetaldehyde	In prog.	-	. 369	1303, 1313	N-21	
Parasols	_ P 1921	- N		1456	N-27	
Parchment Paris green	P 1921 P 1921			1636	M-3	
Paris white	P 1921		- 569 - 60	64	FL-8 A-5	
Patent leather	. P 1922.	_ FL	- **530	**1606	N-16	
Paving posts		D	- 170	1701	D-2	
Peach kernels Peanut industry, survey of the American (report)	P 1921 P 1920		. 223	760	G-34 W.M.	
Peanut oil (see also Certain vegetable oils)	∫P 1920_		45			
Peanuts		G	- -0	55	1 1	
Pearl hardening			. 74	- 757 **76	R. P. A-15	
Pearls, imitation and synthetic	. P 1921.	N	357	1429	N-1	
Peat moss			- 377	1450	N-22	
Pencil leads		G			G-34 N-22	
Pencils, lead and slate	- P 1921	N	- 378	1452	N-22	
Penholders	- P 1921.		- 157	352, 353	C-24	
Pens Peppermint oil	P 1921. P 1921.	C		351, 352		
Percussion caps	- P 1921	N	- 346			
Perfumery	P 1921_	A	- 48	62	A-14	
Perilla oil Persian berry extract	- P† 1921 P 1921	_ FL		1		
Peru, balsam	. P 1921.	. A				
Petroleum oil, crude and refined	P 1921.	FL	- 561	1633	FL-7	
		1 17 1	- 572	**393	1 0 17	
Pewter metal, old Phenol			- 072	- 27		

	1 41 0 0	•			
		Tariff :	act of 1913	Bangmanh of	
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Phosphates, crude	P 1921	FL	574	1640	FL-5
Phosphoric acid	P 1921	K.L.	387 575	1 65	FL-1 FL-1
Phosphorus Photographic goods		FL N, FL.	380, 576	1453	N-25
Photographic goods Photographic lenses (see also Scientific instru- ments).	P 1921	B	94	228	B-10 N-17
Pianoforte and pianoforte-action leather Pianos Pickets	P 1921 P 1923	1	359 373	1481 1443 1702	N-23 FL-37
Pig iron (see also Reports to President)	(P 1921	}FL	518	301	FL-21,R.P.†
Pigments, paints, and varnishes (report)	P 1922				A15
Pignolia nuts Pile fabrics and manufactures of:	P 1921	G	**226	755	G-34
Cotton Flax, hemp, or ramie	P 1022	J	257 280	910 1012	I-4 J-8
Silk	P* 1921	L, N	314, 382	1206	L-1
Wool, mohair, alpaca, etc	P 1927	' K	288, 309 264	1110 912	K-2 I-8
Pillowcases, cotton		C	158	350	Č-8
Pipes, brierwood	P 1927			1454	R. P.
Pipes and smokers' articles Pipes of iron or steel	P 1921 P 1921	N	381 127	1454 328	N-26 C-12
Pistache nuts	P 1921	G	**226	755	G-34
Pitch of wood.	P 1921	FL	626	1681	A-2, FL-17
Planks, not further manufactured than sawed, planed, tongued and grooved. Plaster of Paris, manufactures of	P 1922 P 1921	FL	647 369	1700 1440	FL-37 B-2
Plaster rock	P 1921	B	74	205, 1643	B-2
Plasters, court and healing	P 1921	A	50	66	A-14
Plate glass.		}B	88 ∫ 105, 109,	222	B-9. R. P.
