Annual Statistical Review

of the

Lead Industries Association, Inc.

1964

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Lead Industries Association, Inc.

292 Madison Avenue

New York, N.Y. 10017

PIG LEAD
UNFILLED ORDERS

(SHORT TONS)

Unfilled orders consist only of lead held for customer's account at smelter, refinery and warehouse, which has been sold and invoiced or paid for, but not shipped during the month specified in the sales contracts. It is essentially lead owned by customers and held or stored at smelter, refinery or warehouse as of the last day of the month.

	1963	1964
January 31	1,787	1,862
February 29	800	1,362
March 31	1,089	1,313
April 30	769	1,611
May 31	490	1,711
June 30	766	1,711
July 31	3,922	4,527
August 31	2,972	3,819
September 30	2,616	3,159
October 31	1,899	1,209
November 30	1,062	1,209
December 31	734	1,186

Page AA

PIG LEAD SHIPMENTS*

(SHORT TONS)

	1963	1964
January	43,223	38,320
February	40,161	32,340
March	54,263	49,920
April	49,413	54,308
May	54,900	61,202
June	46,871	52,329
July	57,147	50,917
August	57,347	35,910
September	53,200	48,617 (a)
October	60,844	53,952 (b)
November	63,440	46,324 (c)
December	61,123	44,804 (d)
TOTAL	694,998	611,363
AVERAGE	57,917	50,947

*Actual physical shipments of lead from plants, warehouse or stocker to domestic purchasers regardless of origin including bonded and drawback lead and including any shipments of pig lead previously stored for customer's account at plant or warehouse.

Stockpile shipped in addition: (a) 16,268 (b) 9,813 (c) 147 (d) 2,297

Special Report

Companies contributing data to Form AA and Special Report above are the same as those contributing to the Pig Lead Sales Report listed on Page 3.

PIG LEAD

MANUFACTURERS' STOCK REPORT

1964

(SHORT TONS)

The following are the stocks of Pig Lead in the hands of manufacturers at the beginning of the months indicated. To avoid duplication in the case of companies manufacturing both Pigments and Metallic Lead Products, stocks of Pig Lead in the two departments have been reported by the members separately.

	PIGMENT MANUFACTURERS		METALLIC LEAD PRODUCTS MANUFACTURERS		OTHER MANUFACTURERS		TOTAL	
	1963	1964	1963	1964	1963	1964	1963	1964
JANUARY 1.....	6,350	11,011	30,167	30,302	24,129	32,877	52,625	64,000
FEBRUARY 1.....	9,742	12,290	30,500	19,320	29,373	33,092	96,705	64,079
MARCH 1.....	5,000	13,031	21,463	17,530	26,602	30,250	53,474	61,011
APRIL 1.....	10,724	13,370	19,916	21,303	24,000	30,170	55,629	64,011
MAY 1.....	10,532	12,067	19,304	20,932	25,663	32,221	81,569	65,210
JUNE 1.....	10,042	8,207	13,005	20,075	24,019	33,070	66,642	63,152
JULY 1.....	8,612	10,581	18,641	18,900	25,075	30,135	53,728	66,306
AUGUST 1.....	14,100	17,030	17,706	18,010	23,100	37,110	55,320	72,950
SEPTEMBER 1.....	13,231	11,010	17,757	18,790	23,206	30,464	54,194	60,030
OCTOBER 1.....	13,762	10,033	18,073	20,000	26,017	33,640	58,752	60,301
NOVEMBER 1.....	8,073	13,775	19,278	21,529	29,574	33,696	57,525	69,000
DECEMBER 1.....	7,000	10,019	19,767	17,000	30,116	33,650	56,540	60,610
JANUARY 1, 1965		9,060		20,710		30,771		60,547

Companies contributing data to this report are:

PIGMENT MANUFACTURERS

Bunker Hill Co., Pacific Div.
Eagle-Picher Co
E.P. Fuller & Co
Hammond Lead Products, Inc.
John B. MacCallum Lead Co.
National Lead Co
Western Lead Products Co

METALLIC LEAD PRODUCTS MFRS.

American Bronze Smelt Co
National Bearing Div.
American Smelting & Ref. Co
Lead Products Western Div.
A.S. Aloe Co Lead Products Division
Bearings Metals Corp
Bunt & Co., Inc
Bunker Hill Co., Pacific Div.

METALLIC LEAD PRODUCTS MFRS. (Cont'd.)

A.O. Common Wks. Co.
Federal Mogul-Bower Bearings, Inc.
Merritt Metals Corp.
Temperloy Type Metals Co.
Johnson Bronze Co.
Lead Products Co., Inc.
Metaloid Products Corp.
Midwest Lead Bronze, Inc.
Nelson Smelting & Ref. Co., Inc.
National Lead Co
New England Smelt. Bro., Inc.
Tom L.B. Oates Co
E.L. Post & Co., Inc.
Revere Copper & Brass Inc., Fort Division
Rivet Smelt. & Ref. Co.
Wilson Wilcox & Bond

OTHER MANUFACTURERS

Anaconda Wire & Cable Co.
Delco-Remy Div., General Motors Corp
E.I. DuPont de Nemours & Co., Inc.
Electric Storage Battery Co
Elwin Corp
General Cable Corp.
General Electric Co
Gould-National Batteries, Inc.
Kerite Insulated Co.
Okonite Co
Ohio Malleable Iron Co
Packard Bronze Copper Products Corp.
Pennsylvania Co
Reynolds Metal Co., Inc
John A. Roebling's Sons Div., Consumers Fuel & Iron Corp.
Western Electric Co., Inc.

1 Not included from April 1, 1963

2 Included from January 1, 1963

LIA12622

Lead Pigments

Domestic Shipments, Production and Stocks

1964

Companies contributing data to these reports are:

Bunker Hill Co., Pacific Products Div.
Eagle-Picher Co.
[1] H. P. Fuller & Co.
Hammond Lead Products, Inc.
John R. MacGregor Lead Co.
National Lead Co.
Western Lead Products Co.

[1] Not included from April 1, 1963

LEAD PIGMENTS
DOMESTIC SHIPMENTS, PRODUCTION AND STOCKS
(SHORT TONS)

SHIPMENTS

	WHITE LEAD, DRY		WHITE LEAD IN OIL		LITHARGE		RED LEAD[1] AND ORANGE MINERAL	
	AMOUNT	LEAD CONTENT	AMOUNT*	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	587	518	94	87	11,397	10,514	2,306	2,178
FEBRUARY	744	985	202	144	8,287	7,654	1,901	1,738
MARCH	856	664	190	135	7,838	7,230	2,125	1,933
APRIL	1,030	816	230	164	8,836	8,152	2,222	2,011
MAY	1,085	868	186	132	9,093	8,436	2,263	2,048
JUNE	896	664	187	133	8,838	8,100	2,430	2,181
JULY	1,046	837	193	137	8,413	7,768	1,986	1,788
AUGUST	890	687	132	94	8,438	7,827	2,462	2,222
SEPTEMBER	952	762	191	136	9,303	8,627	2,277	2,053
OCTOBER	848	679	114	81	11,432	10,615	1,931	1,745
NOVEMBER	915	732	119	85	10,472	9,662	2,361	2,134
DECEMBER	808	680	127	88	9,930	9,214	2,456	2,228
TOTAL 1964	10,367	8,342	1,965	1,390	113,192	104,870	26,814	24,267
AVERAGE	864	695	164	117	9,433	8,740	2,235	2,022
TOTAL 1963	10,913	8,710	2,144	1,525	114,742	106,194	25,307	22,922
AVERAGE	909	726	179	127	9,729	8,816	2,109	1,909

