

Mineral Industry Surveys

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LEAD IN OCTOBER 2008

Domestic mine production (recoverable) of lead in October was estimated to be 34,000 metric tons (t), according the U.S. Geological Survey. Average daily mine production in October was 1,100 t, about 3% lower than that in September. Year-to-date mine production through October 2008 was about 3% lower than that of the same period of 2007. Secondary refinery production of lead increased about 9% compared with that of the previous month.

Total imports of lead for consumption through September 2008 were about 26% greater than those in the same period of 2007. The bulk of the increase was in imports of refined metal from Canada and Mexico. Canada (70%), Mexico (19%), and Peru (3%) were the principal sources of imported refined lead. Exports of lead contained in ore and concentrates in September 2008 were about 90% greater than those in the previous month owing to increases in shipments to China and Japan. Total exports of lead, exclusive of scrap, through September 2008 were essentially unchanged from those through September 2007.

According to Platts Metals Week, the average North American producer price for lead in October was \$1.03 per pound, down about 6% from that of the previous month. The London Metal Exchange (LME) cash price in October averaged \$1,479 per metric ton, down nearly 21% from that of the previous month and more than 60% lower than that in October 2007. During October 2008, global LME lead stocks declined by 15,950 t to 48,150 t.

Doe Run Resources Corp. (St. Louis, MO) announced that it had planned to temporarily close one of two blast furnaces at its primary lead smelter in Herculaneum, MO, owing to the decline in lead prices and unfavorable market conditions. Monthly production of primary refined lead at the plant was expected to decrease by about 13% to 10,500 t after the furnace was shut down in early November. The Herculaneum refinery produced about 123,000 t of primary lead in 2007 (American Metal Market, 2008).

In late October, Teck Cominco Ltd. (Vancouver, British Columbia, Canada) announced that adverse weather conditions had forced the company to end the shipping season at its Red Dog zinc-lead mine in northwestern Alaska earlier than expected. The shipping season at Red Dog typically commences in July and is restricted to about 100 days per year owing to arctic weather and sea conditions. Teck ships concentrate from the mine to its Trail metallurgical facilities in British Columbia, as well as to customers in Asia and Europe. As a result of the harsh weather this season, the last vessel left port without a full shipment of concentrate. Approximately 247,000 t of lead concentrates (136,000 t of contained metal) was shipped from Red Dog in 2008, about 2,000 t less than the company had forecast for the year (Teck Cominco Ltd., 2008).

In Canada, Blue Note Mining Inc. (Montreal, Quebec) announced that it would be placing its Caribou and Restigouche zinc-lead mines, located near Bathurst, New Brunswick, on temporary care-and-maintenance status, effective November 28, owing to recent declines in lead and zinc prices. Production at the mines had commenced in July 2007, and full commercial production levels were achieved in January 2008. Blue Note produced 14,500 t of lead concentrates at Caribou and Restigouche during the first 6 months of 2008 and had projected significant production increases for the same period in 2009 before the status change (Blue Note Mining Inc., 2008a, b).

References Cited

American Metal Market, 2008, Doe Run to idle Herculaneum furnace: New York, NY, American Metal Market, October 30. (Accessed October 30, 2008, via http://www.amm.com.)

Blue Note Mining Inc., 2008a, Blue Note Mining reports second quarter results: Montreal, Quebec, Canada, Blue Note Mining Inc. news release, August 14, 2 p.

Blue Note Mining Inc., 2008b, Blue Note to put Caribou and Restigouche on temporary care and maintenance: Montreal, Quebec, Canada, Blue Note Mining Inc. news release, October 17, 1 p.

Teck Cominco Ltd., 2008, Teck announces early end of Red Dog shipping season: Vancouver, British Columbia, Canada, Teck Cominco Ltd. news release, October 29, 1 p.

