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DOMINION BUREAU OF STATISTICS - CANADA Dominion Statistician: R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.

Mining, Metallurgical and Chemical Brauch Chief: S. J. Cook, B.A., A.I.C., F.C.I.C.

THE SILVER MINING INDUSTRY IN CANADA, 1928,

(a) The Silver-Cobalt Mining Industry,

(b) The Silver-Lead-Zinc Mining Industry.

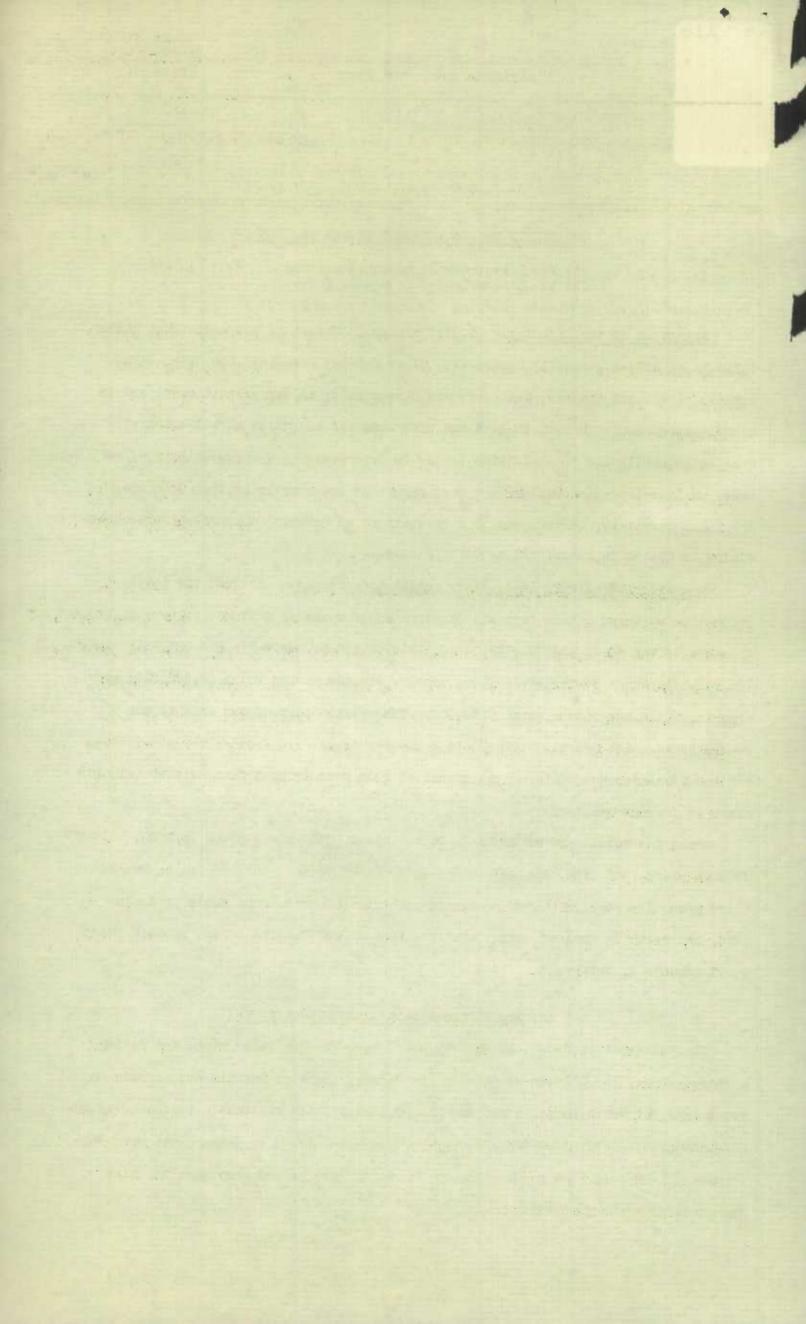
Definition of the Industry.- Silver mining in Canada is not a distinct mining industry as silver generally occurs with other metals; with lead and zinc, with cobalt, nickel and arsenic; with lode and placer gold; in copper-gold ores, and in nickel-copper ores. Silver in lead and zinc ores and in cobalt nickel-arsenic ores is generally the predominating factor in determining the marketability of such ores. Silver-lead-zinc mining is a very important industry in British Columbia, the Yukon Territory, Quebec, and to a less extent in Ontario, whereas silver-cobalt mining in Canada is restricted to Ontario only.

Production of silver, lead, zinc, cobalt and arsenic.- In 1928 the total production of these metals from all Canadian sources was as follows: silver, 21,936,407 fine ounces valued at \$12,761,725; lead, 337,946,668 pounds worth \$15,553,231; zinc, 184,647,374 pounds worth \$10,143,050; cobalt, 956,590 younds worth \$1,672,320; and arsenic, 5,432,223 pounds worth \$193,050. The greater part of the arsenic was recovered as white arsenic at the Deloro smelter in Ontario from silver-cobalt ores and the remainder was contained in arsenical gold ores shipped from British Columbia mines to foreign smelters.

Among the metals and minerals in Canada, lead hold sixth place in 1928, silver seventh place, and zinc, eleventh place in point of value. In 1928 Canada ranked third among the world's silver producing countries; fourth among those producing lead, and sixth in smelter output of zinc. Canada and Central Africa produce about equal amounts of cobalt.

