



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
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Explosives, Annual

APPARENT CONSUMPTION OF INDUSTRIAL EXPLOSIVES AND BLASTING AGENTS IN THE UNITED STATES, 1912-1975

The historical record of apparent consumption of explosives and blasting agents, as measured by manufacturers' sales, is presented in a series of tables. Totals have been independently rounded.

Table 1 consists of consumption in the years 1912 (the year the Bureau of Mines first collected data on explosives) to 1975, by class of explosive, as recorded in the Bureau's series of Technical Publications and Mineral Industry Surveys. The first indicated consumption of an explosive is the year in which it was first reported separately; in four cases (liquid oxygen, water gels and slurries, cylindrically packaged blasting agents, and other blasting agents) production and consumption began a few years previously, but were included in one of the existing categories. The last year of consumption shown, in the case of liquid oxygen and black blasting powder, is the year consumption ceased to be reported.

The series of tables numbered 2 to 8 shows consumption of each class of explosive and blasting agent, by use, for the years 1950-75.

A corresponding series of tables (numbered 9 to 13) shows consumption in each class of industry, by type of explosive, again for the years 1950-75.

Table 14 presents a few selected years to show the geographical distribution of explosives consumption.

Certain small quantities of various classes of explosives and blasting agents have, in recent years, had to be transferred to the category "other processed blasting agents and unprocessed ammonium nitrate," in order to protect company confidentiality. The records show that since 1967 generally only the consumption figures for black blasting powder and the totals have been unaffected by these minor transfers.

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Table 1.--Industrial explosives and blasting agents sold for consumption in the United States, 1912-1975
(Thousand pounds)

