UNITED STATES TARIFF COMMISSION

TELEVISION PICTURE TUBES: CERTAIN WORKERS OF THE RCA CORP., NEW YORK, N.Y.

Report to the President on Investigation No. TEA-W-136 Under Section 301(c)(2) of the Trade Expansion Act of 1962



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#### REPORT TO THE PRESIDENT

U.S. Tariff Commission, May 12, 1972.

To the President:

In accordance with section 301(f)(1) of the Trade Expansion Act of 1962 (TEA) (76 Stat. 885), the U.S. Tariff Commission herein reports the results of an investigation made under section 301(c)(2) of that act in response to a petition filed by a group of workers.

On March 10, 1972, the International Brotherhood of Electrical Workers, AFL-CIO-CLC, filed a petition for a determination of eligibility to apply for adjustment assistance on behalf of the former workers of the RCA Corp. engaged in the manufacture of television picture tubes. The Commission instituted the investigation (TEA-W-136) on March 15, 1972, to determine whether, as a result in major part of concessions granted under trade agreements, articles like or directly competitive with color- and monochrome-television picture tubes (of the types provided for in items 687.50 and 687.51 of the Tariff Schedules of the United States (TSUS)) produced by RCA Corp. are being imported into the United States in such increased quantities as to cause, or threaten to cause, unemployment or underemployment of a significant number or proportion of the workers of such company, or appropriate subdivision thereof.

Public notice of this investigation was given in the <u>Federal</u>
Register of March 21, 1972 (37 F.R. 5787). No public hearing was requested by any party showing a proper interest in the subject matter of the investigation, and none was held.

The information herein was obtained principally through field interviews with officials of RCA Corp.; from discussions with officials of local No. 1666, International Brotherhood of Electrical Workers; from data submitted to the Commission by domestic producers and consumers of television picture tubes; and from the Commission's files.

### Finding of the Commission

On the basis of its investigation, the Commission 1/ unanimously finds that articles like or directly competitive with the television picture tubes--color and monochrome--(of the types provided for in items 687.50 and 687.51 of the TSUS) produced by the RCA Corp. are not, as a result in major part of concessions granted under trade agreements, being imported into the United States in such increased quantities as to cause, or threaten to cause, the unemployment or underemployment of a significant number or proportion of the workers of such company or appropriate subdivision thereof.

<sup>1/</sup> Commissioner Sutton did not participate in the decision.

Views of Vice Chairman Parker and Commissioners Leonard and Young

This investigation concerns a petition filed on behalf of former workers of the RCA Corp. who had been employed in the production of television picture tubes. For some years, RCA's domestic production of picture tubes had been divided among three plants located at Lancaster, Pa., Scranton, Pa., and Marion, Ind. In 1971 RCA ceased its domestic production of monochrome picture tubes and consolidated its domestic production of color picture tubes at Scranton and Marion. Consequently, during the year, the company gradually reduced the output of color tubes at Lancaster, while expanding output at Scranton and Marion. In step with the gradual shutdown of picture tube production at Lancaster, employment at the plant declined steadily during the year-leading to the petition for a determination of the workers' eligibility to apply for adjustment assistance under the Trade Expansion Act of 1962.

Our determination in this investigation is in the negative because all of the conditions imposed by section 301(c)(2) of the Trade Expansion Act of 1962 have not been satisfied. The Tariff Commission is required to make a negative determination if any one of the following four requirements is not met:

- (1) Articles like or directly competitive with an article produced by the workers' firm or appropriate subdivision thereof must be imported in increased quantities;
- (2) The increased imports must be a result in major part of concessions granted under trade agreements;
- (3) The workers must be unemployed or underemployed, or threatened with unemployment or underemployment; and

(4) The increased imports resulting from trade-agreement concessions must be the major factor in causing or threatening to cause the unemployment or under-employment.

In the case at hand, we have concluded that the first requirement has not been satisfied with respect to imports of television picture tubes that are imported separately, i.e., such articles are not being imported in increased quantities. Further, we have concluded that, even if we were to consider imports of picture tubes in imported television receivers "like or directly competitive" with the television picture tubes produced by RCA, the increased U.S. imports of television receivers have not been a result in major part of tradeagreement concessions.

U.S. imports of television picture tubes declined in three of the last four years. Imports in 1971, even though they were larger than in 1970, were less than they were in 1967, 1968, or 1969. The ratio of imports to U.S. consumption likewise declined during recent years-from 3.14 percent in 1967 to 1.8 percent in 1971, in the case of color tubes, and from 1.1 percent in 1967 to 2.2 percent in 1971, with respect to monochrome tubes. The decline in the ratio of imports of monochrome picture tubes to U.S. consumption occurred even though U.S. consumption of such tubes decreased by almost one-third from 1967 to 1971.

Although imports of television picture tubes are not increasing, U.S. imports of television receivers have grown steadily in recent years. Imports amounted to 5.4 million sets in 1971, compared with 1.7 million sets in 1967. However, even if we were to assume that

imports of television receivers containing picture tubes are, for purposes of the statute, like or directly competitive with the television picture tubes produced in plants of the RCA Corp., we would have to conclude, as we did in the recent "industry" investigation of television receivers, that such articles are not being imported in increased quantities as a result "in major part" of concessions granted under trade agreements. Our reasons for this conclusion are set forth in the separate statements of our views in the Commission's report in that investigation. 1/

In view of the foregoing, we have had to make a negative determination in this case.

<sup>1/</sup> U.S. Tariff Commission, Television Receivers and Certain Parts Thereof, . . . Investigation No. TEA-I-21 . . . TC Publication 436, pp. 4 ff. and 9 ff.

## Views of Chairman Bedell and Commissioner Moore

The petition for the instant investigation was filed on behalf of the workers of the RCA Corp. engaged in the production of television picture tubes. Until recently the RCA Corp. had produced television picture tubes at three locations in the United States--Lancaster, Pa., Scranton, Pa., and Marion, Ind. The Lancaster plant of the RCA Corp .-the only plant of the company producing television picture tubes in which there was significant unemployment in recent months -- produced picture tubes for color television receivers only. In the fall of 1971, RCA shut down the production of television picture tubes at the Lancaster plant. Employment declined steadily at the plant during the year; average monthly employment in December 1971 was only a small fraction of that in January 1971. The shutdown in color picture tube production at Lancaster and the resultant unemployment of workers were the principal reasons for the filing of the petition with the Commission for a determination of the workers' eligibility to apply for adjustment assistance under the Trade Expansion Act of 1962.

