LEAD INDUSTRY IN THE UNITED STATES IN 1958

From U. S. B. M. Preliminary Mineral Market Report No. 2870

New supplies of lead in the United States were about 280,000 tons in excess of consumer demand in 1958, according to the Bureau of Mines, United States Department of the Interior. Although a part of this excess entered Government stocks through barter and stockpile programs, the great majority of it remained in producers' and dealers' inventories. Producers' stocks of refined and antimonial lead alone increased 132 percent. Domestic mine and smelter production were reduced 21 and 13 percent, respectively, and consumption of lead in all forms declined 13 percent below the 1957 level. Imports, however, were about 11 percent above the 1953-1957 average. Other highlights of the year were the imposition of import quotas beginning October 1, curtailment of the barter program, and the completion of stockpile contracts for lead from domestic producers.

Production and producers' stocks: Output of recoverable lead from United States mines dropped 21 percent below 1957 to 266,000 short tons -- the lowest for any year since 1899. Production in the Western States declined 26 percent to 140,000 tons, that in the West Central States decreased 14 percent to 119,100 tons, and that of the States east of the Mississippi River dropped 32 percent to 6,800 tons.

Primary refineries cut production of refined lead 12 percent and antimonial lead 26 percent to 472,500 and 47,400 tons (lead content), respectively. Output of refined lead ranged from a high of 43,900 tons in January to a low of 34,300 tons in August and shipments to consumers from 21,100 tons in December to 41,900 tons in October. Shipments of refined lead for the year were approximately 110,000 tons under production and on December 31, refinery stocks totaled 185,900 tons. Producers' stocks of soft lead had totaled 21,900 tons at the end of 1955, at the end of 1956 -- 30,200 tons, and December 31, 1957 -- 74,200 tons. Stocks of antimonial lead varied less in the same period ranging from 9,100 at the end of 1955, to 11,800 tons at the end of 1958.

Secondary lead and copper smelters recovered 384,000 tons (partly estimated) of lead, as metal and in alloys during the year. Together with approximately 40,000 tons reclaimed from scrap by primary smelters and small quantities from foundries, about 425,000 tons was recovered or 13 percent less than in the preceding year. This was the lowest recovery rate since 1949, but again (for the 13th consecutive year) exceeded domestic mine production. Together then, primary and secondary plants in 1958 produced about 92 percent of the lead needed to meet consumer demand.

Consumption and consumers' stocks: Preliminary data indicate that domestic consumption of lead dropped about 13 percent below 1957 to total less than 1 million tons — the lowest quantity consumed since 1949. Compared with 1957, lead consumed in batteries decreased 15 percent, in tetraethyl lead 11 percent, and dropped 31 percent in cable covering. These 3 largest lead-consuming items took 55 percent of all lead consumed in 1958; batteries accounted for 31 percent (32 percent in 1957), tetraethyl lead 16 percent (16 percent in 1957), and cable covering 8 percent (10 percent in 1957). Lead consumed in the 3 products was 540,500 tons or over 100,000 tons less than the 646,200 tons so used in 1957.

^{*} For an exhaustive study of the lead industry and its outlook, the reader is referred to the American Metal Market of Mar. 14, 1959, Section 3, pages 26-29

Consumers' stocks of lead were highest on January 31 at 127,500 tons. There was a downward trend in the first 8 months and on August 31 consumers held 101,400 tons. At the end of December consumer and secondary smelter stocks of metal totaled 115,800 tons.

Prices: The New York price of lead was quoted at 13.00 cents a pound on January 1 and also on December 31. However, 11 changes during the year had reduced the price to 10.75 cents on August 13 and subsequent raises brought it again to 13.00 cents on October 14 where it remained through December 31. Average price for the year was 12.11 cents a pound.

Foreign trade: Import statistics for 1958 are incomplete at this time. However, in the first 11 months of the year, general imports totaled 524,400 tons of lead. Imports entering the United States in December under quotas were reported to be 37,200 tons. Together these indicate imports of 561,600 tons, or a quantity which may have been exceeded only in 1952.