Year	Permissibles	Other high explosives	Water gels and slurries	Cylindrically packaged blasting agents	Other processed blasting agents and unprocessed ammonium nitrate	Black blasting powder	Liquid oxygen	Total
1912	24,630	234,469	---	---	---	230,293	---	489,393
1913	27,686	242,387	---	---	---	229,940	---	500,012
1914	25,698	218,454	---	---	---	206,100	---	450,251
1915	27,350	235,829	---	---	---	197,722	---	460,901
1916	34,685	255,155	---	---	---	215,575	---	505,415
1917	43,041	262,316	---	---	---	277,119	---	582,475
1918	46,045	206,416	---	---	---	246,663	---	499,125
1919	38,855	198,269	---	---	---	180,511	---	417,634
1920	53,963	229,112	---	---	---	254,880	---	537,955
1921	41,134	170,952	---	---	---	160,021	---	372,108
1922	43,430	209,476	---	---	---	178,866	---	431,772
1923	60,371	267,405	---	---	---	201,951	---	529,728
1924	55,134	273,323	---	---	---	167,076	---	495,533
1925	58,353	286,435	---	---	---	156,964	---	501,752
1926	67,685	310,518	---	---	---	157,687	---	535,890
1927	63,847	303,468	---	---	---	131,696	---	499,011
1928	60,708	292,785	---	---	---	121,758	---	475,251
1929	62,669	326,993	---	---	---	120,046	---	509,708
1930	53,826	291,391	---	---	---	99,873	---	445,090
1931	41,578	216,157	---	---	---	79,830	---	337,565
1932	32,225	137,908	---	---	---	63,755	---	233,887
1933	33,927	157,849	---	---	---	64,211	---	255,987
1934	39,208	206,625	---	---	---	68,935	---	314,768
1935	39,170	200,324	---	---	---	68,888	---	308,381
1936	47,859	262,047	---	---	---	81,698	---	391,604
1937	49,579	288,924	---	---	---	66,241	---	404,744
1938	41,859	238,576	---	---	---	51,695	---	332,130
1939	49,950	278,250	---	---	---	58,237	---	386,438
1940	58,436	305,180	---	---	---	59,753	---	423,369
1941	70,612	351,857	---	---	---	59,458	---	481,927
1942	84,022	359,699	---	---	---	55,534	---	499,255
1943	92,656	338,573	---	---	---	46,422	---	477,651
1944	102,538	318,613	---	---	---	42,960	---	464,111
1945	97,407	322,956	---	---	---	36,948	---	457,311
1946	100,258	399,233	---	---	---	36,824	---	536,315
1947	122,349	476,017	---	---	---	36,464	16,562	651,391
1948	126,282	550,086	---	---	---	33,240	15,620	725,227
1949	91,630	505,601	---	---	---	20,077	13,922	631,230
1950	109,420	575,962	---	---	---	20,655	13,804	719,841
1951	108,258	611,236	---	---	---	13,985	20,341	753,821
1952	95,460	636,741	---	---	---	10,602	21,915	764,718
1953	89,879	668,952	---	---	---	9,515	22,465	790,811
1954	75,863	615,822	---	---	---	10,298	17,741	719,724
1955	93,718	687,226	---	---	---	6,624	19,310	806,878
1956	104,934	898,524	---	---	---	5,593	17,723	1,026,774
1957	104,522	912,589	---	---	---	3,684	13,835	1,034,631
1958	84,085	864,117	---	---	---	2,492	10,904	961,597
1959	83,520	479,015	---	---	476,901	2,333	6,808	1,048,576
1960	80,577	472,266	---	---	616,950	1,537	1,668	1,172,998
1961	73,439	460,224	---	---	666,202	1,521	2,235	1,203,621
1962	72,884	436,991	---	---	799,066	1,222	2,243	1,312,406
1963	76,319	422,779	---	---	953,854	1,138	1,834	1,455,924
1964	77,406	481,451	---	---	1,103,563	946	2,184	1,665,551
1965	76,040	542,318	---	---	1,260,108	836	5,598	1,884,900
1966	74,527	538,968	---	---	1,343,104	463	13,094	1,970,156
1967	68,770	304,566	167,018	66,413	1,287,506	424	10,017	1,904,714
1968	64,130	288,114	206,518	40,732	1,347,817	427	---	1,947,737
1969	60,364	286,464	221,535	33,281	1,624,564	270	---	2,226,477
1970	56,269	285,841	214,856	37,430	1,799,012	83	---	2,393,491
1971	43,557	272,816	230,692	42,967	1,963,865	117	---	2,554,014
1972	46,147	268,798	226,243	266,206	1,862,395	---	---	2,669,789
1973	44,272	262,445	263,545	278,658	1,906,026	---	---	2,754,946
1974	42,331	257,735	293,248	301,261	1,867,715	---	---	2,762,290
1975	46,422	225,318	311,132	331,725	2,204,430	---	---	3,119,027

Table 2.--Permissible explosives consumption by use
(Thousand pounds)

Year	Coal mining	Metal mining	Quarrying and non- metal mining	Construction work	All other purposes	Total
1950	108,351	55	895	74	46	109,420
1951	107,182	131	815	106	24	108,258
1952	94,482	62	763	101	52	95,460
1953	88,810	73	819	94	83	89,879
1954	74,989	78	610	119	67	75,863
1955	92,657	125	754	104	78	93,718
1956	103,698	95	726	144	271	104,934
1957	103,534	55	446	357	130	104,522
1958	82,892	101	406	435	252	84,085
1959	82,573	89	528	239	91	83,520
1960	79,667	60	450	254	146	80,577
1961	72,522	58	445	109	305	73,439
1962	71,646	39	532	247	421	72,884
1963	75,150	74	560	227	309	76,319
1964	75,950	117	741	291	308	77,406
1965	73,564	79	1,520	466	411	76,040
1966	71,091	95	1,957	970	414	74,527
1967	65,284	161	2,238	994	93	68,770
1968	60,943	267	1,394	1,361	165	64,130
1969	57,528	58	1,193	1,145	440	60,364
1970	53,185	46	1,122	1,447	468	56,269
1971	41,010	91	668	1,414	374	43,557
1972	42,232	99	865	2,570	381	46,147
1973	39,307	115	957	3,482	411	44,272
1974	38,332	192	1,237	2,282	288	42,331
1975	41,996	241	1,083	2,215	887	46,422

Table 3.--Other high explosives, consumption by use
(Thousand pounds)