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

(Metric tons, lead content, unless otherwise specified)

	2007				
	-	January-			January-
	Year	October	September	October	October
Production:					
Mine (recoverable)	434,000	361,000	33,800 ^r	34,000 ^e	350,000 ^e
Secondary refinery:					
Reported by smelters/refineries	1,170,000	976,000	89,600	97,900	974,000
Estimated	11,700	9,760	896	979	11,700
Recovered from copper-base scrap ^e	15,000	12,500	1,250	1,250	12,500
Total secondary	1,200,000	999,000	91,700	100,000	998,000
Stocks, end of period, consumers and secondary smelters	63,100	56,500	52,300	54,900	54,900
Imports for consumption:					
Base bullion	1,990	1,410	405	NA	2,390 ²
Refined metal	264,000	219,000	28,100	NA	238,000 ²
Consumption:					
Reported	1,500,000	1,280,000	129,000	128,000	1,310,000
Undistributed ^e	45,100	38,500	5,150 °	3,850	37,900
Total	1,550,000	1,320,000	134,000 ^r	132,000	1,350,000
Exports:					
Ore and concentrate	300,000	256,000	60,100	NA	202,000 2
Bullion	170	132	6	NA	560 ²
Wrought and unwrought lead	56,400	44,500	6,230	NA	52,300 ²
TEL/TML preparations, based on lead compounds	2,740	2,610	240	NA	1,910 2
Exports (gross weight), scrap	129,000	99,000	14,900	NA	136,000 ²
Platts Metals Week North American producer					
price (cents per pound)	123.84	116.20	108.66	102.54	127.74

^eEstimated. ^rRevised. NA Not available.

TABLE 2 MONTHLY AVERAGE LEAD PRICES

	North American producer price	LI	Sterling exchange rate	
	cents/lb	\$/metric ton	£/metric ton	dollars/£
2007:				
October	163.18	3,718.51	1,818.38	2.044955
December	160.63	2,595.28	1,287.31	2.016050
Year	123.84	2,579.02	1,288.41	2.001715
2008:				
January	150.03	2,606.85	1,323.11	1.970238
February	146.88	3,078.82	1,567.15	1.964600
March	146.60	3,007.29	1,502.54	2.001467
April	145.91	2,821.68	1,423.96	1.981568
May	143.74	2,234.06	1,136.94	1.964976
June	115.21	1,862.33	947.05	1.966448
July	109.02	1,944.16	977.54	1.988827
August	108.84	1,922.60	1,019.13	1.886514
September	108.66	1,867.68	1,039.16	1.797305
October	102.54	1,478.94	876.59	1.687155

Source: Platts Metals Week.

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

²Includes data for January-September only; October data were not available at time of publication.

TABLE 3 CONSUMPTION OF PURCHASED LEAD-BASE ${\rm SCRAP}^1$

(Metric tons, gross weight)

	Stocks			Stocks
	September 30,	Net		October 31,
Item	2008	receipts	Consumption	2008
Battery-lead	26,100	103,000	104,000	24,900
Soft lead	W	W	W	W
Drosses and residues	W	W	W	W
Other ²	2,530	8,090	8,170	2,450
Total	28,600	111,000	113,000	27,400
Percent change from preceding month	XX	+0.4	+6.1	-4.3

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

TABLE 4 LEAD, TIN, AND ANTIMONY RECOVERED FROM LEAD-BASE SCRAP IN OCTOBER 20081

(Metric tons)

	Secondary metal content					
Product recovered	Lead	Tin	Antimony			
Soft and calcium lead	55,300					
Remelt lead	W					
Antimonial lead	10,400	(2)	(2)			
Other ³	32,200	(2)	(2)			
Total lead-base	97,900	140	293			

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

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 scrap.

⁻⁻ Zero.

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

²Withheld to avoid disclosing company proprietary data; included in "Total."

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

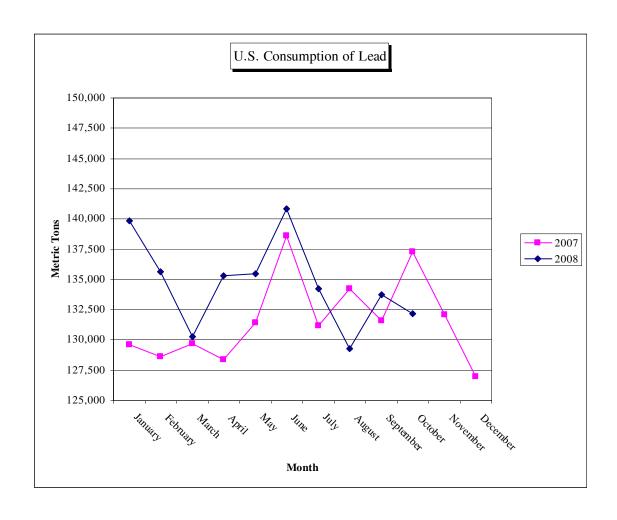
${\bf TABLE~5}$ ${\bf CONSUMPTION~OF~LEAD~IN~THE~UNITED~STATES}^1$

