

**UNITED STATES TARIFF COMMISSION**

**CERTAIN SHEET GLASS**

**Report to the President  
on Investigation No. TEA-IR-7-73  
Under Section 351(d)(1) of the Trade Expansion Act of 1962**



**TC Publication 548  
Washington, D. C.  
February 26, 1973**

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Note.--The whole of the Commission's report to the President may not be made public since it contains certain information that would result in the disclosure of the operations of individual concerns. This published report is the same as the report to the President, except that the above-mentioned information has been omitted. Such omissions are indicated by asterisks.

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REPORT TO THE PRESIDENT

U.S. Tariff Commission,  
February 26, 1973

To the President:

This report is made pursuant to section 351(d)(1), of the Trade Expansion Act of 1962 (76 Stat. 900), which provides that--

So long as any increase in, or imposition of, any duty or other import restriction pursuant to this section or pursuant to section 7 of the Trade Agreements Extension Act of 1951 remains in effect, the Tariff Commission shall keep under review developments with respect to the industry concerned, and shall make annual reports to the President concerning such developments.

Introduction

To carry out concessions granted in the General Agreement on Tariffs and Trade (GATT), the United States reduced the rates of duty applicable to sheet glass in 1948, 1951, and 1956-58. Effective June 17, 1962, following an escape-clause investigation by the Tariff Commission under section 7 of the Trade Agreements Extension Act of 1951, as amended, the President took "escape action" with respect to sheet glass, increasing the rates of duty applicable to that product. In 1967, the President terminated the increased escape-action rates of duty on some sheet glass, but continued, at a reduced level, the escape-action rates on most window glass.

Since the initial escape action was taken by the President in 1962, the Commission, as required by section 351(d) of the Trade Expansion Act of 1962 (TEA), has undertaken regular reviews of developments respecting sheet glass. On petition of the domestic industry, the Commission has also conducted investigations of sheet

glass, as well as other flat glass and tempered glass, under section 301(b) of the TEA. A chronology of Commission and Presidential actions relative to the escape-action rates of duty on sheet glass is set forth in Appendix C; the most recent actions are discussed in the following paragraph.

On February 27, 1970, the President provided that the modified escape-action rates on window glass be phased out in three annual stages, the first stage to take effect on January 31, 1972. In mid-1971, under the provisions of the TEA, however, the domestic producers of sheet glass petitioned the Commission for an investigation of the escape-action rates on window glass under section 351(d)(3), and an investigation of sheet glass (as well as other flat glass and tempered glass) under section 301(b). On December 30, 1971, the Commission, pursuant to the investigation under section 351(d)(3), advised the President that the termination of existing escape-clause action rates of duty on window glass could lead to serious impairment of the economic condition of the sheet glass industry. Subsequently, the President, taking into account the advice received from the Tariff Commission and from the Secretaries of Commerce and Labor, extended the escape-action duties in effect on imports of sheet glass from January 31, 1972 to April 30, 1972. On January 31, 1972, the Commission, pursuant to the investigation under section 301(b), reported that it was equally divided on the question whether sheet glass, as a result in major part of trade-agreement concessions, was being imported in such increased quantities as to cause, or threaten to cause, serious

injury to the domestic industry producing like or directly competitive articles. Following this report, the President took no action, allowing the planned phase-out of the escape-action rates on window glass to begin on April 30, 1972. The second stage became effective on January 31, 1973, and the final stage is scheduled to take place at the close of January 31, 1974.

For the purpose of this report, sheet glass is discussed under three general categories, on a weight basis--thin sheet glass (not over 16 ounces per square foot), window glass (over 16 but not over 28 ounces per square foot), and heavy sheet glass (over 28 ounces per square foot). The rates of duty applicable to these types of glass, under the actions outlined above, are shown by detailed specifications in table 1, and their average ad valorem equivalents in 1971 (as applied to imports entitled to most-favored-nation (MFN) treatment) are shown in table 2.

Window glass measuring 100 united inches (length plus width) or less is currently dutiable at rates higher than the trade-agreement rates. The rates are scheduled to revert to the trade-agreement rates at the close of January 31, 1974. Window glass measuring over 100 united inches, all thin sheet glass, and all heavy sheet glass are dutiable at the trade-agreement rates (table 1). The modified escape-action rates of duty currently applicable to imports of window glass (of all weights described as window glass, by sizes subject to such rates), as well as the corresponding trade-agreement rates and the ad valorem equivalents of those rates, based on 1971 imports, are shown in the following table.

Window glass: U.S. rates of duty and average ad valorem  
equivalents, 1971

(Cents per pound; percent ad valorem)

Item	Rates of duty		Average ad valorem equivalents	
	Modified escape- action rate, eff. Apr. 30, 1972	Trade- agreement rate, eff. Jan. 30, 1974	Modified escape- action rate	Trade- agreement rate
Window glass measuring in united inches--			<u>Percent</u>	<u>Percent</u>
Not over 40:				
Ordinary-----	1.0¢	0.7¢	17.2	12.0
Colored or special--	1.0¢ + 2.5%.	0.7¢ + 2.5%.	4.0	3.5
Over 40 but not over 60:				
Ordinary-----	1.3¢	0.9¢	21.2	14.7
Colored or special-----	1.3¢ + 2.5%.	0.9¢ + 2.5%.	6.8	5.5
Over 60 but not over 100:				
Ordinary-----	1.4¢	1.1¢	18.9	14.8
Colored or special-----	1.4¢ + 2.5%.	1.1¢ + 2.5%.	9.2	7.8

So long as increased rates of duty remain in effect on U.S. imports of window glass measuring 100 united inches or less, the Commission is required, under the provisions of section 351(d)(1) of the Trade Expansion Act of 1962, to make an annual report on developments with respect to the industry concerned. This report presents data for window glass as well as for all sheet glass; it describes mainly the developments that have occurred since those related in the Commission's report to the President of January 31, 1972, covering all flat glass and tempered glass.



