

Minerals Year 1966

Volume I-II

METALS, MINERALS, A



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N49791

Table 12.—Lead consumption in the United States, by products
(Short tons)

Product	1965	1966	Product	1965	1966
Metal products:			Pigments—Continued		
Ammunition.....	57,322	78,435	Pigment colors.....	12,553	13,696
Bearing metals.....	21,600	21,688	Other ¹	8,063	8,562
Brass and bronze.....	23,699	25,447	Total.....	104,843	119,888
Cable covering.....	69,646	66,491	Chemicals:		
Calking lead.....	66,584	68,250	Gasoline antiknock ad-		
Casting metals.....	6,046	6,671	ditives.....	225,203	246,879
Collapse tubes.....	10,893	11,987	Miscellaneous chemicals.....	346	614
Foil.....	4,805	6,041	Total.....	225,649	247,493
Pipes, traps, and bends.....	19,837	19,984	Miscellaneous uses:		
Sheet lead.....	27,669	28,938	Annealing.....	5,719	6,441
Solder.....	77,819	78,898	Galvanizing.....	1,775	1,639
Storage batteries:			Lead plating.....	240	428
Battery grids, posts,			Weights and ballast.....	14,135	18,090
etc.....	235,641	240,535	Total.....	21,369	25,698
Battery oxides.....	219,706	231,957	Other, unclassified uses.....	19,490	18,289
Terne metal.....	2,109	1,966	Grand total².....	1,241,482	1,323,877
Type metal.....	38,416	30,421			
Total.....	865,691	912,609			
Pigments:					
White lead.....	8,414	8,181			
Red lead and litharge.....	79,853	89,600			

¹ Includes lead content of leaded zinc oxide and other pigments.² Includes lead which went directly from scrap to fabricated products.Table 13.—Lead consumption in the United States, by months
(Short tons)

Month	1965	1966	Month	1965	1966
January.....	104,881	104,651	August.....	101,417	114,046
February.....	100,024	101,506	September.....	107,198	110,951
March.....	104,192	114,570	October.....	113,162	120,575
April.....	100,743	106,834	November.....	110,509	118,641
May.....	100,762	113,649	December.....	103,395	114,663
June.....	104,363	110,556	Total¹.....	1,241,482	1,323,877
July.....	90,836	93,236			

¹ Includes lead content of leaded zinc oxide and other pigments and lead which went directly from scrap to fabricated products.Table 14.—Lead consumption in the United States in 1966, by class of products and types of material
(Short tons)

Product	Soft lead	Lead in antimonial lead	Lead in alloys	Lead in copper-base scrap	Total
Metal products.....	214,799	110,052	53,579	18,746	397,176
Storage batteries.....	237,371	234,587	40	—	471,998
Pigments.....	116,501	198	—	—	116,699
Chemicals.....	247,493	—	—	—	247,493
Miscellaneous.....	12,495	12,982	95	—	25,572
Unclassified.....	15,319	1,773	731	—	17,823
Total.....	843,978	359,592	54,445	18,746	1,276,760

¹ Excludes 43,928 tons of lead which went directly from scrap to fabricated products and 8,189 tons of lead contained in leaded zinc oxide and other nonspecified pigments.Table 15.—Lead consumption in the United States, by State
(Short tons)

State	Refined soft lead	Lead in antimonial lead
California.....	79,303	30,400
Colorado.....	1,461	2,900
Connecticut.....	16,614	17,000
District of Columbia.....	164	—
Florida.....	5,826	5,000
Georgia.....	32,378	10,000
Illinois.....	83,088	52,000
Indiana.....	79,407	46,000
Kansas.....	9,569	9,000
Kentucky.....	1,885	4,000
Maryland.....	6,304	17,000
Massachusetts.....	6,580	2,000
Michigan.....	20,408	19,000
Missouri.....	43,529	13,000
Nebraska.....	4,001	1,000
New Jersey.....	133,585	22,000
New York.....	41,345	3,000
Ohio.....	13,316	3,000
Pennsylvania.....	66,639	33,000
Rhode Island.....	950	—
Tennessee.....	174	10,000
Virginia.....	1,823	1,000
Washington.....	7,419	—
West Virginia.....	18,445	5,000
Wisconsin.....	3,141	2,000
Alabama and Mississippi.....	560	2,000
Arkansas and Oklahoma.....	4,017	8,000
Hawaii and Oregon.....	902	2,000
Iowa and Minnesota.....	4,383	7,000
Louisiana and Texas.....	166,804	17,000
Montana and Idaho.....	6,049	—
New Hampshire, Maine, Vermont and Delaware.....	4,003	5,000
North and South Carolina.....	811	2,000
Utah, Nevada, Arizona.....	118	—
Total.....	843,978	359,592

¹ Excludes 43,928 tons of lead which went directly from scrap to fabricated products and 8,189 tons of lead contained in leaded zinc oxide and other nonspecified pigments.