Under section 301(c)(2) of the Trade Expansion Act, each of the following criteria would have to be met before an affirmative determination could be made:

- Articles like or directly competitive with the television picture tubes produced by the workers of RCA Corp. must be imported in increased quantities;
- The increased imports must be in major part the result of concessions granted under trade agreements;

- 3. A significant number or proportion of the workers of the firm or appropriate subdivision thereof must be unemployed or underemployed; and
- 4. The increased imports resulting in major part from trade-agreement concessions must have been the major factor causing or threatening to cause the unemployment or underemployment.

In our judgment the fourth criterion given above has not been met in the instant case. While increased imports were a factor causing the unemployment of workers at the Lancaster, Pa., plant of the RCA Corp., they were not the major factor (emphasis added) required by the Trade Expansion Act of 1962.

U.S. imports of color television picture tubes currently are small and supply only a small share of the domestic market. Imports in 1971--some 122,000 units--were larger than in 1970, but smaller than in any of the 3 previous years (1967-69). The imports supplied less than 2 percent of the U.S. market for such tubes in 1971, compared with the peak market share of more than 5 percent in 1968. U.S. imports of color television receivers, in contrast to the trend of imports of the color tubes, have increased steadily in recent years; imports of such receivers in 1971 (1.3 million units) were 40 percent greater than in 1969 (912,000 units). Although the data does not appear subsequently in this report, U.S. imports of color television receivers recorded in the import class covering the largest picture tube size (over 17 inches) were substantially larger in 1971 than in 1970. The picture tubes in these sets would be of the size that would be most nearly competitive with the picture tubes produced domestically by RCA at Lancaster (also mostly in the larger sizes).

While there thus may be some question whether there are increased imports of color picture tubes within the meaning of the statute, there clearly are increased imports of color television receivers. However, even if we were to consider the picture tubes in imported color television receivers to be "like or directly competitive" with the color picture tubes produced by RCA, we could not, because of the reasons given below, conclude that such increased imports were the major factor causing the unemployment of the workers concerned.

\* \* \* \* \* \* \*

In view of the circumstances that existed, we have made a negative determination because increased imports were not the major factor causing the unemployment at the Lancaster plant.

#### INFORMATION OBTAINED IN THE INVESTIGATION

### Description and Uses

A television picture tube (cathode-ray tube) normally consists of a glass envelope with an electron gun vacuum sealed in the end opposite the display surface of the envelope. The interior of the display surface is usually coated with phosphors which become luminescent when struck by electrons emitted from the gun. The shape of the glass envelope, the complexity of the electron gun, the type of phosphors used, and the number and types of screens and plates used to direct electrons inside the cathode-ray tube vary in accordance with the ultimate use of the tube.

The monochrome-television picture tube has a single gun which emits electrons when energized. The electrons are focused to form a beam by a number of elements—e.g., grids and anodes—inside the tube. The beam is scanned across and down the interior of the display surface by means of electromagnetic deflection caused by the application of horizontal and vertical deflection signals to a deflection yoke which is outside the tube envelope. The deflection signals are developed in the television set from the received television signal. When the beam strikes the phosphor-coated interior of the display surface, the point of impingement glows in shades of gray depending upon the intensity of the electron beam. The intensity of the beam is also developed in the television set from the received television signal.

Color-television tubes differ from monochrome tubes in the makeup of the phosphor viewing screen, in the configuration of the electron gun, and in the presence of an additional element within the envelope frequently called a grill or shadow mask. A color picture tube actually consists of three complete picture tubes built within a single envelope. Instead of a single solid layer of phosphor emitting only white light, the color-tube surface is made up of small, individual dots of phosphor arranged in orderly trios, each dot of which emits a characteristic color when excited by an electron beam. The surface is made up of about 1-1/4 million of these phosphor dots, which glow red, green, or blue.

The color-tube electron gun is most often three guns combined into a single assembly, although some tubes utilize one gun which is switched to give the effect of three guns. In the three-gun type, one gun creates a beam of electrons which is controlled in such a manner that it strikes only the red-light-emitting phosphor dots. The beam from the second gun strikes only the blue-light-emitting phosphors. Similarly, the third gun provides the green picture information.

Between the electron gun and the phosphor screen is the heart of the color-television tube--the grill or shadow mask. The grill or shadow mask is a slotted or sievelike disc. A shadow mask contains about 400,000 holes, one hole for each phosphor-dot trio. These holes vary in diameter across the mask, according to a precise mathematical

formula, from 0.010 to 0.012 inch. The function of the grill or shadow mask is to shadow two phosphor dots sequentially as the appropriate electron beam strikes the third dot. The three electron beams sweep the interior of the display surface 60 times a second. The eye of the viewer blends the colors emitted by the trios of dots. If the blended color is not satisfactory to the viewer, more red, blue, or green may be added by changing the intensity of the beam striking the appropriate dots.

#### U.S. Tariff Treatment

Color- and monochrome-television picture tubes are dutiable at the current (January 1, 1972) rate of 15 percent ad valorem under item 687.50 of the Tariff Schedules of the United States.

Prior to the effective date of the TSUS (August 31, 1963), television picture tubes were dutiable under paragraph 353 (if in chief value of metal) or under paragraph 218 (if in chief value of glass) of the Tariff Act of 1930. 1/2 Under the Tariff Act of 1930, imports of such tubes under paragraph 353 were originally dutiable at 35 percent ad valorem and those under paragraph 218, at 60 percent ad valorem. Pursuant to successive trade-agreement concessions, these rates were reduced to 12 percent and to 30 percent ad valorem, respectively.

<sup>1/</sup> Television picture tubes were not articles of commerce at the time of the enactment of the Tariff Act of 1930 and were not specially provided for in that legislation.

