



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON, D. C. 20240



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Lead Industry, Monthly

LEAD INDUSTRY IN AUGUST 1969

The total new supply of lead in August regained the June level of 127,300 tons as primary and secondary production as well as metal imports increased after the July vacation period, according to the Bureau of Mines, U.S. Department of the Interior. Stocks at producers and consumers plants increased about 3,000 tons in total, principally at secondary and consumer plants.

Mine production increased slightly with Missouri output continuing the upward trend and stocks of raw material and material in process at primary plants built up during the month. Receipts of scrap also exceeded consumption with a 5.5 percent increase in stocks of lead-base scrap. Imports of lead in ores were again at a low tonnage while metal imports increased 3,400 tons principally due to a large delivery from Australia.

Consumption of lead again exceeded 100,000 tons and was about 1,400 tons above the August 1968 total. Both battery and antimock requirements approximated the average tonnage for prior months in 1969 while other metal products and miscellaneous uses were below the average.

Lead sales by General Services Administration continued with a small tonnage moving in September. Of the 100,000 tons authorized for sale in late July, 17,328 tons were sold up to October 15 of which 10,336 tons was the antimonial lead sold in August. The domestic price of common lead at New York continued at 15.5 cents. The London price trended downward from 13.66 cents (U.S. equivalent) on September 25 to 13.02 cents on October 15.

Prepared October 29, 1969, in Mineral Resource Evaluation.

N11738

PNYC 00011243

TABLE 1. - Salient lead statistics in the United States
(Short tons)

	1968	1969		
		Jan.-Aug.	July	August
Supply:				
Refined lead produced at primary refineries-----	469,569	416,993	42,244	49,390
Antimonial lead produced at primary refineries (lead content)-----	26,356	12,365	1,334	1,389
Lead (as metal) imported-----	338,120	196,569	24,287	28,256
Lead recovered by secondary smelters:				
Reported-----	525,616	355,910	39,310	43,716
Estimated-----		24,000	3,000	3,000
Estimated lead recovered from copper-base scrap-----	16,142	12,000	1,500	1,500
Total new supply-----	1,375,803	1,017,837	118,775	127,281
Distribution:				
Reported consumption-----	1,328,790	865,399	96,996	108,138
Estimated undistributed consumption-----		28,000	3,500	3,500
Exports of lead materials excluding scrap-----	8,281	3,122	553	316
Total distribution-----	1,337,071	896,521	101,049	111,954
Lead-base and tin-base scrap consumed (by both primary and secondary smelters)-----	730,858	524,630	57,911	64,032
Secondary tin recovered 1/-----	25,194	5,323	639	663
Secondary antimony recovered 1/-----	23,699	13,026	1,463	1,612
Average price of lead (cents per pound)				
New York-----	13.21	14.52	15.45	15.50

1/ Final annual figures include metal recovered from all sources; monthly and preliminary data are from lead- and tin-base scrap only.

TABLE 2. - Production, shipments, and stocks of refined and antimonial lead, and stocks of raw material (lead content) at primary refineries (Short tons)

	Stocks July 31, 1969	Production			Ship- ments	Stocks August 31, 1969
		1968 totals 1/	1969			
			Jan.-Aug. 2/	August 3/		
Refined soft lead-----	11,796	469,569	416,993	49,390	49,026	12,160
Antimonial lead:						
(Gross weight)-----	3,492	28,363	13,232	1,461	1,360	3,393
Antimony content-----	270	2,007	867	72	99	243
Lead content 5/-----	3,222	26,356	12,365	1,389	1,461	3,150
Primary raw material-----	89,954					96,514
Secondary raw material-----	2,569					2,776
Material in process-----	50,809					54,117

- 1/ Includes 9,121 tons of lead, in refined and antimonial lead, recovered from scrap.
2/ Includes 4,817 tons of lead, in refined and antimonial lead, recovered from scrap.
3/ Includes 603 tons of lead, in refined and antimonial lead, recovered from scrap.
4/ Includes 329 tons consumed at plant of origin.
5/ Excludes antimonial lead produced from refined lead.