PRODUCTION

JANUARY	926	847	126	88	11,167	10,400	2,173	1,978
FEBRUARY	971	933	200	147	8,743	8,037	2,171	1,978
MARCH	954	788	164	106	8,081	7,473	2,378	2,070
APRIL	927	806	251	215	9,135	8,507	2,066	1,868
MAY	1,126	932	222	187	9,396	8,833	2,270	2,015
JUNE	837	675	190	138	8,175	8,487	2,239	2,025
JULY	864	709	163	116	7,657	7,035	1,672	1,478
AUGUST	1,067	838	121	87	8,240	7,678	2,158	1,933
SEPTEMBER	894	957	146	103	9,727	9,042	2,269	2,048
OCTOBER	760	630	165	117	11,580	10,773	2,254	2,037
NOVEMBER	761	641	87	64	11,843	10,948	2,193	1,981
DECEMBER	799	680	91	67	10,295	9,560	2,376	2,149
TOTAL 1964	10,913	8,226	1,976	1,459	113,994	105,664	26,673	23,990
AVERAGE	909	668	164	117	9,499	8,805	2,206	1,967
TOTAL 1963	11,160	8,830	2,190	1,580	116,402	107,852	26,567	23,902
AVERAGE	931	765	183	133	9,700	8,988	2,131	1,975

STOCKS

JANUARY 1, 1964	2,671	1,847	549	366	7,191	6,667	3,109	2,998
FEBRUARY 1	2,798	2,098	573	419	7,007	6,354	3,066	2,748
MARCH 1	2,577	2,036	571	433	7,663	6,737	3,354	2,998
APRIL 1	2,676	2,118	565	403	7,733	8,098	3,095	3,128
MAY 1	2,903	1,998	636	454	8,032	7,276	3,350	3,016
JUNE 1	3,032	2,062	672	479	9,296	7,679	3,326	2,966
JULY 1	2,804	2,053	679	488	7,956	8,032	3,130	2,979
AUGUST 1	2,682	1,975	695	481	8,799	8,100	3,018	2,797
SEPTEMBER 1	2,809	2,046	634	454	8,806	8,043	2,713	2,475
OCTOBER 1	2,937	2,041	569	421	7,007	8,326	2,704	2,438
NOVEMBER 1	2,767	1,782	688	497	7,173	6,684	3,027	2,921
DECEMBER 1	2,683	1,691	609	436	7,544	6,848	3,038	2,717
JANUARY 1, 1965	2,382	1,611	542	365	7,908	7,196	2,998	2,898

IN PROCESS[2]

WHITE LEAD				LEAD OXIDES[3]			
JANUARY 1, 1964	1,078	JULY 1	837	JANUARY 1, 1964	3,845	JULY 1	3,758
FEBRUARY 1	880	AUGUST 1	793	FEBRUARY 1	3,888	AUGUST 1	3,966
MARCH 1	916	SEPTEMBER 1	813	MARCH 1	3,766	SEPTEMBER 1	3,836
APRIL 1	1,003	OCTOBER 1	898	APRIL 1	3,963	OCTOBER 1	3,668
MAY 1	980	NOVEMBER 1	781	MAY 1	3,917	NOVEMBER 1	3,968
JUNE 1	885	DECEMBER 1	921	JUNE 1	3,991	DECEMBER 1	4,582
		JANUARY 1, 1965	788			JANUARY 1, 1965	3,979

1 - INCLUDES RED LEAD IN OIL AND DRY GRADES
2 - LEAD CONTENT
3 - DRY BASIS

LIA12624

DOMESTIC METALLIC LEAD PRODUCTS

Shipments

1984

COMPANIES CONTRIBUTING DATA TO THESE REPORTS ARE:

[NUMBERS AFTER COMPANY NAMES INDICATE PRODUCTS REPORTED BY EACH COMPANY, I.E., 1-SOLDER, 2-BEARING METALS, 3-ANTIMONIAL LEAD PRODUCTS, 4-TYPE METAL AND IMPRESSION LEAD, 5-PIPE AND EXTRUDED PRODUCTS (INCLUDING TRAPS AND BENDS,) 6-ROLLED PRODUCTS, 7-MISCELLANEOUS LEAD PRODUCTS (INCLUDING CALKING LEAD.)]

American Brass Shot Co., National Bearings Div. - 2
American Metal Climax, Inc. - 1
American Smelting & Refining Co., including
Federated Metals Div. - 1, 2, 3, 4, 5, 6, 7
G. A. Apsit Co., Lead Products Div. - 1, 2, 5, 7
Bearing Metals Corp. - 2
Bell & Co., Inc. - 1, 3, 7
Bunker Hill Co. - 7
Bunker Hill Co., Pacific Division -
1, 2, 3, 4, 5, 6, 7
A. D. Cannon Manufacturing Co. - 2
Federal-Mogul-Bower Bearings, Inc. - 2
Flynn Lead Co., Inc. - 1, 5, 6, 7
Gardinier Metal Co. - 1, 2, 3, 4, 5, 7
Hegitt Metals Corp. - 1, 2, 4, 6, 7
Imperial Type Metal Co. - 4
Johnson Bronze Co. - 2
Lead Products Co., Inc. - 1, 3, 5, 7
Metaloid Products Corp. - 7
Milwaukee Lead Works, Inc. - 5, 7
Nassau Smelting & Refining Co - 1, 2, 3, 5, 7
National Lead Co. - 1, 2, 3, 4, 5, 6, 7
New England Smelting Works, Inc. - 1, 2, 3, 4, 7
The L. H. Oatey Co. - 1, 5, 6, 7
E. L. Post & Co., Inc. - 2
Revere Copper & Brass Inc., Foil Div. - 6
River Smelting & Refining Co. - 1, 2, 4, 7
Wyman Vibber & Sons - 1, 3, 7

NOTE: Adjustments have been made in these reports to eliminate duplication resulting from shipments between reporting companies.

