

**BOLTS, NUTS, AND LARGE SCREWS
OF IRON OR STEEL:
U.S. PRODUCTION, SHIPMENTS,
IMPORTS, EXPORTS,
APPARENT CONSUMPTION,
EMPLOYMENT,
MAN-HOURS,
AND PRICES, SECOND
CALENDAR QUARTER
1979**

**Report to the President
on Investigation
No. 332-103 Under
Section 332 of the
Tariff Act of 1930**

**USITC PUBLICATION 1000
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UNITED STATES INTERNATIONAL TRADE COMMISSION

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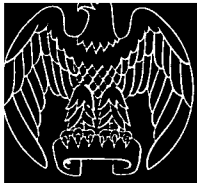
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USITC REPORTS RESULTS OF QUARTERLY SURVEY OF PRODUCERS OF BOLTS, NUTS, AND LARGE SCREWS OF IRON OR STEEL

The United States International Trade Commission has compiled its second quarterly survey of U.S. producers of bolts, nuts, and large screws of iron or steel, required under Presidential Proclamation No. 4632. The report, which provides information on an annual and monthly basis, is necessary for the monitoring of the effects of temporary increases in duties on imports. The information developed covers U.S. production, U.S. producers' shipments, imports for consumption, exports, apparent consumption, employment, man-hours, and prices.

Major findings of the survey indicate that during the second quarter of 1979, U.S. producers' shipments, based on quantity, were 2 percent less than shipments in the first quarter of 1979 but 14 percent greater than shipments in the fourth quarter of 1978. U.S. imports of bolts, nuts, and large screws were 1 percent less in the second quarter of 1979 than the quantities imported during the first quarter of 1979 and 3 percent greater than imports during the fourth quarter of 1978. The ratio of imports to consumption declined from

more

USITC REPORTS RESULTS OF QUARTERLY SURVEY OF PRODUCERS OF
BOLTS, NUTS, AND LARGE SCREWS OF IRON OR STEEL

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46 percent in the fourth quarter of 1978 to 42 percent in the first quarter of 1979 but increased slightly to 43 percent in the second quarter of 1979. The quantity of U.S. exports during the second quarter of 1979 were 15 percent greater than exports during the two previous quarters.

The average number of employees engaged in the production of bolts, nuts, and large screws gradually increased during each of the quarters under discussion. The man-hours expended by these workers during the second quarter of 1979 were 2 percent less than man-hours expended during the first quarter of 1979, and 5 percent greater than man-hours expended during the fourth quarter of 1978.

The average lowest net selling prices received in the second quarter of 1979 by U.S. producers for six representative fastener products were, on an average, about 6 percent higher than prices received during the last quarter of 1978 and first quarter of 1979.

The report is sent to the Special Representative for Trade Negotiations who is responsible for monitoring the effects of the temporary duty increases implemented by the Presidential proclamation.

Copies of the report (USITC Publication 1000) can be obtained by calling (202) 523-5178, or from the Office of the Secretary, 701 E Street NW., Washington, D.C. 20436.

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Summary Highlights of the Second Quarterly Survey of U.S. Producers
of Bolts, Nuts, and Large Screws of Iron or Steel

Production

From the fourth quarter of 1978 to the second quarter of 1979, U.S. production of bolts, nuts, and large screws increased 12 percent, from 243 million pounds to 271 million pounds.

U.S. producers' shipments

During the second quarter of 1979, U.S. producers' shipments were 2 percent less than shipments in the first quarter of 1979 but 14 percent greater than shipments in the fourth quarter of 1978. U.S. producers' intra-company shipments accounted for approximately 5 percent of total shipments during each of the three quarters under discussion.

Imports for consumption

U.S. imports of bolts, nuts, and large screws fluctuated slightly during the last three quarters, totaling about 192 million pounds during the second quarter of 1979.

Exports

The quantity of bolts, nuts, and large screws exported during the second quarter of 1979 were approximately 15 percent greater than in each of the two previous quarters.

