

**BOLTS, NUTS, AND LARGE SCREWS  
OF IRON OR STEEL:  
U.S. PRODUCTION, SHIPMENTS,  
IMPORTS, EXPORTS,  
APPARENT CONSUMPTION,  
EMPLOYMENT,  
MAN-HOURS, AND  
PRICES, FOURTH  
CALENDAR QUARTER  
1980**

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

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**UNITED STATES INTERNATIONAL TRADE COMMISSION**

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**United States International Trade Commission**

**Washington, D.C. 20436**

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

**Production**

U.S. production of bolts, nuts, and large screws during the fourth quarter of 1980 totaled 213 million pounds, which was 22 percent less than production during the fourth quarter of 1979, but 13 percent larger than production during the third quarter of 1980.

**U.S. producers' shipments**

During the fourth quarter of 1980, U.S. producers' shipments of bolts, nuts, and large screws amounted to 201 million pounds, which was about 20 percent less than shipments in the fourth quarter of 1979 but 8 percent more than shipments during the third quarter of 1980.

**U.S. imports**

U.S. imports of bolts, nuts, and large screws totaled 138 million pounds in the fourth quarter of 1980, which was 22 percent less than imports in the fourth quarter of 1979 and 15 percent less than imports in the third quarter of 1980.

**U.S. exports**

The quantity of bolts, nuts, and large screws exported during the fourth quarter of 1980 amounted to 33 million pounds, which was 19 percent less than exports during the fourth quarter of 1979, but 16 percent larger than exports during the third quarter of 1980.

Apparent consumption

Apparent consumption of bolts, nuts, and large screws during the fourth quarter of 1980 totaled 305 million pounds, which was 21 percent less than apparent consumption in the fourth quarter of 1979, and 5 percent less than the quantities consumed during the third quarter of 1980. The ratio of imports to consumption increased from 46 percent during the fourth quarter of 1979 to 51 percent during the third quarter of 1980 before decreasing to 45 percent during the fourth quarter of 1980.

Employment and man-hours

The average number of production and related workers engaged in the production of bolts, nuts, and large screws decreased, from 13,698 workers during the fourth quarter of 1979 to 11,330 workers during the fourth quarter of 1980. The man-hours expended by these workers decreased from 8,023,000 man-hours during the fourth quarter of 1979 to 6,026,000 man-hours during the third quarter of 1980, before increasing to 6,867,000 man-hours during the fourth quarter of 1980.

Prices

With the exception of prices received for carriage bolts, the lowest net selling prices received for five representative fastener products by U.S. producers in the fourth quarter of 1980 averaged about 8 percent more than prices received during the fourth quarter of 1979 and about 2 percent more than prices received during the third quarter of 1980. The average lowest net selling prices received for carriage bolts during the fourth quarter of 1980 were 2 percent less than prices received during the fourth quarter of 1979, and 9 percent less than prices received during the third quarter of 1980. ii

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Table 1.--Bolts, nuts, and large screws of iron or steel: U.S. production by types, by months, July 1978-December 1980

Period	Bolts and large screws	Nuts	Total
	Quantity (1,000 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
July-----	70,932 :	18,530 :	89,462
August-----	87,107 :	26,317 :	113,424
September-----	79,457 :	22,152 :	101,609
Total-----	237,496 :	66,999 :	304,495
October-----	84,894 :	26,086 :	110,980
November-----	71,784 :	21,813 :	93,597
December-----	52,110 :	15,771 :	67,881
Total-----	208,788 :	63,670 :	272,458
1980:			
January-----	73,497 :	20,139 :	93,636
February-----	72,084 :	21,022 :	93,106
March-----	73,185 :	23,363 :	96,548
Total-----	218,766 :	64,524 :	283,290
April-----	71,249 :	18,858 :	90,107
May-----	59,508 :	14,747 :	74,255
June-----	53,879 :	13,837 :	67,716
Total-----	184,636 :	47,442 :	232,078
July-----	41,664 :	9,144 :	50,808
August-----	47,897 :	12,232 :	60,129
September-----	62,472 :	15,942 :	78,414
Total-----	152,033 :	37,318 :	189,351
October-----	63,875 :	14,654 :	78,529
November-----	54,246 :	13,976 :	68,222
December-----	52,197 :	14,098 :	66,295
Total-----	170,318 :	42,728 :	213,046