FORM M

LIA12625

METALLIC LEAD PRODUCTS

Domestic Shipments

(SHORT TONS)

PRODUCT / INDUSTRY	1963 AMOUNT	1963 LEAD CONTENT	1964 AMOUNT	1964 LEAD CONTENT
SOLDER				
Automobile Radiators, Etc.	16,530	12,036	15,240	12,630
Can Manufacturers and Canning	5,271	4,705	5,964	5,041
Coatings	1,005	1,247	1,050	1,050
Other	49,433	36,710	52,730	37,361
Total	71,008	54,798	75,421	56,499
BEARING METALS				
Railroad - Lead & Tin Base	10,003	8,438	10,231	8,593
Other - Lead & Tin Base	9,225	5,008	9,360	5,602
Other Bearing Metals	14,373	2,053	14,364	2,508
Total	33,600	16,108	33,955	16,703
ANTIMONIAL LEAD PRODUCTS				
Storage Batteries	127,200	110,245	123,200	114,723
Other	44,170	41,008	49,370	45,997
Total	171,430	150,253	172,570	160,720
TYPE METAL AND SUPERSESSION LEAD				
Electrotype Metal	2,230	2,162	1,867	1,847
Other Type Metal	21,021	16,295	21,000	16,515
Supersession Lead	80	80	19	19
Total	23,431	18,537	23,016	18,381
LEAD PIPE AND EXTRUDED PRODUCTS				
Pipe and Tubing	14,068	13,934	14,991	14,416
Traps and Bends	1,723	1,723	1,778	1,778
Other	651	648	702	692
Total	16,442	16,305	19,031	16,886
ROLLED LEAD PRODUCTS				
Sheet and Strip	22,519	22,230	23,074	23,230
Collapsible Tube Discs	819	811	900	817
Total	23,438	23,041	24,154	23,847
MISCELLANEOUS LEAD PRODUCTS				
Calking Lead	61,935	61,930	61,830	61,830
Other	33,154	32,967	41,484	41,118
Total	101,089	100,381	103,314	102,948

METALLIC LEAD PRODUCTS
DOMESTIC SHIPMENTS

(SHORT TONS)

SOLDER

1964	AUTOMOBILE RADIATORS ETC.		CAN MFRS. AND CAPPING		COATINGS		OTHER		TOTAL		1963 TOTAL	
	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	1,247	1,042	332	299	104	83	4,303	3,187	5,186	4,607	6,084	4,902
FEBRUARY	1,317	1,092	426	379	136	106	4,130	2,881	6,009	4,457	5,196	3,860
MARCH	1,305	1,199	432	389	162	127	4,306	3,246	6,375	4,921	5,866	4,337
APRIL	1,283	1,190	503	454	163	127	4,823	3,365	6,972	5,136	6,122	4,524
MAY	1,958	1,302	596	543	121	93	4,510	3,156	6,783	5,094	6,521	4,800
JUNE	1,648	1,197	563	504	162	126	5,231	3,689	7,604	5,516	5,798	4,251
JULY	1,078	869	558	506	150	117	4,142	2,906	5,928	4,470	5,807	4,193
AUGUST	1,142	927	496	451	106	131	4,042	2,821	5,846	4,330	6,107	4,223
SEPTEMBER	1,276	1,046	530	489	152	119	4,127	3,006	6,084	4,543	6,004	4,478
OCTOBER	966	812	476	437	206	165	3,780	2,642	5,418	4,256	6,482	4,811
NOVEMBER	1,067	864	387	339	253	200	4,245	2,965	5,952	4,364	5,992	4,411
DECEMBER	1,365	1,131	296	257	84	67	4,011	3,415	5,956	4,870	5,797	4,328
TOTAL	15,248	12,630	5,904	5,041	1,999	1,456	52,730	37,361	75,421	56,499		
AVERAGE	1,271	1,053	492	420	166	122	4,394	3,113	6,285	4,708		
TOTAL 1963	14,530	12,029	5,271	4,753	1,805	1,267	49,253	34,719			71,069	52,736
AVERAGE	1,212	1,002	439	397	150	106	4,138	2,893			5,922	4,394

FORM M-1

BEARING METALS

1964	RAILROAD		OTHER		OTHER BEARING METALS		TOTAL		1963 TOTAL	
	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	895	588	638	389	1,379	304	2,712	1,781	2,638	1,280
FEBRUARY	867	724	796	473	1,306	241	2,939	1,642	2,965	1,190
MARCH	861	721	898	439	1,307	218	2,758	1,378	3,671	1,187
APRIL	945	790	763	461	1,247	219	2,955	1,470	2,842	1,016
MAY	1,011	848	908	474	1,797	307	3,818	1,827	2,795	1,384
JUNE	869	707	995	526	1,073	187	2,943	1,660	3,008	1,063
JULY	865	707	718	432	977	155	2,660	1,294	2,614	1,262
AUGUST	909	804	704	393	1,168	174	2,950	1,280	2,841	1,294
SEPTEMBER	818	685	735	434	1,108	195	2,761	1,314	2,686	1,317
OCTOBER	838	700	885	548	1,022	168	2,745	1,417	2,868	1,668
NOVEMBER	868	704	868	515	943	183	2,679	1,379	2,712	1,379
DECEMBER	908	845	813	523	1,180	195	2,899	1,563	3,308	1,985
TOTAL	10,231	8,583	9,868	5,863	16,364	2,956	33,963	18,783		
AVERAGE	852	715	780	667	1,197	304	2,830	1,382		
TOTAL 1963	10,003	8,434	8,229	5,084	16,570	2,843			31,860	18,100
AVERAGE	861	703	889	423	1,214	217			2,760	1,542

FORM M-2

METALLIC LEAD PRODUCTS
DOMESTIC SHIPMENTS

(SHORT TONS)

ANTIMONIAL LEAD PRODUCTS

1964	STORAGE BATTERIES		OTHER		TOTAL		1963 TOTAL	
	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	12,637	11,730	3,064	2,902	15,701	14,661	15,194	14,197
FEBRUARY	8,666	8,061	3,836	3,610	12,502	11,671	13,075	12,019
MARCH	8,942	8,322	3,992	3,394	12,534	11,716	13,476	12,606
APRIL	8,986	8,384	3,927	3,704	12,913	12,068	13,828	12,904
MAY	9,637	8,798	3,728	3,526	13,185	12,324	14,733	13,644
JUNE	9,348	8,700	4,902	4,548	14,248	13,248	11,981	11,193
JULY	8,297	7,724	3,798	3,545	12,063	11,268	12,186	11,362
AUGUST	9,778	9,079	3,948	3,588	13,722	12,634	12,774	11,929
SEPTEMBER	11,923	10,716	4,537	4,057	16,100	14,771	13,901	12,668
OCTOBER	11,980	10,773	5,290	5,011	16,870	15,784	15,909	14,931
NOVEMBER	11,604	10,604	4,236	4,017	15,840	14,621	15,189	14,163
DECEMBER	12,677	11,625	4,386	4,131	17,063	15,956	16,623	15,497
TOTAL	123,398	114,723	48,380	46,997	172,570	160,720		
AVERAGE	10,274	9,560	4,107	3,833	14,381	13,393		
TOTAL 1963	127,260	118,245	44,170	41,688			171,430	159,933
AVERAGE	10,606	9,854	3,681	3,474			14,287	13,328