Plates, iron or steel	1 · · · ·	C	1100, 100, 100,	304, 307, 309	C-4
Plates, photographic Plates and mats of dog and goat skins Platinum:		N, FL. N	380, 576 348	1453 1420	N-25 N-10
Metals, ores of	P 1921	FL	565	1634	FL-20
Miscellaneous manufactures		C, FL	167, 578	399	FL-20
Native alloys with Salts of		FL	517	1596 21	FL-20 A-17
Sheets, plates, wire, and sponge	P 1921	FL	578	` 1644	FL20
Unmanufactured Pliers		FL	578	1644 361	FL-20 C-9
Plumbago or graphite	P 1922	FL	579	213	FL24
Plush, hatters' Plushes, silk	P*1921 P*1921	N	382	1206	<u>L-1</u>
Pocketknives	P 1921	č	314 128	1206	L-1 C-13
Podophyllum, (See Drug industry, crude bo-					
tanical.) Poles, telephone, trolley, electric light, and tele- graph.	P 1921	D	170	1701	D-2
Polishing cloths, cotton	P 1922	I	264	**910, 912	I8
Polishing preparations	P 1921	A	11	13	A-5
Poppy-seed oil Porcelain:	P† 1921	. A	45	54	A-11
Chemical	P 1921	B	80	212	B-6
Electrical	P 1921 P 1921	B B	80 80	212 212	B-6 B-6
Tableware Portugal, colonial tariffs. (See Colonial tariff	1 1521	D		212	D-0
Posts of wood	P 1922	FL	647	404	FL37
Potash. (See Mineral industries affected by the war.)					
Potash industry (report)	{P 1919 P 1921	}			A-16,W.M.
Potassium (metal)	P 1921	°0	143	**1562	C-16
Potassium:	P 1921		*** a.t		1 10
Bicarbonate Carbonate	P 1921	A FL	**5, 64 580	80 80	A-16 A-16
Chlorate	(P 1921	} <u>A</u>	64		A-16, R. P.†
Chromate and bichromate	(P 1925 P 1921	A	. 64	80	A-18
Cyanide	P 1921	FL	580	1565	A-18
Hydroxide (hydrate)	P 1921	FL	580	80	A-16
Iodide Muriate	P 1921 P 1921	A FL	38 580	80 1645	A-9 A-16
Nitrate, crude	P 1921	FL	580	1646	A-18
Nitrate, refined	P 1921	A	· 64	80	A-18
	{P 1921 {P 1928	}A	64	80	A-16, R. P.
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Potassium—Continued. Prussiates, red or yellow Sulphate Potato products industry, domestic (report) Potato starch. (See Starch and related mate-	P 1921 P 1921 P 1919	A FL		80 1645	A-18 A-16 W. M.
rials.) Potatoes. (See Agricultural staples and the tariff.)					
Pots of carbon, porov: Pottery industry Poultry netting Power machinery and apparatus, electrical	P 1921 P 1921 P 1921 P 1922	B C	78, 79, 80 645 **167	**216 210, 211, 212 317 **372, **399	B-8 B-6 C-8 C-31
Precious stones Preferential tariff policies. (See Colonial tariff policies.)	P 1921	N	356, 357	1428, 1429	N-1
Preferential transportation rates (report) President, reports to. (See Reports to Presi- dent.)	P 1922				M. S.
Press cloths (camel's hair) Pressboards Print rollers	P 1921 P 1921 P† 1926	M	328	**1426 1313 396	N-12 M-1 R. P.
Printing paper. (See Paper.) Printing presses. Propyl alcohol Propylene chlorohydrin	P 1921 In prog Ms	C	165	372 4 2	C-29
Prining knives	Ms Ms P 1921	с	128	2 2 354	C-13
Prussiate of potash. (See Potassium compounds.) Prussiate of soda. (See Sodium compounds.) Prussic acid Pulp, manufactures of, n. s. p. f.	P 1921 P 1921	FL N	387 355	**1 1303	FL-1 N-11
Pulp woods Pulpboard Pulu_ Pumice stone, and manufactures of	P 1922 P 1921 P 1925 P 1925 P 1921	FL M FL B	647 320 583 75	**401, 1700 1302, 1313 1648 206	FL-37 M-1 FL-16 B-3
Pyralin. (See Pyroxylin plastics.) Pyrethrum. (See Drug industry, crude botan-					
ICAL.) Pyrites Pyrites, dross or residutum from burnt Pyrites and sulphur	P 1921	FL.	617 518	1677 1597	T. I. S. 21 FL-18 W. M.