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-December 1980

Period					Ratio (percent) of Apparent imports to--	
	ship- ments	Imports 1/	Exports 2/	consump- tion	Apparent Shipments	consump- tion
Quantity (1,000 pounds)						
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
1978:						
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
1979:						
January-----:	107,364	65,181	16,192	156,353	61	42
February-----:	99,152	68,174	17,566	149,760	69	46
March-----:	115,276	70,611	19,122	166,765	61	42
Total-----:	321,792	203,966	52,880	472,878	63	43
April-----:	103,489	68,070	24,769	146,790	66	46
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	214,054	61,494	469,077	68	46
July-----:	84,630	69,596	12,938	141,288	82	49
August-----:	97,699	68,857	15,781	150,775	70	46
September-----:	91,688	60,225	14,828	137,085	66	44
Total-----:	274,017	198,678	43,547	429,148	73	46
October-----:	99,680	55,543	15,844	139,379	56	40
November-----:	83,240	59,165	15,426	126,979	71	47
December-----:	66,181	61,577	9,982	117,776	93	52
Total-----:	249,101	176,285	41,252	384,134	71	46
1980:						
January-----:	90,113	61,594	9,500	142,207	68	43
February-----:	84,916	62,925	9,123	138,718	74	45
March-----:	88,374	60,206	10,705	137,875	68	44
Total-----:	263,403	184,725	29,328	418,800	70	44
April-----:	83,215	66,278	10,660	138,833	80	48
May-----:	72,405	64,396	9,761	127,040	89	51
June-----:	66,054	62,500	7,835	120,719	95	52
Total-----:	221,674	193,174	28,256	386,592	87	50
July-----:	52,387	60,282	6,644	106,025	115	57
August-----:	62,037	46,633	10,460	98,210	75	47
September-----:	71,617	55,675	11,794	115,498	78	48
Total-----:	186,041	162,590	28,898	319,733	87	51
October-----:	72,795	43,127	10,550	105,372	59	241
November-----:	64,962	46,226	12,330	98,858	71	47
December-----:	62,764	48,703	10,563	100,904	78	48
Total-----:	200,521	138,056	33,443	305,134	69	45
:	:	:	:	:	:	:

See footnotes at end of table.

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-December 1980--Continued

Period						Ratio (percent) of
	Producers'	Imports	Exports 1/	Apparent consumption	Imports to--	
	shipments				Apparent Shipments	
Value (1,000 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
1978:						
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
1979:						
January-----:	100,701	31,158	10,382	121,477	31	26
February-----:	94,958	32,554	11,041	116,471	34	28
March-----:	111,421	33,861	11,926	133,356	30	25
Total-----:	307,080	97,573	33,349	371,304	32	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
July-----:	93,715	31,440	882	124,273	34	25
August-----:	109,835	31,948	10,209	131,574	29	24
September-----:	107,083	28,712	10,412	125,383	27	23
Total-----:	310,633	92,100	21,503	381,230	30	24
October-----:	111,677	26,876	11,876	126,677	24	21
November-----:	93,767	28,474	10,717	111,524	30	26
December-----:	79,577	29,287	9,094	99,770	37	29
Total-----:	285,021	84,637	31,687	337,971	30	25
1980:						
January-----:	108,588	29,841	11,400	127,029	27	23
February-----:	101,606	29,038	11,896	118,748	29	24
March-----:	111,275	28,016	12,479	126,812	25	22
Total-----:	321,469	86,895	35,775	372,589	27	23
April-----:	101,310	30,103	10,949	120,464	30	25
May-----:	91,496	30,180	10,899	110,777	33	27
June-----:	93,760	29,877	10,800	112,837	32	26
Total-----:	286,566	90,160	32,648	344,078	31	26
July-----:	70,809	29,223	9,609	90,423	41	32
August-----:	84,725	23,512	11,280	96,957	28	24
September-----:	98,984	28,677	11,599	116,062	29	25
Total-----:	254,518	81,412	32,488	303,442	32	27
October-----:	93,715	22,032	12,784	102,963	24	21
November-----:	88,260	24,169	13,858	98,571	27	25
December-----:	84,654	25,546	11,585	98,615	30	26
Total-----:	266,629	71,747	38,227	300,149	27	24