## Summary of Recent Developments

U.S. consumption of window glass, the type of sheet glass on which escape-action rates of duty are in effect, expanded greatly in 1971 and 1972. Apparent consumption of such glass in 1971-- \* \* \*  
 \* \* \* --was 21 percent greater than in 1970, and apparent consumption in January-September 1972-- \* \* \* --was 28 percent greater than in the corresponding period of 1971. The strong increase in demand stemmed from a buoyant housing market; new private housing starts were 42 percent greater in 1971 than in 1970 and 16 percent greater in the first 7 months of 1972 (the latest period for which data are available) than in the corresponding period of 1971.

Reflecting the strong demand, shipments of window glass by domestic producers and imports of window glass both rose, and inventories of domestic glass declined. In 1972 the domestic sheet glass industry was operating at near full capacity, and employment in the production of sheet glass was about 4 percent higher than in 1971. Domestic shipments increased 21 percent in 1971 and 12 percent in January-September 1972. Year-end inventories of sheet glass held by domestic producers dropped by half in 1971 (the latest year for which data are available). Imports rose by about the same proportion as domestic shipments in 1971 (23 percent), but then increased more sharply than domestic shipments in January-September 1972 (89 percent). Imports supplied 30 percent of apparent U.S. consumption in January-September 1972, compared with 20 percent in 1971. Imports of window

glass at the escape-action rates of duty (i.e., from countries entitled to MFN rates), and those from Communist countries at the full rates of duty, increased their share of the U.S. market in 1972. The share of the imports at escape-action rates supplied by Japan and Canada increased sharply from 7 and 2 percent, respectively, in 1971 to 15 and 7 percent, respectively, during January-September 1972. In January-September 1972, however, imports at the full rates of duty, primarily from the U.S.S.R. and Rumania, accounted for 32 percent of total imports, whereas they had accounted for 13 percent in 1968-70.

Prices of window glass in the U.S. market have been firm in 1972 and price discounting from list prices has been minimal, whereas, in 1970 and 1971 average prices realized by domestic producers had been materially below the list prices.

## U.S. Consumption

Apparent U.S. consumption of sheet glass in 1971 \* \* \*  
 \* \* \* was 8 percent larger than 1970 \* \* \* but was  
 still below the level of consumption of 1968 and 1969 \* \* \*  
 \* \* \* (table 3). Consumption in January-  
 September 1972 was 15 percent larger than the first 9 months of 1971.  
 Based on data for the first 9 months, it is estimated that the U.S.  
 consumption of sheet glass in 1972 will exceed the 2 billion pound  
 mark for the first time since 1964. This overall increase in con-  
 sumption results wholly from an increase in the consumption of window  
 glass; the use of thin and heavy sheet glass has declined in recent  
 years.

Apparent U.S. consumption of window glass was 21 percent larger  
 in 1971 \* \* \* than in 1970 \* \* \*  
 (table 4). During the first 9 months of 1972 the consumption of such  
 glass was larger than in the corresponding period in 1971 \* \* \*  
 \* \* \* These increases reflect the  
 buoyant situation in housing construction during the past two years.  
 New private housing starts (including farm housing) in 1971 totaled  
 2.1 million units, a 42 percent increase over the 1.5 million unit  
 starts in 1970. The first 7 months in 1972 showed a further increase  
 of 16 percent over the corresponding period in 1971.

## U.S. Producers and Employment

In 1972 window glass was produced, in conjunction with other sheet glass, by 4 firms at 11 establishments. The plant locations at which window glass was produced are as follows:

ASG Industries, Inc.  
Jeannette, Pa.  
Okmulgee, Okla.

Libbey-Owens-Ford Co.  
Charleston, W. Va.

PPG Industries, Inc.  
Henryetta, Okla.  
Mount Vernon, Ohio  
Clarksburg, W. Va.  
Mount Zion, Ill.  
Fresno, Calif.

Fourco Glass Co.  
Clarksburg, W. Va.  
Adamston Plant  
Rolland Plant  
Fort Smith, Ark.

Three sheet glass producing plants have been shut down since 1969, as follows: Ford Motor Company, Nashville, Tenn., March 1970 (its only plant producing sheet glass); ASG Industries, Inc., Arnold, Pa., December 1970; and Libbey-Owens-Ford Company, Shreveport, La., September 1971. These plant shut downs have caused a sharp employment decline in the domestic sheet glass producing industry, beginning in 1969. The average number of production and related workers fell from \* \* \* persons in 1968 to \* \* \* in 1971, a reduction of 34 percent (table 6). At the same time man-hours worked by production and related workers employed in the production of sheet glass dropped by 14 percent,

from \* \* \* in 1968 to \* \* \* in 1971. The decline in employment in the sheet glass industry since 1968 is almost wholly attributable to the three plant shut downs of 1970 and 1971.