FORM M-3

TYPE METAL AND IMPRESSION LEAD

1964	ELECTROTYPE METAL		OTHER TYPE METAL		IMPRESSION LEAD		TOTAL		1963 TOTAL	
	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	[illegible]	188	1,671	1,318	6	6	1,880	1,902	2,005	1,900
FEBRUARY	138	129	1,958	1,223	-	-	1,696	1,351	1,730	1,617
MARCH	[illegible]	196	1,695	1,316	3	3	1,897	1,515	1,976	1,862
APRIL	188	196	1,901	1,459	2	2	2,071	1,657	2,001	1,842
MAY	192	176	1,848	1,658	2	2	2,042	1,836	2,129	1,960
JUNE	165	137	1,824	1,908	-	-	2,189	1,845	2,018	1,992
JULY	163	132	1,734	1,375	2	2	1,879	1,509	1,832	1,799
AUGUST	156	143	1,898	1,301	1	1	2,011	1,645	2,090	1,949
SEPTEMBER	176	162	1,819	1,634	2	2	1,995	1,998	1,818	1,634
OCTOBER	137	125	1,733	1,382	-	-	1,870	1,466	2,273	1,908
NOVEMBER	190	181	1,648	1,297	2	2	1,840	1,480	1,790	1,613
DECEMBER	123	116	1,831	1,632	1	1	1,954	1,747	1,848	1,690
TOTAL	1,983	1,847	21,008	18,919	19	19	23,016	18,981		
AVERAGE	165	154	1,751	1,576	2	2	1,918	1,582		
TOTAL 1963	2,336	2,162	21,021	18,795	80	80			23,431	18,637
AVERAGE	194	180	1,752	1,566	7	7			1,953	1,945

FORM M-4

METALLIC LEAD PRODUCTS
DOMESTIC SHIPMENTS

(SHORT TONS)

LEAD PIPE AND EXTRUDED PRODUCTS

1964	PIPE & TUBING		TRAPS & BENDS		OTHER		TOTAL		1963 TOTAL	
	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	1,917	1,906	133	133	62	62	1,912	1,901	1,918	1,908
FEBRUARY	1,353	1,342	121	121	50	50	1,525	1,512	1,293	1,290
MARCH	1,683	1,671	147	147	63	62	1,893	1,880	1,377	1,366
APRIL	1,510	1,693	204	204	57	57	1,771	1,754	1,767	1,733
MAY	1,627	1,615	160	160	50	50	1,646	1,654	1,883	1,871
JUNE	1,588	1,564	173	173	72	71	1,803	1,788	1,548	1,537
JULY	1,612	1,600	171	171	67	64	1,650	1,635	1,529	1,519
AUGUST	1,264	1,236	176	176	70	70	1,488	1,479	1,530	1,520
SEPTEMBER	1,620	1,611	196	196	30	29	1,808	1,796	1,867	1,954
OCTOBER	1,624	1,614	150	150	35	34	1,908	1,867	1,760	1,737
NOVEMBER	1,186	1,176	123	123	40	39	1,348	1,338	1,691	1,678
DECEMBER	1,217	1,206	97	97	48	46	1,362	1,352	1,618	1,600
TOTAL	18,981	18,616	1,770	1,770	700	683	19,031	18,806		
AVERAGE	1,379	1,368	148	148	58	56	1,586	1,574		
TOTAL 1963	18,068	19,034	1,723	1,723	851	648			18,642	18,309
AVERAGE	1,339	1,330	144	144	54	54			1,537	1,526

FORM M-3

ROLLED LEAD PRODUCTS

1964	SHEET & STRIP		COLLAPSIBLE TUBE DISCS		TOTAL		1963 TOTAL	
	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	1,980	1,933	48	43	2,068	1,976	2,379	2,347
FEBRUARY	1,971	1,897	33	29	2,004	1,926	1,819	1,788
MARCH	1,485	1,443	48	43	1,533	1,486	1,960	1,918
APRIL	1,777	1,794	42	37	1,819	1,791	1,950	1,923
MAY	1,866	1,843	68	61	1,932	1,904	2,024	1,987
JUNE	2,319	2,293	75	67	2,394	2,360	2,243	2,222
JULY	1,869	1,828	38	34	1,903	1,862	1,965	1,932
AUGUST	2,006	1,979	47	42	2,056	2,017	2,135	2,093
SEPTEMBER	2,306	2,298	35	31	2,321	2,289	1,968	1,931
OCTOBER	2,464	2,434	53	47	2,507	2,471	2,089	2,029
NOVEMBER	1,878	1,848	58	50	1,936	1,898	1,818	1,788
DECEMBER	1,838	1,808	37	33	1,867	1,838	1,919	1,893
TOTAL	23,876	23,530	588	517	24,344	23,867		
AVERAGE	1,973	1,944	48	43	2,011	1,987		
TOTAL 1963	22,919	22,330	919	879			23,629	23,041
AVERAGE	1,877	1,853	76	67			1,969	1,936

FORM M-3

LIA12629

METALLIC LEAD PRODUCTS
DOMESTIC SHIPMENTS

(SHORT TONS)

MISCELLANEOUS LEAD PRODUCTS

1964	CALKINS LEAD		OTHER		TOTAL		1963 TOTAL	
	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT	AMOUNT	LEAD CONTENT
JANUARY	5,798	5,798	3,422	3,332	9,220	9,130	9,338	9,308
FEBRUARY	3,841	3,841	2,517	2,474	6,358	6,315	6,184	6,159
MARCH	5,367	5,367	2,920	2,844	8,287	8,211	7,277	7,236
APRIL	4,885	4,885	3,998	3,920	8,883	8,805	8,956	8,905
MAY	5,517	5,517	3,830	3,770	9,346	9,287	9,042	8,988
JUNE	6,022	6,022	3,667	3,609	9,689	9,631	9,772	9,740
JULY	5,950	5,950	3,442	3,382	9,392	9,332	9,087	9,009
AUGUST	5,967	5,967	2,794	2,731	8,761	8,698	8,304	8,268
SEPTEMBER	5,916	5,916	3,646	3,582	9,560	9,496	9,053	9,019
OCTOBER	4,511	4,511	3,595	3,506	8,066	8,017	9,379	9,327
NOVEMBER	4,291	4,291	3,800	3,743	8,091	8,034	7,990	7,883
DECEMBER	3,967	3,967	4,294	4,225	8,261	8,192	8,813	8,367
TOTAL	61,830	61,830	41,864	41,118	103,914	102,748		
AVERAGE	5,136	5,136	3,490	3,426	8,826	8,562		
TOTAL 1963	57,928	57,928	33,154	32,867			101,082	100,795
AVERAGE	5,061	5,061	2,763	2,722			8,424	8,383

FORM M-7

LIA12630

ESTIMATED DOMESTIC LEAD CONSUMPTION

(SHORT TONS)

A breakdown of each month's consumption figures for 1964, will be found on the following pages.

	1963	1964
January	99,870	93,095
February	82,670	83,730
March	81,850	81,788
April	78,510	91,320
May	88,440	92,340
June	87,020	88,740
July	78,865	86,025
August	83,490	83,045 a
September	86,765	92,725 a
October	94,935	89,390 a
November	88,510	92,295 a
December	88,210	93,875 a
TOTAL	1,035,915	1,074,430
MONTHLY AVERAGE	86,295	89,535

NOTE We estimate that the 1963 figures are low by approximately 137,000 tons, and 1964 figures by 113,000 tons.

a Includes stockpile lead shipped to customers.