1/ Prior to Jan. 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-December 1980

Period	Bolts and large screws	Nuts	Total
	Quantity (1,000 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
1978:	:	:	
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
1979:	:	:	
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
July-----:	69,758 :	14,872 :	84,630
August-----:	78,803 :	18,896 :	97,699
September-----:	74,826 :	16,862 :	91,688
Total-----:	223,387 :	50,630 :	274,017
October-----:	80,661 :	19,019 :	99,680
November-----:	68,456 :	14,784 :	83,240
December-----:	54,546 :	11,635 :	66,181
Total-----:	203,663 :	45,438 :	249,101
1980:	:	:	
January-----:	72,839 :	17,274 :	90,113
February-----:	69,792 :	15,124 :	84,916
March-----:	72,948 :	15,426 :	88,374
Total-----:	215,579 :	47,824 :	263,403
April-----:	69,023 :	14,192 :	83,215
May-----:	60,744 :	11,661 :	72,405
June-----:	54,056 :	11,998 :	66,054
Total-----:	183,823 :	37,851 :	221,674
July-----:	44,315 :	8,072 :	52,387
August-----:	51,626 :	10,411 :	62,037
September-----:	58,942 :	12,675 :	71,617
Total-----:	154,883 :	31,158 :	186,041
October-----:	58,982 :	13,813 :	72,795
November-----:	52,005 :	12,957 :	64,962
December-----:	49,449 :	13,315 :	62,764
Total-----:	160,436 :	40,085 :	200,521

Table 3.--Bolts, nuts, and large screws of iron or steel: U.S. producers' shipments, by types, 1976-78, and specified periods, July 1978-December 1980--Continued

Period	Bolts and large screws	Nuts	Total
Value (1,000 dollars)			
1976-----:	702,426 :	284,006 :	986,432
1977-----:	779,917 :	294,692 :	1,074,609
1978-----:	763,368 :	331,964 :	1,095,332
1978:	:	:	
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
1979:	:	:	
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
July-----:	68,049 :	25,666 :	93,715
August-----:	78,333 :	31,502 :	109,835
September-----:	76,869 :	30,214 :	107,083
Total-----:	223,251 :	87,382 :	310,633
October-----:	78,119 :	33,558 :	111,677
November-----:	65,673 :	28,094 :	93,767
December-----:	56,183 :	23,394 :	79,577
Total-----:	199,975 :	85,046 :	285,021
1980:	:	:	
January-----:	77,214 :	31,374 :	108,588
February-----:	72,302 :	29,304 :	101,606
March-----:	80,273 :	31,002 :	111,275
Total-----:	229,789 :	91,680 :	321,469
April-----:	74,550 :	26,760 :	101,310
May-----:	68,342 :	23,154 :	91,496
June-----:	68,634 :	25,126 :	93,760
Total-----:	211,526 :	75,040 :	286,566
July-----:	53,371 :	17,438 :	70,809
August-----:	63,029 :	21,696 :	84,725
September-----:	72,291 :	26,693 :	98,984
Total-----:	188,691 :	65,827 :	254,518
October-----:	68,918 :	24,797 :	93,715
November-----:	63,572 :	24,688 :	88,260
December-----:	61,683 :	22,971 :	84,654
Total-----:	194,173 :	72,456 :	266,629

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. imports for consumption, by types, 1976-78, and specified periods, July 1978-December 1980