Tariff: The duties on pig lead and lead content of ore and concentrates remained unchanged in 1958 at 1 1/16 cents and 3/4 cent per pound, respectively. The Tariff Commission reported its findings and recommendations on the lead-zinc "escape clause" action, April 24, 1958. Presidential action on the recommendations for increased duty rates and (or) limitations on imports was delayed pending action by the Congress on the Administration's Minerals Stabilization Plan. When Congress rejected the proposed legislation, the President issued a proclamation imposing quotas on lead and zinc imports beginning October 1, 1958. The quotas limited quarterly imports of lead in ores, concentrates, flue dust, and mattes to 33,080 short tons, and of lead in pigs, bars, bullion, dross, scrap and alloy form to 55,600 tons. These quantities are 80 percent of the average dutiable imports in these classifications during the base period, 1953-57.

LEAD INDUSTRY IN ARIZONA IN 1958

Lead production in Arizona in 1958 was practically the same as in 1957, with the Shattuck Denn Mining Corporation being the chief producer. The preliminary total production was estimated at 11,700 tons in 1958, as compared with 11,999 tons in 1957. According to preliminary reports, Arizona ranked fourth in lead production among the Western States.

Arizona Department of Mineral Resources

March, 1959

SALIENT U. S. LEAD STATISTICS FOR 1956, 1957 AND 1958

ARIZONA UNITED STATES, AND WORLD MINE PRODUCTION OF RECOVERABLE LEAD

TABLE I

Source: U. S. B. M.

Unit: Short Tons

	Year 1956	Year 1957	Preliminary 1958
Producers! Stocks Beginning of Period U.S. Mine Production Recoverable Lead Secondary Lead Recovered from Old & New Scr Imported Lead in Ore & Matte Imported Lead in Pigs, Bars, and Bullion Imported Lead in Reclaimed Scrap, etc.	89,443 352,826 ap 506,755 196,452 262,654 20,738	97,043 333,493 489,229 197,831 324,279 9,247	143,916 265,920 425,000 195,327 359,619 5,024
TOTAL SUPPLY	1,428,868	1,451,122	1,394,806
Producers' Stocks at End of Period Exported Lead in Ore, Matte & Base Bullion Exported Lead in Pigs and Bars Exported Lead in Scrap	97,043 1,055 4,628 2,136	143,916 906 4,339 885	185,913 1,012 1,359 1,015
SUB-TOTAL	104,862	150,046	189,299
NET APPARENT CONSUMPTION	1,324,006	1,301,076	1,205,507
REPORTED CONSUMPTION	1,209,717	1,138,115	958,376
Unaccounted For (Stockpiles etc.)	114,289	162,961	247,131
Production of Refined Primary Lead: From Domestic Ores & Base Bullion From Foreign Ores & Base Bullion	349,188 193,084	347,675) 185,858))	472,456
ARIZONA MINE PRODUCTION WORLD MINE PRODUCTION U.S.MINE PROD. AS % OF REPORTED CONSUMPTION AVG.PRIJE OF LEAD - N.Y. (E.& M.J.)	11,999 2,440,000 29.17% 16.013¢	12,441 2,540,000 29.72% 14.658¢	11,700 N.A. 27.75% 12.109¢

TABLE II

U. S. LEAD CONSUMPTION - YEARS 1956, 1957 & 1958

Source: U. S. B. M.

	1956	1956 1957	
Metal Products: Ammunition Bearing Metals Brass & Bronze Cable Covering Calking Lead Casting Metals Collapsible Tubes Foil Pipes, Traps and Bends Sheet Lead Solder Storage Battery Grids, Posts etc. Storage Battery Oxides Terne Metal Type Metal	44,438 28,321 27,063 124,339 64,970 12,932 10,945 4,593 28,028 30,249 75,290 191,568 179,203 1,709 26,709	42,509 26,997 24,491 108,225 65,634 12,672 10,316 4,839 24,739 27,474 70,684 185,617 175,398 1,642 28,726	1958 40,202 18,448 19,646 74,535 66,234 7,702 7,710 4,567 21,776 24,682 57,241 154,828 152,845 1,525 26,313
TOTAL	860, 357	809,963	678, 254
Pigments: White Lead Red Lead & Litharge Pigment Colors Other 1/	16,951 79,199 13,866 10,354	15,701 78,323 12,449 8,888	12,658 63,816 11,853 4,357
TOTAL	120,370	115, 361	92,684
Chemicals: Tetraethyl Lead Miscellaneous Chemicals TOTAL	191,990 3,146 195,136	177,001 3,556 180,557	158,302 2,791 161,093
Miscellaneous Uses: Annealing Galvanizing Lead Plating Weights & Ballast	5,899 1,658 916 7,250	5,317 1,354 670 7,526	4,354 1,067 125 5,887
TOTAL	15,723	14,867	11,433
Other Uses, Unclassified	18,131	17,367	14,912
TOTAL REPORTED 2/	1,209,717	1,138,115	958,376

^{1/} Includes lead content of leaded zinc oxide production.

