

Mineral Industry Surveys

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LEAD IN JUNE 2007

Domestic mine production of lead, based on the net quantity of lead recovered from concentrate, was 34,500 metric tons (t) in June, down about 6% from that of the previous month, according to the U.S. Geological Survey. Mine production for the first 6 months of 2007 was slightly above that for the same period in 2006. Secondary refinery production of lead increased by 6% from that of the previous month.

According to Platts Metals Week published quotations, the average North American producer price increased by about 7% from that of the previous month to \$1.06 per pound. The London Metal Exchange cash price averaged \$2,425 per metric ton in June, a 6-month increase of 41%.

The Doe Run Resources Corporation (St. Louis, MO) reached an agreement in principle with the city of Herculaneum, MO, to purchase additional land adjacent to Doe Run's lead smelter. The purchase was to provide a greater buffer between the smelter and the neighboring community. As part of the agreement, the company was to sell other owned land to the city for planned development of a shopping center (Doe Run Resources Corporation, 2007a). In another action, Doe Run reached an agreement with the U.S. Environmental Protection Agency outlining measures for improving the methods by which lead-bearing materials are transported to and from Doe Run's lead facilities. A spokesman for the company stated that this expanded agreement takes a system-wide approach to materials handling at all of Doe Run's smelters, mines, mills, and concentrators in Missouri. It includes cleaning methods, loading techniques, recordkeeping, and traffic flow, many of which have been in use at Doe Run's facilities (Doe Run Resources Corporation, 2007b).

Xstrata Plc (Zug, Switzerland) lifted the 5-month-long force majeure placed on lead metal shipments from its Northfleet lead refinery in the United Kingdom. The force majeure had been declared as a result of a shortfall in the supply of lead bullion

feed material from Xstrata's Mt. Isa Mine in Australia (Metal Bulletin, 2007).

Expansion projects begun by China's Yuguang Gold and Lead Group, Henan Province, were expected to significantly increase both primary refined lead and secondary lead production. Upon completion of the expansion projects, refined lead production capacity was to be increased to 500,000 metric tons per year (t/yr) from the current 300,000 t/yr, and secondary lead production capacity was to be increased to 300,000 t/yr from 100,000 t/yr. Each project was to be completed in two phases of 100,000-t/yr increase per phase. The first phase of expansion for primary refined and secondary lead was expected to be completed in about 7 months and 18 months from June 2007, respectively (Platts Metals Week, 2007).

Yunnan Chihong Zinc & Germanium Co., Ltd. and its parent company, Yunnan Metallurgical General Company, through a joint-venture agreement, planned construction of a new lead-zinc mine and smelter in Inner Mongolia. The smelter, to be located in Hulun Buir City, was expected to produce 100,000 t/yr each of lead and zinc, pending availability of ore at a nearby deposit (Metal-Pages, 2007).

References Cited

Doe Run Resources Corporation, 2007a, Doe Run agrees to purchase, sell property: Herculaneum, MO, Doe Run Resources Corporation news release, May 31, 2 p.

Doe Run Resources Corporation, 2007b, Doe Run signs final version of transportation agreement: St. Louis, MO, Doe Run Resources Corporation news release, June 4, 2 p.

Metal Bulletin, 2007, Xstrata to resume shipping from Northfleet on July 1 after months of force majeure: Metal Bulletin, no. 8999, June 11, p. 12.

Metal-Pages, 2007, New lead-zinc smelter set for Inner Mongolia: Metal-Pages, June 20. (Accessed October 1, 2007, via http://www.metal-pages.com/.)

Platts Metals Week, 2007, Yuguang to start lead refinery expansions in H2: Platts Metals Week, v. 78, no. 25, June 18, p. 11.

 $\label{eq:table 1} \textbf{TABLE 1} \\ \textbf{SALIENT LEAD STATISTICS IN THE UNITED STATES}^1 \\$

(Metric tons, lead content, unless otherwise specified)

	20	2006 2007			
		January-			January-
	Year	June	May	June	June
Production:					
Mine (recoverable)	426,000	210,000 r	36,900 r	34,500	212,000
Primary refinery	143,000	NA	NA	NA	NA
Secondary refinery:					
Reported by smelters/refineries	1,140,000	574,000 ^r	92,300 ^r	97,800	575,000
Estimated	11,200	5,790 ^r	923 ^r	988	5,450
Recovered from copper-base scrap ^e	15,000	7,500 ^r	1,250	1,250	7,500
Total secondary	1,170,000	587,000 r	94,500	100,000	588,000
Stocks, end of period:	_				
Secondary smelters and consumers	64,700	61,000 r	37,900 r	36,200	36,200
Imports for consumption:	_				
Ore and concentrate	539	249 r	76	38	727
Refined metal	331,000	180,000 r	20,400	23,100	122,000
Consumption:					
Reported	1,470,000	743,000 r	128,000 r	135,000	764,000
Undistributed ^e	45,600	23,000 r	3,690 ^r	3,900	22,800
Total	1,520,000	766,000 r	131,000 r	139,000	787,000
Exports:	_				
Ore and concentrate	298,000	66,400	12,100	25,500	80,000
Bullion	197	153	24	16	88
Wrought and unwrought lead	68,500	38,500	4,300	3,930	25,200
TEL/TML preparations, based on lead compounds	9,520	3,240	51	30	2,500
Exports (gross weight): Scrap	121,000	45,600	9,400	8,480	49,500
Platts Metals Week North American producer					
price (cents per pound)	77.40	75.69	99.60	106.34	95.35
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^eEstimated. ^rRevised. NA Not available.