Pyrogallic acid Pyroligneous acid Pyrometers	P 1921	A	1 387	1 **1 399	A-1 A-2
Pyrophoric alloys Pyroxylin plastics Quail, live bobwhite	P 1921 P 1921	C A B	**167 25 71	**399 31 711 202	C-22 A-6 R. P. B-1
Quebracho: Extract	P 1921	FL	624 **624	39 1568	A-8 A-8
Quercitron	P 1921 P 1920 P 1921	FL C	**624 159	**39 386	A-8 (C-25, (T. I. S. 21
Quills, manufactures of, n. s. p. f Quilts, cotton Quinine and related alkaloids Quoits	P 1921	N I FL FL	368 264 584 470	1439 912 1649 **399	N-21 I-8 FL-2 N-7
tabbits, skins of Radioactive substances Radioactive substitutes for radium salts Radium salts	P 1921	FL FL FL FL FL	603 585 585 585 649	**1579 1650 1650 1650	N-10 C-22 FL-22 FL-22 FL-22
Rag rugs Railroad ties Rails and railway bars	P 1928 P 1928 P 1921 P 1921 P 1921 P 1921	D FL C	170 587 108	1651 1022 1701 322 322	FL-38 R. P. D-2 C-6 C-6
Railway wheels, and parts of	P 1921 P 1925	Č FL	142 **497	324 **1582	C-15 FL-16
Gill netting Hat braids	P 1923 P 1921 In prog	J N	271 334	1006 1404 228	J-2 N-2
Rapeseed oil	P† 1921 P 1921	A C	45 131	54 362	A-11 C-13
Chair cane or reeds wrought from	P 1921	D	173	407	D-3

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Rice starch. (See Starch and related materials.)	-				
Rifles		C		364	C-14
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Toothpicks of wood	P 1921			408	D-3
Tops and yarns of wool or hair	P 1925	К	306, 307	1106, 1107	K-1
Towels, cotton	P 1922	I	264	^{\$*910, 912, 921}	I-8
Toys	P 1921	N	342	1414	N-7
Tracing cloth	P 1923 P 1921	L C	254 122	907 326	I-4 C-9
Tractors, farm.	P 1921			**1504	FL-3
Tractors, farm. Transportation costs and costs of production.					
(See Reports to President.) Transportation rates, preferential (report) Treaties. (See Digest of commercial treaties; Reciprocity and commercial treaties.)	P 1922				M. S.
Trichloroethylene				18	
Tripoli	P 1921	FL	614	1675	B-3
Truffles	P* 1921 P 1922	G	199 164	766 391	G-9 C-28
Tubes, collapsible Tubes, iron or steel Tubes, plate metal	P 1921	č	127	328	Č-12
Tubes, plate metal	P 1921	C	127	328	C-12
Tubes, welded	P 1921	c	127	328	C-12
Tubing: Cotton	P 1925	I	262	913	I-7
Silk	P† 1922.	Ĺ	316	1207	L-2
Tuna fish Tungsten. (See Mineral industries affected by	P* 1921	FL	**483	1656	G-19
the war.)					