Under the TSUS, from August 31, 1963, to December 7, 1965, television picture tubes (both color and monochrome) were dutiable at the rate of 12 percent ad valorem. The Tariff Schedules Technical Amendment's Act (Public Law 89-241) provided for a rate of 30 percent ad valorem, effective December 7, 1965, on imports of monochrometelevision picture tubes under item 687.50. The rate applicable to color-television picture tubes remained at 12 percent ad valorem under a newly created temporary item (item 911.90) until September 1, 1969, at which time item 911.90 was eliminated and color-television picture tubes became dutiable under item 687.50 at the same rate as monochrome-television picture tubes. The change in the rate provided in the technical amendments act came about as a result of a determination that the great bulk of picture-tube imports involved monochrome-television tubes which were clearly in chief value of glass and were dutiable at 30 percent ad valorem under the Tariff Act of 1930.

Pursuant to concessions granted in the Kennedy Round negotiations under the General Agreement on Tariffs and Trade (GATT), the rate of duty applicable to item 687.50 was reduced in five successive stages from 30 percent ad valorem to 27 percent on January 1, 1968, to 24 percent on January 1, 1969, to 21 percent on January 1, 1970, to 18 percent on January 1, 1971, and to 15 percent on January 1, 1972. For the historical development of rate changes applicable to television picture tubes, see tables 1 and 2.

In addition to the fully dutiable imports entered under item 687.50, television picture tubes are also entered under TSUS item 807.00. Under the provisions of this item, which has never been the subject of a trade-agreement concession, imported articles assembled in whole or in part of U.S.-fabricated components are subject to duty on the full value of the article less the value of U.S.-fabricated components contained therein; i.e., the value of the U.S. components is free of duty. In recent years, imports under item 807.00 have amounted to about 1 percent of total television picture tube imports.

Television receivers are dutiable at the current (January 1, 1972) rate of 5 percent ad valorem under item 685.20. Television receivers are also entered under TSUS item 807.00. Television receivers imported under item 807.00 accounted for 4 percent of total imports of television receivers in 1967 and for 26 percent in 1971. The 1930-72 rate history applicable to television receivers and parts not specially provided for is given in the following table.

Television receivers and certain parts thereof: U.S. rates of duty, 1930-72

. Effective date	:	Rate	:	Basis for rate
	:	Percent	:	
•	:	ad valorem	:	
	:		:	
June 18, 1930	·-:	35		Tariff Act of 1930.
Jan. 1, 1939	:	25		Trade agreement with the
	:			United Kingdom.
Jan. 1, 1948	:	15	:	GATT concession.
June 6, 1951	:	12.5	:	Do.
June 30. 1956	:	11.5	:	Do.
June 30, 1957	:	11		
June 30, 1958	:	10.5	:	
July 1, 1962	:	10		Do.
Aug. 31, 1963	:	10	•	Adoption of TSUS (item
	:		:	685.20).
Jan. 1, 1968	:	9	:	GATT concession.
Jan. 1, 1969	:	8	:	Do.
Jan. 1. 1970	:	. 7	:	Do.
Jan. 1, 1971	:	$\frac{1}{6}$	:	Do.
Jan. 1, 1972	:	5	:	Do.
•	:		:	

1/ An additional 10-percent import duty was imposed for the period Aug. 16, 1971, to Dec. 19, 1971 (Presidential Proclamations 4074 and 4098).

The rates of duty with respect to imports of television picture tubes and sets and imports for consumption are shown in tables 3 and 4.

Effective August 16, 1971, Presidential Proclamation 4074 imposed an additional duty of 10 percent ad valorem on most articles, including television picture tubes and receivers, which were not free of duty under the TSUS and which were the subject of tariff concessions granted by the United States in trade agreements. This additional duty was removed effective December 20, 1971. During the period August 16 to December 19, 1971, the aggregate duty on imports of television picture tubes was 28 percent, and that on television receivers was 16 percent.

#### U.S. Producers

The number of domestic manufacturers of television picture tubes has declined in recent years. In 1971, four companies accounted for virtually all of the domestic production of monochrome picture tubes and seven companies accounted for virtually all of the colortube production. RCA Corp., Sylvania Electric Products, Inc., and Westinghouse Electric Corp. manufactured both color and monochrome picture tubes. Admiral Corp., General Electric Co., Philo-Ford Corp., and Zenith Radio Corp. (Rauland Division) produced only color tubes, while Clinton Electronics Corp. manufactured only monochrome tubes. During 1967-71 the following companies ceased the domestic manufacture of monochrome tubes: Philo-Ford Corp. (1967), General Electric Co. (1970), Zenith Radio Corp. (1970), and RCA Corp. (1971). Motorola, Inc., discontinued U.S. production of color tubes in 1970 and Admiral Corp., in 1971.

In 1971, the following firms assembled television receivers, color tubes, or monochrome tubes in the United States.

Producers, as of Jan. 1, 1971, of--

Company (parent)	Television receivers	<u>Color</u> <u>tubes</u>	Monochrome tubes
Admiral Corp., Chicago, Ill. Andrea Radio Corp., Long Island	X	X	<del>-</del>
City, N.Y. Clinton Electronics Corp.,	X	-	-
Rockford, Ill.	<del>-</del>		X
Curtis-Mathes Manufacturing Co., Dallas, Tex.	X	. ·	-
General Electric Co., New York, N.Y.	Χ	X	-
Magnavox Co., Ft. Wayne, Ind.	X	-	-
Motorola, Inc., Franklin Park, Ill. Packard Bell (Teledyne), Los Angeles	X	<del>.</del>	-
Calif.	, X	<del>-</del>	-
Philco-Ford Corp. (Ford Motor Co.),			
Philadelphia, Pa.	X	X	-
RCA Corp., New York, N.Y. S C Electronics, Inc., (Audiotronics	X	X	<b>X</b>
Corp.), New Brighton, Minn. Sylvania Electric Products, Inc.	X	<del>-</del>	-
(General Telephone & Electronics),	V	v	X
Batavia, N.Y.	X	X	<b>A</b>
TMA Co., Wheeling, Ill. Warwick Electronics, Inc.,	X	• <b>–</b>	-
Chicago, Ill.	X	_	- -
Wells-Gardner Electronics Corp., Chicago, Ill.	X		·
Westinghouse Electric Corp., Elmira, N.Y.	_	X	χ
Zenith Radio Corp., Chicago, Ill.	X	X	_

In 1971 all of the companies listed above assembled color tele-vision sets except Clinton Electronics Corp. and Westinghouse Electric Corp.; 13 assembled monochrome receivers. One of the 15 firms that assemble television receivers (S C Electronics, Inc.) does not produce television sets for home entertainment, but exclusively for industrial and educational markets. In recent years, firms that discontinued U.S. production of television sets include Arvin Industries, Corton

Industries (purchased by Admiral), Emerson TV & Radio, Olympic Radio & TV, Setchell Carlson, and Westinghouse.