Year	Coal mining	Metal mining	Quarrying and non- metal mining	Construction work	All other purposes	Total
1950	156,839	127,749	138,857	138,886	13,631	575,962
1951	152,500	147,073	150,230	149,851	11,582	611,236
1952	144,996	151,148	165,511	160,800	14,285	636,741
1953	134,483	167,294	175,189	178,988	12,999	668,952
1954	108,413	145,974	170,167	177,433	13,835	615,822
1955	123,651	168,483	195,185	187,456	12,451	687,226
1956	172,730	197,190	212,189	233,322	83,093	898,524
1957	245,735	191,788	216,333	164,669	94,064	912,589
1958	259,933	144,812	210,330	181,932	67,110	864,117
1959	43,064	84,328	160,656	144,466	46,500	479,015
1960	37,666	106,714	154,569	129,115	44,202	472,266
1961	31,303	106,820	149,001	120,915	52,187	460,224
1962	27,047	101,180	141,390	122,797	44,577	436,990
1963	23,397	84,657	133,216	133,334	48,174	422,779
1964	23,557	119,782	133,022	133,162	71,928	481,451
1965	22,090	123,862	141,050	150,119	105,197	542,318
1966	19,591	118,900	141,117	136,456	122,904	538,968
1967	18,713	36,235	107,494	118,525	23,599	304,566
1968	14,409	41,009	98,315	114,089	20,292	288,114
1969	14,359	41,272	103,557	105,283	21,992	286,464
1970	16,764	41,299	112,006	99,845	15,927	285,841
1971	17,254	31,997	103,368	100,772	19,425	272,816
1972	16,297	27,648	100,600	100,104	24,149	268,798
1973	20,198	28,295	107,675	89,094	17,183	262,445
1974	26,301	27,733	99,364	86,952	17,385	257,735
1975	36,875	25,118	74,796	73,793	14,736	225,318

Table 4.--Water gels and slurries consumption by use
(Thousands of pounds)

Year	Coal mining	Metal mining	Quarrying and non- metal mining	Construction work	All other purposes	Total
1967	4,136	123,250	28,036	11,012	584	167,018
1968	7,107	151,164	34,163	12,665	1,419	206,518
1969	9,583	162,359	35,517	12,598	1,478	221,535
1970	8,910	161,682	31,113	12,779	372	214,856
1971	9,132	172,616	33,004	15,390	550	230,692
1972	9,212	156,618	41,305	17,783	1,325	226,243
1973	11,622	173,530	54,154	22,863	1,376	263,545
1974	22,204	160,198	75,837	32,610	2,399	293,248
1975	24,118	181,809	73,872	30,413	920	311,132

Table 5.--Cylindrically packaged blasting agents
consumption by use
(Thousand pounds)

Year	Coal mining	Metal mining	Quarrying and non- metal mining	Construction work	All other purposes	Total
1967	8,093	1,696	10,488	1,889	44,247	66,413
1968	7,966	3,142	12,185	7,672	9,767	40,732
1969	6,962	2,210	12,404	6,123	5,582	33,281
1970	8,651	2,293	15,176	6,626	4,684	37,430
1971	12,153	993	14,861	10,688	4,272	42,967
1972	201,820	7,542	30,064	23,364	3,416	266,206
1973	222,797	6,265	32,228	14,913	2,455	278,658
1974	249,843	5,414	32,797	10,722	2,485	301,261
1975	286,608	4,845	28,551	9,853	1,868	331,725

Table 6.--Other processed blasting agents and unprocessed ammonium nitrate consumption by use
(Thousand pounds)