Period	Bolts and large screws	Nuts	Total
Quantity (1,000 pounds)			
1976-----:	474,084 :	230,390 :	704,474
1977-----:	491,140 :	225,776 :	716,916
1978-----:	571,324 :	277,989 :	849,313
1978:	:	:	
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
1979:	:	:	
January-----:	37,790 :	27,391 :	65,181
February-----:	41,955 :	26,219 :	68,174
March-----:	49,988 :	25,623 :	70,611
Total-----:	124,733 :	79,233 :	203,966
April-----:	46,169 :	21,901 :	68,070
May-----:	45,499 :	23,363 :	68,862
June-----:	51,528 :	25,594 :	77,122
Total-----:	143,196 :	70,858 :	214,054
July-----:	47,722 :	21,874 :	69,596
August-----:	44,522 :	24,335 :	68,857
September-----:	39,263 :	20,962 :	60,225
Total-----:	131,507 :	67,171 :	198,678
October-----:	37,727 :	17,816 :	55,543
November-----:	39,973 :	19,192 :	59,165
December-----:	40,758 :	20,819 :	61,577
Total-----:	118,458 :	57,827 :	176,285
1980:	:	:	
January-----:	41,519 :	20,075 :	61,594
February-----:	44,519 :	18,406 :	62,925
March-----:	42,431 :	17,775 :	60,206
Total-----:	128,469 :	56,256 :	184,725
April-----:	45,255 :	21,023 :	66,278
May-----:	44,896 :	19,500 :	64,396
June-----:	41,170 :	21,330 :	62,500
Total-----:	131,321 :	61,264 :	193,174
July-----:	41,018 :	19,264 :	60,282
August-----:	30,189 :	16,444 :	46,633
September-----:	37,758 :	17,917 :	55,675
Total-----:	108,965 :	53,625 :	162,590
October-----:	28,881 :	14,246 :	43,127 <sup>6</sup>
November-----:	29,156 :	17,070 :	46,226
December-----:	30,630 :	18,073 :	48,703
Total-----:	88,667 :	49,389 :	138,056

Table 4.--Bolts, nuts, and large screws of iron or steel: U.S. imports for consumption, by types, 1976-78, and specified periods, July 1978-December 1980--Continued

Period	Bolts and large screws	Nuts	Total
	Value (1,000 dollars)		
1976-----:	129,297 :	98,093 :	227,390
1977-----:	156,006 :	100,214 :	256,220
1978-----:	210,917 :	157,948 :	368,865
1978:	:	:	
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
1979:	:	:	
January-----:	15,579 :	15,579 :	31,158
February-----:	18,294 :	14,260 :	32,554
March-----:	18,714 :	15,147 :	33,861
Total-----:	52,587 :	44,986 :	47,573
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
July-----:	18,916 :	12,524 :	31,440
August-----:	18,343 :	13,605 :	31,948
September-----:	16,683 :	12,029 :	28,712
Total-----:	53,942 :	38,158 :	92,100
October-----:	16,434 :	10,442 :	26,876
November-----:	17,243 :	11,231 :	28,474
December-----:	17,529 :	11,758 :	29,287
Total-----:	51,206 :	33,431 :	84,637
1980:	:	:	
January-----:	18,110 :	11,731 :	29,841
February-----:	18,326 :	10,712 :	29,038
March-----:	18,037 :	9,979 :	28,016
Total-----:	54,473 :	32,422 :	86,895
April-----:	18,891 :	11,212 :	30,103
May-----:	19,217 :	10,963 :	30,180
June-----:	18,089 :	11,788 :	29,877
Total-----:	56,197 :	33,963 :	90,160
July-----:	17,634 :	11,589 :	29,223
August-----:	13,789 :	9,723 :	23,512
September-----:	17,496 :	11,181 :	28,677
Total-----:	48,919 :	32,493 :	81,412
October-----:	13,500 :	8,532 :	22,032
November-----:	14,048 :	10,121 :	24,169
December-----:	14,911 :	10,635 :	25,546
Total-----:	42,459 :	29,288 :	71,747