### U.S. Consumption

The consumption of color and monochrome picture tubes is closely related to the consumption of television receivers. A picture tube is an integral part of every receiver; consequently the tube is used either by an original television manufacturer or in the replacement market. Since regularly scheduled television broadcasting began in 1946, the U.S. consumer has purchased more than 175 million television sets, including 30 million color sets. More than half of these sets are still in use. More than 95 percent of U.S. households have at least one television set, and 40 percent have two or more sets. There are more television sets in use in the United States than telephones, refrigerators, or bathtubs. 1/

### Color-television picture tubes

During 1967-71, U.S. consumption (U.S. producers' shipments plus imports less exports) of color tubes increased (except in 1970) in terms of units and declined sharply (except in 1971) in terms of value (table 5 \* \* \*). While consumption of color tubes increased from 5.7 million units in 1967 to 6.0 million units in 1969, the value of such consumption declined from \$640.5 million to \$482.4 million. U.S. consumption amounted to about 5.2 million units, valued at \$361.0

<sup>1/</sup> Electronic Industries Association, Electronic Market Data Book, 1971.

million, in 1970 and 6.6 million units, valued at \$466.8 million, in 1971. The average value per color tube declined from \$113 in 1967 to \$69 in 1970, and amounted to \$70 in 1971. Advanced manufacturing equipment and techniques, gains in productivity, and consumer preferences for smaller size portable sets were the major factors which contributed to the sharp decline in the average value per tube.

### Monochrome television picture tubes

Unlike U.S. consumption of color tubes, which generally increased, U.S. consumption of monochrome tubes has declined sharply in both quantity and value since 1968 (table 6 \* \* \*). Consumption, which amounted to 5.3 million units, valued at \$79.5 million, in 1968, declined to 3.4 million tubes, valued at \$45.9 million, in 1971. A decline in the average unit value from \$15.01 per tube in 1968 to \$13.56 in 1971 accompanied the decline in units consumed.

### Television receivers

U.S. consumption of television receivers (color and monochrome) increased from 11.0 million in 1967 to 12.9 million units in 1969, declined to 12.3 million in 1970, and increased to 13.8 million units in 1971, an alltime high (table 7 \* \* \*). The value of consumption of receivers declined from \$2.5 billion in 1968 to \$2.0 billion in 1970, and amounted to \$2.4 billion in 1971. In each of the last 5 years, imports have supplied an increasing share of domestic consumption; the share supplied by imports more than doubled during the period, accounting for 39.4 percent of U.S. consumption in 1971.

### U.S. Production and U.S. Producers' Shipments

### Television picture tubes

During 1967-71, U.S. production of color tubes generally increased while production of monochrome tubes declined sharply (tables 5 and 6). Production of color tubes increased from 5.7 million units in 1967 to 6.9 million units in 1971; production of monochrome tubes, after increasing from 4.7 million units in 1967 to 5.7 million units in 1968, fell sharply each year thereafter and amounted to 3.3 million units in 1971. As previously noted, several companies have ceased production of television picture tubes in recent years.

U.S. producers' shipments of color and monochrome tubes have followed the same trend as U.S. production (\* \* \*). Color-tube shipments reached a peak in 1971, when they amounted to 6.7 million units, valued at \$477.9 million, while monochrome-tube shipments in 1971 were at a 20-year low (3.4 million units, valued at \$47.1 million). The average unit value of domestic shipments of color tubes declined from \$114 in 1967 to \$71 in 1970 and 1971; monochrome tubes declined from an average value of \$16 each in 1967 to slightly less than \$14 each in 1971.

### Television receivers

Shipments of U.S.-produced receivers have not kept pace with apparent consumption because imports, formerly nil or negligible, have supplied an increasing share of consumption, and exports, generally small, have not grown significantly. U.S. producers' shipments of

television receivers, which amounted to 9.6 million units, valued at \$2.2 billion, in 1967, increased in 1968 but declined in both 1969 and 1970 (table 7). In 1971, shipments amounted to 8.5 million sets, valued at \$2.0 billion.

#### U.S. Exports

### Color television picture tubes

In recent years U.S. exports of color tubes have exceeded U.S. imports. U.S. exports rose from 113,000 units in 1968  $\frac{1}{2}$  to 454,000 units in 1970, and declined to 175,000 units in 1971 (table 5). Canada and West Germany together have accounted for about three-fourths of total U.S. exports in recent years (table 8). The United Kingdom, the Netherlands, and France have accounted for much of the remainder.

#### Monochrome television picture tubes

U.S. exports of monochrome tubes, after declining from 378,000 units in 1968 to 116,000 units in 1970, increased slightly to 122,000 units in 1971; they have far exceeded U.S. imports in recent years (table 6). Small quantities of U.S. exports have been marketed throughout the world. In 1971, Canada was the principal market, followed by Chile, Iran, Italy, Peru, and Spain (table 9).

### Television receivers

During 1967-71, U.S. exports of television receivers fluctuated within a narrow range from a low of 126,000 sets in 1970 to a high of

<sup>1/</sup> U.S. exports of color tubes were not separately reported in

162,000 units in 1971 (table 7). In each of the years after 1967 the quantity of exports accounted for less than 2 percent of U.S. production. U.S. exports have been extremely small in relation to U.S. imports. The bulk of U.S. exports of television receivers have been shipped to markets in the Western Hemisphere, principally Canada, Mexico, Panama, Venezuela, and Brazil. Canada has been by far the largest recipient of color receivers exported from the United States.