Apparent consumption

Apparent consumption of bolts, nuts, and large screws during the second quarter of 1979 was 447 million pounds, which was about 4 percent less than in the first quarter of 1979 but 9 percent greater than apparent consumption in

the last quarter of 1978. The ratio of imports to consumption declined from 46 percent in the fourth quarter of 1978 to 42 percent in the first quarter of 1979 before increasing slightly to 43 percent in the second quarter of 1979.

Employment and man-hours

The average number of production and related workers engaged in the production of bolts, nuts, and large screws increased continuously during the last quarter of 1978 and the first two quarters of 1979, from 13,212 workers to 14,324 workers. The man-hours expended by these workers fluctuated mildly during the periods under discussion.

Prices

The average lowest net selling prices received in the second quarter of 1979 on six representative fastener products were, on an average, about 6 percent higher than prices received during the last quarter of 1978 and the first quarter of 1979.

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Table 1.--Bolts, nuts, and large screws of iron or steel: U.S. production
by types, by months, July 1978-June 1979

Period	Bolts and large screws	Nuts	Total
Quantity (thousands of pounds)			
1978:			
July-----	52,048	12,198	64,246
August-----	75,474	21,264	96,738
September-----	78,718	17,898	96,616
Total-----	206,240	51,360	257,600
October-----	85,488	21,315	106,803
November-----	78,473	21,349	99,822
December-----	79,112	19,181	98,293
Total-----	243,073	61,845	304,918
1979:			
January-----	86,160	23,338	109,498
February-----	82,889	23,045	105,934
March-----	92,660	26,487	119,147
Total-----	261,709	72,870	334,579
April-----	88,018	23,769	111,787
May-----	91,225	25,791	117,016
June-----	91,981	25,641	117,622
Total-----	271,224	75,201	346,425

Source: Compiled from data submitted in response to questionnaires of
the U.S. International Trade Commission.

Table 2.--Bolts, nuts, and large screws of iron or steel: U.S. producers' shipments, imports for consumption, exports of domestic merchandise, and apparent consumption, 1976-78, and specified periods July 1978-June 1979

Period	Quantity (thousands of pounds)			Apparent consumption	Ratio (percent) of imports to--	
	Producers' shipments	Imports	Exports ^{1/}		Shipments	Apparent consumption
1976-----	1,133,952	704,474	197,269	1,641,157	62	43
1977-----	1,175,563	716,916	218,265	1,674,214	61	43
1978-----	1,151,326	849,313	217,051	1,783,588	74	48
<u>1978</u>						
July-----	67,335	77,074	15,255	129,154	115	60
August-----	93,943	72,349	21,301	144,991	77	50
September-----	94,237	65,380	14,528	145,089	69	45
Total-----	255,515	214,803	51,084	419,234	84	51
October-----	100,634	66,751	20,439	146,946	66	45
November-----	92,699	67,107	17,723	142,083	72	47
December-----	83,616	53,181	15,413	121,384	64	44
Total-----	276,949	187,039	53,575	410,413	68	46
<u>1979</u>						
January-----	107,364	65,151	16,192	156,323	61	42
February-----	99,152	68,174	17,566	149,760	69	46
March-----	115,276	61,404	19,122	157,558	53	39
Total-----	321,792	194,729	52,880	463,641	61	42
April-----	103,489	46,270	24,769	124,990	45	37
May-----	107,568	68,862	19,074	157,356	64	44
June-----	105,460	77,122	17,651	164,931	73	47
Total-----	316,517	192,254	61,494	447,277	61	43
	Value (thousands of dollars)					
1976-----	986,432	227,390	107,055	1,106,767	23	21
1977-----	1,074,609	256,220	114,252	1,216,577	24	21
1978-----	1,095,332	368,865	133,112	1,331,085	34	28
<u>1978</u>						
July-----	59,224	31,841	8,258	82,807	54	39
August-----	85,074	31,029	10,348	105,755	37	29
September-----	84,806	30,697	9,575	105,928	36	29
Total-----	229,104	93,567	28,181	294,490	41	32
October-----	92,098	32,110	12,623	111,585	35	29
November-----	84,565	31,840	10,875	105,530	38	30
December-----	78,146	49,324	10,635	116,835	63	42
Total-----	254,809	113,274	34,133	333,950	44	40
<u>1979</u>						
January-----	100,701	31,158	10,382	121,477	31	26
February-----	94,958	34,421	11,041	118,338	36	29
March-----	111,421	29,544	11,926	129,039	27	23
Total-----	307,080	95,123	33,349	368,854	31	26
April-----	103,817	32,298	10,899	125,216	31	26
May-----	109,210	32,306	12,814	128,702	30	25
June-----	113,228	36,042	12,455	136,815	32	26
Total-----	326,255	100,646	36,168	390,733	31	26