(a) The Silver-Cobalt Mining Industry

The principal producers in this industry were the Miplssing mine, the Mining Corporation and the O'Brien at Cobalt: the Keeley, Frontier-Lorrain and Lorrain Trout Lake, at South Lorraid: and the Miller Lake O'Brien and Castle Tretheway in the Gowganda area. Several of the elder properties were worked by leasers who were able to mine silver ore, at a profit, from veins which were passed over when the mine was on large scale production.



The Mipissing Mining Company was the only company in this group producing silver bullion in 1928. Other mines in the district shipped ove to the mill of the Cobalt Reduction Company, to the Deloro smelter and to smelters in roreign countries.

During 1928 this group of mines produced 260,644 tons of ore and milled 252,670 tons to produce 4,649 tons of concentrates; ore cyanided amounted to 63,592 tons and silver bullion production reached 1,886,958 fine ounces.

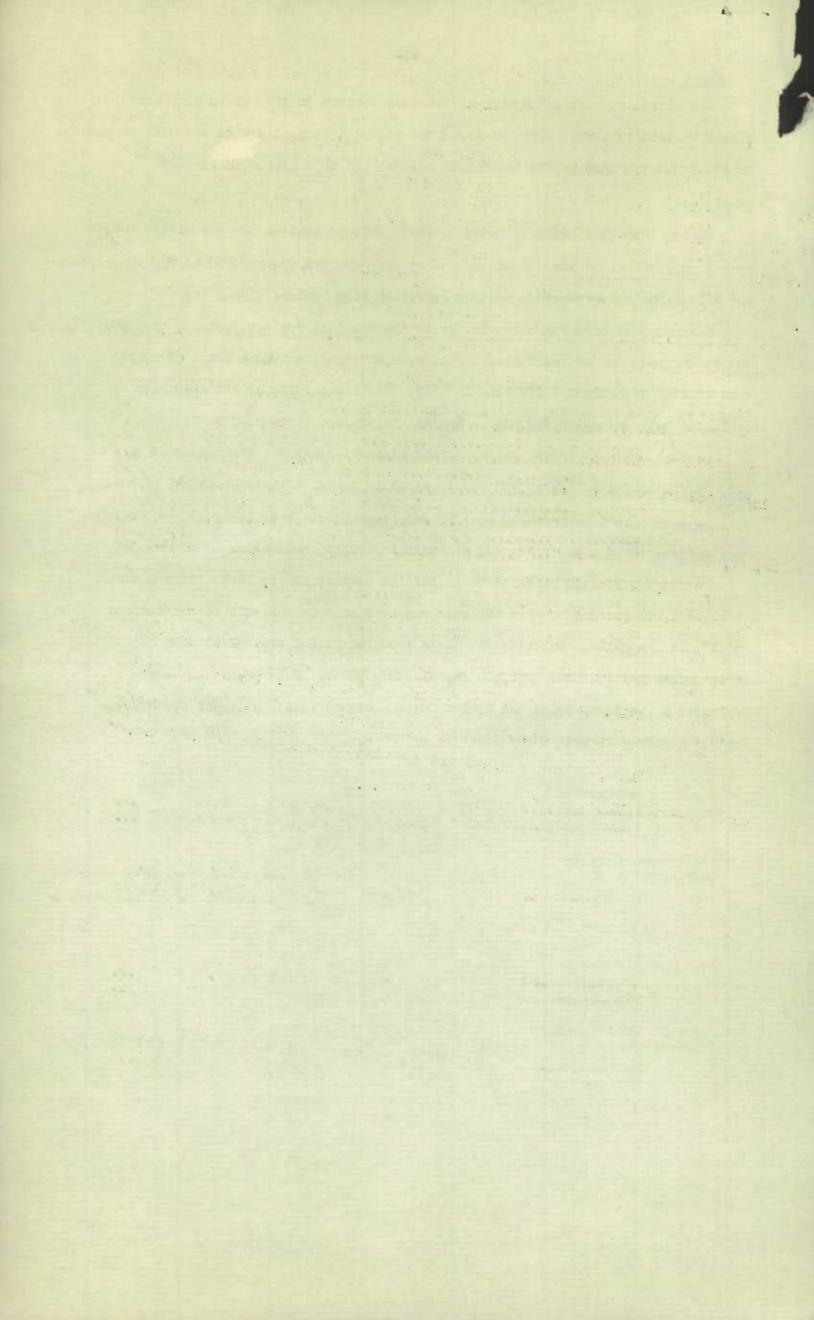
Shipments of ores and concentrates to the Canadian smelter amounted to 3,300 and to European and United States smelters, 2,825 tons, making a total of 6,125 tons in 1928 as against 6,507 tons in 1927. The total value of all shipments including bullion was \$3,938,884 as against \$4,760,546 in 1927.

Capital employed in the silver-cobalt mining industry in 1928 amounted to \$22,027,683 of which \$16,765,120 was invested in lands, buildings, plant, machinery and tools, \$930,891 represented cost of supplies and stock on hand, and \$4,331,672 was in cash, trading and operating accounts and bills receivable.

Salaried officials numbered 94 in 1928 as against 109 in 1927. Wage-éarners averaged 1,072 persons of whom 692 were employed underground, 210 on the surface and 170 in the mills. Salaries and wages totalled \$1,809,466. Fuel cost \$430,683 at the mines and included \$282,405 for electric power. Power equipment employed, exclusive of boilers, consisted of 159 units having a total rating of 6,368 h.p. Boilers numbered 13 with a total rating of 980 h.p.