### U.S. Imports

### Television picture tubes

- U.S. imports of television picture tubes have been very small in relation to U.S. consumption or U.S. producers' shipments. During 1967-71, U.S. imports of color tubes fluctuated from 38,000 units in 1970 to 314,000 units in 1968 (table 5). In 1971, U.S. imports amounted to 122,000 units, less than the quantities imported in 1967, 1968, or 1969. The ratio of imports of color tubes to U.S. consumption varied from 5.5 percent in 1968 to 0.7 percent in 1970. The ratio was 1.8 percent in 1971. Japan and Canada have been the principal sources of U.S. imports of color tubes. Japan alone supplied more than 90 percent of total U.S. imports in 1971 (table 10); many such tubes are used in the replacement market for imported television receivers.
- U.S. imports of monochrome tubes have also been irregular. Even though U.S. consumption of monochrome tubes has declined precipitously in recent years, the ratio of U.S. imports to U.S. consumption declined irregularly from 4.1 percent in 1967 to 2.2 percent in 1971. Japan and

Canada have also been the principal sources of U.S. imports of monochrome tubes (table 11). Imports of television picture tubes (color and monochrome) entering under item 807.00 have been insignificant.

### Television receivers

U.S. imports of television receivers have increased rapidly in recent years, capturing almost 40 percent of the U.S. market in 1971. Imports of television receivers increased from 1.6 million sets in 1967, to 2.7 million sets in 1968, to 4.0 million sets in 1969, to 4.5 million in 1970, and to 5.4 million sets in 1971 (table 7). The ratio of U.S. imports to U.S. consumption has increased from 15 percent to 39 percent during the last 5 years.

About one-fourth of total U.S. imports in 1971 entered under the provisions of TSUS item 807.00 (table 12). The ratio of item 807.00 imports to total U.S. imports increased from 4.3 percent in 1967 to 26.6 percent in 1970 and was 26.1 percent in 1971. Imports under item 807.00 have been largely monochrome receivers imported by U.S. producers. \* \* \*.

Japan has been by far the principal source of U.S. imports of television receivers, followed by Taiwan and Mexico (table 12). The great bulk of imports from countries other than Japan have been produced by subsidiaries of U.S. firms.

### RCA Corp.

RCA Corp., formerly known as the Radio Corp. of America, is a diversified multinational conglomerate which had sales in 1971 amounting to about \$3.5 billion. RCA's domestic manufacturing operations in electronics are spread over nine States and Puerto Rico, and the company also has subsidiaries in Canada, Mexico, Latin America, Europe, and the Far East. Production activities are organized among various divisions, including the Electronics Components Division, which has been part of the company structure for a considerable period and in which television picture tubes are made.

### Television picture tube plants

RCA Corp. currently produces color-television picture tubes at Scranton, Pa., and Marion, Ind., and rebuilt color tubes at Los Angeles, Calif. In the third quarter of 1971, RCA ceased production of color-television tubes at its Lancaster, Pa., plant. Previously, in March 1971, RCA had discontinued production of monochrome picture tubes at its Marion plant (the sole domestic location in which monochrome tubes were manufactured).

\* \* \* \* \* \* \* \*

## Unemployment in the Lancaster Area

Although the unemployment rate for the Lancaster, Pa., area has increased from 1.8 percent in 1967 to 3.5 percent in 1971, it has been substantially lower than either the national or State rate. In February 1972, the latest month for which data are available, the unemployment rate for the Lancaster area was 4.0 percent. The unemployment rates for Lancaster, the State of Pennsylvania, and the United States which prevailed during 1967-71 are shown in the table below.

Unemployment rates in Lancaster, in Pennsylvania, and in the United States, as a percentage of the civilian work force, 1967-71

Area	1967	1968	1969	1970	1971
Lancaster, Pa: Pennsylvania: United States:	1.8 3.4 3.8	3.2	2.9	4.0 :	5.2

Source: Bureau of Labor Statistics, Current Population Survey.

# Pennsylvania Unemployment Benefits

In Pennsylvania, unemployment compensation benefits are paid for a maximum of 30 weeks. The weekly benefits range from \$12 to \$81, depending upon the wages paid to the employee on a "highest quarterly wages" basis. In addition to the maximum \$81 weekly benefit, dependent benefits of up to \$8 per week for 30 weeks may be paid.

APPENDIX A STATISTICAL TABLES

Table 1.--Television picture tubes: U.S. rates of duty, Aug. 31, 1963, to Jan. 1, 1972

Effective	Rate of	duty	Basis for rate		
date	Mono-:	Color	basis for face		
	: Percent :	Percent :			
	ad valorem:	ad valorem:			
•	:	:			
Aug. 31, 1963:	: 12:	12 :	Adoption of TSUS (item 687.50).		
Dec. 7, 1965:		12 :	Adoption of TAA $1/$		
	:		(Public Law 89-241).		
Jan. 1, 1968:	: 27 :	12 :	GATT.		
Jan. 1, 1969:		12 :	GATT.		
Sept. 1, 1969:		24 :	TAA.		
Jan. 1, 1970:		21 :	GATT.		
Jan. 1, 1971		_ ,	GATT.		
Jan. 1, 1972	-		GATT.		
	:		6 10/5 11 11:		

1/ Tariff Schedules Technical Amendments Act of 1965. Under this act, the rate applicable to color-television picture tubes remained at 12 percent ad valorem under a newly created temporary item (911.90) until Sept. 1, 1969, at which time item 911.90 was eliminated and color-television picture tubes became dutiable under item 687.50 at the same rates as monochrome-television picture tubes.

2/ An additional 10-percent import duty was imposed for the period Aug. 16, 1971, to Dec. 19, 1971 (Presidential Proclamations 4074 and 4098).