Year	Coal mining	Metal mining	Quarrying and non-metal mining	Construction work	All other purposes	Total
1959	236,544	66,481	88,426	70,337	15,113	476,901
1960	294,730	114,382	107,412	80,302	20,124	616,950
1961	307,871	127,277	118,477	88,724	23,854	666,202
1962	336,219	143,967	145,358	150,295	23,227	799,066
1963	404,907	168,068	186,603	172,196	22,080	953,854
1964	447,145	198,394	227,290	198,554	32,181	1,103,563
1965	493,571	232,770	228,283	260,740	44,744	1,260,108
1966	514,550	234,336	252,794	299,544	41,880	1,343,104
1967	555,303	166,250	261,145	279,986	24,821	1,287,506
1968	593,741	207,859	251,832	275,846	18,539	1,347,817
1969	731,679	264,892	286,003	316,620	25,371	1,624,564
1970	874,821	274,187	295,965	325,866	28,173	1,799,012
1971	991,756	251,589	337,624	350,033	32,863	1,963,865
1972	943,024	238,779	320,843	323,452	36,297	1,862,395
1973	883,138	287,674	448,278	263,469	23,467	1,906,026
1974	849,934	271,953	342,145	230,051	173,632	1,867,715
1975	1,262,654	237,258	314,823	212,063	177,632	2,204,430

Table 7.--Black blasting powder consumption by use
(Thousand pounds)

Year	Coal mining	Metal mining	Quarrying and non- metal mining	Construction work	All other purposes	Total
1950	17,702	-54	1,435	896	676	20,655
1951	11,836	9	1,235	554	351	13,985
1952	7,577	14	1,107	1,461	443	10,602
1953	4,868	52	930	2,774	891	9,515
1954	4,274	10	671	4,423	920	10,298
1955	3,539	20	532	1,522	1,011	6,624
1956	2,918	18	453	1,883	321	5,593
1957	2,454	1	378	620	231	3,684
1958	1,787	2	277	42	384	2,492
1959	1,038	neg.	369	67	857	2,333
1960	936	30	318	68	185	1,537
1961	766	---	556	48	151	1,521
1962	740	1	329	73	79	1,222
1963	757	1	253	80	45	1,138
1964	450	6	193	113	185	946
1965	141	4	181	59	451	836
1966	-168	---	415	50	166	463
1967	35	4	124	41	220	424
1968	---	3	109	31	284	427
1969	3	---	115	15	137	270
1970	---	---	42	5	36	83
1971	---	---	47	20	50	117

Table 8.--Liquid oxygen consumption by use
(Thousand pounds)

Year	Coal mining	Quarrying and non- metal mining	Total
1947	16,562	---	16,562
1948	15,533	87	15,620
1949	13,917	6	13,922
1950	13,742	62	13,804
1951	20,268	73	20,341
1952	21,841	74	21,915
1953	22,417	48	22,465
1954	17,700	41	17,741
1955	19,248	62	19,310
1956	17,723	---	17,723
1957	13,835	---	13,835
1958	10,904	---	10,904
1959	6,808	---	6,808
1960	1,668	---	1,668
1961	2,235	---	2,235
1962	2,243	---	2,243
1963	1,834	---	1,834
1964	2,184	---	2,184
1965	5,598	---	5,598
1966	13,094	---	13,094
1967	10,017	---	10,017

Table 9.--Coal mining consumption of industrial explosives and blasting agents
(Thousand pounds)

Year	Permissibles	Other high explosives	Water gels and slurries	Cylindrically packaged blasting agents	Other processed blasting agents and unprocessed ammonium nitrate	Black blasting powder	Liquid oxygen	Total
1950	108,351	156,839	---	---	---	17,702	13,742	296,633
1951	107,182	152,500	---	---	---	11,836	20,268	291,787
1952	94,482	144,996	---	---	---	7,577	21,841	268,896
1953	88,810	134,483	---	---	---	4,868	22,417	250,578
1954	74,989	108,413	---	---	---	4,274	17,700	205,376
1955	92,657	123,651	---	---	---	3,539	19,248	239,095
1956	103,698	172,730	---	---	---	2,918	17,723	297,069
1957	103,534	245,735	---	---	---	2,454	13,835	365,558
1958	82,892	259,933	---	---	---	1,787	10,904	355,516
1959	82,573	43,064	---	---	236,544	1,038	6,808	370,027
1960	79,667	37,666	---	---	294,730	936	1,668	414,667
1961	72,522	31,303	---	---	307,871	766	2,235	414,697
1962	71,646	27,047	---	---	336,219	740	2,243	437,895
1963	75,150	23,397	---	---	404,907	757	1,834	506,045
1964	75,950	23,557	---	---	447,145	450	2,184	549,286
1965	73,564	22,090	---	---	493,571	141	5,598	594,964
1966	71,091	19,591	---	---	514,550	-168	13,094	618,158
1967	65,284	18,713	4,136	8,093	555,303	35	10,017	661,581
1968	60,943	14,409	7,107	7,966	593,741	---	---	684,166
1969	57,528	14,359	9,583	6,962	731,679	3	---	820,114
1970	53,185	16,764	8,910	8,651	874,821	---	---	962,331
1971	41,010	17,254	9,132	12,153	991,756	---	---	1,071,305
1972	42,232	16,297	9,212	201,820	943,024	---	---	1,212,585
1973	39,307	20,198	11,622	222,797	883,138	---	---	1,177,062
1974	38,332	26,301	22,204	249,843	849,934	---	---	1,186,614
1975	41,996	36,875	24,118	286,608	1,262,654	---	---	1,652,251