Since 1969 the sheet glass industry has invested \$3.6 million to improve production facilities and product quality, to reduce labor and other manufacturing costs, to increase capacity, and to expand its product line.

#### U.S. Production, Shipments, and Inventories

The U.S. production of sheet glass in 1971 \* \* \* approached the 1969 output of \* \* \*, the largest since 1965. Output in the first 9 months of 1972 was at an annual rate slightly above the 1969 level (table 7).

The greatly increased demand for window glass has been the cause for the recent surge of sheet glass consumption, production, and shipments. Shipments of window glass by domestic producers, which have exceeded production for the past two years, amounted to \* \* \* \* \* in 1971, the highest in any year since 1959. Total shipments in 1972 are expected to surpass both years.

Window glass accounted for about 65 percent of sheet glass shipments in 1968 and 1969; heavy sheet glass accounted for 34 percent and thin sheet glass, 1 percent. The shipment distribution in 1971 was window glass, 76 percent; heavy sheet glass, 23 percent; and thin sheet glass, 1 percent.

Year-end inventories of sheet glass declined by 48 percent, from \* \* \* in 1969 to \* \* \* in 1971 (table 8). In 1971 such inventories were at the lowest level in more than a decade.

#### U.S. Imports

U.S. imports for consumption of sheet glass at MFN rates of duty fell steadily from 1968 to 1971, both absolutely and as a percentage of apparent consumption, from 582 million pounds and 29.5 percent to 359 million pounds and 19.0 percent (table 3). During January-September 1972, however, such imports increased to 380 million pounds, from 265 million pounds in the comparable period of 1971, and were greater than the annual totals in 1970 and 1971 (table 9). For this 9-month period, imports at MFN rates accounted for 24 percent of sheet glass consumption. Belgium has been traditionally the most important supplier of sheet glass and West Germany, Italy, and Japan the leading secondary suppliers (table 10).

Imports of sheet glass (mostly window glass) at the full rates of duty principally from the U.S.S.R. and Rumania increased greatly in the past two years and in January-September 1972 accounted for 7 percent of consumption.

In 1971, Belgium (22.0 million pounds) and West Germany (19.5 million pounds) were the leading MFN suppliers of window glass measuring not over 100 united inches (table 11). Along with Italy and Japan, these four countries had been traditionally the leading suppliers of window glass. In 1970, U.S.S.R. (31.7 million pounds) became the

leading supplier and in 1971, U.S.S.R. (32.7 million pounds) and Rumania (25.7 million pounds) were the principal suppliers. In January-September 1972, Rumania, Japan, the U.S.S.R., and Belgium with 56.6, 35.0, 31.7, and 30.8 million pounds, respectively, were the leading suppliers of window glass under 100 united inches. In 1971, the full rates of duty were equivalent on the average to almost 50 percent ad valorem; in January-September 1972, they were equivalent to 45 percent ad valorem.

#### U.S. Exports

U.S. exports of sheet glass (thought to be comprised almost entirely of window glass) continued to decline and amounted to 3.9, 3.7, and 2.0 million pounds in 1969, 1970, and 1971, respectively. These exports amounted to less than one-half of 1 percent of consumption, production, and shipments and less than 1 percent of imports in each of these years.

#### Prices

The list prices of window glass published by U.S. producers were virtually unchanged during 1971-72. The average list price and the weighted average delivered price of the domestic producers, by quarters in 1970-72, for a representative type window glass, "B" quality, 50-60 united inches, are shown in the following table.

Window glass: U.S. producers' published list prices and average delivered price on shipments in each quarter, 1970-72

(In cents per square foot)

Period	Window glass (19-ounce)	
	List price	Delivered price
1970:		
First quarter-----	11.7	10.8
Second quarter-----	11.2	9.9
Third quarter-----	10.9	10.3
Fourth quarter-----	10.9	10.5
1971:		
First quarter-----	10.9	10.3
Second quarter-----	11.8	10.7
Third quarter-----	11.8	11.2
Fourth quarter-----	11.8	11.4
1972:		
First quarter-----	11.8	11.7
Second quarter-----	11.8	11.7
Third quarter-----	11.8	11.7
Fourth quarter-----	11.8	11.7

Source: Derived from data furnished to the U.S. Tariff Commission by the producers.

The domestic list price of single strength window glass has remained unchanged since the second quarter of 1971. At that time the average delivered price of 10.7 cents per square foot was 9 percent below the published list price of 11.8 cents; during entire 1972, the delivered price of 11.7 cents was 1 percent below the list of 11.8 cents per square foot. The demand generated by the housing boom of the past two years is reflected in the rise of realized prices of window glass to nearly the level of list prices. Delivered prices of single strength window glass for individual domestic producers are shown in table 13.



In 1971-72 the published list prices of foreign producers increased over the 1970 prices of 19 ounce window glass (table 14). During the last three quarters of 1972 the average list prices of certain foreign producers were higher than those of domestic producers.