Tungsten-bearing ores	{P 1919 P 1921	}FL	633	302	{ FL-28,
Turmeric	P 1921	FL	634	1687	W.M. A-8
Turpentine, spirits of	P 1921	FL	635	1688	FL-17
Turpentine, spirits of Twine of vegetable fiber other than cotton	P 1922	J	269, 284	1003, 1004	J-1
Type metal Types	I 1921	C	160 160	393 389	C-17 C-17
Typesetting machines		FL	441	1542	FL-3
Typewriters	P 1921	FL	441	1542	FL-3
Ultramarine blue	P 1922	A	52	70	A-15 A-15
Umbers Umbrella hardware	P 1922 P 1921	A	55 141	75 342	C-8
Umbrellas		N	383	1456	N-27
Underwear:	73 1009	т	0.001	017	те
Cotton, knit Silk, knit	P 1923 P† 1922	L	261 317	917 1208	I-6 L-2
Wool, knit	P 1921	K	**291	1114	K -3
Wool, knit. United States, colonial tariffs. (See Colonial					
tariff policies.) Upholsterers' nails	P 1921	C	167	331	C-30
IInholstery goods:	1				
Cotton or other vegetable fiber	P 1923	I.	258	909	I-4
Leather	P 1922 P 1922	N.FL	359, **530 530	1431, **1606 1606	N-16 N-16
Upper leather Uranium compounds		FL	638	1690	FL-22
Urea (see also Fertilizer urea)	. P 1921	A	18	26	A-6
Vaccines	P 1921	FL	400	1510	FL-2
Valerian oil Valerianic acid	P 1921 P 1921	A	46 387	**59	A-12 FL-1
Valonia:					1
Extract	P 1921		30	39	A-8
Material	P 1921 P 1921	FL FL	639 549	1568 302	A-8 FL-28
Vanadium ore Vandyke brown		A	**63	**75	A-15
Vanilla beans	P 1921	A	70	92	A-19
Vanillin	. P 1921		70	61	A-19
Varnish gums Varnishes	P 1921 P 1922	A	58	77	FL-17 A-15
Vegetable and fish oils	P† 1921		44, 45, 561		

Subject Vegetable fibers, other than cotton Vegetable ivory, manufactures of, n. s. p. f Vegetable oils (coconut, cottonseed, peanut, soya bean). Part I. Cost of production. Part II. Economic study of the trade in and the prices and interchangeability of oils and fats.	Status P 1925 P 1921 P† 1926	Sched- ule FL N	Para- graph	Paragraph of act of 1922	Report No.
Vegetable ivory, manufactures of, n. s. p. f Vegetable oils (coconut, cottonseed, peanut, soya bean). Part I. Cost of production. Part II. Economic study of the trade in and the prices and interchangeability of oils and fats.	P 1921	FL N	(450 495		Report No.
Vegetable ivory, manufactures of, n. s. p. f Vegetable oils (coconut, cottonseed, peanut, soya bean). Part I. Cost of production. Part II. Economic study of the trade in and the prices and interchangeability of oils and fats.	P 1921	N	<i>{</i> 459, 485,	1001, 1554,	} FL-16
Part I. Cost of production. Part II. Economic study of the trade in and the prices and interchangeability of oils and fats.			(497, 588 369	1582, 1648 1440 55) N-21 (⁶)
Vegetable substances, crude. Vegetable tallow and oils not chemically com- pounded, n. s. p. f.	P 1921 P 1921	FL FL	552 498	1622 1691	N-22 FL-15
Vellum	P 1921	FL	568	1636	M-3-
Velvets, silk Veneers of wood Venetians, cotton (report)	P* 1921	L	314	1206	
Venetians cotton (report)	P 1921 P† 1919	D I	169 **252	403 **903, 906	D-1 T. I. S10
Vermilion reds	P 1922	A	59	78	A-15
Vessels, cylindrical or tubular	P 1921	C	127	328	C-12 FL-17
Violin rosin	P 1921	N	375	1448	FL-17
Violins Visca	P 1921 P 1925	N	**373 **34	1443	N-23
Viscoloid. (See Pyroxylin plastics.)	r 1920	A	- 34	1213	L-4
Vulcanized fiber	Ms			32	
Vulcanized oils	Ms			57	
Wagon blocks, wood Wagons. (See Farm wagons.) Wall paper. (See Paper.)	P 1922	FL	647	404	FL-37
wan pockets	P 1925			1313	R. P.