(Metric tons, lead content)

	200	07		2008	
		January-		January-	
Use	Year	October	September	October	October
Metal products:					
Ammunition, shot and bullets	75,400	64,900	6,860	6,820	64,900
Brass and bronze, billet and ingots	3,190	3,470	323	323	3,260
Cable covering, power and communication					
and calking lead, building construction	8,020	5,810	466	443	6,520
Casting metals	29,900	24,900	2,640	2,640	26,400
Sheet lead, pipes, traps and other extruded products	29,700	7,830	2,480	2,240	23,500
Solder	7,000	5,690	588	587	5,870
Storage batteries, including oxides	1,300,000	1,130,000	112,000	112,000	1,150,000
Terne metal, type metal, and other metal products ²	16,700	13,900	1,400	1,400	14,600
Total metal products	1,470,000	1,260,000	127,000	126,000	1,290,000
Other oxides and miscellaneous	28,000	23,300	1,960	1,960	18,800
Total reported	1,500,000	1,280,000	129,000	128,000	1,310,000
Undistributed ^e	45,100	38,500	5,150 ^r	3,850	37,900
Grand total	1,550,000	1,320,000	134,000 ^r	132,000	1,350,000

^eEstimated. ^rRevised.

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



 $^{^{1}\}mathrm{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

 ${\it TABLE~6}$ Consumer and secondary smelter stocks, receipts, and consumption of lead $^{\rm l}$

(Metric tons, lead content)

	Stocks			Stocks
	September 30,	Net		October 31,
Type of material	2008	receipts	Consumption	2008
Soft lead	29,500	70,400	70,100	29,800
Antimonial lead	13,800	27,100	24,900	16,000
Lead alloys	W	W	W	W
Copper-base scrap	W	W	W	W
Total	52,300	131,000	128,000	54,900

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)

				2008			
	200)7			January-		
	September	Year	August	August September			
Lead content:							
Ore and concentrates	38,200	300,000	31,600	60,100	202,000		
Bullion	26	170	49	6	560		
Materials excluding scrap	5,720	56,400	6,760	6,230	52,300		
TEL/TML preparations, based							
on lead compounds	56	2,740	154	240	1,910		
Total	44,000	359,000	38,500	66,600	257,000		
Gross weight: Scrap	11,500	129,000	13,300	14,900	136,000		

¹Data are rounded to 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.

 ${\bf TABLE~8}$ U.S. IMPORTS OF LEAD BY TYPE OF MATERIALS AND BY COUNTRY OF ORIGIN $^{\rm l}$

(Metric tons, lead content)

•		C	eneral impo	rts			Impo	rts for consu	mption	
	2	007		2008		2	007		2008	
		January-			January-		January-			January-
Country of origin	Year	September	August	September	September	Year	September	August	September	September
Ore, matte, etc.:										
Canada					41					41
Mexico				98	451				98	451
Total				98	492				98	492
Base bullion:										
Colombia	1,860					1,860				
Mexico			60	346	1,690			60	346	1,690
Other	127	1,260		58	694	127	1,260		58	694
Total	1,990	1,260	60	405	2,390	1,990	1,260	60	405	2,390
Pigs and bars:										
Canada	208,000	154,000	15,600	18,700	168,000	208,000	154,000	15,600	18,700	168,000
Mexico	35,600	22,100	3,840	5,330	44,300	35,600	22,100	3,840	5,330	44,300
Peru	16,500	13,500	1,020	873	7,970	16,500	13,500	1,020	873	7,970
Other	3,860	602	2,430	3,230	18,200	3,860	602	2,430	3,230	18,200
Total	264,000	190,000	22,900	28,100	238,000	264,000	190,000	22,900	28,100	238,000
Grand total	266,000	192,000	23,000	28,600	241,000	266,000	192,000	23,000	28,600	241,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

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