1/ Prior to January 1, 1978, exports include bolts, threaded rods and studs, nuts if nuts and bolts are in the same shipment, screws, rivets, washers, and similar articles. It is estimated by the staff of the U.S. International Trade Commission that bolts, nuts, and large screws of iron or steel accounted for approximately 80 percent of total exports.

Source: U.S. producers' shipments, compiled from data submitted in response to questionnaires of the U.S. International Trade Commission; imports and exports, compiled from official statistics of the U.S. Department of Commerce, except as noted.

Table 3.--Bolts, nuts, and large screws of iron or steel: U.S. producers' shipments, by types, 1976-78, and specified periods, July 1978-June 1979

Period	Bolts and large screws	Nuts	Total
Quantity (thousands of pounds)			
1976-----	912,072	221,880	1,133,952
1977-----	950,607	224,956	1,175,563
1978-----	920,712	230,614	1,151,326
<u>1978</u>			
July-----	54,134	13,201	67,335
August-----	73,633	20,310	93,943
September-----	73,789	20,448	94,237
Total-----	201,556	53,959	255,515
October-----	76,496	24,138	100,634
November-----	73,258	19,441	92,699
December-----	70,335	13,281	83,616
Total-----	220,089	56,860	276,949
<u>1979</u>			
January-----	84,191	23,173	107,364
February-----	78,709	20,443	99,152
March-----	90,703	24,573	115,276
Total-----	253,603	68,189	321,792
April-----	81,246	22,243	103,489
May-----	83,986	23,582	107,568
June-----	82,907	22,553	105,460
Total-----	248,139	68,378	316,517
Value (thousands of dollars)			
1976-----	702,426	284,006	986,432
1977-----	779,917	294,692	1,074,609
1978-----	763,368	331,964	1,095,332
<u>1978</u>			
July-----	42,099	17,125	59,224
August-----	58,327	26,747	85,074
September-----	57,831	26,975	84,806
Total-----	158,257	70,847	229,104
October-----	59,954	32,144	92,098
November-----	58,323	26,242	84,565
December-----	53,644	24,502	78,146
Total-----	171,921	82,888	254,809
<u>1979</u>			
January-----	69,450	31,251	100,701
February-----	65,944	29,014	94,958
March-----	77,715	33,706	111,421
Total-----	213,109	93,971	307,080
April-----	72,713	31,104	103,817
May-----	75,811	33,399	109,210
June-----	80,401	32,827	113,228
Total-----	228,925	97,330	326,255

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 4.--Bolts, nuts, and large screws of iron or steel: U.S. producers' intracompany shipments, by types, by months, July 1978-June 1979

Period	Bolts and large screws	Nuts	Total
Quantity (thousands of pounds)			
1978:			
July-----	1,736	294	2,030
August-----	3,549	423	3,972
September-----	3,858	412	4,270
Total-----	9,143	1,129	10,272
October-----	4,479	467	4,946
November-----	4,582	474	5,056
December-----	4,277	651	4,928
Total-----	13,338	1,592	14,930
1979:			
January-----	4,050	410	4,460
February-----	3,483	395	3,878
March-----	4,662	555	5,217
Total-----	12,195	1,360	13,555
April-----	3,363	671	4,034
May-----	4,768	668	5,436
June-----	4,689	527	5,216
Total-----	12,820	1,866	14,686

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 5.--Bolts, nuts, and large screws of iron or steel: U.S. producers' shipments, by types, of imported bolts, nuts, and large screws further processed, by months, July 1978-June 1979