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	Number of active	Number of operating	Capital	Number of	Salaries		bullion, ore, concentrates
Year	operators	mines	employed	employees	and	elec-	and residues
					wages	tricity	sold
			Ş		and and a second	Ş	Ş
1924	26	34	41,013,466	1,769	2,534,304	468,651	6,594,032
1925	33	38	44,045,619	1,788	2,576,414	498,874	6,611,644
1926	33	37	40,504,721	1,779	2,815,930	518,907	5,470,435
1927	23	26	30,123,645	1,458	2,178,163	472,548	4,760,546
1928	15	19	22,027,683	1,166	1,809,466	430,683	3,938,884

STATISTICS OF SILVER-COBALT MINES AND MILL OPERATIONS IN CAMPDA, 1927 and 1928.

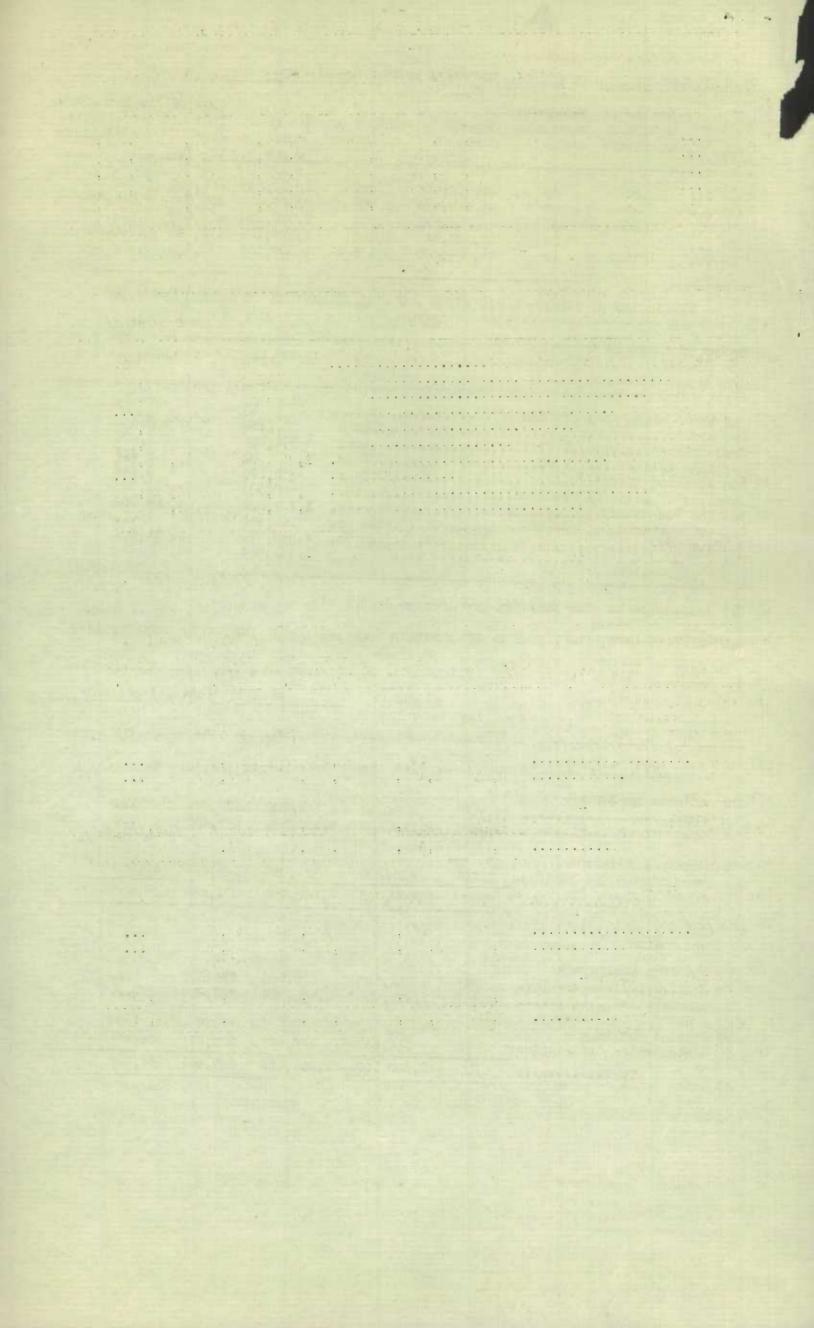
		1927	1928
Number of mines in operation (x). Ore mined. Ores treated. Tailings treated. Concentrates produced. Quantity of material cyanided. Bullion recovered by direct smelting. Silver recovered by direct smelting. Met value of bullion.	tons tons tons tons tons ine oz ine oz	26 303,154 304,534 21 5,533 78,338 1,927,529 126,462 2,040,070 1,151,544	19 260,644 252,670 4,649 63,592 1,886,958 1,615,661 1,055,485

(x) All plants of this industry are located in Ontario.

SHIPMENTS OF ORES, CONCENTRATES AND RESIDUES FROM THE COBALT DISTRICT, ONTARIO, 1927 and 1928.

		Quantity tons	Net (x) Value \$	Meta Silver fine oz.	allic conte Cobalt 1b.	ent paid for Copper 1b.
	1927					
To	Canadian smelters - Ores Concentrates	677 3,116	976,040 2,199,456	1,749,680 4,123,078	133,947 295,463	
То	Foreign smelters - Concentrates and residue TOTAL	partition operation in the local distance of the	433,506 3 ,609, 002	713,010 6,585,768	141,875 571,285	40,860 40,860
	1928					
То	Canadian smelters - Ores Concentrates		544,693 1,894,038	926,596 3,486,949	274,803 208,826	
To	Foreign smelters - Concentrates and residue TOTAL		444,668 2,883,399	676,907 5,090,452	203,772 687,401	44,475 44,475

(x) Net value means the actual amount received by the operator.