Walnuts	P 1921	<u>G</u>	224	758	G-34
Wash rags, cotton	P 1922	I	264	**910	_I-8
Washers, iron or steel Waste:	P 1922	o	123	330	C-11
	P 1925	<u>N</u>	384	1213	L-4
Cork	P 1921	FL	464	1559	N-6
Cotton	Ms			1560	
N. s. p. f	P 1921 P* 1921	N	384	1457	N-27
Silk Tea	P 1921	FL	599 13	1663 15	L1 A-5
Wool	P 1926	FL	651	1105	FL-40
Watches and parts of	P 1926	C	161	367	C-26
Waterproof cloth	P 1923 P 1921	I	254 367	907	I-4
Wax, manufactures of Wax, vegetable or mineral	P 1921	N FL	641	1438 1693	N-19 FL-7
Waxed paper. (See Paper.)	1 1001	1 10	•••	1000	× 11 - 7
Waxed paper. (See Paper.) Wearing apparel, not knit:					
Cotton, n. s. p. f	P 1923	Į	256	919	_I-5
Fur Linen	P 1921 Ms	N	348	1420 1017	N-10
		L	317	1210	L2
Wool				1115	
Webs and webbing:	D 1005	-		**010	
Cotton Flax, hemp, ramie	P 1925 In prog	I	262	**913 **1015	I-7
Silk	P† 1922	L	316	**1207	L-2
Wedges Weeds, manufactures of	P 1921	C	122	326	C- 9
Weeds, manufactures of	P 1921	N	368	1439	N-21
Whalebone: Manufactures of	P 1921	N	368	1439	N-21
Unmanufactured	P 1921	FL	643	1696	N-21
Whale oil	P 1921 P 1921	} A	44	53	A-11
Wheat. (See Agricultural staples and the tariff.) Wheat flour. (See Agricultural staples and the	(P 1929	ج	11	00	<u>A-11</u>
tariff.)					1
	P 1921	}			F. C.
	P 1929 P* 1924	J		729	R. P.
Whatstones	P 1921	}FL	E07		
	P 1929	^{يو يو}	507	1590	B-3
Whip gut:	P 1921	ı			
Manufactures of	P 1921	}N	366	1434	N-19
Tipmonufactured	P 1921	โซา	440	1404	RT 70
	P 1929	تا ۲	443	1434	N-19
	P 1922 P 1921	A	56	74	A-15
White metal alloys, miscellaneous	P 1921 P 1929	}o	**154	**1562	C-17

⁶ Preliminary statement of information.

Subject	Status	Tariff act of 1913		Denominalist	1
		Sched- ule	Para- graph	Paragraph of act of 1922	Report No.
Whiting	{P 1921 P 1929	} A	60	20	٨-١
Willow and manufactures of	(P 1921 (P 1929) D	173	407	D-3
	fP 1921	B		219, 220, 224	
Window glass	1(1 1040	// D	85,90		B-9, R. P
Window hollands Wine lees	P 1925 P 1921	A	254	907 9	I-4 A-1
Wire: Aluminum	P 1921	C	**114	**374	C-16
Barbed	P 1921	LF	645	1697	C-8
Brass.	P* 1921_	g	114	381	C-19
Cables, insulated Copper	P 1921 P 1921	C	114	316 381	C-8 C-19
Fencing	P 1921	FL	645	317	C-8
Flat	P 1921	C	114	316	Č-8
Healds	P 1921	<u>C</u>	114	316	C-js
Heddles	P 1921	g	114	316	C-# C-# C-# C-# C-# C-#
Insulated Manufactures of, n. s. p. f	P 1921	C	114	316 **316-318, 399	Ç-8
Rods	P 1921 P 1921	.C	114	316-318, 399 315	
Rope and strand	P 1921	č	113	316	č-s
Round	P 1921	Č	114	316	Č-8
Wires and cables, electrical	{P 1921 P 1922	l\c	114	316	C-8, C-31
Viring devices, electrical	P 1922 P 1922	B, C	**80,**167	**216, **399	C-31
Vood:					
Barrels, boxes, and shooks Baskets	P 1921 P 1921	D	171, 172 175	405, 406	D-2
Blinds, curtains, shades, and screens	P 1921	D	175	409 409	D-4 D-4
Furniture	P 1921	D	176	407, 410	D-4
Manufactures, n. s. p. f	P 1921	D	176	410	Ď-4
Posts, poles, and railroad ties	P 1921	D	170	404, 1701	D-2
Rattan	P 1921	D, FL.	173, 648	407, 1703	D-3
Shingles	{P 1922 P 1927	}FL	647	1660	FL-37,R.P.
Toothpicks and skewers	P 1921	Ď	174	408	D-3
Unmanufactured Willow	P 1922 P 1921	FL D	647, 648 173	403, 1700 407	FL-37 D-3
vood alcohol (methanol)	{P 1921 P 1927	}FL	393	4	A-2, R. P.