TABLE 3. - Mine production of recoverable lead
(Short tons)

State	1968	1969 p/		
		Jan. - Aug. totals	July p/	August
Arizona	1,704	141	16	15
California	4,001	1,799	360	135
Colorado	19,778	13,935	1,689	1,870
Idaho	54,790	43,591	5,203	4,906
Illinois	1,467	480	60	65
Kansas	1,227	W	W	W
Missouri	212,611	232,902	32,104	32,408
Montana	1,870	928	129	72
Nevada	843	428	114	55
New Mexico	1,363	1,352	321	430
New York	1,396	1,214	150	134
Oklahoma	2,387	W	W	W
Utah	45,205	26,733	3,086	3,170
Virginia	3,573	2,224	289	275
Washington	5,655	W	W	W
Wisconsin	1,126	735	95	100
Other States ^{1/}	140	6,361	777	881
Total	359,156	332,823	44,393	44,516
Daily average ^{2/}	981	1,370	1,432	1,436

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing individual company confidential data; included in "Other States."

1/ Includes Alaska, Kentucky, Oregon, and quantities indicated by symbol W.

2/ Based on number of days in month without adjustment for Sundays or holidays.

TABLE 1. - Receipts, consumption and stock changes of lead and tin scrap by remelters, smelters, refiners, and other consumers of purchased scrap in the United States in August 1969 (Short tons)

Item	Stocks July 31, 1969	Net receipts	Consumption	Stocks August 31, 1969
<u>Lead-base scrap</u>				
Battery lead plates-----	25,596	40,827	39,273	27,150
Solder-----	340	719	653	406
Common babbitt-----	326	947	933	340
Soft lead-----	2,961	5,366	3,913	4,414
Antimonial lead-----	1,071	1,235	1,197	1,109
Cable covering-----	791	3,011	2,908	894
Type metals-----	3,162	2,809	2,895	3,076
Drosses and residues-----	21,665	11,854	1/ 11,902	21,617
Total-----	55,912	66,768	63,674	59,006
Change from preceding month (percent)-----		+7.8	+10.5	+5.5
<u>Tin-base scrap</u>				
Tin pipe, etc.-----	17	12	16	13
Tin babbitt-----	35	18	27	26
Pewter-----	1	3	3	1
Drosses and residues-----	733	254	1/ 312	675
Total-----	786	287	358	715
Change from preceding month (percent)-----		+9.5	+20.5	-9.0

1/ Includes an estimated 3,400 tons of generated (not purchased) drosses.

TABLE 5. - Lead, tin, and antimony recovered from scrap in August 1969
(Short tons)

Product Recovered	Secondary Metal Content		
	Lead	Tin	Antimony
<u>Lead-base</u>			
Refined soft lead-----	5,778	---	---
Remelt lead-----	1,115	---	---
Antimonial lead-----	25,533	45	1,217
Cable lead-----	1,610	---	9
Lead-base babbitt-----	1,002	54	99
Solder-----	2,556	384	25
Type metals-----	2,592	159	324
Other (In copper-base alloy andterne metal)-----	33	1	1
Total lead-base-----	44,349	643	1,612
<u>Tin-base</u>			
Remelt tin-----	---	14	---
Tin-base babbitt-----	---	4	---
Other (In copper-base alloy,terne metal, etc.)-----	---	2	---
Total tin-base-----	---	20	---
Grand total-----	1/ 44,349	663	2/ 1,612

1/ Includes 603 tons recovered from scrap at primary refineries.

2/ Includes 12 tons recovered from scrap at primary refineries.

TABLE 6. - U.S. exports of lead, by class
(Short tons, lead content)

Class	1968	1969		
		Jan.-Aug.	July	August
Lead materials excluding scrap-----	3,281	3,122	553	316
Scrap-----	937	1,093	171	35
Total-----	9,218	4,215	724	351

TABLE 7. - U.S. imports of lead, by type of material and by country of origin
(Short tons, lead content)