^{2/} Includes lead content of scrap used directly in fabricated products.

TABLE III

GENERAL IMPORTS OF LEAD INTO UNITED STATES

Compiled from Records of the U. S. Dept. of Commerce - 1957-1958 - Short Tons

Ore, Matte, etc. (lead content):	1957	Preliminary 1958
Canada Mexico Guatemala Honduras Colombia Ecuador Peru Bolivia Chile Argentina Portugal Philippines Korea Union of So. Africa Australia Other Countries Total Base Bullion:	507	21,763 1,754 5,019 3,323 850 98 75,255 13,885 190 46 226 1,084 311 42,381 21,813 7,329
Canada Peru Chile Mexico Total Pigs & Bars (lead content):	- 84 - 84	3 117 335 5 460
Canada Mexico Peru Bolivia Chile Denmark United Kingdom Netherlands Belgium - Luxembourg France Germany - West Spain Yugoslavia Morocco Australia Total Reclaimed, Scrap, etc. Pipes, sheet, shot, etc. GRAND TOTAL IMPORTS EXPORTS (Ore, Matte, Pigs, Bars & Scrap)	28,607 102,504 34,999 1,100 501 1,916 2,666 111 1,852 557 1,550 3,119 40,262 9,018 95,517 324,279 9,247 	41,929 122,231 42,348 21 126 1,452 8,336 286 5,442 55 3,008 14,939 36,788 9,760 72,898 359,619 5,024 560,430 3,386

Arizona Department of Mineral Resources

TABLE IV

WORLD USE OF LEAD

In Thousands of Short Tons

Source: American Metal Market of Mar. 14, 1959, Section 3, page 27.

	Aver. 1940-45	Aver. 1946-50	Aver. 1951-55	1956	1957	Prel. 1958
U. S. A.* Latin America British Com!-wlth	1,014 53	1,061 66	1,137 66	1,182 66	1,118 88	960
U. K. * Canada AustN. Z. India So. Africa	343 56 50 20 10	366 59 47 9	368 62 51 11 18	401 68 47 21 20	391 60 49 20 21	376 46 47 23 16
Total Br. Com'wlth Western Europe (1) U.S.S.R & Satellites Japan & Other Far East	479 385 107 66	1490 308 139 38	510 535 253 53	557 627 359 83	541 661 379 100	508
Total World	2,104	2,102	2,554	2,874	2,887	

^{*} U.S.A. and U.K. figures include secondary.

TABLE V

QUARTERLY IMPORT QUOTA MAXIMUMS (In Pounds)

	Lead Bearing Ores	Lead Bullion, Etc.
Australia	10,800,000	23,680,000
Canada	13,440,000	15,920,000
Mexico	-	36,880,000
Peru	16,160,000	12,880,000
So. Africa	14,880,000	-
Yugoslavia	-	15,760,000
All other Foreign countries	es 6,560,000	6,080,000

Arizona Department of Mineral Resources

March, 1959

⁽¹⁾ Note tremendous increase in use of lead in Western Europe, corresponding to similar industrial growth shown by zinc and copper.

TABLE VI

SHOWING TONNAGE OF UNNEEDED IMPORTS OF LEAD INTO UNITED STATES

	1953	1954	1955	1956	1957	Preliminary 1958
U. S. Mine Production	343,000	325,000	338,000	353,000	333,000	266,000
Secondary	487,000	481,000	502,000	507,000	489,000	425,000
Imports	548,000	438,000	442,000	480,000	522,000	620,000
Change in Stocks	47,000*	5,000	* 51,000 ^{>}	^{€*} 8,000 [*]	47,000	42,000*
Available Supply	1,331,000	1,239,000	1,333,000	1,332,000	1,297,000	1,269,000
Consumption	1,202,000	1,095,000	1,213,000	1,210,000	1,138,000	958,000
Unneeded Imports	129,000	000 وبابلا	120,000	122,000	159,000	311,000

Net unneeded Imports for the six years = 985,000 tons = 164,000 tons per year. As the government stockpiles took a great deal of lead during this six-year period, it is natural to assume that such disposal left room for the importation of enormous tonnages of lead for the domestic market.

Arizona Department of Mineral Resources

March, 1959

^{*} Denotes increase in stocks.

^{**} Denotes decrease in stocks.