TABLE 2
MONTHLY AVERAGE LEAD PRICES

North American			Sterling exchange rate			
producer price	LN	LME				
c ents/lb	\$/metric ton	£/metric ton	dollars/£			
75.69	963.34	522.55	1.843536			
86.31	1,724.38	878.51	1.962855			
77.40	1,289.06	651.84	1.977591			
86.71	1,665.34	838.03	1.958719			
87.11	1,778.56	907.92	1.958947			
93.82	1,913.11	982.38	1.947427			
98.53	1,999.78	1,005.98	1.987886			
99.60	2,099.68 ^r	1,058.30	1.984000			
106.34	2,425.20	1,220.70	1.986729			
	producer price cents/lb 75.69 86.31 77.40 86.71 87.11 93.82 98.53 99.60	producer price cents/lb \$/metric ton 75.69 963.34 86.31 1,724.38 77.40 1,289.06 86.71 1,665.34 87.11 1,778.56 93.82 1,913.11 98.53 1,999.78 99.60 2,099.68 f	producer price cents/lb LME / (s/metric ton) £/metric ton 75.69 963.34 522.55 86.31 1,724.38 878.51 77.40 1,289.06 651.84 86.71 1,665.34 838.03 87.11 1,778.56 907.92 93.82 1,913.11 982.38 98.53 1,999.78 1,005.98 99.60 2,099.68 r 1,058.30			

rRevised.

Source: Platts Metals Week.

¹Data are rounded to no more than three significant digits, except prices; may not add to totals shown.

 $\label{eq:table 3} {\sf CONSUMPTION\ OF\ PUR\ CHASED\ LEAD\text{-}BASE\ SCR\ AP}^1$

(Metric tons, gross weight)

	Stocks			Stocks
	May 31,	Net		June 30,
Item	2007	receipts	Consumption	2007
Battery-le ad	27,300	98,800	99,300	26,700
S oft lead	W	W	W	W
Drosses and residues	W	W	W	W
Other ²	1,940	8,220	8,330	1,830
Total	29,200	107,000	108,000	28,600
Percent change from preceding month	XX	-1.2	+1.1	-2.3

W Withheld to avoid disclosing company proprietary data; included with "Other." XX Not applicable.

 $\begin{tabular}{ll} TABLE~4\\ LEAD, TIN, AND ANTIMONY RECOVERED FROM\\ LEAD-BASE~SCRAP~IN~JUNE~2007^I \end{tabular}$

(Metric tons)

	Seco	Secondary metal content					
Product recovered	Lead	Tin	Antimony				
Soft and calcium lead	47,600						
Remelt lead	W						
Antimoniallead	16,700	(2)	(2)				
Other ³	33,500	(2)	(2)				
Total lead-base	97,800	138	303				

W Withheld to avoid disclosing company proprietary data; included in "Other." -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes solder, common babbitt, antimonial lead, cable covering, type metals, and other lead-base scr not elsewhere classified.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

 $^{^2\}mathrm{Withheld}$ to avoid disclosing company proprietary data; included in "Total."

³Includes cable lead, lead-base babbitt, solder, type metals, and other products.

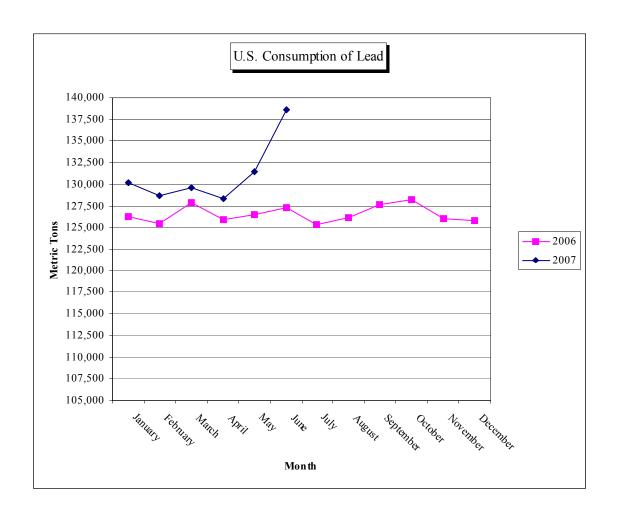
$\label{eq:table 5} \text{Consumption of Lead in the United States}^1$