	General Imports				Imports for consumption			
	1966	Jan.-Aug.	July	August	1966	Jan.-Aug.	July	August
Org. matte, etc.:								
Australia	20,592	15,623	8,553	930	12,640	13,404	2,739	1,182
Belgium	5,718	3,142	762	502	6,708	2,787	---	527
Canada	36,815	26,777	2,116	3,290	31,453	30,628	4,949	666
Chile	490	---	---	---	2,440	785	---	---
Honduras	9,272	9,475	1,142	1,368	7,730	7,889	---	---
Ireland	---	---	---	---	5,459	3,272	---	---
Mexico	303	112	---	---	321	423	2	3
Peru	13,976	16,145	623	2,234	28,999	15,023	1,539	2,275
Republic of South Africa	608	365	---	---	836	412	---	---
United Kingdom	---	33	---	---	---	33	---	---
Other countries	62	36	---	---	277	233	---	---
Total	87,436	71,708	13,246	8,328	96,863	74,869	9,229	4,653
Base bullion:								
Australia	---	1,979	---	---	---	---	---	---
Canada	14	---	---	---	14	---	---	---
Mexico	101	---	---	---	33	---	---	---
Other countries	35	---	---	---	36	---	---	---
Total	150	1,979	---	---	43	---	---	---
Pigs and bars:								
Australia	46,919	40,761	1,845	10,899	46,919	40,761	1,845	10,899
Belgium-Luxembourg	18,649	1,214	277	---	19,149	1,714	277	---
Burma	---	150	---	---	---	---	---	---
Canada	60,161	31,284	3,487	1,736	60,161	31,284	3,487	1,736
France	4,684	5,627	1,049	827	4,684	5,627	1,049	827
Germany, West	20,911	1,210	---	---	19,711	1,210	---	---
Japan	---	110	---	---	---	110	---	---
Mexico	56,516	39,557	3,614	4,969	56,516	39,557	3,614	4,969
Netherlands	205	11	3	---	205	11	3	---
New Zealand	---	150	---	---	---	150	---	---
Peru	75,105	40,229	7,078	5,931	75,105	40,229	7,078	5,931
Republic of South Africa	8,298	7,338	2,733	1,442	8,298	7,338	2,733	1,442
Sweden	3,868	---	---	---	3,868	---	---	---
Switzerland	---	---	---	---	---	---	---	---
United Kingdom	22,919	6,959	1,457	639	22,919	6,959	1,457	639
Yugoslavia	19,775	21,729	3,325	1,813	19,775	21,729	3,325	1,813
Other countries	390	230	19	---	390	230	19	---
Total	338,120	196,569	24,887	28,256	337,620	197,069	24,887	28,256
Reclaimed scrap, etc.	6,481	5,756	980	707	6,481	5,756	980	707
Pipes, sheets, shot, etc.	893	381	117	32	893	381	117	32
Grand total	433,480	276,395	38,890	37,321	439,688	276,626	34,744	33,622

PNYC 00011249

TABLE 8. - Consumer and secondary smelter stocks, receipts, and consumption of lead in refinery shapes and in copper-base scrap in August 1969
(Short tons, lead content)

Type of material consumed	Stocks July 31, 1969		Net receipts		Consumption		Stocks August 31, 1969		Change in stocks July 31 to Aug. 31 (Percent)
	Quantity	Per-cent	Quantity	Per-cent	Quantity	Per-cent	Quantity	Per-cent	
Soft lead-----	65,984	46	71,954	67	71,016	67	66,922	46	+1.4
Antimonial lead---	66,923	47	31,078	29	30,119	29	67,882	47	+1.4
Lead alloys-----	8,586	6	3,812	3	2,952	3	9,446	6	+10.0
Copper-base scrap--	913	1	1,139	1	1,235	1	817	1	-10.5
Total-----	142,406	100	107,983	100	1105,322	100	145,067	100	+1.9

1/ Excludes 2,775 tons of lead which went directly from scrap to fabricated products and 41 tons of lead contained in leaded zinc oxide production.

TABLE 9. - Consumption of lead in refinery shapes and in copper-base scrap, in August 1969 by class of product and type of material
(Short tons, lead content)

Class of product	Type of material consumed				Total
	Soft lead	Antimonial lead	Lead alloys	Copper-base scrap	
Metal products-----	38,154	29,159	2,936	1,235	71,484
Pigments-----	8,750	---	---	---	8,750
Chemicals-----	22,789	---	---	---	22,789
Miscellaneous-----	439	831	---	---	1,270
Unclassified-----	884	129	16	---	1,029
Total-----	71,016	30,119	2,952	1,235	1105,322

1/ Excludes 2,775 tons of lead which went directly from scrap to fabricated products and 41 tons of lead contained in leaded zinc oxide production.

