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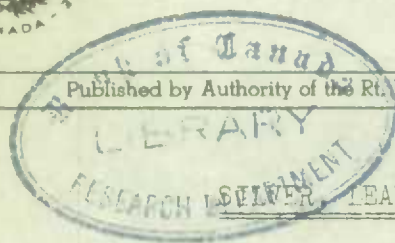


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SILVER, LEAD AND ZINC PRODUCTION

Price 15 cents

JANUARY, 1950

*Mr. G. Horton*  
*Mr. B. B. B.*

Silver - Output in Canada of primary silver in all forms amounted to 1,195,962 fine ounces in January, 1950 compared with 1,718,500 fine ounces in the previous month and with 975,991 fine ounces in January, 1949.

Table 1 - Production of Primary (\*) Silver, 1948-1950

Month	1948	1949	1950
		(fine ounces)	
January .....	1,039,502	975,991	1,195,962
February .....	1,145,020	968,883	
March .....	1,215,564	1,298,189	
April .....	1,204,934	1,245,708	
May .....	1,186,090	1,498,990	
June .....	1,320,440	2,197,674	
July .....	1,970,853	1,735,403	
August .....	1,678,115	1,195,804	
September .....	1,360,157	1,144,165	
October .....	1,527,350	1,894,229	
November .....	1,235,792	1,503,658	
December .....	1,206,165	1,718,500	
Total .....	16,109,982	17,377,194	

(\*) New silver bullion plus recoverable silver in other smelter products and in ores and concentrates exported.

Table 2 - Exports of Refined Silver and Silver in Ores, 1949 and 1950

Month	1949		1950	
	Refined	In ores and concentrates	Refined	In ores and concentrates
		(Fine ounces)		
January .....	324,068	136,767	517,300	240,928
February .....	473,137	112,328		
March .....	952,852	122,168		
April .....	516,413	139,022		
May .....	434,860	462,887		
June .....	625,825	107,466		
July .....	350,836	130,589		
August .....	256,719	587,834		
September .....	248,047	1,140,395		
October .....	307,092	52,553		
November .....	974,820	405,155		
December .....	747,243	657,450		
Total .....	6,211,912	4,054,614		

Note: This report was prepared in the Mining, Metallurgical and Chemical Section.



*[Faint, mostly illegible text and lines, possibly a form or ledger page.]*

Lead - Production of primary lead in all forms and the recoverable lead content of Canadian ores during January, 1950 amounted to 9,558 tons compared with 22,355 tons in the previous month and with 10,796 tons in January, 1949.

Output of refined lead, including amounts recovered from foreign ores which were treated in Canadian smelters, totalled 12,520 tons in January compared with 10,189 tons in the corresponding month of last year.

Table 3 - Production of Lead, 1949 and 1950

Month	Recoverable lead (*) Canadian ores		Refined lead all sources	
	1 9 4 9	1 9 5 0	1 9 4 9	1 9 5 0
	(Tons)			
January .....	10,796	9,558	10,189	12,520
February .....	10,627		11,306	
March .....	9,820		10,110	
April .....	11,273		10,372	
May .....	17,940		12,836	
June .....	14,223		12,996	
July .....	11,055		7,022	
August .....	12,718		14,816	
September .....	12,817		14,580(x)	
October .....	13,338		14,335	
November .....	13,529		14,208	
December .....	22,355		13,379	
Total .....	160,491		146,149	

(\*) New base bullion from Canadian ores plus recoverable lead in ores or concentrates shipped for export. Shipments of accumulated lead concentrates in December, 1949 account for high tonnage.

(x) Revised.

Table 4 - Exports of Refined Lead and Lead in Ores, by Months, 1950

Month	Lead in ore		Lead in pigs	
	Tons	\$	Tons	\$
January .....	631	154,615	4,588	1,155,609

Zinc - Production of primary zinc in all forms (the recoverable zinc content of Canadian ores), during January, 1950 amounted to 24,028 tons compared with 27,381 tons in the previous month and with 21,948 tons in January, 1949.