Appendix A

Statistical Tables



Table 1.--Sheet glass: U.S. rates of duty, imports for consumption, and calculated duty at the modified escape-action rates, 1971

TSUS item	Article	(Rates in cents per pound and percent ad valorem)					Imports			Calculated duty	
		Appendix item 1/	Statutory rate 2/	Trade agreement rate 3/	Escape-action rate: Original 4/ Modified 5/	1971	Amount	Ad valorem equivalent	Percent		
	Glass (including blown or drawn glass, but excluding cast or rolled glass and excluding pressed or molded glass) (whether or not containing wire netting), in rectangles, not ground, not polished and not otherwise processed, weighing over 4 oz. per sq. ft., provided for in TSUS items 542.11-98, inclusive:					1,000	1,000				
	Ordinary glass:										
	Weighing over 4 oz. but not over 12 oz. per sq. ft.:										
542.11	Measuring not over 40 united inches		1.5c	0.7c	1.3c	-	703	19		2.7	
542.13	Measuring over 40 united inches		1.9c	.9c	1.6c	-	61	2		4.0	
	Weighing over 12 oz. but not over 16 oz. per sq. ft.:										
542.21	Measuring not over 40 united inches		2.1c	1.0c	1.3c	-	671	69		10.2	
542.23	Measuring over 40 but not over 60 united inches		2.4c	1.1c	1.6c	-	74	11		14.8	
542.25	Measuring over 60 united inches		2.5c	1.2c	1.9c	-	5	1		18.3	
	Weighing over 16 oz. but not over 28 oz. per sq. ft.:										
542.31	Measuring not over 40 united inches	923.31	1.5c	.7c	1.3c	1.0c	2,755	473		17.2	
542.33	Measuring over 40 but not over 60 united inches	923.33	1.9c	.9c	1.6c	1.3c	4,816	1,021		21.2	
542.35	Measuring over 60 but not over 100 united inches	923.35	2.4c	1.1c	1.9c	1.4c	4,674	883		18.9	
542.37	Measuring over 100 united inches		2.8c	1.4c	2.4c		1,912	345		18.0	
	Weighing over 28 oz. per sq. ft.:										
542.42	Not over 2-2/3 sq. ft. in area		1.5c	.7c	1.3c	-	1,053	122		11.6	
542.44	Over 2-2/3 but not over 7 sq. ft. in area		1.9c	.9c	1.6c	-	831	114		13.7	
542.46	Over 7 but not over 15 sq. ft. in area		2.4c	1.1c	1.9c	-	839	112		13.3	
542.48	Over 15 sq. ft. in area		2.8c	1.4c	2.4c or 3.5c 6/	-	5,701	1,013		17.8	
	Colored or special glass:										
542.57	Weighing over 4 oz. but not over 12 oz. per sq. ft.:										
542.67	Weighing over 12 oz. but not over 16 oz. per sq. ft.:		4.0c	1.7c	2.2c	-	1	1/		2.5	
	Weighing over 16 oz. but not over 28 oz. per sq. ft.:										
542.71	Measuring not over 40 united inches	923.71	1.5c + 5%	0.7c + 2.5%	1.3c + 2.5%	1.0c + 2.5%	425	17		4.0	
542.73	Measuring over 40 but not over 60 united inches	923.73	1.9c + 5%	0.9c + 2.5%	1.6c + 2.5%	1.3c + 2.5%	77	5		6.8	
542.75	Measuring over 60 but not over 100 united inches	923.75	2.4c + 5%	1.1c + 2.5%	1.9c + 2.5%	1.4c + 2.5%	68	6		9.2	
542.77	Measuring over 100 united inches		2.8c + 5%	1.4c + 2.5%	2.4c + 2.5%		183	17		9.5	
	Weighing over 28 oz. per sq. ft.:										
542.92	Not over 2-2/3 sq. ft. in area		1.5c + 5%	0.7c + 2.5%	1.3c + 2.5%	-	349	32		9.1	
542.94	Over 2-2/3 but not over 7 sq. ft. in area		1.9c + 5%	0.9c + 2.5%	1.6c + 2.5%	-	758	81		10.8	
542.96	Over 7 but not over 15 sq. ft. in area		2.4c + 5%	1.1c + 2.5%	1.9c + 2.5%	-	499	65		13.1	
542.98	Over 15 sq. ft. in area		2.8c + 5%	1.4c + 2.5%	2.4c + 2.5c or 3.5c + 2.5c 6/	-	669	82		12.3	

1/ The rates of duty currently applicable to glass as the result of escape-clause action are set forth in these items of the TSUS appendix.

2/ Rates of duty currently applied to the products of countries or areas designated as Communist dominated or controlled.

3/ The most recent rates of duty placed in effect as a result of concessions granted under the General Agreement on Tariffs and Trade, as modified by proclamation of the TSUS. These rates were temporarily suspended on June 17, 1962.

4/ Rates of duty placed in effect June 17, 1962, by Presidential Proclamation No. 3455 under the escape-clause procedure, as modified by proclamation of the TSUS. These rates were superseded by the rates which were placed in effect by Presidential Proclamation No. 3762 on January 11, 1967.

5/ Rates of duty placed in effect at the close of April 30, 1972 in compliance with Presidential Proclamation No. 4102 of January 29, 1972. The rates of duty applicable to TSUS appendix items 923.31, 923.33, 923.35, 923.71, 923.73, and 923.75 are higher than the trade agreement rates and are therefore temporary. The modified rates of duty are scheduled to be reduced on January 31, 1973 and revert to the trade agreement rates on January 31, 1974.

6/ The escape-action rate on sheet glass weighing over 28 ounces per square foot and measuring over 15 but not over 16-2/3 sq. ft. in area was 2.4¢ per lb. (plus 2.5% ad valorem if colored or special); that on sheet glass weighing over 28 oz. per sq. ft. and measuring over 16-2/3 sq. ft. in area was 3.5¢ per lb. (plus 2.5% ad valorem if colored or special).