Table 16.—Production and shipments of lead pigments

Pigment	Production (short tons)	Shipments		
		Short tons	Value ¹	
			Total	Average per ton
White lead:				
Dry.....	8,787	10,266	\$4,358,293	\$425
In oil ²	2,753	4,407	2,845,789	646
Total.....	11,540	14,673	7,204,082	491
Red lead.....	29,815	29,663	11,103,069	376
Litharge.....	105,634	105,892	37,963,871	359
Black oxide.....	192,656	—	—	—

¹ Except for basic lead sulfate, figures withheld to avoid disclosure.² At plant, exclusive of container.³ Weight of white lead only, but value of paste.

Table 17.—Lead content of lead and zinc pigments¹ and lead oxides produced by domestic manufacturers, by sources
(Short tons)

Pigment	1965				1966			
	Lead in pigments produced from—			Total lead in pigments	Lead in pigments produced from—			Total lead in pigments
	Ore		Pig lead		Ore		Pig lead	
	Domestic	Foreign			Domestic	Foreign		
White lead.....	-----	-----	9,232	9,232	-----	-----	9,839	9,839
Red lead.....	-----	-----	27,027	27,027	-----	-----	28,174	28,174
Litharge.....	-----	-----	98,240	98,240	-----	-----	100,531	100,531
Black oxide.....	-----	-----	184,774	184,774	-----	-----	190,931	190,931
Leaded zinc oxide.....	1,345	561	-----	1,906	1,247	528	-----	1,776
Total.....	1,345	561	319,273	321,179	1,247	528	329,475	331,250

¹ Excludes lead in basic lead sulfate; figures withheld to avoid disclosing individual company confidential data.

Table 18.—Distribution of white lead (dry and in oil) shipments,¹ by industries
(Short tons)

Industry	1957-61 (average)	1962	1963	1964	1965	1966
Paints.....	15,184	12,054	11,358	10,534	9,185	8,260
Ceramics.....	308	137	138	143	133	130
Other.....	3,573	4,008	3,906	4,769	5,355	6,486
Total.....	19,065	16,199	15,402	15,446	14,673	14,876

¹ Excludes basic lead sulfate; figures withheld to avoid disclosing individual company confidential data.

Table 19.—Distribution of red lead shipments, by industries
(Short tons)

Industry	1957-61 (average)	1962	1963	1964	1965	1966
Paints.....	13,523	13,716	13,213	14,133	13,725	14,480
Storage batteries.....	W	W	W	W	W	W
Ceramics.....	W	637	W	W	W	W
Other.....	9,753	11,164	13,032	13,957	15,938	16,790
Total.....	23,276	25,517	26,245	28,090	29,663	31,270

W Withheld to avoid disclosing individual company confidential data; included with "Other."

Table 20.—Distribution of litharge shipments
(Short tons)

Industry	1957-61 (average)	1962	1963
Ceramics.....	W	17,752	17,761
Chrome pigments.....	W	W	5,761
Floor covering.....	W	W	W
Insecticides.....	W	W	W
Oil refining.....	2,714	2,404	1,971
Rubber.....	1,394	1,792	1,701
Storage batteries.....	W	W	W
Varnish.....	3,608	4,083	4,241
Other.....	92,795	77,366	72,891
Total.....	100,511	103,397	103,831

W Withheld to avoid disclosing individual company confidential data.

Table 21.—U.S. imports for consumption of lead pigments

Kind	1965	
	Short tons	(thousands)
White lead.....	1,631	1,631
Red lead.....	524	524
Litharge.....	22,208	22,208
Other lead pigments.....	5	5
Other lead compounds.....	203	203
Total.....	24,571	24,571

Table 22.—Stocks of lead at primary smelters and refineries
(Short tons)

Stocks	1957-61 (average)	1962	1963
Refined pig lead.....	140,318	136,544	48,781
Lead in antimonial lead.....	11,018	5,975	7,891
Litharge.....	14,837	10,392	14,941
Lead in ore and matte.....	46,183	43,750	49,211
Total.....	212,356	196,661	120,831

Table 23.—Consumer stocks of lead in the United States, by industry
(Short tons, lead content)

Year	Refined soft lead	Lead in antimonial lead	Lead in other lead
1962.....	51,121	34,389	---
1963.....	71,558	40,606	---
1964.....	69,361	35,163	---
1965.....	61,586	36,190	---
1966.....	44,490	34,704	---