(Metric tons, lead content)

	20	006		2007		
	January-	January-			January-	
Use	De cember ^p	June	May	June	June	
Metal products:						
Ammunition, shot and bullets	74,300	39,300	6,980	6,590	40,500	
Brass and bronze, billet and ingots	3,110	2,420	418	413	1,900	
Cable covering, power and communication						
and calking lead, building construction	7,940	4,360	629	458	4,060	
Casting metals	19,500	9,760	2,490	2,500	14,900	
She et lead, pipes, traps and other extruded products	30,100	15,000	874	800	5,070	
Solder	8,060	4,130	570	568	3,420	
Storage batteries, including oxides	1,280,000	644,000	112,000 ^r	120,000	672,000	
Terne metal, type metal, and other metal products ²	1,810	886	1,390	1,390	8,320	
Total metal products	1,430,000	720,000	125,000 ^r	132,000	750,000	
Other oxides and miscellaneous	45,300	22,900	2,330	2,340	14,000	
Total reported	1,470,000	743,000	128,000 r	135,000	764,000	
Undistributed ^e	45,600	23,000	3,690 ^r	3,900	22,800	
Grand total	1,520,000	766,000	131,000 ^r	139,000	787,000	

^eEstimated. ^pPreliminary. ^rRevised.

²Includes lead consumed in foil, collapsible tubes, annealing, plating, galvanizing, and fishing weights.



¹Data are rounded to no more than three significant digits; may not add to totals shown.

 $\label{eq:table 6}$ Consumer and secondary smelter stocks, receipts, and consumpt

(Metric tons, lead content)

	Stocks			Stocks
	May 31,	Net		June 30,
Type of material	2007	receipts	Consumption	2007
Soft lead	23,000 ^r	73,100	74,200	21,900
Antimonial lead	8,040 ^r	26,400	26,400	8,030
Lead alloys	W	W	W	W
Copper-base scrap	W	W	W	W
Total	37,900 r	133,000	135,000	36,200

Revised. W Withheld to avoid disclosing company proprietary data; included in "Total."

 $\label{eq:table 7} \text{U.S. EXPORTS OF LEAD, BY CLASS}^1$

(Metric tons)

					2	007	
	2006					January-	January-
_	May	June	Year	May	June	May	June
Lead content:							
Ore and concentrates	19,300	5,360	298,000	12,100	25,500	54,400	80,000
Bullion	23	24	197	24	16	72	88
Materials excluding scrap	7,430	4,590	68,500	4,300	3,930	21,200	25,200
TEL/TML preparations, based							
on lead compounds	1,540	681	9,520	51	30	2,470	2,500
Total	28,300	10,700	376,000	16,500	29,500	78,200	108,000
Gross weight: Scrap	7,990	10,400	121,000	9,400	8,480	41,100	49,500

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

¹Data are rounded to no more than three significant digits.

 ${\it TABLE~8}$ U.S. IMPORTS OF LEAD BY TYPE OF MATERIALS AND BY COUNTRY OF ORIGIN 1

(Metric tons, lead content)

	General imports						Imports for consumption							
		2006							2006			2	2007	
		January-	January-			January-	January-		January-	January-			January-	January-
Country of origin	Year	May	June	May	June	May	June	Year	May	June	May	June	May	June
Base bullion:														
Canada	449		249					449		249				
Other	90			76	38	689	727	90			76	38	689	727
Total	539		249	76	38	689	727	539		249	76	38	689	727
Pigs and bars:														
Australia	9,230	478	478					9,230	478	478				
Canada	222,000	104,000	119,000	17,200	18,800	82,700	102,000	222,000	104,000	119,000	17,200	18,800	82,700	102,000
Mexico	15,800	4,920	6,630	2,700	3,290	10,500	13,800	15,800	4,920	6,630	2,700	3,290	10,500	13,800
Peru	34,600	14,600	16,300	495	988	5,570	6,560	34,600	14,600	1,660	495	988	5,570	6,560
Other	49,800	36,700 ^r	37,500	77	32	257	290	49,800	36,700 ^r	37,500	77	32	257	290
Total	331,000	160,000	180,000	20,400	23,100	99,000	122,000	331,000	160,000	165,000	20,400	23,100	99,000	122,000
Grand total	332,000	160,000	180,000	20,500	23,200	99,700	123,000	332,000	160,000	165,000	20,500	23,200	99,700	123,000

^rRevised. -- Zero.

Source: U.S. Census Bureau.

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¹Data are rounded to no more than three significant digits; may not add to totals shown.