FORM 8

LIA12631

ESTIMATED DOMESTIC LEAD CONSUMPTION

YEAR 1964

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 TOTAL	1963 TOTAL
STORAGE BATTERIES..				89,200	11,115			134,030				133,110a	336,640	336,100
CABLE.....												52,830	52,830	46,665
PAINT & VARNISH....	5,700	1,395	3,875b	4,030	10,000								25,020	25,708
AMMUNITION.....												23,535	23,535	20,675
OIL REF. & GASOLINE				1,025								207,185	208,110	164,720
CONSTRUCTION.....									18,195	23,220c	69,035	13,875	120,435	121,956
INSECTICIDES.....				845									845	770
PRINTING.....												19,120	19,120	18,900
CERAMICS.....	80			20,360	570								20,000	17,790
COLORS.....				10,210								6,215	16,425	17,080
RAILROADS.....							8,280						8,280	8,665
AUTOMOBILES.....						10,640							10,640	13,650
CANS.....						12,720							12,720	10,305
STEEL & WIRE.....												4,735	4,735	3,315
COLLAPSIBLE TUBES..										1,395			1,395	2,515
RUBBER & HOSE.....				2,805	190							1,980	4,185	3,380
COATINGS.....						1,695							1,695	1,290
BRASS MFG.....												9,575	9,575	9,959
LEAD HEAD NAILS....												1,790	1,790	1,025
SEALS.....												310	310	270
ABRASIVES.....												220	220	225
UNCLASSIFIED.....	1,905		3,575	8,965	1,335	40,960	8,675	33,960	690			97,200	197,305	193,630
1964	8,185	1,395	7,450	168,055	23,405	65,015	16,955	168,010	18,885	24,615	69,035	597,200	1,068,210	
1963 TOTAL	8,700	1,525	8,630	166,055	22,005	64,305	16,405	166,810	18,535	26,730	71,760	527,200		1,035,5150

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

d - Compared to U.S. Bureau of Mines figures, the 1963 total is low by 127,000 short tons, particularly in Storage Batteries, Ammunition, Oil Ref. and Gasoline and Brass Mfg. For more complete consumption data on various end-uses, the Bureau of Mines report on LEAD is recommended.

e - Compared to U.S. Bureau of Mines figures, the 1964 total is low by 113,000 short tons, particularly in Storage Batteries, Ammunition, Oil Ref. and Gasoline and Brass Mfg. For more complete consumption data on various end-uses, the Bureau of Mines report on LEAD is recommended.

f - Reflected stockpile lead shipped to consumers.

FORM D

LIA12632

ESTIMATED DOMESTIC LEAD CONSUMPTION

JANUARY

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	BASIC LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CABLING LEAD	MISCELLANEOUS PRODUCTS	1964 JAN. TOTAL	1963 JAN. TOTAL
STORAGE BATTERIES..				9,780	1,125			13,825				14,790a	39,230	38,190
CABLE.....												4,285	4,285	4,865
PAINT & VARNISH....	300	85	1050	440	875								1,875	2,250
AMMUNITION.....												1,745	1,745	1,615
OIL REF. & GASOLINE				155								15,705	15,960	16,405
CONSTRUCTION.....									1,440	1,930c	6,065	1,030	11,060	11,745
INSECTICIDES.....				115									115	70
PRINTING.....												1,800	1,800	1,800
CERAMICS.....	5			1,695	50								1,960	1,645
COLORS				1,830								695	1,665	1,395
RAILROADS.....							500						500	505
AUTOMOBILES.....						1,965							1,965	1,960
CANS.....						1,030							1,035	675
STEEL & PIPE.....												290	290	675
COLLAPSIBLE TUBES										335			335	30
RUBBER & HOSE.....				195	30							130	295	340
COATINGS.....						85							85	90
BRASS MFG.....												40	40	650
LEAD HEAD NAILS....												30	30	95
SEALS.....												25	25	-
ABRASIVES.....												20	20	25
UNCLASSIFIED.....	195		715	1,015	110	3,765	730	2,100	60			7,150	16,045	24,525
JAN. TOTAL 1964	535	85	765	16,115	2,185	6,865	1,230	15,925	1,500	2,265	6,065	47,545	53,065	
JAN. TOTAL 1963	600	85	730	16,875	2,030	6,800	1,360	12,805	1,610	2,325	7,030	53,060		56,570

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

FORM 9

LIA12633

ESTIMATED DOMESTIC LEAD CONSUMPTION

FEBRUARY

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 FEB. TOTAL	1963 FEB. TOTAL
STORAGE BATTERIES..				4,195	975			9,395				10,045a	25,420	27,215
CABLE.....												3,545	3,545	3,385
PAINT & VARNISH....	470	165	310c	330	635								1,630	1,825
AMMUNITION.....												1,675	1,675	1,525
OIL REF. & GASOLINE				135								16,170	16,305	16,680
CONSTRUCTION.....									1,445	1,895c	4,045	845	8,245	7,305
INSECTICIDES.....				80									80	80
PRINTING												1,695	1,695	1,615
CERAMICS.....	5			1,430	35								1,470	1,275
COLORS.....				745								565	1,310	1,365
RAILROADS.....							725						725	630
AUTOMOBILES.....						1,000							1,000	1,630
CANS.....						925							925	330
STEEL & WIRE.....												430	430	80
COLLAPSIBLE TUBES..										295			715	45
RUBBER & HOSE.....				135	90							100	325	275
CONTINDS						105							105	85
BRASS MFG.....												135	135	60
LEAD HEAD RAILS....												100	100	125
SEALS.....													-	65
AMMUNITION												50	50	-
MISCELLANEOUS.....	100		445	815	75	3,015	805	3,840	80			7,115	15,345	17,190
FEB. TOTAL 1964	565	165	755	7,815	1,705	5,195	1,530	13,235	1,525	2,195	4,045	44,015	83,745	
FEB. TOTAL 1963	530	80	645	8,005	1,005	6,130	1,215	15,625	1,510	1,945	3,545	41,045		82,575

a . INCLUDES BLACK OXIDE

b . INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c . SHEET AND STRIP

Form B

ESTIMATED DOMESTIC LEAD CONSUMPTION

MARCH

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD IN OIL	WHITE LEAD DRY	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 MARCH TOTAL	1963 MARCH TOTAL
STORAGE BATTERIES..				3,705	900			10,130				9,8954	24,980	28,573
CABLE.....												4,210	4,210	4,245
PAINT & VARNISH....	870	130	3150	230	705								2,040	2,190
AMMUNITION.....												1,710	1,710	1,770
OIL REF. & GASOLINE				115								15,570	15,885	16,650
CONSTRUCTION.....									1,630	1,405c	5,730	700	9,395	8,280
INSECTICIDES.....				70									70	80
PRINTING.....												1,515	1,515	1,560
CERAMICS.....	90			1,300	40								1,610	1,180
COLORS.....				700								640	1,220	1,245
RAILROADS.....							730						730	995
AUTOMOBILES.....						1,710							1,710	930
CANS.....						920							920	930
STEEL & WIRE.....												705	705	835
COLLAPSIBLE TUBES..										45			45	25
RUBBER & HOSE.....				180	15							60	255	140
COATINGS.....						125							125	70
BRASS MFG.....													-	130
LEAD HEAD NAILS....												100	100	-
SEALS												25	25	25
ABRASIVES.....													-	-
UNCLASSIFIED.....	705		480	690	95	2,430	995	2,970	60			8,895	15,070	15,110
MARCH TOTAL 1964	645	135	765	7,745	1,535	8,175	1,615	13,765	1,685	1,510	5,730	41,745	81,760	
MARCH TOTAL 1963	870	135	800	8,195	1,770	6,815	1,170	16,610	1,370	1,570	6,560	42,075		81,850