Period	Bolts and large screws	Nuts	Total
Quantity (thousands of pounds)			
1978:			
July-----	-	377	377
August-----	-	643	643
September-----	-	643	643
Total-----	-	1,663	1,663
October-----	-	727	727
November-----	-	657	657
December-----	-	461	461
Total-----	-	1,845	1,845
1979:			
January-----	-	698	698
February-----	-	551	551
March-----	-	822	822
Total-----	-	2,071	2,071
April-----	-	647	647
May-----	-	652	652
June-----	-	641	641
Total-----	-	1,940	1,940

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 6.--Bolts, nuts, and large screws of iron or steel: U.S. imports for consumption, by types, 1976-78, and specified periods, July 1978-June 1979

Period	Bolts and large screws	Nuts	Total
Quantity (thousands of pounds)			
1976-----	474,084	230,390	704,474
1977-----	491,140	225,776	716,916
1978-----	571,324	277,989	849,313
<u>1978</u>			
July-----	51,026	26,048	77,074
August-----	45,303	27,046	72,349
September-----	37,430	27,950	65,380
Total-----	133,759	81,044	214,803
October-----	38,995	27,756	66,751
November-----	41,211	25,896	67,107
December-----	23,825	29,356	53,181
Total-----	104,031	83,008	187,039
<u>1979</u>			
January-----	37,790	27,391	65,181
February-----	41,955	26,219	68,174
March-----	35,781	25,623	61,404
Total-----	115,526	79,233	194,759
April-----	24,369	21,901	46,270
May-----	45,499	23,363	68,862
June-----	51,528	25,594	77,122
Total-----	121,396	70,858	192,254
Value (thousands of dollars)			
1976-----	129,297	98,093	227,390
1977-----	156,006	100,214	256,220
1978-----	210,917	157,948	368,865
<u>1978</u>			
July-----	18,611	13,230	31,841
August-----	17,151	13,878	31,029
September-----	16,648	14,049	30,697
Total-----	52,410	41,157	93,567
October-----	16,573	15,537	32,110
November-----	17,374	14,466	31,840
December-----	32,629	16,695	49,324
Total-----	66,576	46,698	113,274
<u>1979</u>			
January-----	15,579	15,579	31,158
February-----	20,161	14,260	34,421
March-----	14,397	15,147	29,544
Total-----	50,137	44,986	95,123
April-----	19,253	13,045	32,298
May-----	19,024	13,282	32,306
June-----	21,378	14,664	36,042
Total-----	59,655	40,991	100,646

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

Table 7.--Average number of persons employed in U.S. establishments in which bolts, nuts, and large screws were produced, total and production and related workers engaged in the production of all products and of bolts, nuts, and large screws, 1976-78 and specified periods July 1978-June 1979

Period	All persons	Production and related workers engaged in the production of--			
		All products	Bolts and large screws	Nuts	Total, bolts nuts, and large screws
1976-----	34,339	27,080	10,032	3,435	13,467
1977-----	35,172	27,642	10,040	3,410	13,450
1978-----	35,920	27,738	9,982	3,334	13,316
<u>1978</u>					
July-----	35,072	26,536	9,391	3,142	12,533
August-----	35,167	26,616	9,678	3,262	12,940
September-----	35,274	26,755	9,323	3,310	12,633
Average-----	35,171	26,636	9,464	3,238	12,702
October-----	35,822	27,614	9,773	3,312	13,085
November-----	35,878	27,246	9,863	3,380	13,243
December-----	36,131	27,491	9,895	3,412	13,307
Average-----	35,944	27,450	9,844	3,368	13,212
<u>1979</u>					
January-----	36,438	27,667	10,063	3,489	13,552
February-----	37,069	28,203	10,266	3,514	13,780
March-----	37,125	23,376	10,359	3,585	13,944
Average-----	36,877	26,415	10,229	3,529	13,759
April-----	36,746	28,067	10,626	3,643	14,269
May-----	36,678	27,948	10,633	3,648	14,281
June-----	36,977	28,163	10,716	3,706	14,422
Average-----	36,800	28,059	10,658	3,666	14,324