Table 2.--Television picture tubes: U.S. rates of duty, 1930 to Aug. 31, 1963

: Rate of duty on tubes in chief : value of						: _:
Effe	ctive date	Metal		: . G.	lass	Basis for rate
		Monochrome	Color	Monochrome	Color	_ : :
				:ad val. o	: Percent r:ad val. on n:cents each	<u>r</u> :
June Jan.	18, 1930 1, 1939		: : 35 : 25	: 60% : 60%	: 60% : 60%	: Tariff Act of 1930 : Trade agreement wi : the United Kingd
Jan.	1, 1948	15	: 15	: min. 30%	: 50¢ ea. : min. 30% : max. 50%	: GATT concession.
June	10, 1955 30, 1962 30, 1963	: 13.5	: 13.5	<ul><li>30%</li><li>30%</li></ul>	: 30%	Do. Do. Do.

Table 3.--Television picture tubes: U.S. rates of duty and imports for consumption, 1964-72

Year :	Monochrome pi	cture tubes	Color picture tubes		
	Rate of duty	Imports	Rate of duty : Imports		
:	Percent : ad valorem :	1,000 units	Percent ad valorem	: : 1,000 units	
1964	$ \begin{array}{c}                                     $	$\frac{1}{1}$ 23  195  61  63  33  73	$\frac{3}{21}$	80	

<sup>1/</sup> Imports of monochrome- and color-television picture tubes were not separately reported in official statistics prior to 1966. In 1964, 76,000 television picture tubes (both color and monochrome) were imported; in 1965 such imports amounted to 91,000 units.

Source: Data on imports compiled from official statistics of the U.S. Department of Commerce.

<sup>2/</sup> Effective Dec. 7.

 $<sup>\</sup>overline{3}$ / Effective Jan. 1.

<sup>4/</sup> Effective Sept. 1.

 $<sup>\</sup>overline{5}/$  An additional 10-percent import duty was imposed for the period Aug. 16, 1971, to Dec. 19, 1971 (Presidential Proclamations 4074 and 4098).

<sup>6/</sup> Not available.

Table 4.--Television receivers: U.S. rates of duty and imports for consumption, 1963-72

Year .	•	Rate	of	duty	:	Imports
	÷ ,	Percent	ad	valorem	:	1,000 units
•	•				;	
1963				10	•	392
1964				10	:	714
1965	:			10	•	1,048
1966			*	10	•	1,518
1967				10		1,608
1968				1/9	•	2,708
1969				$\overline{1}/8$		4,034
1970	•			$\frac{-7}{1}$ / 7	-	-
1971	•				•	4,509
1972	-				•	5,447 3/
19/2				<u>1</u> / 5	:	<u>3/</u>
	:	-			:	

<sup>1/</sup> Effective Jan. 1.

Source: Data on imports compiled from official statistics of the U.S. Department of Commerce.

 $<sup>\</sup>overline{2}/$  An additional 10-percent import duty was imposed for the period Aug. 16, 1971, to Dec. 19, 1971 (Presidential Proclamations 4074 and 4098).

<sup>3</sup>/ Not available.

Table 5.--Color-television picture tubes: U.S. production, producers' shipments, imports for consumption, exports of domestic merchandise, and apparent consumption, 1967-71

(Quant	ity in th	101	sands of	u	nits; va	lue in	tho	us ands o	fo	iollars)
Year	U.S. produc- tion	: : F	roducers'	:	Im- :	Ex-	:	Apparent	: (	Ratio (percent) of imports to
	CIOII	:		•	:	P	:			consumption
:	Quanti ty									
•		:		:			:	0.1	÷	
1967:	,	:	5,573		193:	1/	:	<u>2</u> / 5 <b>,66</b> 5	:	3.4
1968:	•	:	5,490		314:	113	3:	5,691	:	5.5
1969:		:	5,978		148:	175	5:	5,951	:	2.5
1970:	- ,		5,642		38:	454	1:	5,226	• :	.7
1971:	6,851	<u>:</u>	6,689	:	122:	1 75	5:	6,636	:	1.8
•					Va	lue				
1067	7/	:	·	:	:	1 /	: 2/		:	
1967:	<u>5</u> /	:			14,964:	1/			:	2.3
1968:	3/ - <del>7</del> /	:	535,888		-			546,530	:	3.9
1969:	3/ -7/	:	490,532		7,996:			482,410	:	1.7
1970:	3/ 3/ 3/ 3/ 3/	:	402,686	:	•			361,003		.4
1971:	3/	:	477,939	<u>:</u>	4,253:	15,393	<u> </u>	466,799	:	.9
•				İ	Average ι	ınit va	llue			
:	<b>.</b> .	:		:	:		:		:	•
1967:	3/	:	\$114.04	:	\$77.53:	1/	:	\$113.06	:	-
1968:	3/	:	97.61	:	68.69:	\$96.69	:	96.03	:	-
1969:	3/	•	82.06	:	54.03:	92.10	):	81.06	:	·
1970:	3/ 3/ 3/ 3/ 3/	•	71.37	:	42.68:	95.39	:	69.08	:	-
1971:	<u>3</u> /	:	71.45	:	34.86:	87.96	:	70.34	:	-
:		•		:	:		:		:	

<sup>1/</sup> Exports of color-television picture tubes were not separately reported in official statistics prior to 1968.

Source: Production and producers' shipments compiled from reports submitted to the U.S. Tariff Commission by the domestic producers; imports and exports compiled from official statistics of the U.S. Department of Commerce.

<sup>2/</sup> Estimated in part.

 $<sup>\</sup>overline{3}$ / Data have not been compiled.

Table 6.--Monochrome-television picture tubes: U.S. production, producers' shipments, imports for consumption, exports of domestic merchandise, and apparent consumption, 1967-71