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

Table 5.--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-December 1980

Period	Production and related workers engaged in the production of--				
	All persons	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
1978:	:	:	:	:	:
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
1979:	:	:	:	:	:
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	27,348	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
July-----:	36,396	28,022	10,686	3,423	14,109
August---:	35,811	27,476	10,387	3,599	13,986
September--:	35,259	27,123	10,213	3,550	13,763
Average---:	35,822	27,540	10,429	3,524	13,953
October---:	34,934	25,804	10,086	3,783	13,869
November---:	34,507	25,635	10,085	3,767	13,852
December---:	33,755	24,998	9,963	3,411	13,374
Average---:	34,399	25,479	10,044	3,654	13,698
1980:	:	:	:	:	:
January----:	33,816	24,688	9,984	3,675	13,659
February---:	33,682	24,678	9,944	3,707	13,651
March-----:	33,094	24,163	9,815	3,588	13,403
Average---:	33,531	24,510	9,914	3,657	13,571
April-----:	36,210	30,166	10,254	3,303	13,557
May-----:	34,701	25,622	9,594	3,246	12,840
June-----:	33,242	24,254	9,012	2,996	12,008
Average---:	34,718	26,681	9,620	3,182	12,802
July-----:	34,294	25,474	8,573	2,747	11,320
August---:	35,878	27,130	8,762	2,816	11,578
September--:	37,296	28,728	8,984	2,949	11,933
Average---:	35,823	27,111	8,773	2,837	11,610
:	:	:	:	:	:
October---:	36,837	28,306	8,487	2,794	11,281
November---:	36,243	27,834	8,508	2,892	11,400
December---:	36,380	28,291	8,471	2,838	11,309
Average---:	36,487	28,144	8,489	2,841	11,330
:	:	:	:	:	:

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

Table 6.—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-December 1980

(In 1,000 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	
1978:					
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	
1979:					
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	
July-----:	5,014	1,888	564	2,452	
August-----:	5,074	1,926	700	2,626	
September-----:	4,806	1,890	718	2,608	
Total-----:	14,894	5,704	1,982	7,686	
October-----:	4,974	2,110	767	2,877	
November-----:	4,550	1,910	747	2,657	
December-----:	4,171	1,807	682	2,489	
Total-----:	13,695	5,827	2,196	8,023	
1980:					
January-----:	4,576	1,807	691	2,498	
February-----:	4,338	1,791	703	2,494	
March-----:	4,653	1,962	764	2,726	
Total-----:	13,567	5,560	2,158	7,718	
April-----:	4,436	1,852	597	2,449	
May-----:	4,249	1,727	532	2,259	
June-----:	4,077	1,621	583	2,204	
Total-----:	12,762	5,200	1,712	6,912	
July-----:	3,960	1,418	421	1,839	
August-----:	4,431	1,448	466	1,914	
September-----:	4,841	1,695	558	2,273	
Total-----:	13,232	4,561	1,445	6,026	
October-----:	5,297	1,867	521	2,388	
November-----:	5,185	1,708	508	2,216	
December-----:	4,998	1,737	526	2,263	
Total-----:	15,480	5,312	1,555	6,867	

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

Table 7.--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-December 1980

(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
July-----:	22.24- 41.09	27.65	29.60- 55.39	41.98
August-----:	22.24- 41.09	27.67	29.60- 57.12	41.09
September-----:	22.24- 41.09	27.72	29.60- 57.12	41.35
October-----:	22.24- 41.09	28.16	30.80- 45.41	39.36
November-----:	22.24- 41.09	28.19	30.80- 46.80	40.88
December-----:	22.24- 41.09	28.55	30.80- 46.74	40.87
1980:	:	:	:	:
January-----:	22.24- 41.09	27.35	28.10- 45.41	37.48
February-----:	22.24- 41.09	27.58	28.10- 45.41	36.71
March-----:	22.24- 41.09	27.40	28.10- 45.41	37.10
April-----:	20.35- 41.09	27.88	28.10- 46.90	39.96
May-----:	20.35- 41.09	27.85	28.10- 46.90	39.64
June-----:	20.35- 41.09	27.95	28.10- 46.90	38.98
July-----:	22.35- 49.44	30.84	28.10- 53.76	40.17
August-----:	22.35- 49.44	30.80	28.10- 53.76	40.17
September-----:	22.35- 49.44	30.79	28.10- 53.76	40.10
October-----:	20.35- 49.44	29.91	28.10- 53.76	40.56
November-----:	20.35- 49.44	30.32	28.10- 56.16	44.28
December-----:	20.35- 49.44	30.40	28.10- 53.76	41.90

