

**BOLTS, NUTS, AND LARGE SCREWS
OF IRON OR STEEL:
U.S. PRODUCTION, SHIPMENTS,
IMPORTS, EXPORTS,
APPARENT CONSUMPTION,
EMPLOYMENT,
MAN-HOURS, AND
PRICES, THIRD
CALENDAR QUARTER
1981**

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

USITC PUBLICATION 1202

NOVEMBER 1981

UNITED STATES INTERNATIONAL TRADE COMMISSION

COMMISSIONERS

Bill Alberger, Chairman

Michael J. Calhoun, Vice Chairman

Catherine Bedell

Paula Stern

Alfred E. Eckes

Eugene J. Frank

Kenneth R. Mason, Secretary to the Commission

This report was prepared principally by

James M. Brandon

Minerals and Metals Division

**Office of Industries
Norris A. Lynch, Director**

Address all communications to

Office of the Secretary

United States International Trade Commission

Washington, D.C. 20436

**Summary Highlights of the Eleventh 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 third quarter of 1981 totaled 207 million pounds, which was 9 percent greater than production during the third quarter of 1980, but 12 percent less than production during the second quarter of 1981.

U.S. producers' shipments

During the third quarter of 1981, U.S. producers' shipments of bolts, nuts, and large screws amounted to 186 million pounds, which was about the same as shipments in the third quarter of 1980 but about 13 percent less than shipments during the second quarter of 1981.

U.S. imports

U.S. imports of bolts, nuts, and large screws totaled 189 million pounds in the third quarter of 1981, which was 16 percent greater than imports in the third quarter of 1980, and 13 percent greater than imports in the second quarter of 1981.

U.S. exports

The quantity of bolts, nuts, and large screws exported during the third quarter of 1981 amounted to 39 million pounds, which was 35 percent greater than exports during the third quarter of 1980, and 4 percent greater than exports during the second quarter of 1981. During the third quarter of 1981, exports accounted for 19 percent of U.S. production of bolts, nuts, and large screws.

Apparent consumption

Apparent consumption of bolts, nuts, and large screws during the third quarter of 1981 totaled 336 million pounds, which was 5 percent greater than apparent consumption in the third quarter of 1980, but about 3 percent less than the quantities consumed during the second quarter of 1981. The ratio of imports to consumption was 56 percent during the third quarter of 1981, which was 7 percentage points greater than the ratio of imports to consumption during the first and second quarters of 1981.

Employment and man-hours

The average number of production and related workers engaged in the production of bolts, nuts, and large screws increased from 10,652 workers during the first quarter of 1981 to 11,118 workers during the third quarter of 1981. However, the average number of production and related workers reported during third quarter of 1981 was 4 percent less than the average number reported during the third quarter of 1980. The man-hours expended by these workers totaled 5,685,000 during the third quarter of 1981, which was about 6 percent less than man-hours expended during the third quarter of 1980 and about the same as man-hours expended during the second quarter of 1981.

Prices

The lowest net selling prices received by U.S. producers for six representative fastener products in the third quarter of 1981 averaged about 9 percent more than prices received during the third quarter of 1980 and were approximately 8 percent greater than prices received during the second quarter of 1981.

C O N T E N T S

	<u>Page</u>
1. Bolts, nuts, and large screws of iron or steel: U.S. production, by types, by months, July 1978-September 1981-----	1
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, January 1979-September 1981-----	2
3. Bolts, nuts, and large screws of iron or steel: U.S. producers' shipments, by types, 1976-78, and specified periods, January 1979-September 1981-----	4
4. Bolts, nuts, and large screws of iron or steel: U.S. imports for consumption, by types, 1976-78, and specified periods, January 1979-September 1981-----	6
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-September 1981-----	8
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, January 1979-September 1981-----	9
7. 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-September 1981-----	10
8. 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-September 1981-----	11
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-September 1981-----	12

Table 1.--Bolts, nuts, and large screws of iron or steel: U.S. production
by types, by months, July 1978-September 1981

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
1981:			
January-----:	58,030 :	16,108 :	74,138
February-----:	58,689 :	14,632 :	73,321
March-----:	62,586 :	16,418 :	79,004
Total-----:	179,305 :	47,158 :	226,463
April-----:	60,327 :	16,511 :	76,838
May-----:	58,377 :	18,432 :	76,809
June-----:	61,881 :	18,574 :	80,455
Total-----:	180,585 :	53,517 :	234,102
July-----:	46,845 :	15,408 :	62,253
August-----:	53,586 :	16,784 :	70,370
September-----:	56,003 :	18,323 :	74,336
Total-----:	156,444 :	50,515 :	206,959
	:	:	

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, January 1979-September 1981