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

FORM D

LIA12635

ESTIMATED DOMESTIC LEAD CONSUMPTION

APRIL

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1944 APRIL TOTAL	1943 APRIL TOTAL
STORAGE BATTERIES..				4,475	1,005			9,956				11,1004	25,085	25,060
CABLE.....												4,010	4,010	3,770
PAINT & VARNISH....	905	165	3256	335	770								2,100	2,130
AMMUNITION.....												2,240	2,240	2,010
OIL REF. & GASOLINE				135								10,425	10,560	14,070
CONSTRUCTION.....									1,005	1,796c	5,330	1,470	10,290	10,125
INSECTICIDES.....				80									80	145
PRINTING.....												1,005	1,005	1,640
CERAMICS.....	90			1,500	45								1,535	1,270
COLORS.....				770								530	1,300	1,400
RAILROADS.....							790						790	730
AUTOMOBILES.....						1,005							1,005	1,015
CANS.....						1,050							1,050	810
STEEL & WIRE.....												275	275	170
COLLAPSIBLE TUBES..										30			30	80
RUBBER & HOSE.....				120	10							180	310	215
COATINGS.....						125							125	115
SHOT & BIRD.....												195	195	90
LEAD HEAD NAILS....												210	210	140
WIRE.....												80	80	-
ABRASIVES.....													-	-
[illegible]	765		975	800	85	3,565	765	2,815	85			10,540	19,885	12,660
APRIL TOTAL 1944	870	165	3,235	8,375	1,005	6,430	1,565	12,835	1,790	1,795	5,330	46,330	91,330	
APRIL TOTAL 1943	765	175	765	7,730	1,775	5,165	1,610	15,775	1,730	1,520	6,120	37,120		76,610

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

FORM B

LIA12636

ESTIMATED DOMESTIC LEAD CONSUMPTION

MAY

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 MAY TOTAL	1963 MAY TOTAL
[illegible] BATTERIES..				4,340	995			10,475				14,140a	29,950	29,110
CABLE.....												4,095	4,095	3,920
PAINT & VARNISH....	600	130	4050	300	875								2,300	2,995
AMMUNITION.....												2,235	2,235	1,805
OIL REF. & GASOLINE				145								17,265	17,410	16,270
CONSTRUCTION.....									1,950	1,845c	8,845	1,535	10,830	9,860
INSECTICIDES.....				90									90	155
PRINTING												1,640	1,640	1,690
CERAMICS.....	10			1,735	40								1,790	1,425
COLORS.....				840								525	1,370	1,059
BALL BEARINGS.....							840						840	710
AUTOMOBILES.....						1,800							1,800	1,165
CANS.....						1,730							1,730	810
STEEL & WIRE.....												475	475	390
COLLAPSIBLE TUBES..										60			60	150
RUBBER & HOSE.....				185	20							90	295	420
COATINGS.....						95							95	125
BRASS MFG.....												25	25	240
LEAD HEAD NAILS....												110	110	-
SEALS												25	25	60
ABRASIVES.....												90	90	60
[illegible]	200		890	310	195	3,270	780	2,900	100			6,305	15,760	14,095
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

FORM B

LIA12637

ESTIMATED DOMESTIC LEAD CONSUMPTION

JUNE

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD		MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CABLING LEAD	MISCELLANEOUS PRODUCTS	1944 JUNE TOTAL	1943 JUNE TOTAL
	DRY	IN OIL												
STORAGE BATTERIES..				4,700	1,185			18,675				9,070a	25,665	23,645
CABLE.....												5,010	5,010	3,790
PAINT & VARNISH....	470	135	3750	400	895								2,235	2,430
AMMUNITION.....												2,175	2,175	1,515
OIL REF. & GASOLINE				185								16,395	16,560	17,295
CONSTRUCTION.....									1,715	2,295c	6,445	935	11,390	12,080
INSECTICIDES.....				90									90	185
PRINTING.....												1,645	1,645	1,990
CERAMICS.....	10			1,825	45								1,880	1,220
COLORS.....				890								670	1,560	1,540
RAILROADS.....							705						705	745
AUTOMOBILES.....						1,795							1,795	1,135
CANS.....						1,545							1,545	1,050
STEEL & WIRE.....												415	415	405
COLLAPSIBLE TUBES..										65			65	245
RUBBER & HOSE				190	30							120	335	275
COATINGS.....						125							125	90
BRASS MFG.....												115	115	115
LEAD HEAD NAILS....												30	30	90
SEALS.....												25	25	-
ABRASIVES.....												-	-	30
UNCLASSIFIED.....	209		455	960	110	3,830	755	3,170	70			5,830	15,385	15,060
JUNE TOTAL 1944	685	135	4150	8,185	2,185	9,295	1,625	13,775	1,785	2,360	6,445	42,545	88,765	
JUNE TOTAL 1943	905	195	845	8,185	1,870	8,100	1,580	12,360	1,540	2,370	7,890	44,800		87,920

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

FORM B

LIA12638

ESTIMATED DOMESTIC LEAD CONSUMPTION

JULY

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 JULY TOTAL	1963 JULY TOTAL
STORAGE BATTERIES				4,615	650			8,005				20,150e	34,000	32,775
CABLE												3,000	3,000	3,065
PAINT & VARNISH	800	135	200e	805	950								2,340	2,470
ANNUNITION												2,045	2,045	1,730
OIL REF. & GASOLINE				175								17,955	18,130	15,750
CONSTRUCTION									1,570	1,030c	5,910	610	9,910	11,015
INSECTICIDES				65									65	50
PRINTING												1,910	1,910	1,290
CERAMICS	10			1,500	30								1,505	1,640
COLORS				740								405	1,145	1,145
RAILROADS							700						700	600
AUTOMOBILES						1,150							1,150	1,040
CANS						870							870	1,175
STEEL & WIRE												900	900	775
COMBUSTIBLE FUELS										731			731	320
RUBBER & HOSE				140	10							145	295	345
COATINGS						115							115	105
BRASS MFG.												105	105	275
LEAD HEAD RAILS												30	30	100
SEALS												25	25	-
ABRASIVES													-	-
MISCELLANEOUS	740		270	790	105	3,040	630	2,840	85			10,610	17,905	17,865
JULY TOTAL 1964	850	135	470	7,830	1,795	5,175	1,330	11,845	1,655	1,815	5,910	61,135	94,675	
JULY TOTAL 1963	835	165	755	8,335	1,905	5,095	1,310	11,895	1,515	2,165	7,035	58,575		98,585