Table 10.--Metal mining consumption of industrial explosives and blasting agents
(Thousand pounds)

Year	Permissibles	Other high explosives	Water gels and slurries	Cylindrically packaged blasting agents	Other processed blasting agents and unprocessed ammonium nitrate	Black blasting powder	Liquid oxygen	Total
1950	55	127,749	---	---	---	-54	---	127,750
1951	131	147,073	---	---	---	9	---	147,213
1952	62	151,148	---	---	---	14	---	151,224
1953	73	167,294	---	---	---	52	---	167,419
1954	78	145,974	---	---	---	10	---	146,062
1955	125	168,483	---	---	---	20	---	168,628
1956	95	197,190	---	---	---	18	---	197,303
1957	55	191,788	---	---	---	1	---	191,844
1958	101	144,812	---	---	---	2	---	144,915
1959	89	84,328	---	---	66,481	neg.	---	150,898
1960	60	106,714	---	---	114,382	30	---	221,186
1961	58	106,820	---	---	127,277	---	---	234,155
1962	39	101,180	---	---	143,967	1	---	245,187
1963	74	84,657	---	---	168,068	1	---	252,800
1964	117	119,782	---	---	198,394	6	---	318,299
1965	79	123,862	---	---	232,770	4	---	356,715
1966	95	118,900	---	---	234,336	---	---	353,331
1967	161	36,235	123,250	1,696	166,250	4	---	327,596
1968	267	41,009	151,164	3,142	207,859	3	---	403,444
1969	58	41,272	162,359	2,210	264,892	---	---	470,791
1970	47	41,299	161,682	2,293	274,187	---	---	479,508
1971	91	31,997	172,616	993	251,589	---	---	457,286
1972	99	27,648	156,618	7,542	238,779	---	---	430,686
1973	115	28,295	173,530	6,265	287,674	---	---	495,879
1974	192	27,733	160,198	5,414	271,953	---	---	465,490
1975	241	25,118	181,809	4,845	237,258	---	---	449,271

Table 11.--Quarrying and nonmetal mining consumption of industrial explosives and blasting agents
(Thousand pounds)

Year	Permissibles	Other high explosives	Water gels and slurries	Cylindrically packaged blasting agents	Other processed blasting agents and unprocessed ammonium nitrate	Black blasting powder	Liquid oxygen	Total
1950	895	138,857	---	---	---	1,435	62	141,249
1951	815	150,230	---	---	---	1,235	73	152,353
1952	763	165,511	---	---	---	1,107	74	167,455
1953	819	175,189	---	---	---	930	48	176,986
1954	610	170,167	---	---	---	671	41	171,489
1955	754	195,185	---	---	---	532	62	196,533
1956	726	212,189	---	---	---	453	---	213,368
1957	446	216,333	---	---	---	378	---	217,157
1958	406	210,330	---	---	---	277	---	211,013
1959	528	160,656	---	---	88,426	369	---	249,979
1960	450	154,569	---	---	107,412	318	---	262,749
1961	445	149,001	---	---	118,477	556	---	268,479
1962	532	141,390	---	---	145,358	329	---	287,609
1963	560	133,216	---	---	186,603	253	---	320,632
1964	741	133,022	---	---	227,290	193	---	361,246
1965	1,520	141,050	---	---	228,283	181	---	371,034
1966	1,957	141,117	---	---	252,794	415	---	396,283
1967	2,238	107,494	28,036	10,488	261,145	124	---	409,525
1968	1,394	98,315	34,163	12,185	251,832	109	---	397,998
1969	1,193	103,557	35,517	12,404	286,003	115	---	438,789
1970	1,122	112,006	31,113	15,176	295,965	42	---	455,424
1971	668	103,368	33,004	14,861	337,624	47	---	489,572
1972	865	100,600	41,305	30,064	320,843	---	---	493,677
1973	957	107,675	54,154	32,228	448,278	---	---	643,292
1974	1,237	99,364	75,837	32,797	342,145	---	---	551,380
1975	1,083	74,796	73,872	28,551	314,823	---	---	493,125