TABLE 10. - Consumption of lead in the United States
(Short tons)

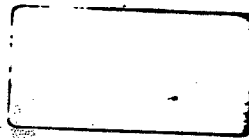
	1968	1969		
		Jan.-Aug.	July	August
Metal products:				
Ammunition-----	82,193	52,525	5,941	6,602
Bearing metals-----	18,441	11,567	1,490	1,303
Brass and bronze-----	21,021	13,831	1,363	1,660
Cable covering-----	53,456	34,362	3,210	3,997
Calking lead-----	49,718	27,565	3,879	3,313
Casting metals-----	8,693	4,513	304	301
Collapsible tubes-----	9,310	7,290	738	1,015
Foil-----	6,114	3,928	372	505
Pipes, traps, and bends-----	21,098	12,809	1,532	1,320
Sheet lead-----	28,271	15,299	1,733	1,727
Solder-----	74,074	43,768	5,525	4,650
Storage battery grids, posts, etc.-----	250,129	168,724	15,786	22,987
Storage battery oxides-----	263,574	185,894	19,006	22,620
Terne metal-----	1,427	995	56	60
Type metal-----	27,981	17,465	2,199	2,139
Total-----	915,500	600,535	63,134	74,259
Pigments:				
White lead-----	5,857	4,457	728	547
Red lead and litharge-----	86,480	53,644	5,855	7,033
Pigment colors-----	14,163	9,756	1,131	1,170
Other 1/-----	3,234	440	60	41
Total-----	109,734	68,297	7,774	8,791
Chemicals:				
Gasoline antiknock additives-----	261,897	175,069	23,828	22,789
Miscellaneous chemicals-----	629	(2)	(2)	(2)
Total-----	262,526	175,069	23,828	22,789
Miscellaneous uses:				
Annealing-----	4,194	1,459	111	169
Galvanizing-----	1,755	904	114	127
Lead-plating-----	389	211	21	27
Weights and ballast-----	16,768	7,829	914	947
Total-----	23,106	10,403	1,160	1,270
Other uses unclassified-----	17,924	11,095	1,100	1,029
Total reported 3/-----	1,328,790	865,399	96,996	108,138
Estimated undistributed consumption-----		28,000	3,500	3,500
Grand total 3/-----	1,328,790	893,400	100,500	111,700
Daily average 4/-----	3,631	3,677	3,242	3,603

1/ Includes lead content of leaded zinc oxide production. 2/ Included in "Other uses" to avoid disclosing confidential data. 3/ Includes lead content of scrap used directly in fabricated products. 4/ Based on number of days in month without adjustment for Sundays or holidays.

LEAD, ZINC &
BY-PRODUCT SALES

NOV 5 '69

	HMW	
☒	WJV	<i>[Signature]</i>
☒	WCJ	<i>[Signature]</i>
☒	DJR	<i>[Signature]</i>
☒	BLM	<i>[Signature]</i>
	FILE	



PNYC 00011252

THE ANACONDA COMPANY

25 Broadway, New York 4, N.Y.

March 11, 1958

Mr. Victor Armstrong, Vice President
Kenyon & Eckhardt, Inc.
247 Park Avenue
New York 17, New York

Dear Vic:

Referring to your letter of March 4th regarding more promotion for lead and zinc, a lot of words on this subject have been used recently by representatives of the lead and zinc producers.

Both the Lead Industries Association and The American Zinc Institute have programs for stepping up their basic and applied research, in the expectation that promotional support would be forthcoming for any worth-while developments.

Anacoda's interest in lead is relatively minor, as compared with our interest in zinc. We, of course, belong to both of the previously-named trade associations, and pay our pro rata share of whatever development is being done. I don't believe we are in a position to put a big Anacoda push behind zinc, and yet I certainly do not disagree with your observation that these metals can be of service, and are not now being used, we should explore to determine whether exploitation is desirable.

I suggest that Mr. Kimberley's observations about the "third area" sound intriguing only because they are so vague. In fact, I don't know what he means.

Sincerely yours,
Original signed by
J. P. Robbins
Advertising Manager

J. Robbins:JM

Mr. F. H. Hurless ✓

Thank:

Do you have any thoughts which could lead us in
ative direction?

J. P. H.

PNYC 00011253

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