e - INCLUDES BLACK OXIDE

c - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

f - SHEET AND STRIP

FORM B

LIA12639

ESTIMATED DOMESTIC LEAD CONSUMPTION

AUGUST

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD		MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 AUG. TOTAL	1963 AUG. TOTAL
	DRY	IN OIL												
STORAGE BATTERIES..				4,635	848			11,065				9,080a	25,636	25,756
CABLE.....												4,515	4,515	4,498
PAINT & VARNISH....	475	95	2750	305	1,150								2,300	2,570
AMMUNITION.....												1,375	1,375	1,425
OIL REF. & GASOLINE				175								18,545	18,720	18,395
CONSTRUCTION.....									1,690	1,975c	6,120	1,155	10,660	11,195
INSECTICIDES.....				40									45	95
PRINTING.....												1,445	1,445	1,645
CERAMICS.....	5			1,980	45								1,810	1,705
COLORS.....				780								505	1,315	1,325
RAILROADS.....							895						895	640
AUTOMOBILES.....						1,325							1,325	1,035
CANS.....						1,015							1,015	870
STEEL & WIRE.....												400	400	435
COLLAPSIBLE TUBES..										185			185	365
RUBBER & HOSE.....				150	10							140	305	230
COATINGS.....						130							130	95
BRASS MFG.....												130	130	105
LEAD HEAD NAILS....												80	80	110
SEALS.....													-	-
ABRASIVES.....												90	90	-
[illegible]	305		240	705	175	1,315	590	2,215	70			1,610	13,170	14,050
[illegible]	695	95	1,5	7,015	2,225	3,785	1,485	13,280	1,680	2,160	8,135	43,240	83,054	
[illegible]	305	180	780	8,865	1,995	4,860	1,295	12,380	1,520	2,360	7,630	41,370		83,630

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

d - INCLUDES STOCKPILE LEAD SHIPPED TO CONSUMERS

FORM D

ESTIMATED DOMESTIC LEAD CONSUMPTION

SEPTEMBER

Lead Content

(SHORT TONS)

PRODUCTION	WHITE LEAD DRY	WHITE LEAD IN OIL	BASIC LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 SEPT. TOTAL	1963 SEPT. TOTAL
STORAGE BATTERIES				9,310	700			11,530				10,5104	20,170	27,615
CABLE												5,745	5,745	5,615
PAINT & VARNISH	525	138	2754	200	1,038								2,250	2,300
GLASS MAKING												2,630	2,630	2,500
PETROLEUM & GASOLINE				170								14,705	14,875	13,065
CONSTRUCTION									1,965	2,900c	8,100	1,710	11,895	11,225
WEIGHT (LEAD)				50									50	-
PLASTICS												1,995	1,995	1,435
CERAMICS	50			1,305	95								1,360	1,360
OTHERS				830								425	1,200	1,650
AMMUNITION							895						895	670
BATTERIES						2,355							2,355	1,320
CABLE						1,540							1,540	1,130
STEEL & WIRE												425	425	240
CHEMICALS & PLASTICS										30			30	230
RUBBER & HOSE				100	15							305	450	330
CRAFT MILL						130							130	140
BRASS MILL												90	90	90
LEAD MAKING MILLS												110	110	130
MISC												25	25	80
AMMUNITION												-	-	60
INDUSTRY TOTAL	230		695	325	100	3,675	895	2,930	30			8,120	16,805	17,365
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

d - INCLUDES STEREOTYPE LEAD SHIPPED TO CUSTOMERS

FORM B

LIA12640

ESTIMATED DOMESTIC LEAD CONSUMPTION

SEPTEMBER

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CALKING LEAD	MISCELLANEOUS PRODUCTS	1964 SEPT. TOTAL	1963 SEPT. TOTAL
STORAGE BATTERIES..				5,300	700			11,530				10,510a	28,170	27,615
CABLE.....												5,745	5,745	3,615
PAINT & VARNISH....	525	135	270a	300	1,035								2,250	2,300
AMMUNITION.....												2,630	2,630	2,930
OIL REF. & GASOLINE				170								14,705	14,875	13,065
CONSTRUCTION.....									1,365	2,760c	6,100	1,710	11,895	11,225
INSECTICIDES.....				20									20	-
PRINTING.....												1,995	1,995	1,435
CERAMICS.....	90			1,305	85								1,390	1,390
COLORS.....				835								425	1,260	1,050
RAILROADS.....							895						895	870
AUTOMOBILES.....						2,395							2,395	1,320
CARS.....						1,540							1,540	1,130
STEEL & WIRE.....												425	425	260
COLLAPSIBLE TUBES..										2W			20	270
RUBBER & MISC.....				190	15							295	490	320
COATINGS.....						120							120	140
BRASS MFG.....												90	90	90
LEAD HEAD NAILS....												110	110	130
SEALS.....												25	25	60
ABRASIVES.....												-	-	40
UNCLASSIFIED.....	230		495	325	180	3,875	690	2,930	50			8,120	16,895	17,393
SEPT. TOTAL 1964	765	135	765	8,300	2,045	7,690	1,385	14,460	1,385	2,760	6,100	46,735	92,730	
SEPT. TOTAL 1963	830	125	845	8,870	2,230	5,585	1,265	13,380	1,356	2,135	5,875	44,125		86,795

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

d - INCLUDES STOCKPILE LEAD SHIPPED TO CUSTOMERS

FORM D

LIA12642

ESTIMATED DOMESTIC LEAD CONSUMPTION

NOVEMBER

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CABLE-ING LEAD	MISCELLANEOUS PRODUCTS	1964 NOV. TOTAL	1963 NOV. TOTAL
STORAGE BATTERIES..				6,075	805			12,500				10,915a	30,375	32,515
OXIDE.....												4,830	4,830	3,825
PAINT & VARNISH....	505	95	295a	385	1,010								2,300	1,830
AMMUNITION.....												1,585	1,585	1,640
OIL REF. & GASOLINE				195								19,645	19,830	13,080
CONSTRUCTION.....									1,200	1,935c	4,530	950	8,635	9,065
INSECTICIDES.....				60									60	5
PRINTING.....												1,605	1,605	1,700
CHEMICALS.....	5			1,670	90								1,730	1,635
COLORS.....				930								375	1,305	1,000
RAILROADS.....							700						700	700
AUTOMOBILES.....						1,350							1,350	1,250
CANS.....						700							700	610
STEEL & WIRE.....												600	600	110
COLLAPSIBLE TUBES..										80			80	700
RUBBER & HOSE.....				175	15							300	490	330
CUTTINGS.....						200							200	95
BRASS MFG.....												295	295	260
LEAD HEAD NAILS....												110	110	80
SEALS.....												50	50	25
ABRASIVES.....												50	50	-
UNCLASSIFIED.....	790		600	370	170	3,515	725	2,970	60			7,330	15,800	17,040
TOTAL 1964	730	95	855	9,760	1,795	5,850	1,450	15,470	1,260	1,935	4,530	38,175	82,705b	
TOTAL 1963	600	80	705	9,810	1,845	5,835	1,375	14,875	1,675	1,735	4,930	41,645		88,510