Table 12.--Construction work consumption of industrial explosives and blasting agents
(Thousand pounds)

Year	Permissibles	Other high explosives	Water gels and slurries	Cylindrically packaged blasting agents	Other processed blasting agents and unprocessed ammonium nitrate	Black blasting powder	Liquid oxygen	Total
1950	74	138,886	---	---	---	896	---	139,856
1951	106	149,851	---	---	---	554	---	150,511
1952	101	160,800	---	---	---	1,461	---	162,362
1953	94	178,988	---	---	---	2,774	---	181,856
1954	119	177,433	---	---	---	4,423	---	181,975
1955	104	187,456	---	---	---	1,522	---	189,082
1956	144	233,322	---	---	---	1,883	---	235,349
1957	357	164,669	---	---	---	620	---	165,646
1958	435	181,932	---	---	---	42	---	182,409
1959	239	144,466	---	---	70,337	67	---	215,109
1960	254	129,115	---	---	80,302	68	---	209,739
1961	109	120,915	---	---	88,724	48	---	209,796
1962	247	122,797	---	---	150,295	73	---	273,412
1963	227	133,334	---	---	172,196	80	---	305,837
1964	291	133,162	---	---	198,554	113	---	332,120
1965	466	150,119	---	---	260,740	59	---	411,384
1966	970	136,456	---	---	299,544	50	---	437,020
1967	994	118,525	11,012	1,889	279,986	41	---	412,447
1968	1,361	114,089	12,665	7,672	275,846	31	---	411,664
1969	1,145	105,283	12,598	6,123	316,620	15	---	441,784
1970	1,447	99,845	12,779	6,626	325,866	5	---	446,568
1971	1,414	100,772	15,390	10,688	350,033	20	---	478,317
1972	2,570	100,104	17,783	23,364	323,452	---	---	467,273
1973	3,482	89,094	22,863	14,913	263,469	---	---	393,821
1974	2,282	86,952	32,610	10,722	230,051	---	---	362,617
1975	2,215	73,793	30,413	9,853	212,063	---	---	328,337

Table 13.--All other purposes consumption of industrial explosives and blasting agents
(Thousand pounds)

Year	Permissibles	Other high explosives	Water gels and slurries	Cylindrically packaged blasting agents	Other processed blasting agents and unprocessed ammonium nitrate	Black blasting powder	Liquid oxygen	Total
1950	46	13,631	---	---	---	676	---	14,353
1951	24	11,582	---	---	---	351	---	11,957
1952	52	14,285	---	---	---	443	---	14,780
1953	83	12,999	---	---	---	891	---	13,973
1954	67	13,835	---	---	---	920	---	14,822
1955	78	12,451	---	---	---	1,011	---	13,540
1956	271	83,093	---	---	---	321	---	83,685
1957	130	94,064	---	---	---	231	---	94,425
1958	252	67,110	---	---	---	384	---	67,746
1959	91	46,500	---	---	15,113	857	---	62,561
1960	146	44,202	---	---	20,124	185	---	64,657
1961	305	52,187	---	---	23,854	151	---	76,497
1962	421	44,577	---	---	23,227	79	---	68,304
1963	309	48,174	---	---	22,080	45	---	70,608
1964	308	71,928	---	---	32,181	185	---	104,602
1965	411	105,197	---	---	44,744	451	---	150,803
1966	414	122,904	---	---	41,880	166	---	165,364
1967	93	23,599	584	44,247	24,821	220	---	93,564
1968	165	20,292	1,419	9,767	18,538	284	---	50,466
1969	440	21,992	1,478	5,582	25,371	137	---	55,000
1970	468	15,927	372	4,684	28,173	36	---	49,660
1971	374	19,425	550	4,272	32,863	50	---	57,534
1972	381	24,149	1,325	3,416	36,297	---	---	65,568
1973	411	17,183	1,376	2,455	23,467	---	---	44,892
1974	288	17,385	2,399	2,485	173,632	---	---	196,189
1975	887	14,736	920	1,868	177,632	---	---	196,043