(Quantity in thousands of pounds; value in thousands of dollars)						
Period				: Ratio (percent) of : Producers': : Apparent : imports to-- : ship- : Imports : Exports 1/: consump- : : Apparent : ments : : : : tion : Shipments: consump- : : : : : : : tion		
	Quantity					
	:	:	:	:	:	:
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
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	41
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
1981:						
January----:	63,817	54,563	9,633	108,747	85	50
February----:	63,091	48,709	12,824	98,976	77	49
March-----:	72,107	50,144	15,487	106,764	70	47
Total-----:	199,015	153,416	37,944	314,487	77	49
April-----:	71,061	56,783	11,675	116,169	80	49
May-----:	70,402	55,346	11,763	113,985	79	49
June-----:	73,688	55,427	14,151	114,964	75	48
Total-----:	215,151	167,556	37,589	345,118	78	49
July-----:	59,851	57,471	10,982	106,340	96	54
August----:	61,915	67,771	15,885	113,801	109	60
September--:	64,376	63,323	12,261	115,438	98	55
Total-----:	186,142	188,565	39,128	335,579	101	56

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, January 1979—September 1981—Continued

(Quantity in thousands of pounds; value in thousands of dollars)						
Period	Producers' ship- ments	Imports	Exports 1/	Apparent consump- tion	Shipments	Ratio (percent) of imports to-- Apparent consumption
Value						
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	353,881	133,112	1,316,101	32	27
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
1981:						
January-----:	87,597	27,600	9,952	105,245	32	26
February-----:	88,321	25,215	13,213	100,323	29	25
March-----:	103,457	26,768	15,761	114,464	26	23
Total-----:	279,375	79,583	38,926	320,032	28	25
April-----:	95,544	29,074	11,684	112,934	30	26
May-----:	94,520	27,609	13,234	108,895	29	25
June-----:	106,522	28,367	14,394	120,495	27	24
Total-----:	296,586	85,050	39,312	342,324	29	25
July-----:	85,705	28,187	11,904	101,988	33	28
August-----:	92,159	31,664	13,023	110,800	34	29
September-----:	100,858	29,970	11,930	118,898	30	25
Total-----:	278,722	89,821	36,857	331,686	32	27

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, January 1979-September 1981

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
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
1981: :	:	:	
January-----:	50,940 :	12,877 :	63,817
February-----:	50,872 :	12,219 :	63,091
March-----:	57,620 :	14,487 :	72,107
Total-----:	159,432 :	39,583 :	199,015
April-----:	55,659 :	15,402 :	71,061
May-----:	55,314 :	15,088 :	70,402
June-----:	57,302 :	16,386 :	73,688
Total-----:	168,275 :	46,876 :	215,151
July-----:	47,016 :	12,835 :	59,851
August-----:	49,107 :	12,808 :	61,914
September-----:	49,926 :	14,450 :	64,376
Total-----:	146,049 :	40,093 :	186,142
:	:	:	

Table 3.--Bolts, nuts, and large screws of iron or steel: U.S. producers' shipments, by types, 1976-78, and specified periods, January 1979-September 1981--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
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
1981:			
January-----:	60,876 :	26,721 :	87,597
February-----:	61,635 :	26,686 :	88,321
March-----:	71,543 :	31,914 :	103,457
Total-----:	194,054 :	85,321 :	279,375
April-----:	66,558 :	28,986 :	95,544
May-----:	65,219 :	29,301 :	94,520
June-----:	73,916 :	32,606 :	106,522
Total-----:	205,693 :	90,893 :	296,586
July-----:	58,137 :	27,568 :	85,705
August-----:	62,525 :	29,634 :	92,159
September-----:	67,002 :	33,856 :	100,858
Total-----:	187,664 :	91,058 :	278,722
:	:	:	

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, January 1979-September 1981

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
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
November-----:	29,156 :	17,070 :	46,226
December-----:	30,630 :	18,073 :	48,703
Total-----:	88,667 :	49,389 :	138,056
1981:			
January-----:	34,410 :	20,153 :	54,563
February-----:	30,122 :	18,587 :	48,709
March-----:	31,733 :	18,411 :	50,144
Total-----:	96,265 :	57,151 :	153,416
April-----:	36,267 :	20,516 :	56,783
May-----:	34,310 :	21,036 :	55,346
June-----:	34,305 :	21,122 :	55,427
Total-----:	104,882 :	62,674 :	167,556
July-----:	35,993 :	21,478 :	57,471
August-----:	42,762 :	25,009 :	67,771
September-----:	40,296 :	23,027 :	63,323
Total-----:	119,051 :	69,514 :	188,565

Table 4.--Bolts, nuts, and large screws of iron or steel: U.S. imports for consumption, by types, 1976-78, and specified periods, January 1979-September 1981--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-----:	200,547 :	153,334 :	353,881
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
1981:			
January-----:	15,950 :	11,660 :	27,600
February-----:	14,458 :	10,757 :	25,215
March-----:	15,704 :	11,064 :	26,768
Total-----:	46,102 :	33,481 :	79,583
April-----:	16,715 :	12,359 :	29,074
May-----:	15,781 :	11,828 :	27,609
June-----:	16,328 :	12,039 :	28,367
Total-----:	48,824 :	36,226 :	85,050
July-----:	16,209 :	11,978 :	28,187
August-----:	18,396 :	13,268 :	31,664
September-----:	17,997 :	11,973 :	29,970
Total-----:	52,602 :	37,219 :	89,821
	:	:	