(Quant	ity in th	housands	of un	nits; va	lue in th	nousands of	dollars)		
Year	U.S. produc- tion	: :Produc :shipme :		Im- : ports :	Ex- : ports :		: Ratio :(percent) of : imports to :consumption		
:				Quai	ntity				
1967:	•		: 849 :	: 195:	<u>1</u> / :	<u>2</u> / 4,745	: 4.1		
1968: 1969:	•	-	612 : 683 :	61:	378: 213:	5,295 4,533	: 1.2 : 1.4		
1970: 1971:	,	•	936 : 434 :	33: 73:	116: 122:	3,787 3,385	: .9		
•		Value Value							
: 1967: 1968:	<u>3/</u> 3/		944 : 097 :	; 1,517: 1,242:	1/ 8,865:	2/ 70, <b>2</b> 60 79,474	: : 2.2 : 1.6		
1969: 1970:	<del></del> ,	: 70,	053 : 929 :	770: 459:	3,549: 2,720:	67,274 53,668	: 1.1		
1971:	3/	: 47,	094 :	859:	2,066:	45,887			
:		-4	A	verage u	unit valı	ie –			
1967:	$\frac{3}{7}$	•	.07:	\$7.78:	1/:	\$14.81	: :		
1968: 1969:	$\frac{\frac{3}{3}}{\frac{3}{3}}$ / $\frac{\frac{3}{3}}{\frac{3}{3}}$ /	: 14	.52 : .96 :	12.22:	\$23.45: 16.66:	15.01 14.84	:		
1970: 1971:	$\frac{3}{3}$		.21 : .71 :	13.91: 11.77:	23.45: 16.93:	14.17 13.56	: - : -		
•		:	:	:	:		:		

<sup>1/</sup> Exports of monochrome-television picture tubes were not separately reported in official statistics prior to 1968.

Source: Production and producers' shipments compiled from reports submitted to the U.S. Tariff Commission by the domestic producers: imports and exports compiled from official statistics of the U.S. Department of Commerce.

<sup>2/</sup> Estimated in part.

 $<sup>\</sup>overline{3}$ / Data have not been compiled.

Table 7.--Television receivers (monochrome and color): U.S. shipments, imports for consumption, exports of domestic merchandise, and apparent consumption, 1967-71

(Quantity	in thousands	of units	; value in	millions o	f dollars)
Period	U.S.: shipments:	Imports	Exports	Apparent consumption	Ratio (percent) of imports to consumption
:			Quantity		
1967: 1968: 1969: 1970:	10,032 : 9,050 : 7,873 :	1,608 2,708 4,034 4,509 5,447	: 144 : 157 : 126	: 12,596 : 12,927 : 12,256	: 21.5 : 31.2 : 36.8
:			Value		
1967: 1968: 1969: 1970: 1971:	2,210 : 2,300 : 2,093 : 1,757 : 2,047 :	124 203 296 316 413	28 33 26	: 2,475 : 2,356 : 2,047	: 8.2 : 12.6 : 15.4

Source: U.S. shipments compiled from data submitted in response to questionnaires of the U.S. Tariff Commission; imports and exports compiled from official statistics of the U.S. Department of Commerce.

Table 8.--Color-television picture tubes: U.S. exports of domestic merchandise, by principal markets, 1968-71 1/

' Market	1968	•	1969 :	1970	: ]	1971
	. Qu	an	tity (1,	000 uni	ts)	
	- Approximate of the state of t	0 0 Marie aniene m	e and a second s		:	
Canada	: 12	•	93 :	90		71
West Germany	: 67	:	59 :		•	58
United Kingdom	3		16:	58	•	21
Netherlands	: 1		<u>2</u> / :	43	:	10
France	: <u>1</u>	:	2/ :	4	:	5
Switzerland	: 20	6	2/ :	<u>2/</u>	;	3
Mexico	: 7	:	1	2	:	1
Belgium	: 2/	•	2	31		2/
All other	; 2	,	4	5		6
Total	: 113	•	175	454	:	175
10002		Va	ılue (1,	000 dol1	ars	.)
	e and the second	*		* C	:	
Canada	: 1,268	•	8.030	: 7,245	;	5,756
West Germany	•			: 23,948		5,498
United Kingdom	,		1,071		5 :	1,907
Netherlands	: 105		10	: 3,978	3:	761
France	: 99		16	: 638	3:	632
Switzerland	: 1,763	٠	8	:	3 :	261
Mexico	: 563		132	: 16	4:	82
Belgium	: 6		255	: 2,22	5:	26
All other	: 214	. :	400			470
Total	: 10,926		16,118	: 43,30	5 :	15,393
10001			•			

<sup>1/</sup> Exports of color-television picture tubes were not separately reported in official statistics prior to 1968. In 1967, exports of color- and monochrome-television picture tubes combined amounted to 400 thousand units, valued at \$19.2 million.

Source: Compiled from official statistics of the U.S. Department of Commerce.

<sup>2/</sup> Less than 500.

Table 9.--Monochrome-television picture tubes: U.S. exports of domestic merchandise, by principal markets, 1968-71 1/

Market	1968	1969	1970 :	1971
	Qua	antity (1,	000 units)	
		:	•	
Canada::	45	: 12:	10:	51
Chile::	8 :	: 13:	16:	14
Iran::	.25	5:	15 :	9
Italy::	15	: 13 :	3 :	8
Peru::	10	: 14 :	1:	8
Spain::	22	: 18:	9 ;	6
Belgium::	1 :	4 :	18 :	4
Colombia::	5 :	8:	5 :	4
Venezuela::	63 :	4 :	7:	2
Australia::	5 :	9:	3:	2
Costa Rica::	4 :	6:	2:	2
Philippine Republic:	8 :	4 :	2;	1
Mexico::	17	2:	6:	2/
Netherlands::	2/ :	22 :	3:	$\frac{2}{2}$
Israel::		12:	3:	$\frac{7}{2}$ /
Taiwan::	102 :	47 :	1:	
All other::	46 :	20 :	12 :	11
Total::	378 :	213 :	116 :	122
:	\	/alue (1,0	00 dollars	)
	•		:	<del></del>
Canada::	3,095:	436 :	238 :	887
Chile::	107 :	192 :	156 :	179
Iran::	540 :	119 :	368 :	156
Italy::	173 :	115 :	31 :	67
Peru:	163 :	268 :	13 :	165
Spain::	349 :	260 :	166 :	149
Belgium::	40 :	52 :	920 :	75
Colombia::	87 :	119 :	81 :	63
Venezuela:	1,083:		77 :	24
Australia:	186 :		29 :	32
Costa Rica::	79 :		31 ;	27
Mexico:	282 :		70 :	3
Netherlands:	18:		157 :	4
Israel:	35 :		52 :	3
Taiwan	946 :		7:	<i>3</i>
All other:	1 511 .	431 :		205
Total:	8,865:		$\frac{291}{2,720}$ :	
		J,J4J .		۵,000
1			•	

<sup>1/</sup> Monochrome-television picture tubes were not separately reported in official statistics prior to 1968. In 1967, exports of monochrome- and color-television picture tubes combined amounted to 400 thousand units, valued at \$19.2 million.