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

d - INCLUDES STOCKPILE LEAD SHIPPED TO CUSTOMERS

Form B

LIA12643

ESTIMATED DOMESTIC LEAD CONSUMPTION

DECEMBER

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SULFATES	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CABLING LEAD	MISCELLANEOUS PRODUCTS	1964 DEC. TOTAL	1963 DEC. TOTAL
STORAGE BATTERIES..				5,540	570			13,975				13,270a	34,155	33,1
CABLE.....												4,170	4,170	4,1
PAINT & VARNISH....	330	90	5400	275	1,000								1,965	1,9
AMMUNITION.....												1,875	1,875	1,4
OIL REF. & GASOLINE				170								20,020	20,190	15,1
CONSTRUCTION.....									1,205	1,000c	4,130	1,320	8,560	8,0
INSECTICIDES.....				55									55	
PRINTING.....												1,545	1,545	1,4
CERAMICS.....	5			1,530	55								1,590	1,5
COLORS.....				535								480	1,315	1,4
RAILROADS.....							600						665	9
AUTOMOBILES.....						1,700							1,700	1,3
CANS.....						575							875	7
STEEL & WIRE.....												305	305	3
COLLAPSIBLE TUBES..										35			35	3
RUBBER & HOSE.....				140	90							190	380	3
COATINGS.....						65							65	
BRASS MFG.....												300	300	
LEAD HEAD NAILS....												80	80	
SEALS.....												25	25	
ABRASIVES.....														
ALL OTHER.....	140		500	270	195	3,905	770	2,795	65			2,160	10,375	13,1
[illegible] TOTAL 1964	465	90	7,05	8,375	2,360	6,345	1,430	16,765	1,340	1,035	4,130	51,220	99,8734	
[illegible] TOTAL 1963	600	405	880	9,670	1,545	5,775	1,886	16,545	1,800	1,795	4,545	42,015		95,7

a - INCLUDES BLACK OXIDE

b - INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

c - SHEET AND STRIP

d - INCLUDES STOCKPILE LEAD SHIPPED TO CUSTOMERS

FORM

LIA12644

ESTIMATED DOMESTIC LEAD CONSUMPTION

OCTOBER

Lead Content

(SHORT TONS)

INDUSTRY	WHITE LEAD DRY	WHITE LEAD IN OIL	MISC. LEAD COMPOUNDS	LITHARGE	RED LEAD	SOLDER	BEARING METALS	ANTIMONIAL LEAD PRODUCTS	PIPE AND EXTRUDED PRODUCTS	ROLLED PRODUCTS	CABLE LEAD	MISCELLANEOUS PRODUCTS	1964 OCT. TOTAL	1963 OCT. TOTAL
STORAGE BATTERIES..				6,500	650			12,040				8,415e	26,605	23,240
CABLE.....												4,405	4,405	6,795
PAINT & VARNISH....	470	80	395e	300	800								2,105	2,600
AMMUNITION.....												2,245	2,245	1,970
OIL REF. & GASOLINE				300								16,705	16,905	13,490
CONSTRUCTION.....									1,995	2,475c	4,705	950	9,635	11,430
INSECTICIDES.....				65									65	5
PRINTING.....												1,600	1,600	1,805
CERAMICS.....	5			1,005	30								1,040	1,055
COLORS.....				1,070								580	1,650	1,660
RAILROADS.....							700						700	810
AUTOMOBILES.....						810							810	1,295
CANS.....						740							740	960
STEEL & WIRE.....												455	455	300
COLLAPSIBLE TUBES..										45			45	600
RUBBER & HOSE.....				240	15							300	495	295
COATINGS.....						100							165	115
BRASS MFG												105	105	210
LEAD HEAD NAILS....												80	80	190
SEALS.....												25	25	25
ABRASIVES.....													•	30
UNCLASSIFIED.....	304		870	405	140	3,140	795	5,005	95			7,760	16,665	16,665
OCT. TOTAL 1963	779	139	895	11,130	2,365	6,100	1,565	19,245	1,115	2,645	6,195	45,705		84,955

• . INCLUDES BLACK OXIDE

b . INCLUDES LEAD CONTENT OF LEADED ZINC OXIDE

r . SHEET AND STRIP

e . INCLUDES STOCKPILE LEAD SHIPPED TO CUSTOMERS

Form 8

IMPORTS OF LEAD PRODUCTS FOR CONSUMPTION*

1964 **

(SHORT TONS)

PRODUCT COUNTRY	AMOUNT	LEAD CONTENT
PLATES, SHEET, STRIPS		
Belgium	143	143
Canada	66	66
Netherlands	823	823
Portugal	28	28
United Kingdom	36	36
West Germany	148	148
Yugoslavia	211	211
Total	1,455	1,455
BARS, RODS, ANGLES, SHAPES, ETC.		
Canada	488	488
Belgium	10	10
United Kingdom	350	350
Total	848	848
PIPES, TUBES, BLOCKS & PIPE FITTINGS		
Netherlands	2	2
United Kingdom	1	1
W. Germany	1	1
Total	4	4
LEAD OXIDE & GLAZIERS-LEAD		
Canada	0	0
Netherlands	81	81
Total	81	81
POWDER & FLAKES		
Mexico	1,191	1,191
FOIL		
Netherlands	4	4
W. Germany	1	1
Total	5	5
LEAD PRODUCTS, NOT CLOTH OR PLATES		
Canada	79	79
Denmark	9	9
Hong Kong	2	2
Italy	7	7
Japan	127	127
Mexico	232	232
Netherlands	18	18
United Kingdom	79	79
W. Germany	51	51
Total	604	604

PRODUCT COUNTRY	AMOUNT	LEAD CONTENT
UNWROUGHT LEAD		
W. Germany	305	301
Yugoslavia	310	305
Total	615	607
UNWROUGHT TIN ALLOYS		
Bolivia	462	227
Canada	2	1
Netherlands	83	38
United Kingdom	28	11
Total	575	277
SOLDER		
Bolivia	408	201
Canada	4	2
Chile	28	16
Netherlands	8	5
Portugal	11	4
United Kingdom	384	217
W. Germany	503	288
Total	1,337	733
LITHARGE †		
Belgium	17	16
Canada	487	439
France	330	305
Mexico	15,000	13,800
Total	15,834	14,560
RED LEAD †		
Belgium	23	21
Mexico	1,132	1,041
Netherlands	15	14
W. Germany	444	408
Total	1,614	1,484
WHITE LEAD †		
Canada	841	668
India	44	34
Netherlands	348	267
United Kingdom	383	295
W. Germany	1,321	1,013
Total	2,937	2,277
CHROME YELLOW †		
Canada	1	1
Japan	350	441
W. Germany	111	140
Total	462	582
GRAND TOTAL	31,511	31,044

* U.S. Bureau of Census

** Not comparable to past years due to changes in classifications

† Estimated lead content of LTA