7/ Less than \$500.

Table 2.--Sheet glass weighing over 16 ounces but not over 28 ounces per square foot (window glass) and measuring not over 100 united inches: Average ad valorem equivalents of modified escape-action rates of duty and the trade-agreement rate of duty on effective dates based on 1971 most-favored-nation imports

TSUS item	Item	Average ad valorem equivalents		Imports		
		1971		1971		
		Percent	Percent	Quantity	Value	
Modified escape-action rates		Trade-agreement rate				
Jan. 11, 1967		Apr. 30, 1972	Jan. 31, 1973	Jan. 31, 1974	Quantity	Value
		Percent	Percent	Percent	1,000 pounds	1,000 dollars
	Sheet glass weighing over 16 ounces but not over 28 ounces per sq. ft. (window glass):					
	Measuring not over 40 united inches:					
542.31	Ordinary glass	18.9	17.2	15.4	47,273	2,755
542.71	Colored or special glass	4.1	4.0	3.8	622	425
	Measuring over 40 but not over 60 united inches:					
542.33	Ordinary glass	24.5	21.2	17.9	78,567	4,816
542.73	Colored or special glass	7.5	6.8	6.2	256	77
	Measuring over 60 but not over 100 united inches:					
542.35	Ordinary glass	20.2	18.9	17.5	63,071	4,674
542.75	Colored or special glass	9.7	9.2	8.7	327	68
	Average or total	20.9	18.8	16.7	190,117	12,816

Source: Compiled from official statistics of the U.S. Department of Commerce.  
 Note.--Ad valorem equivalents compiled from unrounded figures. Totals do not add due to rounding.

Table 9. --Sheet glass: <sup>1/</sup> U.S. imports for consumption entered at most-favored-nation rates of duty, by tariff provisions, 1968-71, January-September 1971, and January-September 1972

(In thousands of pounds)						
Item	1968	1969	1970	1971	Jan.- Sept. 1971	Jan.- Sept. 1972
Sheet glass weighing over 4 but not over 12 oz. per sq. ft. measuring in united inches--						
Not over 40-----	3,858	4,038	4,229	2,667	2,507	2,496
Over 40-----	78	37	118	268	268	344
Total, weighing not over 12 oz. per sq. ft.-----	3,936	4,075	4,347	2,935	2,775	2,840
Sheet glass weighing over 12 but not over 16 oz. per sq. ft. and measuring in united inches--						
Not over 40-----	11,458	10,467	11,735	6,859	4,979	4,261
Over 40 but not over 60-----	1,469	1,004	929	997	656	1,119
Over 60-----	302	22	60	82	52	365
Total, weighing over 12 but not over 16 oz. per sq. ft.-----	13,229	11,493	12,724	7,938	5,687	5,745
Sheet glass weighing over 16 but not over 28 oz. per sq. ft. and measuring in united inches--						
Not over 40-----	81,477	70,988	45,170	47,895	35,992	48,794
Over 40 but not over 60-----	136,504	99,639	74,084	78,824	58,927	93,076
Over 60 but not over 100-----	105,696	75,915	54,061	63,398	44,302	93,293
Over 100-----	25,394	23,228	20,597	25,543	15,190	35,131
Total, weighing over 16 but not over 28 oz. per sq. ft.-----	349,071	269,770	193,912	215,660	154,411	270,294
Sheet glass weighing over 28 oz. per sq. ft. and measuring in sq. ft.--						
Not over 2-2/3-----	31,861	26,900	21,380	20,713	17,054	16,276
Over 2-2/3 but not over 7-----	36,403	32,693	20,429	19,612	12,847	13,848
Over 7 but not over 15-----	29,800	26,503	20,308	14,970	10,521	11,947
Over 15 but not over 16-2/3-----	10,298	13,191	14,883	6,441	5,684	2,817
Over 16-2/3-----	107,888	98,258	86,630	70,575	55,790	55,904
Total, weighing over 28 oz. per sq. ft.-----	216,250	197,545	163,630	132,311	101,896	100,792
Grand total, at most-favored-nation rates of duty-----	582,487	482,883	374,613	358,844	264,769	379,671

<sup>1/</sup> Dutiable under TSUS items 542.11-542.25, 542.42-542.67, 542.92-542.98, and TSUS appendix items 923.31-923.77, inclusive. Imports dutiable under the TSUS appendix items are reported statistically under TSUSA items 542.31-542.35, and 542.71-542.75.

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

Table 10.--Sheet glass: <sup>1/</sup> U.S. imports for consumption, by principal sources, 1968-71, January-September 1971, and January-September 1972