Wood and lye, ashes of	P 1921	FL	407	1645	A-16
Vood chemical industry	P 1921				A-2
Wood flour	P 1922 P* 1921	FL FL	647 649	410	FL-37
Wood pulp Wood screws	P 1921	с	140	1616 338	FL-38 C-8
Woods, cabinet	P 1921	D, FL	169, 648	*403	Ď-i
Vool: Blankets	P 1927	к	289	1111	K-2
By-products	P 1926	FL	651	1105	FL-40
Combed or tops	P 1925	K	286, 306	1106	K-1
Extract Felts, not woven		FL	651	1105	FL-40
Flocks	In prog P 1926	FL	651	1112 1105	FL-40
Floor coverings		K	293-303	1117, 1118	K-6
Gloves and mittens	P 1921	K	288	1114	Ř-3
Hosiery		<u>K</u>	288	1114	<u>K-</u> 3
Knit fabrics	P 1921	K	288	1114	<u>K</u> -3
Knitted articles, n. s. p. f	P 1921	K FL	$ \begin{array}{c} 291 \\ 651 \end{array} $	1114	K-3 FL-40
Noils	P 1926	FL.	651	1105 1105	FL-40
Outerwear, knit	P 1921	K	**291	1114	K-3
Rags Raw. (See Wool-growing industry.)	P 1926	FL	586	1105	FL-40
Roving	P 1925	К	286	1106	K -1
Screens	P 1923	K	303	J118	K-6
Shoddy	P 1926	FL	651	1105	FL <u>-4</u> 9
Tops	P 1925	K	286, 306 **291	1106	<u>K</u> -1
Underwear. Unimproved (carpet). (See Wool-growing	I 1921)	Δ	291	1114	K-3
industry.)					
Wastes	P 1926	FL	651	1105	FL-40
Wearing apparel	In prog		(288, 289,	1115	
Woven fabrics	P 1927	к	{ 290, 308, 309	1108-1111	K-2
Yarn	P 1925	ĸ	287, 307	1107	K-1
Vool greases		A	44	53	A-11

Subject	Status	Tariff act of 1913			
		Sched- ule	Para- graph	Paragraph of act of 1922	Report No.
Wool-growing industry (report) Wool machinery. Wool production in Argentina, sheep and Woolens and worsteds Works of art	P† 1921 P 1921 P 1922 P 1927 P 1927 P 1921	K		**372 1108, 1109 1449, 1705– 1708	M. S. C-29 M. S. K-2 } N-24
Worm gut: Manufactures of Unmanufactured Woven fabrics: Artificial silk	P 1921 P 1921 P 1925	N FL	366 443 319	1434 1709 1213	N-19 N-19 L-4
Cotton. (See Countable cotton cloths.) Flax, hemp, or ramie Jute Silk Wool	P 1923 P 1922 P 1926 P 1927	J J, FL L K	{ 280, 283, 284 { 279, 284, 408 318 { 288-290,	$\begin{array}{c}1009-1013\\1008-1011,\\1019\\1205\\1108-1111\end{array}$	J-8 } J-7 L-3 K-2
Wrapping paper. (See Paper.) Yarns: Artificial silk Coir Cotton Flax, hemp, or ramie Jute Silk Wool Zaffer	P 1925 P 1922 P 1920 P 1922 P 1922 P 1921	L FL J J L FL	{ 308, 309 319 459 250 267 312, 313 287, 307 657	1213 1554 901 1004 1003 1202, 1203 1107 1710	L-4 J-1 T. I. S12 J-1 J-1 L-1 K-1 FL-6
Zinc: Chloride Dust. Manufactures of Metal. Ore Oride. Pigments Sheets Spelter. Sulphate	P 1921 P 1921 P 1921 P 1922 P 1922 P 1921 P 1921	A C C A A C A	62 163 167 163 162 61 61 163 163 62	93 395 399 395 390 79 79 395 395 93	A-15- C-27 C-27 C-27, W.M. A-16 A-15 C-27 C-27 A-15

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