2/ Less than 500.

Table 10.--Color-television picture tubes: U.S. imports for consumption, by principal sources, 1967-71

Source .	1967	•	1968	:	1969	:	1970	:	1971
	3 6		Quanti	ty	(1,000	u	nits)		
	•	:	***************************************	:	·	:	······································	:	
Japan	: 89	:	86	:	97	:	32	:	114
Canada	: 16	:	99	•	51	:	4	:	8
Netherlands	: 87	:	128	:	$\underline{1}/$	:	1/	:	1/
All other	$:  \underline{1}/$	:	1	:	$\overline{1}/$	:	_ 2	:	$\overline{1}/$
Total	: 193	:	314	-:-	148		38	-:-	122
	• •		Value	(1	,000 do	11	ars)		-
	·	:		:		:		:	
Japan	: 6,226	:	4,930	:	5,070	:	1,438	:	3,929
Canada	: 943	:	5,472	:	2,901	:	160	:	267
Netherlands			11,141		5		3	:	8
All other	: 2		25		20	:	21	:	49
Total	: 14,964	:	21,568	-:-	7,996	-:-	1,622	-:-	4,253
									•

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 11.--Monochrome-television picture tubes: U.S. imports for consumption, by principal sources, 1967-71

Source	1967	:	1968	:	1969	:	1970	:	1971
:			Quanti	ty	(1,000	u	nits)		
:		;		:		:		:	
Japan:	185	:	55	:	59	:	30	:	22
Canada:	4	:	6	:	3	:	2	:	43
Taiwan:	-	:	_	:	_	:	1/	:	7
All other:	6	:	1/	:	1	:	_ 1	:	1
Total:	195	-:-	61	-:-	63	-:-	33	:-	73
; · · · · · · · · · · · · · · · · · · ·			Value	(1	,000 do	11	ars)		
:		:		:		:	<del> </del>	:	
Japan:	1,349	:	968	:	699	:	420	:	353
Canada:	130	:	270	:	58	:	18	:	451
Taiwan:	_	:	_	:	_	:	2/	:	45
All other:	38	:	4	:	13	:	_ 21	:	10
Tota1:	1,517	-:-	1,242	-:-	770	-:-	459	-:-	859
: 1/ Loop then 500	·	:		:		:	, ,	:	

<sup>1/</sup> Less than 500.

Source: Compiled from official statistics of the U.S. Department of Commerce.

 $<sup>\</sup>frac{2}{2}$  Less than \$500.

Table 12.--Television receivers: U.S. imports for consumption, total and those entered under TSUS item 807.00, by principal sources, 1967-71

		1967			1968			1969	•••		1970	•••		1971	
Source	Total	807.00 imports		Total	807.00 imports	mports	Total	807.00 in	imports	Total:	807.00 imports	· · · · · ·	Total	807.00 in	imports
	quantity of imports	uantity : Pe of :Quantity: imports:tt	: Percent: of: total:	quantity of imports	Quantity	Percent: of total:	quantity - of imports:	:(Quantity:	: Percent: of : total :	quantity of imports	Quantity:	Percent: of: total:	quantity of imports	:Quantity:	Percent of total
	THE PERSON NAMED IN THE PE	-	-				Mor	Monochrome							
; Japan:	1,216:		0.7 :	1,637	13	0.8	2,209 :	. 9	0.3	2,441 :	73	3.0 :	2,549	33 :	1.3
Taiwan:	37	31:	85.8	361:	355 :	98.3	649 :	632 :	97.4 :	840 :	766 :	91.2 :	1,248 :	1,040:	83.4
Hong Kong:				2	. 2	100.0	40 :	37:	92.5	32 :	27 :	34.4		1/2	· ·
Canada:	36:	26:	72.2 :		1/ :	1 1	. 15 :	14:	93.3 :	: 6 /1	∞ 1	88.9	11 :	 60 t	76.0
Total:	1,290	99	5.1 :	2,043	408	20.0	3,122	888	28.4	3,595	1,146	31.9	4,167	1,390	33.4
·	And the street of the street o				THE RESIDENCE OF THE PROPERTY			Color							
.: :	315	1/	'		26	3.9	: 878	18 :	2.0 :	850	2	0.2	1,191		0.4
Taiwan:		1 -					: 22 :	22 :	100.0	53 :	41 :	77.4 :	85 :	23 :	27.,
Mexico: Hong Kong	· · ·	···/ / / / / / / / / / / / / / / / / /	· · ·		1 1	1 1	1/ .	1/	· ·				1/	1	·
Canada:		3	100.0			100.0	 		100.0	, 11	6	81.8	. t	3	84.5
All other:	1/ :	1 2	10	1/ :	- 20	- 7	912	51	5.6	914	52	5.7	1,280	31	2.5
	0 1 0						1	Total	1						
.'		••								. 000 4	. 36		. 077 2	. 82	-
Japan:	1,531	. 6	0.6	2,299:	39 :	7.00	5,088 :	. 47 . 739	0.0	. 167,6		90.4	1.333	1.063:	79.7
alwan: Maxi co	· /s /-	. 1/	. 2.68	. 100	38	95.0	208 :	199	95.7	273 :	272	9.66	310	309	10.0
Hong Kong:	 []	 il		. 7	2 :	100.0	: 40 :	37 :	92.5 :	32 :	27	84.4 :		1/::	t
Canada:	39	: 29 :	74.4 :	4	. 5	75.0	: 26 :	25 :	96.2 :	: 07	17	85.0	. 5.	: 11	75.5
All other:	-		1	2 :	1.	1				. / [		-	46 :	100	- 20
Total:	1,608	. 69 ::	4.3 :	2,708:	437	16.1	: 4,034:	939:	23.3 :	4,509:	1,198	26.6:	5,447	1,421:	. 07
•	. •		••					••	•••	••		•	-	•	

Source: Compiled from official statistics of the U.S. Department of Commerce.