(b) The Silver-Lead-Zine Mining Industry

Silver-lead-zinc ores are found in commercial quantities in the provinces of Quebec, Ontario, British Columbia and the Yukon Territory. In 1928 ores from the Tetreault mine in Quebec were concentrated and exported for treatment in Belgian and United States smelters. Galena ore from Galetta, Ontario, was concentrated and smelted at the mine and high-grade ores and concentrates were exported to the United States smelters from the Mayo district of the Yukon.

In British ^Columbia where the greater part of this industry is carried on, the Trail smelter handled all concentrates from the Sullivan mine as well as from other mines within reasonable shipping distance. In addition to the smelter a customs concentrator was also operated which was of much assistance to small producers.

Among the Canadian provinces, British Columbia was the leading producer of silver, lead and zinc. In this province, 50 per cent of Canada's silver, 94 per cent of the lead and 89 per cent of the zinc, were produced. The Sullivan mine noted the world over for its output of lead and zinc, is the largest individual silver producing mine in Canada.

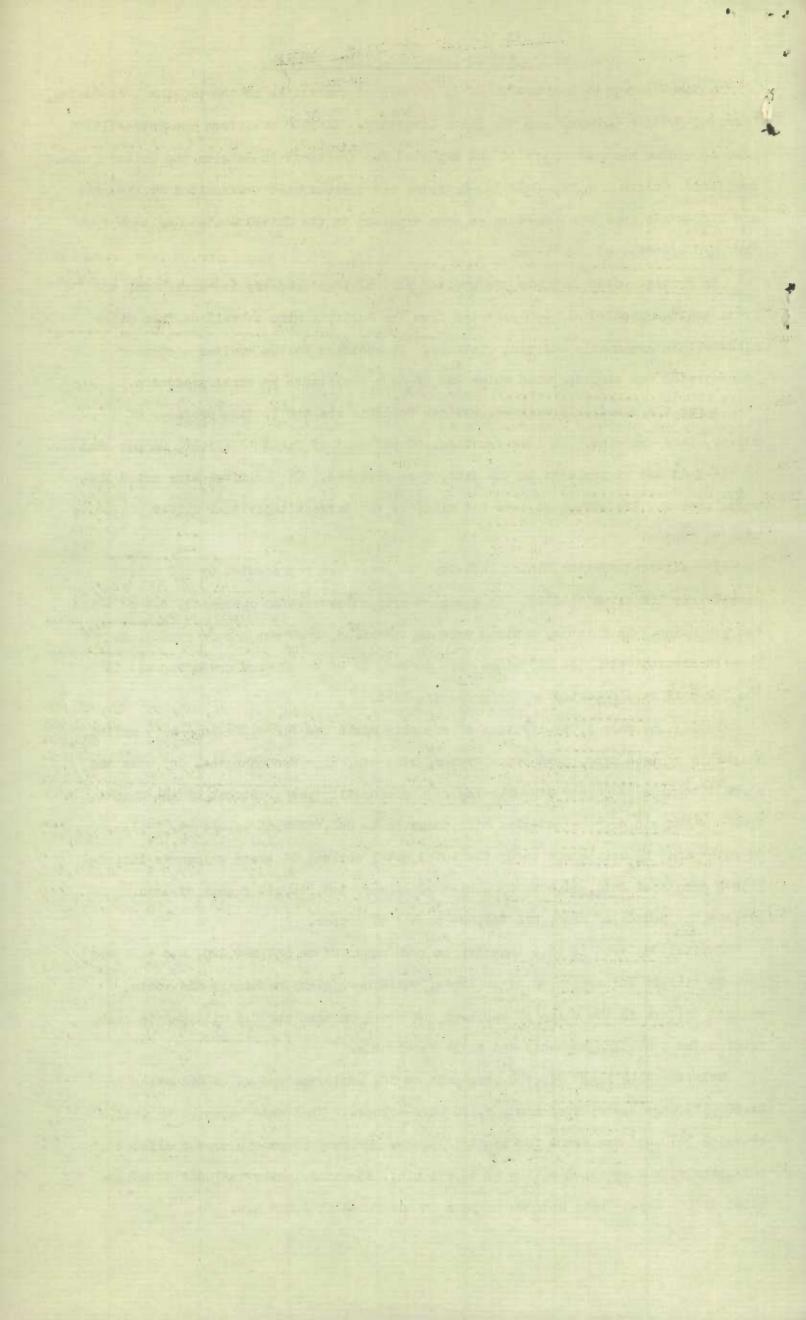
The silver-lead-zinc mining industry in Canada was represented by 150 mines operated by 132 firms in 1928. In Quebec 7 properties were in operation, one of which was producing. In Ontario, 6 mines were in operation, 2 of which were producing.

In British Columbia, 123 mines were worked, 86 of which were producing and in the Yukon 12 were reported on the producing list.

During the year 2,097,179 tons of ore were mined and 2,209,034 tons were milled. Shipments of lead ores, lead concentrates, zinc ore, zinc concentrates, dry ores and a small tonnage of copper concentrates why produced in the treatment of the ores from one Ontario copper-lead-zinc mine amounted to 586,221 tons valued at \$17,123,455. As determined by settlement assay the total metal content of these shipments included 11,873 ounces of gold, 11,672,283 ounces of silver, 348,245,816 pounds of lead, 273,306,757 pounds of zinc, and 264,894 pounds of copper.

Capital employed in this industry in 1928 amounted to \$38,894,892, and included over 34 million dollars invested in lands, buildings, plant machinery and tools, 2 million dollars in the value of supplies and stock on hand and 2.2 millions in cash, trading and operating accounts and bills receivable.