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 8.--Man-hours expended by production and related workers in U.S. establishments in which bolts, nuts, and large screws were produced, 1976-78, and specified periods, July 1978-June 1979

(In thousands of man-hours)					
Period	All products	Bolts and large screws	Nuts	Total, bolts, nuts, and large screws	
1976-----	55,073	20,643	6,771	27,414	
1977-----	56,213	20,715	6,795	27,510	
1978-----	56,449	21,905	7,126	29,031	
<u>1978</u>					
July-----	3,984	1,582	485	2,067	
August-----	4,646	1,821	605	2,426	
September-----	4,667	1,914	637	2,551	
Total-----	13,297	5,317	1,727	7,044	
October-----	4,928	1,989	617	2,606	
November-----	4,848	1,954	635	2,589	
December-----	4,902	1,925	630	2,555	
Total-----	14,678	5,868	1,882	7,750	
<u>1979</u>					
January-----	5,061	2,018	691	2,709	
February-----	4,848	1,978	672	2,650	
March-----	4,605	2,222	757	2,979	
Total-----	14,514	6,218	2,120	8,338	
April-----	5,067	1,974	647	2,621	
May-----	5,135	1,971	666	2,637	
June-----	5,411	2,088	791	2,879	
Total-----	15,613	6,033	2,104	8,137	

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 9.--Bolts, nuts, and large screws: Ranges and averages of lowest net selling prices received by U.S. producers to distributors, by specified periods, January 1976-June 1979

(Per 1,000 pieces)					
Period	Domestic price				
	Cap screws, grade 2, 3/8" - 16 x 1"		Cap screws, grade 8, 3/8" - 16 x 1"		
	Range	Average	Range	Average	
1976:					
January-March-----	15.90- 30.00	21.74	21.28- 44.80	31.07	
April-June-----	15.90- 27.00	21.75	21.28- 44.68	30.61	
July-September-----	15.87- 27.30	22.05	21.28- 40.32	29.24	
October-December-----	15.90- 27.30	21.88	21.28- 43.80	30.91	
1977:					
January-March-----	15.90- 27.30	21.64	21.28- 44.63	30.51	
April-June-----	15.90- 31.57	20.53	21.28- 37.45	29.78	
July-September-----	15.90- 22.86	19.88	22.34- 34.20	29.74	
October-December-----	15.90- 24.00	19.85	22.34- 36.76	30.35	
1978:					
January-March-----	15.90- 24.00	21.92	28.45- 40.32	32.96	
April-June-----	15.90- 25.02	21.38	30.15- 43.74	34.07	
1978:					
July-----	17.58- 58.21	23.66	31.36- 42.50	35.96	
August-----	17.58- 38.21	23.36	31.36- 42.51	35.96	
September-----	17.58- 38.21	23.73	31.36- 42.51	37.68	
October-----	17.58- 38.21	24.54	31.36- 42.51	37.14	
November-----	17.58- 38.21	24.69	31.36- 42.82	38.09	
December-----	17.58- 38.21	24.69	31.36- 42.87	37.96	
1979:					
January-----	19.43- 38.76	25.68	31.36- 42.25	38.53	
February-----	19.43- 38.76	25.86	31.36- 43.27	38.70	
March-----	19.43- 38.76	26.12	31.36- 43.27	38.70	
April-----	22.24- 41.09	27.14	27.73- 55.39	40.29	
May-----	22.24- 41.09	27.06	27.73- 55.39	41.04	
June-----	22.24- 41.09	27.29	27.73- 67.50	41.68	

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 10.--Bolts, nuts, and large screws: Ranges and averages of lowest net selling prices received by U.S. producers to distributors, by specified periods, January 1976-June 1979