Source:	1968	1969	1970	1971	Jan.- Sept. 1971	Jan.- Sept. 1972
Quantity (1,000 pounds)						
Belgium-----	170,581	127,246	94,409	82,554	60,838	68,297
West Germany---	72,593	70,921	58,349	36,153	25,163	37,369
Italy-----	56,915	45,668	40,336	22,933	19,433	16,720
Japan-----	56,800	45,365	35,914	18,596	10,365	44,220
Republic of China (Taiwan)-----	41,698	29,625	27,763	21,735	12,381	21,875
Canada-----	3,091	13,758	6,444	9,122	5,054	30,896
Poland-----	13,558	13,461	12,823	22,853	15,792	19,559
Finland-----	15,585	18,953	12,572	12,999	10,589	13,787
United Kingdom-----	48,972	41,685	16,348	10,027	9,125	14,043
France-----	20,692	14,167	6,837	1,031	975	680
All other-----	82,002	62,034	62,818	120,841	95,053	112,225
Total-----	582,487	482,883	374,613	358,844	264,768	379,671
Communist dominated countries----	46,227	40,423	40,418	72,497	48,567	111,403
Grand total----	628,714	523,306	415,031	431,341	313,335	491,074
Value (1,000 dollars)						
Belgium-----	12,706	10,511	8,765	7,312	5,549	6,242
West Germany---	6,400	6,498	5,908	3,688	2,840	3,511
Italy-----	4,297	3,523	3,123	1,805	1,576	1,318
Japan-----	4,844	4,072	3,181	1,562	915	3,220
Republic of China (Taiwan)-----	2,301	1,814	1,553	1,421	766	1,487
Canada-----	282	1,357	576	1,021	498	3,581
Poland-----	528	527	601	1,002	720	918
Finland-----	1,024	1,332	896	914	736	1,083
United Kingdom-----	3,599	3,029	1,266	788	711	965
France-----	2,018	1,452	1,045	296	281	176
All other-----	4,476	3,645	3,631	7,320	5,860	6,718
Total-----	42,475	37,760	30,545	27,129	20,452	29,219
Communist dominated countries----	1,869	1,718	1,828	2,994	1,905	4,913
Grand total----	44,344	39,478	32,373	30,123	22,357	34,132

<sup>1/</sup> Includes colored glass.

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



Table 11.--Sheet glass weighing over 16, but not over 28 ounces per square foot (window glass) and measuring not over 100 united inches: 1/ U.S. imports for consumption, by principal sources, 1968-71, January-September 1971, and January-September 1972

(In thousands of pounds)						
Source	1968	1969	1970	1971	Jan.- Sept. 1971	Jan.- Sept. 1972
West Germany---	36,736	34,434	22,147	19,453	11,961	26,485
Belgium-----	62,158	34,705	19,179	22,033	17,355	30,842
Italy-----	38,565	32,154	28,158	18,228	15,877	13,541
Japan-----	28,074	21,106	20,245	13,871	7,978	34,992
Republic of China (Taiwan)-----	21,758	13,494	15,574	12,108	6,504	13,650
Spain-----	3,451	3,230	2,272	9,854	6,081	13,527
Finland-----	14,222	16,567	9,280	8,760	7,203	10,024
Greece-----	3,019	7,664	7,398	12,200	8,804	6,709
Poland-----	10,023	10,504	7,461	12,077	8,696	9,994
Canada-----	440	2,857	770	3,778	745	16,613
Israel-----	14,536	9,757	9,308	8,801	7,851	1,079
United Kingdom-----	31,793	26,602	6,833	5,766	5,002	9,397
All other-----	58,903	33,469	24,690	43,188	35,164	48,310
Total-----	323,678	246,543	173,315	190,117	139,221	235,163
Communist dominated countries:						
U.S.S.R.---	28,997	28,770	31,731	32,728	25,124	31,679
Rumania---	5,827	3,512	3,839	25,740	13,799	56,610
All other--	5,246	4,144	2,686	11,027	7,417	19,989
Total--	40,070	36,426	38,256	69,495	46,340	108,278
Grand total----	363,748	282,969	211,571	259,612	185,561	343,441

1/ Dutiable in accordance with escape-clause provisions under TSUS appendix items 923.31, 923.33, 923.35, 923.71, 923.73, and 923.75. Such imports are reported statistically in TSUSA items 542.3120-542.3570 and 542.7100-542.7500, inclusive.

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

Table 12.--Sheet glass weighing over 16, but not over 28 ounces per square foot (window glass) and measuring not over 100 united inches: 1/ U.S. imports for consumption, by principal sources, 1968-71, January-September 1971, and January-September 1972

(In thousands of dollars)

Source	1968	1969	1970	1971	Jan.- Sept. 1971	Jan.- Sept. 1972
West Germany----	2,785	2,613	1,910	1,614	1,083	2,122
Belgium-----	3,854	2,353	1,614	1,571	1,259	2,363
Italy-----	2,644	2,360	2,050	1,402	1,259	1,050
Japan-----	2,215	1,975	1,619	1,095	665	2,341
Republic of China (Taiwan)-----	1,163	805	814	760	385	907
Spain-----	218	206	139	686	459	995
Finland-----	934	1,157	613	565	453	753
Greece-----	140	367	317	535	375	376
Poland-----	399	426	370	518	390	488
Canada-----	33	282	88	501	106	1,961
Israel-----	745	517	476	463	411	56
United Kingdom-----	2,206	1,838	509	443	380	634
All other-----	3,476	1,959	1,548	2,663	2,233	2,895
Total-----	20,812	16,858	12,067	12,816	9,458	16,941
Communist dominated countries:						
U.S.S.R.----	1,256	1,300	1,464	1,582	1,146	1,671
Rumania----	187	113	134	876	392	2,190
All other--	223	178	118	425	292	900
Total--	1,666	1,591	1,716	2,883	1,830	4,761
Grand total----	22,478	18,449	13,783	15,699	11,288	21,702

1/ Dutiable in accordance with escape-clause provisions under TSUS appendix items 923.31, 923.33, 923.35, 923.71, 923.73, and 923.75. Such imports are reported statistically in TSUSA items 542.3120-542.3570 and 542.7100-542.7500, inclusive.