Salaries totalling §646,460 were paid to 302 employees and wages amounting to \$4,885,174 were distributed among 3,378 wage-earners. Fuel used amounted to \$671,564 of which \$310,932 was spent for electric power. Primary power employed consisted of 602 units with a combined rating of 32,671 h.p. Secondary power included 37 motors rated at 694 h.p. There were 28 boilers in use rated at 4,088 h.p.



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PRINCIPAL STATISTICS (LVER-LEAD-Z		INDUSTRY I		
	umber of					let value
	perating	Capital	No.of	Salaries		f ores and
	lants	employed	employ-	and		oncentrates
operators pi	r mines	en en	ees	wages	tricity s	old Č
1924 82	94	ş 12,328,511	1,936	2,943,635		6,600,970
L925 89		15,735,930	2,538	3,867,613		21,902,686
1926 108		22,699,417	2,924	4,431,730		26,190,034
1927 157		28,036,330	3,106	4,807,817		7,520,130
1928 150		38,894,892	3,680	5,531,634		7,123,455
ה היהד דדות מהוא מנותרית ובירו		THE TEST 7	INC MINING			007 pm2 1000
DRE MINED AND MILLED I	IN THE DI		ntario	THDOSTRE L	IN URINALDRY LE	A F CHU LADO
Production			and	British	Yukon	CANADA
		(Quebec	Columbia		
1927						
				7 800 877		3 505 000
Ore mined			07,771	1,390,311	65,578	1,763,660
Dre milled			29,324	1,520,677	64,100	1,914,101
Concentrates produced			11,721	192,626	5,491	209,838
1000	zinc	•• tons	21,844	180,989	•••	202,833
1928		4	0.000	1 1000 1000	10.000	0-005-1250
re mined			20,230	1,729,883	47,066	2,097,179
re milled			24,290	1,840,252	44,492	2,209,034
oncentrates produced			11,304	210,461	4,876	226,641
			27,933	213,856		241,789
	copper	tons	716			716
DESTINATION OF SHIP Product shipped	PMENTS FR Tons shipped	Net value at shipping	e Tot Gold	tal metal co settl Silver	ntent as det ement assay Lead	termined by Zinc
	Tons	Net value at shipping	e Tot Gold	tal metal co settl Silver	ntent as det ement assay	termined by Zinc
Product shipped	Tons shipped	Net value at shipping	e Tot Gold	tal metal co settl Silver	ntent as det ement assay Lead	termined by Zinc
Product shipped 1927 To Canadian smelters -	Tons shipped	Net value at shipping point	Gold fine or	tal metal cc <u>settl</u> Silver z. fine oz.	ntent as det ement assay Lead 1b.	Zinc Lb.
Product shipped <u>1927</u> To Canadian smelters - Lead ore	Tons shipped	Net value at shipping point 1,513,80	Gold <u>Gold</u> <u>fine oz</u> 4 6,362	tal metal cc <u>settl</u> Silver z. fine oz. 1,398,643	ntent as det ement assay Lead lb. 25,352,408	Zinc lb. 10,581,2
Product shipped <u>1927</u> To Canadian smelters Lead ore	Tons shipped . 66,639 .195,255	Net value at shipping point 1,513,80 9,728,89	Gold fine or 6,362 7 1,007	tal metal cc settl Silver z. fine oz. 1,398,643 4,979,854	25,352,408 270,377,177	Zinc 1b. 3 10,581,2 4 18,140,04
Product shipped <u>1927</u> To Canadian smelters Lead ore	Tons shipped . 66,639 .195,255 . 1,861	Net value at shipping point 1,513,80 9,728,89 48,36	Gold fine oz 4 6,362 7 1,007 7 140	tal metal cc settl Silver z. fine oz. 1,398,643 4,979,854 93,534	25,352,408 270,377,177 196,099	Zinc lb. 3 10,581,23 7 18,140,04 9 495,80
Product shipped <u>1927</u> O Canadian smelters - Lead ore Lead concentrates Zinc ore Zinc concentrates	Tons shipped . 66,639 .195,255 . 1,861 .178,713	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18	Gold fine oz 4 6,362 7 1,007 7 140 7 382	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765	25,352,408 270,377,177 196,099 11,290,986	Zinc lb. 3 10,581,23 4 18,140,04 9 495,86 5 171,865,10
roduct shipped <u>1927</u> o Canadian smelters - Lead ore	Tons shipped . 66,639 .195,255 . 1,861 .178,713 . 10,623	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24	Gold fine oz 4 6,362 7 1,007 7 140 7 382 8 1,100	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,986 321,543	Zinc lb. 3 10,581,2 4 18,140,0 4 495,8 5 171,865,1 5 473,0
Product shipped <u>1927</u> To Canadian smelters Lead ore Lead concentrates Zinc ore Zinc concentrates Dry ore Total	Tons shipped . 66,639 .195,255 . 1,861 .178,713 . 10,623 .453,091	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24	Gold fine oz 4 6,362 7 1,007 7 140 7 382 8 1,100	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765	25,352,408 270,377,177 196,099 11,290,986	Zinc lb. 3 10,581,2 4 18,140,0 4 495,8 5 171,865,1 5 473,0
roduct shipped <u>1927</u> o Canadian smelters Lead ore Lead concentrates Zinc ore Dry ore Total o Foreign smelters -	Tons shipped . 66,639 .195,255 . 1,861 .178,713 .10,623 .453,091	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50	Gold fine oz 4 6,362 7 1,007 7 140 7 382 8 1,100 3 8,991	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284	ntent as det enent assay Lead lb. 25,352,408 270,377,177 196,099 11,290,986 321,543 307,538,213	Zinc lb. 3 10,581,2 4 18,140,0 4 495,8 5 171,865,1 5 473,0 5 201,555,2