(Per 1,000 pieces)						
Period	Domestic price					
	Hexagon nuts, 1/4" - 20			Hexagon nuts, 1/2" - 13		
	Range	Average	Range	Average	Range	Average
1976:						
January-March-----	2.69- 8.81	5.66	17.60- 33.42	24.22		
April-June-----	2.69- 8.80	5.66	17.60- 33.02	24.23		
July-September-----	2.63- 9.78	5.85	17.60- 36.93	25.00		
October-December-----	2.63- 9.83	5.85	17.60- 28.40	23.84		
1977:						
January-March-----	2.59- 8.82	5.72	17.60- 32.88	24.44		
April-June-----	2.59- 8.70	5.64	17.60- 32.98	24.23		
July-September-----	3.06- 8.59	6.33	18.48- 29.68	23.52		
October-December-----	3.40- 8.76	6.45	18.48- 31.67	24.42		
1978:						
January-March-----	3.75- 9.00	6.50	18.48- 34.02	25.80		
April-June-----	4.00- 9.90	6.58	18.48- 37.26	26.20		
1978:						
July-----	4.03- 11.31	7.66	19.44- 37.80	28.22		
August-----	4.03- 9.90	7.31	19.44- 37.80	28.40		
September-----	4.03- 9.90	7.49	19.44- 37.80	28.90		
October-----	4.03- 9.90	7.51	19.44- 37.80	29.04		
November-----	4.03- 12.27	7.84	19.44- 37.26	28.15		
December-----	4.03- 9.90	7.55	19.44- 37.26	28.26		
1979:						
January-----	4.20- 9.90	7.62	21.97- 37.26	30.03		
February-----	4.20- 10.98	7.93	21.97- 41.04	30.51		
March-----	4.20- 6.98	7.91	21.97- 41.04	30.44		
April-----	4.21- 10.98	8.48	24.90- 41.04	31.88		
May-----	4.25- 10.98	8.44	24.90- 41.04	32.38		
June-----	4.27- 10.98	8.26	24.90- 41.04	32.89		

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 11.--Bolts, nuts, and large screws: Ranges and averages of lowest net selling prices received by U.S. producers on sales to distributors, by specified periods, January 1976-June 1979

(In thousands of pieces)					
Period	Domestic price				
	Structural bolts, A325 with nut, 3/4" x 2"			Carriage bolts, 3/8" x 3"	
	Range	Average	Range	Average	
1976:	:	:	:	:	:
January-March-----	189.43- 352.90	289.66	33.40- 74.40	49.46	
April-June-----	194.95- 357.00	308.26	33.40- 66.96	48.78	
July-September-----	199.30- 357.00	293.23	33.40- 66.96	50.55	
October-December-----	162.55- 339.20	272.34	33.40- 66.96	50.70	
1977:	:	:	:	:	:
January-March-----	215.00- 339.20	281.75	33.40- 55.80	47.78	
April-June-----	215.00- 339.20	282.92	33.40- 65.10	45.99	
July-September-----	215.00- 321.31	283.11	33.40- 55.80	43.57	
October-December-----	215.00- 321.30	278.76	33.40- 59.52	44.53	
1978:	:	:	:	:	:
January-March-----	216.41- 343.80	299.46	33.40- 59.52	44.68	
April-June-----	246.89- 343.80	314.20	37.40- 59.52	45.90	
1978:	:	:	:	:	:
July-----	249.35- 343.80	314.61	37.40- 44.70	58.94	
August-----	149.35- 343.80	316.42	42.72-144.70	58.98	
September-----	249.35- 343.80	313.63	37.40-144.70	59.24	
October-----	249.35- 343.80	317.18	37.40-149.14	59.86	
November-----	249.35- 343.80	324.17	37.40-149.14	62.11	
December-----	249.35- 343.80	319.99	37.40-149.14	60.80	
1979:	:	:	:	:	:
January-----	249.35- 343.80	318.63	48.06-149.14	66.11	
February-----	249.35- 388.50	330.08	48.06-149.14	66.49	
March-----	249.35- 388.50	328.90	49.46-149.14	67.29	
April-----	266.72- 388.50	345.94	45.64-149.96	68.89	
May-----	266.72- 420.00	351.68	49.87-149.96	69.49	
June-----	266.72- 420.00	346.57	49.98-149.96	69.89	

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

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