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

Table 14.--Clear sheet glass, 19 ounce, "B", 50 to 60 united inches:  
Average published list prices by U.S., West European, and Japanese  
producers in each quarter, 1970-72

(In cents per square foot)

Period	Domestic	West European	Japanese
1970:			
First quarter-----	11.7	11.0	11.2
Second quarter-----	11.2	11.0	11.2
Third quarter-----	10.9	11.0	11.2
Fourth quarter-----	10.9	11.0	11.2
1971:			
First quarter-----	10.9	11.2	11.2
Second quarter-----	11.8	11.2	11.2
Third quarter-----	11.8	11.4	11.2
Fourth quarter-----	11.8	11.4	11.3
1972:			
First quarter-----	11.8	11.4	11.3
Second quarter-----	11.8	12.2	11.9
Third quarter-----	11.8	12.2	11.9
Fourth quarter-----	11.8	12.6	11.9

Source: Compiled from manufacturers' and sales agents' price-lists.



Appendix B

Supplementary Statistics

## Appendix B

Table A.--Flat glass: U.S. production, 1968-71, January-September 1971, and January-September 1972

(In millions of pounds) <sup>1/</sup>						
Item	1968	1969	1970 <sup>2/</sup>	1971	Jan.- Sept. 1971	Jan.- Sept. 1972
Flat glass, total--	3,730	3,937	3,758	4,635	3,413	3,884
Sheet glass, total-----	1,375	1,500	1,372	1,428	1,046	1,130
Window glass:						
Single strength-----	620	678	664	757	543	638
Double strength-----	271	285	281	312	224	283
Heavy sheet glass-----	400	449	378	331	258	184
Thin, or colored sheet glass-----	84	88	49	28	21	25
Plate, float, and rolled glass, total-----	2,355	2,437	2,386	3,207	2,367	2,754
Plate and float not over 1/8 inch-----	694	744	726	863	642	632
Plate and float, over 1/8 inch, not over 1/4 inch-----	1,434	1,460	1,384	2,020	1,507	1,879
Plate and float, over 1/4 inch and rolled glass-----	227	233	276	324	218	243

<sup>1/</sup> Converted from data reported in other units on the basis of 1.19 pounds per square foot (single strength equivalent) for window glass; 1.63 pounds per square foot for plate and float glass not over 1/8-inch; 3 pounds per square foot for that over 1/8-inch not over 1/4-inch; and 3.4 pounds per square foot for that over 1/4-inch in thickness and rolled glass.

<sup>2/</sup> Revised.

Source: U.S. Bureau of the Census.

Table B.--Flat glass: Shipments by U.S. producers, 1968-71, January-September 1971, and January-September 1972

Item	1968	1969	1970 <sup>1/</sup>	1971	Jan.- Sept. 1971	Jan.- Sept. 1972
	Quantity (million pounds) <sup>2/</sup>					
Flat glass, total-----	2,862	3,067	2,931	3,689	2,650	3,069
Sheet glass, total-----	1,305	1,378	1,273	1,415	1,039	1,082
Window glass:						
Single strength-----	622	638	659	814	589	643
Double strength-----	264	277	269	309	222	262
Heavy sheet glass-----	363	419	312	264	206	155
Thin or colored-----	56	44	33	28	22	22
Plate, float and rolled glass, total-----	1,557	1,689	1,658	2,274	1,611	1,987
Plate and float, not over 1/8 inch in thickness-----	545	581	550	697	521	489
Plate and float, over 1/8 inch but not over 1/4 inch in thickness-----	828	903	896	1,320	912	1,292
Plate and float, over 1/4 inch in thickness and rolled glass-----	184	205	212	257	178	206
	Value (million dollars)					
Flat glass, total-----	387.5	416.8	384.8	464.7	335.0	382.7
Sheet glass, total-----	139.5	150.1	131.6	150.3	109.2	119.4
Window glass:						
Single strength-----	63.0	66.1	64.7	82.5	58.9	68.1
Double strength-----	29.4	31.4	28.8	34.4	24.6	29.9
Heavy sheet glass-----	39.0	45.6	32.6	28.6	22.1	17.6
Thin or colored-----	8.1	7.0	5.5	4.8	3.6	3.8
Plate, float and rolled glass, total-----	248.0	266.7	253.2	314.4	225.8	263.3
Plate and float, not over 1/8 inch in thickness-----	114.5	120.9	104.4	123.1	91.8	84.7
Plate and float, over 1/8 inch but not over 1/4 inch in thickness-----	105.6	115.7	118.0	156.2	109.3	149.2
Plate and float, over 1/4 inch in thickness and rolled glass-----	27.9	30.1	30.8	35.1	24.7	29.4
	Unit value (cents per pound)					
Flat glass, average-----	13.5	13.6	13.1	12.6	12.6	12.5
Sheet glass, average-----	10.7	10.9	10.3	10.6	10.5	11.0
Window glass:						
Single strength-----	10.1	10.4	9.8	10.1	10.0	10.6
Double strength-----	11.1	11.3	10.7	11.1	11.1	11.4
Heavy sheet-----	10.7	10.9	10.4	10.8	10.7	11.4
Thin or colored-----	14.5	15.9	16.7	17.1	16.4	17.3
Plate, float and rolled glass, average-----	15.9	15.8	15.3	13.8	14.0	13.3
Plate and float, not over 1/8 inch in thickness-----	21.0	20.8	19.0	17.7	17.6	17.3
Plate and float, over 1/8 inch but not over 1/4 inch in thickness-----	12.8	12.8	13.2	11.8	12.0	11.5
Plate and float over 1/4 inch in thickness and rolled glass-----	15.2	14.7	14.5	13.7	13.9	14.3

<sup>1/</sup> Revised.