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, January 1979-September 1981

Period	:	:	Production and related workers engaged in the				
			production of--			:	
			All persons	All products	Bolts 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
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	:	27,948	:	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
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
1981:	:	:	:	:	:	:	:
January-----:	34,854	:	27,220	:	7,961	2,859	10,820
February-----:	33,285	:	25,186	:	7,662	2,832	10,494
March-----:	33,681	:	25,898	:	7,646	2,996	10,642
Average-----:	33,940	:	26,101	:	7,756	2,896	10,652
April-----:	34,742	:	26,225	:	7,493	3,248	10,741
May-----:	35,768	:	28,170	:	7,599	3,276	10,875
June-----:	33,434	:	25,818	:	7,593	3,330	10,923
Average-----:	34,648	:	26,738	:	7,562	3,285	10,846
July-----:	31,280	:	23,835	:	7,380	3,480	10,860
August-----:	33,323	:	25,963	:	7,654	3,552	11,206
September-----:	33,566	:	26,250	:	7,793	3,494	11,287
Average-----:	32,723	:	25,349	:	7,609	3,509	11,118
:	:	:	:	:	:	:	:

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, January 1979-September 1981

(In thousands of man-hours)					
Period	All products	Bolts and large screws	Nuts	bolts, nuts, and large screws	Total,
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
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
1981:					
January-----:	4,833	1,460	521		1,981
February-----:	4,466	1,428	544		1,972
March-----:	5,177	1,576	655		2,231
Total-----:	14,476	4,464	1,720		6,184
April-----:	4,576	1,371	522		1,893
May-----:	4,624	1,294	540		1,834
June-----:	4,904	1,397	605		2,002
Total-----:	14,104	4,062	1,667		5,729
July-----:	3,881	1,192	513		1,705
August-----:	4,520	1,309	580		1,889
September-----:	4,639	1,445	646		2,091
Total-----:	13,040	3,946	1,739		5,685

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-September 1981

(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- 38.21	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	40.17	
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	
1981:	:	:	:	:	
January-----	20.35- 44.00	31.23	32.75- 58.09	47.68	
February-----	20.35- 42.00	31.84	32.75- 58.09	47.68	
March-----	20.35- 42.00	31.89	32.75- 58.09	47.68	
April-----	20.35- 52.34	31.14	19.55- 59.97	39.53	
May-----	20.35- 52.34	31.14	19.55- 59.97	39.53	
June-----	20.35- 52.34	31.28	19.55- 59.97	39.53	
July-----	21.59- 52.34	34.60	19.55- 59.97	44.02	
August-----	21.59- 52.34	34.12	19.55- 59.97	44.02	
September-----	21.59- 52.34	34.18	19.55- 59.97	44.41	

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-September 1981

(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	:	33.82
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
1981:	:	:	:	:	:	:	:	
January-----	3.90-	14.70	:	10.86	19.60-	46.80	:	35.51
February-----	3.90-	14.70	:	10.78	19.60-	44.20	:	35.51
March-----	3.90-	14.70	:	10.82	19.60-	42.52	:	35.51
April-----	3.90-	14.70	:	10.32	19.60-	45.71	:	35.40
May-----	3.90-	14.70	:	10.75	19.60-	45.62	:	35.38
June-----	3.90-	14.70	:	10.68	19.89-	45.52	:	35.41
July-----	3.64-	14.70	:	11.15	19.89-	46.80	:	36.57
August-----	3.64-	14.70	:	11.10	19.89-	45.14	:	36.36
September-----	3.64-	14.70	:	9.24	19.89-	45.39	:	36.39

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-September 1981

		(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	
1981:	:	:	:	:	:
January-----	: 318.18- 396.10	: 365.71	: 48.06-167.05	: 82.83	
February-----	: 318.18- 396.10	: 368.02	: 48.06-167.05	: 82.97	
March-----	: 318.18- 396.10	: 370.06	: 48.06-167.05	: 80.20	
April-----	: 306.18- 396.10	: 352.77	: 48.06-167.05	: 76.61	
May-----	: 302.06- 396.10	: 352.18	: 48.06-167.05	: 79.24	
June-----	: 304.50- 396.10	: 352.53	: 44.73-167.05	: 77.65	
July-----	: 286.07- 396.10	: 365.84	: 46.73-167.05	: 78.92	
August-----	: 305.90- 396.10	: 369.14	: 46.73-167.05	: 79.11	
September-----	: 325.15- 396.10	: 375.33	: 46.73-167.05	: 77.86	

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