Output of refined zinc, including amounts recovered from foreign ores treated in Canadian smelters, totalled 16,567 tons in January compared with 18,236 tons in the corresponding month of last year.



1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the problem and the objectives of the research. It also mentions the scope of the study and the methods used.

2. The second part of the report is a detailed description of the experimental work. It includes a description of the apparatus used, the procedure followed, and the results obtained. It also discusses the errors and limitations of the experiment.

3. The third part of the report is a discussion of the results. It compares the results with the theoretical predictions and with the results of other experiments. It also discusses the implications of the results and the conclusions drawn from them.

4. The fourth part of the report is a summary of the work. It briefly reviews the main points of the report and states the conclusions.

Table 1		Table 2		Table 3	
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745	746	747	748	749	750
751	752	753	754	755	756
757	758	759	760	761	762
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775	776	777	778	779	780
781	782	783	784	785	786
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793	794	795	796	797	798
799	800	801	802	803	804
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817	818	819	820	821	822
823	824	825	826	827	828
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841	842	843	844	845	846
847	848	849	850	851	852
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859	860	861	862	863	864
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871	872	873	874	875	876
877	878	879	880	881	882
883	884	885	886	887	888
889	890	891	892	893	894
895	896	897	898	899	900
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919	920	921	922	923	924
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937	938	939	940	941	942
943	944	945	946	947	948
949	950	951	952	953	954
955	956	957	958	959	960
961	962	963	964	965	966
967	968	969	970	971	972
973	974	975	976	977	978
979	980	981	982	983	984
985	986	987	988	989	990
991	992	993	994	995	996
997	998	999	1000	1001	1002
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1075	1076	1077	1078	1079	1080
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1087	1088	1089	1090	1091	1092
1093	1094	1095	1096	1097	1098
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1111	1112	1113	1114	1115	1116
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1255	1256	1257	1258	1259	1260
1261	1262	1263	1264	1265	1266
1267	1268	1269	1270	1271	1272
1273	1274	1275	1276	1277	1278
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1285	1286	1287	1288	1289	1290
1291	1292	1293	1294	1295	1296
1297	1298	1299	1300	1301	1302
1303	1304	1305	1306	1307	1308
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1321	1322	1323	1324	1325	1326
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1345	1346	1347	1348	1349	1350
1351	1352	1353	1354	1355	1356
1357	1358	1359	1360	1361	1362
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Table 5 - Production of Zinc, 1949 and 1950

Month	Recoverable zinc(*) Canadian ores		Refined zinc all sources	
	1949	1950	1949	1950
	(Tons)			
January .....	21,948	24,028	18,236	16,567
February .....	20,013		16,017	
March .....	23,520		18,799	
April .....	17,295		17,217	
May .....	24,840		18,352	
June .....	27,493		17,671	
July .....	28,584		16,695	
August .....	25,954		17,458	
September .....	22,897		16,202	
October .....	25,831		16,347	
November .....	24,935		16,197	
December .....	27,381		17,531	
Total .....	290,691		206,722	

(\*) New refined zinc from Canadian ores plus recoverable zinc in ores and concentrates shipped for export.

Table 6 - Exports of Refined Zinc and Zinc in Ore, by Months, 1950

Month	Zinc in ore		Zinc spelter	
	Tons	\$	Tons	\$
January .....	5,032	632,088	7,725	1,662,120

Table 7 - Consumption of Refined Lead and Refined Zinc, 1949 and 1950

Month	Refined lead		Refined zinc	
	1949	1950	1949	1950
	(Tons of 2,000 pounds)			
January .....	5,393	3,070	4,036	(*)
February .....	5,057		4,476	
March .....	4,499		4,551	
April .....	2,794		3,039	
May .....	3,966		3,609	
June .....	4,327		3,486	
July .....	3,311		2,918	
August .....	5,557		3,646	
September .....	5,404		4,019	
October .....	4,864		3,726	
November .....	4,542		3,923	
December .....	3,282		4,241	
Total .....	48,714		45,670	

(\*) Not yet available.



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