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DOMINION BUREAU OF STATISTICS

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CHEMICALS USED IN METAL MINES AND SMELTERS, 1947

Canadian metal mines and smelters spent \$7,750,000 on chemicals in 1947. In gold mines the principal item was cyanide, amounting to 10.3 million pounds at \$952,000, and in other metal mines and smelters the chief items were soda ash, lime, flotation reagents, salt cake, sulphur, cyanide, sodium silicate and sulphuric acid.

Consumption of Chemicals in (a) The Gold Mining Industry;
(b) Other Metal Mining and Smelting Industries, 1947

	Gold Mining Industry		Other Metal Mining and Smelting Industries	
	Quantity	Cost at mine	Quantity	Cost at works
Acid -				
Acetic	3,145	376	6,884	2,690
Boric .....	...	...	680,010	35,397
Hydrochloric (muriatic)	1,601,232	43,141	810,052	25,727
Nitric	15,233	3,306	112,639	17,008
Stearic .....	...	...	41,753	14,092
Sulphuric (as 100%)	470,896	8,594	15,826,121	137,122
Ammonia (aqua)	1,864	481	244,184	13,504
Ammonium chloride	522	50	397,538	31,495
Bone ash	98,194	13,596	114,123	14,161
Borax	325,651	37,472	17,850	2,389
Calcium carbide	20,520	1,407	116,706	7,401
Calcium chloride	139,507	3,137	110,740	2,889
Chlorine, liquid	77,500	7,997	2,050,983	61,929
Copper sulphate	512,674	44,046	1,400,879	108,033
Cyanide (potassium and sodium)	10,318,614	952,409	4,260,899	314,016
Diatomaceous earth	135,839	7,839	37,850	1,994
Flotation reagents -				
Pine oil	283,492	33,067	2,412,783	242,205
Cresylic acid	52,788	8,833	101,453	11,834
Higher alcohols	18,114	1,490	...	...
Other frothers	30,784	5,086	28,464	4,121
Xanthates	501,216	121,723	2,356,399	532,200
P.H. regulators (mostly alkalis)	5,125	368	14,920	2,551
Zinc salts	3,409	219	100	91
Other	147,380	36,276	692,791	168,406

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Consumption of Chemicals in (a) The Gold Mining Industry;
(b) Other Metal Mining and Smelting Industries, 1947
(Concluded)

	Gold Mining Industry		Other Metal Mining and Smelting Industries	
	Quantity	Cost at mine \$	Quantity	Cost at works \$
Glycerine .....	...	...	3,416	1,207
Glue	88	28	215,417	52,516
Hydrogen peroxide .....	...	...	50,612	10,491
Lime	27,794,958	245,960	166,092,483	1,270,652
Lead salts	87,210	18,010	6,670	1,816
Litharge	516,464	85,171	54,676	12,078
Mercury (metal)	3,851	6,468	2,640	4,176
Manganese dioxide	45,492	3,135	...	...
Manganese chloride	3,243	309	6,466	1,627
Potassium iodide	48	118	3,093	7,732
Potassium nitrate	6,343	918	5,156	1,073
Potassium permanganate .....	...	...	12,675	4,595
Resin	59	9	40,221	4,069
Sodium carbonate (soda ash) ..	1,252,910	42,875	108,950,772	1,710,422
Sodium chloride (common salt) ..	406,712	3,859	2,977,481	16,625
Sodium hydroxide (caustic soda)	51,286	2,897	2,549,155	79,826
Sodium nitrate	131,074	6,167	261,029	10,398
Sodium silicate (water glass) ..	97,816	4,303	11,118,664	218,435
Sodium sulphate (salt cake) ..	1,100	11	48,212,581	419,882
Sodium sulphide	6,965	523	25,913	2,189
Sulphur	63	9	21,358,415	265,531
Starch	29,795	2,917	...	...
Zinc dust	724,260	108,798	133,650	18,001
Zinc chloride	321,971	12,525	...	...
Zinc sulphate	15,054	1,921	118,111	8,353
TOTAL	1,877,844	...	5,872,949

Prepared in the Mining, Metallurgical and Chemical Section.

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