Product shipped <u>1927</u> O Canadian smelters - Lead ore Lead concentrates Zinc ore Dry ore Total O Foreign smelters - Load ore	Tons shipped . 66,639 .195,255 .1,861 .178,713 .10,623 .453,091 .1,455	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13	Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619	ntent as det enent assay Lead lb. 25,352,406 270,377,177 196,099 11,290,986 321,543 307,538,213 1,694,881	Zinc lb. 3 10,581,2 4 18,140,0 495,8 5 171,865,1 5 473,0 5 201,555,2
Product shipped <u>1927</u> to Canadian smelters - Lead ore Lead concentrates Zinc ore Dry ore Total to Foreign smelters - Load ore Lead concentrates	Tons shipped . 66,639 .195,255 . 1,861 .178,713 .10,623 .453,091 . 1,455 . 11,979	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68	e Tot Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,986 321,542 307,538,213 1,694,881 11,479,154	Zinc lb. 2 10,581,22 18,140,04 495,84 2 171,865,1 3 473,0 3 201,555,2 4 958,3
roduct shipped <u>1927</u> o Canadian smelters - Lead ore Lead concentrates Zinc ore Zinc concentrates Dry ore Total o Foreign smelters - Load ore Lead concentrates Zinc ore	Tons shipped . 66,639 .195,255 . 1,861 .178,713 .10,623 .453,091 . 1,455 .11,979	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68	e Tot Gold fine oz 4 6,362 7 1,007 7 140 7 382 8 1,100 3 8,991 1 26 2 10,704	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,986 321,542 307,538,213 1,694,881 11,479,154	Zinc lb. 3 10,581,2 495,8 3 171,865,1 5 473,0 5 201,555,2 4 958,3
roduct shipped <u>1927</u> o Canadian smelters - Lead ore Lead concentrates Zinc ore Zinc concentrates Dry ore Total o Foreign smelters - Load ore Lead concentrates	Tons shipped . 66,639 .195,255 .1,861 .178,713 .10,623 .453,091 .1,455 .11,979 .24,249	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03	 Fold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704 2 2,788 	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,986 321,542 307,538,213 1,694,881 11,479,154	Zinc lb. 2 10,581,2 18,140,0 495,8 171,865,1 473,0 2 201,555,2 958,3 23,849,4
roduct shipped <u>1927</u> o Canadian smelters Lead ore Lead concentrates Zinc ore Zinc concentrates Dry ore Total Lead concentrates Zinc ore Lead concentrates Zinc concentrates Dry ore Total	Tons shipped . 66,639 .195,255 .1,861 .178,713 .10,623 .453,091 .1,455 .11,979 .24,249 .72	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78	 Fold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704 2 2,788 	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,986 321,543 307,538,213 1,694,883 11,479,154 305,703	Zinc lb. 2 10,581,2 18,140,0 495,8 171,865,1 473,0 2 201,555,2 958,3 23,849,4
Product shipped <u>1927</u> To Canadian smelters - Lead ore Lead concentrates Zinc concentrates Dry ore Total to Foreign smelters - Load ore Lead concentrates Zinc concentrates Zinc concentrates Dry ore Total Dry ore Total	Tons shipped 66,639 195,255 1,861 178,713 10,623 453,091 1,455 11,979 24,249 72 37,755	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78	 Fold Gold fine oz fin	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,986 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863	Zinc lb. 2 10,581,2 18,140,0 495,8 171,865,1 3 473,0 3 201,555,2 958,3 23,849,4
Product shipped <u>1927</u> To Canadian smelters - Lead ore	Tons shipped . 66,639 .195,255 .1,861 .178,713 .10,623 .453,091 .1,455 .11,979 .24,249 .72 .37,755	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62	e Tot Gold fine oz 4 6,362 7 1,007 7 140 7 382 8 1,100 3 8,991 1 26 2 10,704 2 2,788 2 1 7 13,519	tal metal cc sett1 Silver 2. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389	ntent as det ement assay Lead lb. 25,352,408 270,377,177 196,099 11,290,986 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599	Zinc lb. 2 10,581,22 18,140,04 495,80 171,865,1 473,0 201,555,2 958,5 23,849,4 24,807,7
roduct shipped <u>1927</u> o Canadian smelters - Lead ore	Tons shipped . 66,639 .195,255 .1,861 .178,713 .10,623 .453,091 .1,455 .11,979 .24,249 .72 .37,755	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62	 Tot Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 8,991 1 26 2 10,704 2 2,788 2 1 7 13,519 7 1,477 	tal metal cc sett1 Silver 2. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,988 321,542 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599	Zinc lb. 2 10,581,2 18,140,0 495,8 171,865,1 473,0 201,555,2 958,5 23,849,4 24,807,7 24,807,7