<sup>2/</sup> Converted from data reported in other units, on the basis of 1.19 pounds per square foot (single strength equivalent) for window glass; and 1.63 pounds per square foot for plate and float glass not over 1/8 inch, 3 pounds per square foot for that over 1/8 inch but not over 1/4 inch, and 3.4 pounds per square foot for that over 1/4 inch in thickness and rolled glass.

Source: U.S. Bureau of the Census.

Appendix C

Sheet glass: Chronology of Tariff Commission  
investigations and of modifications of  
trade-agreement rates of duty by the  
President, May 1961-January 1972



## Appendix C

Sheet glass: Chronology of Tariff Commission investigations and of modifications of trade-agreement rates of duty by the President, May 1961-January 1972

Tariff Commission investigations		Action of the President
Number and date	Description	
No. 7-101, May 1961, Supplemental report January 1962	Industry investigation requiring the Commission to determine whether sheet glass was, as a result in whole or in part of trade-agreement concessions granted thereon, being imported into the United States in such increased quantities, either actual or relative, as to cause or threaten serious injury to the domestic industry producing like or directly competitive products. The Commission unanimously made an affirmative finding.	Imposed escape-action rates of duty (i.e., rates higher than existing trade-agreement rates) on sheet glass, effective June 18, 1962 (Proclamation 3455, Mar. 19, 1962, and Proclamation 3458, Mar. 27, 1962).
TEA-IR-7-63, September 1963	Annual review of the escape-action rates pursuant to sec. 351(d)(1) of the trade Expansion Act of 1962 (TEA).	
TEA-IA-4, June 1965	Report on the probable economic effects of terminating or reducing the escape-action rates of duty <u>1</u> / pursuant to sec. 351(d)(2) of the TEA.	Pursuant to sec. 351(c)(1)(a) of the TEA, the President on Jan. 11, 1967, terminated the escape-action rates of duty on all sheet glass except window glass not over 100 united inches. <u>2</u> / The escape-action rates on window glass not over 100 united inches were reduced and made effective through Oct. 11, 1967 (Proclamation 3762, Jan. 11, 1967).
TEA-IR-7-66, June 1966	Annual review of the escape-action rates pursuant to sec. 351(d)(1) of the TEA.	
TEA-I-EX-4, September 1967	Report on the probable economic effects of terminating the modified escape-action rates of duty on certain window glass pursuant to sec. 351(d)(3) of the TEA.	The modified escape-action rates of duty on window glass were continued unchanged through Dec. 31, 1969 (Proclamation 3816, Oct. 11, 1967).
TEA-IR-7-68, September 1968	Annual review of escape-action rates pursuant to sec. 351(d)(1) of the TEA.	
TEA-I-EX-6, December 1969	Report on the probable economic effects of terminating the modified escape-action rates of duty on certain window glass pursuant to sec. 351(d)(3) of the TEA.	The modified escape-action rates of duty were continued unchanged through Mar. 31, 1970 (Proclamation 3951, Dec. 24, 1969).
TEA-I-15, December 1969	Industry investigation requiring the Commission to determine whether sheet glass <u>3</u> / was, as a result in major part of concessions granted thereon under trade agreements, being imported into the United States in such increased quantities: as to cause, or threaten to cause, serious injury to the domestic industry producing like or directly competitive products. The vote of the Commission was equally divided on sheet glass.	The modified escape-action rates of duty were continued unchanged until Jan. 31, 1972, after which such rates were to revert to the trade-agreement rates in 3 annual stages (Proclamation 3967, Feb. 27, 1970).

See footnotes at end of table.

Sheet glass: Chronology of Tariff Commission investigations and modifications of trade-agreement rates of duty by the President--Continued

Tariff Commission investigations		Action of the President
Number and date	Description	
TEA-IR-7-71, February 1971	: Annual review of the escape-action rates : pursuant to sec. 351(d)(1) of the TEA.	
TEA-I-EX-7, December 1971	: Report on the probable economic effects of : terminating the escape-action rates of : duty pursuant to sec. 351(d)(3) of the : TEA.	: Modified escape-action rates of duty : were continued unchanged until : Apr. 30, 1972 (Proclamation 4102, : Jan. 29, 1972).
TEA-I-23, January 1972	: Industry investigation requiring the Com- : mission to determine whether sheet : glass <u>3/</u> is, as a result in major part : of concessions granted thereon under : trade agreements, being imported into : the United States in such increased : quantities as to cause, or threaten to : cause, serious injury to the domestic : industry producing like or directly : competitive products. : The vote of the Commission was equally : divided on sheet glass.	

1/ The Tariff Commission would ordinarily have submitted an annual review to the President on Sept. 28, 1964. This annual review was not undertaken, however, because of the investigation instituted on Mar. 30, 1964, under sec. 351(d)(2).

2/ The term "united inches" means the sum of the length and width of a rectangle of glass.

3/ This investigation covered in addition to sheet glass all other forms of flat glass and tempered glass.