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

Table 8.--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-December 1980

		(Per 1,000 pieces)			
Period		Domestic price			
		Hexagon nuts, 1/4" - 20		Hexagon nuts, 1/2" - 13	
		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
July-----	:	7.52- 10.98	9.05	24.90- 41.04	31.87
August-----	:	7.52- 10.98	9.28	24.90- 41.04	31.95
September-----	:	7.52- 10.98	9.24	24.90- 41.04	31.90
October-----	:	4.30- 10.98	8.69	24.90- 41.04	32.47
November-----	:	4.30- 10.98	8.43	26.40- 41.04	32.65
December-----	:	4.31- 10.98	8.80	26.40- 41.04	33.13
1980:	:	:	:	:	:
January-----	:	4.30- 10.98	8.76	26.40- 41.04	33.30
February-----	:	4.30- 10.98	8.43	26.40- 41.00	32.01
March-----	:	4.30- 10.98	8.76	26.40- 41.00	33.00
April-----	:	3.90- 13.70	8.65	19.60- 41.00	32.15
May-----	:	3.90- 13.70	8.91	19.60- 41.00	32.22
June-----	:	3.90- 13.70	8.88	19.60- 41.00	32.19
July-----	:	4.33- 13.70	9.54	26.40- 41.04	33.59
August-----	:	4.33- 13.70	9.50	26.40- 41.04	32.89
September-----	:	4.33- 13.70	9.81	26.40- 41.04	33.73
October-----	:	3.90- 13.70	9.88	19.60- 45.52	38.82
November-----	:	3.90- 14.70	9.78	19.60- 45.19	33.98
December-----	:	3.90- 14.70	9.27	19.60- 43.73	33.59

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 on sales to distributors, by specified periods, January 1976-December 1980

(Per 1,000 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	
July-----	101.55- 388.50	345.17	:	50.20-149.96	73.21	
August-----	106.65- 388.50	351.29	:	48.98-149.96	69.75	
September-----	106.65- 388.50	343.90	:	50.20-149.96	70.07	
October-----	106.65- 388.50	311.29	:	48.99-149.96	72.47	
November-----	106.65- 388.50	311.98	:	50.20-149.96	73.07	
December-----	106.65- 390.42	313.91	:	50.20-149.96	74.24	
1980:	:	:	:	:	:	
January-----	106.65- 388.50	307.54	:	50.20-156.65	72.22	
February-----	106.65- 388.50	310.61	:	50.20-156.65	75.20	
March-----	106.65- 393.66	312.67	:	48.63-156.65	71.40	
April-----	266.72- 388.50	351.05	:	50.20-156.67	72.20	
May-----	266.72- 388.50	351.05	:	48.65-156.65	71.40	
June-----	266.72- 388.50	348.40	:	50.20-156.65	72.19	
July-----	302.10- 388.50	350.21	:	50.20-156.65	81.69	
August-----	302.10- 388.50	346.77	:	50.20-156.65	78.27	
September-----	302.10- 388.50	348.13	:	50.20-156.65	77.92	
October-----	300.46- 388.50	348.96	:	50.20-156.65	74.89	
November-----	302.10- 388.50	350.75	:	50.20-156.65	72.31	
December-----	302.10- 388.50	351.20	:	48.56-156.65	73.34	

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