roduct shipped <u>1927</u> o Canadian smelters - Lead ore	Tons shipped . 66,639 195,255 1,861 .178,713 10,623 .453,091 1,455 .11,979 .24,249 .72 .37,755 .26,975 .215,431	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704 2 2,788 2 1 7 13,519 7 1,477 5 1,252	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,988 321,543 307,538,213 1,694,883 11,479,154 305,703 74,863 13,554,599 13,317,453 294,948,527	Zinc lb. 2 10,581,2 18,140,0 495,8 171,865,1 473,0 201,555,2 958,3 23,849,4 23,849,4 24,807,7 24,807,7 19,734,8
roduct shipped <u>1927</u> o Canadian smelters Lead ore Lead concentrates Zinc ore Zinc concentrates Dry ore Total to Foreign smelters - Lead concentrates Zinc ore Lead concentrates Dry ore Total Lead concentrates Dry ore Total Lead ore Lead ore Lead ore Lead ore Lead ore Lead ore	Tons shipped . 66,639 195,255 1,861 178,713 10,623 .453,091 1,455 11,979 24,249 .72 .37,755 .26,975 .215,431 .70,291	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 1,704 2 2,788 2 1 7 13,519 7 1,477 5 1,252 3 7	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,986 321,543 307,538,213 1,694,883 11,479,154 305,703 74,863 13,554,599 13,317,453 294,948,527 10,867,555	Zinc lb. Zinc lb. 2 10,581,23 18,140,04 495,84 171,865,1 473,0 2 201,555,2 958,3 23,849,4 23,849,4 24,807,7 19,734,8 17,740,7
roduct shipped <u>1927</u> • Canadian smelters Lead ore	Tons shipped . 66,639 .195,255 .1,661 .178,713 .10,623 .453,091 .1,455 .11,979 .24,249 .72 .37,755 .26,975 .215,431 .70,291 .214,735	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 1,788 2 1,704 2 2,788 2 1 7 1,3,519 7 1,477 5 1,252 3 7 3 400	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239	ntent as det ement assay Lead 1b 25,352,406 270,377,177 196,096 321,543 307,538,213 1,694,883 11,479,154 305,703 74,863 13,554,599 13,317,453 294,948,527 10,867,555 14,434,944	Zinc Ib. Zinc Ib. 3 10,581,2: 18,140,00 495,80 171,865,1 473,0 3 201,555,2 473,0 3 201,555,2 473,0 5 2,379,3 19,734,8 5 17,740,7 4 207,612,3 5 200,612,5 5 200,7 5
roduct shipped <u>1927</u> O Canadian smelters - Lead ore	Tons shipped . 66,639 .195,255 .1,861 .178,713 .10,623 .453,091 .1,455 .11,979 .24,249 .72 .37,755 .24,249 .72 .37,755 .215,431 .70,291 .214,735 .19,009	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55	F Tot Gold fine oz 4 6,362 1,007 7 1,007 140 7 1,007 382 3 1,100 3 3 6,991 26 1 26 10,704 2 2,788 1 7 13,519 1 7 1,477 1,252 3 7 3 3 400 1,111	tal metal cc sett1 Silver z. fige oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239 301,793	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,098 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599 13,317,453 294,948,527 10,867,555 14,434,944 64,392	Zinc lb. Zinc lb. 2 10,581,2: 18,140,04 495,80 171,865,1 473,00 2 201,555,2 958,3 2 23,849,44 5 2 23,849,44 5 2 23,849,44 5 2 23,849,44 5 2 23,849,44 5 2 2,379,33 19,734,86 17,740,74 207,612,3
Product shipped <u>1927</u> to Canadian smelters Lead ore	Tons shipped . 66,639 .195,255 .1,861 .178,713 .10,623 .453,091 .1,455 .11,979 .24,249 .72 .37,755 .26,975 .215,431 .70,291 .214,735 .19,009 .546,441	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55	F Tot Gold fine oz 4 6,362 1,007 7 1,007 140 7 1,007 382 3 1,100 3 3 6,991 26 1 26 10,704 2 2,788 1 7 13,519 1 7 1,477 1,252 3 7 3 3 400 1,111	tal metal cc sett1 Silver 2. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239 301,793	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,098 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599 13,317,453 294,948,527 10,867,555 14,434,944 64,392	Zinc 1b. 2 10,581,2: 18,140,04 495,86 171,865,1 473,0 201,555,2 23,849,4 5 23,849,4 5 24,807,7 19,734,8 17,740,7 207,612,3 2
roduct shipped <u>1927</u> o Canadian smelters - Lead ore	Tons shipped . 66,639 .195,255 . 1,861 .178,713 .10,623 .453,091 . 1,455 . 11,979 .24,249 .72 .37,755 .24,249 .72 .37,755 .25,431 .70,291 .214,735 .19,009 .546,441	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55 14,018,68	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704 2 2,788 2 1 7 1,477 5 1,252 3 7 3 400 4 1,111 7 4,247	tal metal cc sett1 Silver Z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239 301,793 7,968,383	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,988 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599 13,317,453 294,948,527 10,867,555 14,434,944 64,392 333,632,871	Zinc 1b. 2 10,581,22 18,140,0 495,8 171,865,1 473,0 201,555,2 958,3 23,849,4 23,849,4 24,807,7 2,379,3 19,734,8 17,740,7 207,612,3 247,467,4
roduct shipped <u>1927</u> o Canadian smelters - Lead ore	Tons shipped . 66,639 .195,255 . 1,861 .178,713 .10,623 .453,091 . 1,455 . 11,979 .24,249 .72 .37,755 .25,431 .70,291 .214,735 .19,009 .546,441 .3,069	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55 14,018,68	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704 2 2,788 2 1 7 1,252 3 7 3 400 4 1,111 7 4,247 6 197	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239 301,793 7,968,383	ntent as det ement assay Lead lb. 25,352,408 270,377,177 196,099 11,290,988 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,317,453 294,948,527 10,867,555 14,434,944 64,392 333,632,871 3,281,648	Zinc 1b. Zinc 1b. 3 10,581,23 495,84 9495,84 171,865,1 473,0 201,555,2 958,34 23,849,4 3 24,807,7 3 2,379,3 19,734,8 17,740,74 207,612,3 247,467,4 3