TABLE 14. - Principal consuming States: All industrial explosives and blasting agents sold for consumption in the United States
(Thousand pounds)

1912 - Pennsylvania, 112,368; Illinois, 43,300; Michigan, 24,239; Missouri, 21,598; West Virginia, 20,043; Minnesota, 16,197; Other States, 251,648; Total, 489,393.
1915 - Pennsylvania, 106,878; Illinois, 37,349; Michigan, 27,504; West Virginia, 22,590; California, 15,351; Ohio, 14,461; Other States, 236,768; Total 460,901.
1920 - Pennsylvania, 110,857; Illinois, 57,355; West Virginia, 33,173; Indiana, 32,423; Ohio, 24,835; Kentucky, 24,827; Other States, 254,485; Total 537,955.
1925 - Pennsylvania, 89,570; Illinois, 37,308; West Virginia, 30,488; Kentucky, 21,515; California, 21,371; Indiana, 20,341; Other States, 281,159; Total, 501,752.
1930 - Pennsylvania, 91,103; West Virginia, 26,001; Illinois, 23,756; Michigan, 20,667; California, 19,732; New York, 18,047; Other States, 245,784; Total, 445,090.
1935 - Pennsylvania, 56,581; California, 28,471; Illinois, 19,980; West Virginia, 16,883; Ohio, 11,652; Kentucky, 11,619; Other States, 163,195; Total, 308,381.
1940 - Pennsylvania, 71,745; Illinois, 24,588; California, 22,222; West Virginia, 21,349; Kentucky, 15,373; Ohio, 14,300; Other States, 253,792; Total, 423,369.
1945 - Pennsylvania, 91,618; West Virginia, 40,469; Illinois, 31,890; Kentucky, 26,007; Indiana, 17,370; Alabama, 16,934; Other States, 233,023; Total, 457,311.
1950 - Pennsylvania, 132,879; West Virginia, 56,185; Kentucky, 41,258; Ohio, 35,692; Illinois, 30,726; Indiana, 26,492; Other States, 396,609; Total, 719,841.
1955 - Pennsylvania, 101,435; West Virginia, 51,832; Ohio, 44,660; Kentucky, 38,712; Texas, 38,565; Arizona, 37,843; Other States, 493,831; Total 806,878.
1960 - Pennsylvania, 141,659; Ohio, 94,940; Kentucky, 70,816; Minnesota, 67,620; Illinois, 62,499; West Virginia, 51,975; Other States, 683,489; Total, 1,172,998.
1965 - Pennsylvania, 209,753; Kentucky, 137,766; Ohio, 114,557; Minnesota, 99,277; Texas, 89,925; Illinois, 87,739; Other States, 1,145,883; Total, 1,884,900.
1970 - Kentucky, 290,979; Pennsylvania, 228,012; Ohio, 156,579; West Virginia, 154,053; Arizona, 138,822; Indiana, 129,634; Other States, 1,295,412; Total, 2,393,491.
1975 - Kentucky, 500,108; Pennsylvania, 408,594; Alabama, 205,876; West Virginia, 183,609; Ohio, 176,019; Virginia, 159,177; Other States, 1,485,644; Total, 3,119,027.

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