Product shipped <u>1927</u> to Canadian smelters - Lead ore	Tons shipped . 66,639 .195,255 . 1,861 .178,713 .10,623 .453,091 . 1,455 . 11,979 .24,249 .72 .37,755 .24,249 .72 .37,755 .25,431 .70,291 .214,735 .19,009 .546,441 .3,069 .10,469	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55 14,018,68 554,43 1,633,72	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704 2 2,788 2 1 7 1,252 3 7 3 400 4 1,111 7 4,247 6 197 1 4,990	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239 301,793 7,968,383	ntent as det ement assay Lead 1b. 25,352,408 270,377,177 196,099 11,290,988 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599 13,554,599 13,317,453 294,948,527 10,867,558 14,434,944 64,399 333,632,871 3,281,648	Zinc 1b. Zinc 1b. 2 10,581,23 18,140,04 495,86 171,865,1 473,0 201,555,2 958,3 23,849,4 23,849,4 24,807,7 24,807,7 24,807,7 207,612,3 247,467,4 3715,8
Product shipped <u>1927</u> To Canadian smelters - Lead ore	Tons shipped . 66,639 195,255 1,861 178,713 10,623 .453,091 1,455 11,979 24,249 72 37,755 26,975 215,431 70,291 214,735 19,009 546,441 .3,069 10,469 25,229	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55 14,018,68 554,43 1,633,72 836,04	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 1,788 2 1,3519 7 1,477 5 1,252 3 7 3 400 4 1,111 7 4,247 6 197 1 2,317	tal metal cc sett1 Silver Z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239 301,793 7,968,383 946,494 2,467,205 155,331	ntent as det ement assay Lead lb. 25,352,408 270,377,177 196,099 11,290,986 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599 13,317,453 294,948,527 10,867,555 14,434,944 64,392 333,632,871 3,281,646 10,692,233 201,510	Zinc 1b. Zinc 1b. 2 10,581,22 18,140,04 495,84 211,865,1 473,0 201,555,2 23,849,4 23,849,4 24,807,7 24,807,7 24,807,7 207,612,3 247,467,4 3715,8 25,123,5
Product shipped <u>1927</u> To Canadian smelters - Lead ore	Tons shipped . 66,639 195,255 1,861 178,713 10,623 . 453,091 1,455 11,979 24,249 72 37,755 26,975 . 26,975 . 25,431 . 70,291 . 214,735 19,009 . 546,441 . 3,069 . 10,469 . 25,229 . 297	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55 14,018,68 554,43 1,633,72 836,04 63,00	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 382 3 1,100 3 8,991 1 26 2 10,704 2 2,788 2 1 7 1,477 5 1,252 3 7 3 400 4 1,111 7 4,247 6 197 1 2,317 0 2,317	tal metal cc sett1 Silver Z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 118,459 674,239 301,793 7,968,383 946,494 2,467,205 155,331 127,825	ntent as det ement assay Lead lb. 25,352,408 270,377,177 196,099 11,290,988 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599 13,317,453 294,948,527 10,867,555 14,434,944 64,392 333,632,871 3,281,648 10,692,233 201,510 437,558	Zinc lb. Zinc lb. 2 10,581,22 18,140,04 495,84 171,865,1 473,0 201,555,2 958,54 23,849,4 24,807,7 24,807,7 24,807,7 24,807,7 24,807,7 24,807,7 24,807,7 24,807,7 24,807,7 24,807,7 25,125,5 3 715,8 25,125,5
roduct shipped <u>1927</u> o Canadian smelters Lead ore	Tons shipped . 66,639 195,255 1,861 178,713 10,623 .453,091 1,455 11,979 24,249 72 37,755 26,975 215,431 70,291 214,735 19,009 546,441 .3,069 10,469 25,229 297 716	Net value at shipping point 1,513,80 9,728,89 48,36 3,559,18 78,24 14,928,50 177,13 1,624,68 776,03 13,78 2,591,62 607,78 9,382,93 79,65 3,799,75 148,55 14,018,68 554,43 1,633,72 836,04 63,00 17,57	Gold Gold fine oz 4 6,362 7 1,007 7 140 7 140 7 140 7 140 7 1,007 8 991 1 26 2 1,704 2 2,788 2 1 7 1,252 3 7 3 400 4 1,111 7 4,247 6 197 1 2,517 0 1.22	tal metal cc sett1 Silver z. fine oz. 1,398,643 4,979,854 93,534 459,765 80,488 7,012,284 228,619 2,224,724 176,433 22,613 2,652,389 176,433 22,613 2,652,389 818,003 6,055,889 118,459 674,239 301,793 7,968,383 946,494 2,467,205 155,331 127,825 7,045	ntent as det ement assay Lead lb. 25,352,408 270,377,177 196,099 11,290,988 321,543 307,538,213 1,694,881 11,479,154 305,701 74,863 13,554,599 13,317,453 294,948,527 10,867,555 14,434,944 64,392 333,632,871 3,281,648 10,692,233 201,510 437,558	Zinc lb. Zinc lb. 2 10,581,22 18,140,04 495,84 171,865,1 473,0 201,555,2 958,54 23,849,44 23,849,44 24,807,74 24,807,74 207,612,3 247,467,4 247,467,4 3715,8 25,123,5

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to foreign smelters - copper in lead ore, 1,546 pounds; copper in lead concentrates, 83,002 pounds, and copper in copper concentrates, 180,546 pounds; a total of 364,894 pounds.

