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CONSUMPTION OF CHEMICALS IN MUNICIPAL WATERWORKS

1950 and 1951

The Dominion Bureau of Statistics has just completed a special survey of the consumption of chemicals in municipal waterworks in Canada during 1950 and 1951. A total of 276 waterworks reported the use of chemicals in these years compared with the 235 which reported to the 1948-1949 survey.

In 1951 these waterworks used 8,435 tons of alum, 1,431 tons of chlorine, 5,547 tons of lime, 2,995 tons of salt, 915 tons of soda ash, 72 tons of sulphur dioxide, 5 tons of chloride of lime, 30 tons of activated carbon, 93 tons of ammonium sulphate, and 13 tons of anhydrous ammonia.

This survey covers only the use of chemicals in municipal waterworks and does not include the amounts used in pulp and paper mills or in the purification units of other industrial plants.

Table 1 - CONSUMPTION OF CHEMICALS IN MUNICIPAL WATER PURIFICATION PLANTS, 1950 and 1951

	1 9 5 0	1 9 5 1
	(pounds)	
Activated carbon	52,000	60,000
Aluminum sulphate (filter alum) -		
Granular	13,128,900	14,205,000
Lump	1,956,000	2,484,700
Slab	260,000	181,000
Anhydrous ammonia	26,000	25,000
Ammonium sulphate	167,000	185,000
Chlorine	2,766,000	2,862,000
Copperas (sulphate of iron)	17,000	17,000
Chloride of lime (bleaching powder)	30,000	9,000
Lime	10,679,000	11,094,000
Sodium carbonate (soda ash)	1,818,000	1,830,000
Sulphur dioxide (liquid)	112,000	143,000
Copper sulphate	15,000	21,000
Salt	4,596,000	5,991,000
H. T. H.	7,000	3,000
Sodium hexameta phosphate	15,000	20,000
Sodium chlorite	18,000	21,000
Sodium hypochlorite (solution)	39,000	44,000
Sodium aluminate	6,000	19,000
Sodium fluoride	36,000	41,000

Table 2 - CONSUMPTION, BY PROVINCES, 1950 and 1951 (Concluded)

	1950	1951
	(pounds)	
<u>Manitoba -</u>		
Activated carbon	6,900	8,700
Aluminum sulphate - Granular	285,800	255,200
Lump	34,100	48,900
Anhydrous ammonia	13,900	13,000
Chlorine	82,500	80,400
Sodium carbonate (soda ash)	725,900	716,800
H. T. H.	4,900	...
Copper sulphate	6,800	11,900
Lime	1,600,600	1,564,900
Sodium hypochlorite	8,000	9,500
 <u>Saskatchewan -</u>		
Activated carbon	24,200	20,200
Aluminum sulphate - Granular	254,200	249,200
Lump	356,000	512,200
Chlorine	289,600	327,900
Chloride of lime (bleaching powder)	2,100	900
Sodium hypochlorite	100	100
Copper sulphate	100	100
Sodium aluminate	3,000
Copperas (sulphate of iron)	17,300	17,400
Sodium chlorite	500	800
 <u>Alberta -</u>		
Activated carbon	3,200	2,100
Aluminum sulphate - Granular	734,700	1,652,300
Lump	504,600	608,200
Ammonium sulphate	59,200	63,800
Chlorine	80,400	99,300
Lime	6,939,600	6,988,700
Sodium carbonate (soda ash)	633,500	763,000
Sodium chlorite	600	600
Copper sulphate	6,900	8,100
Sodium aluminate	5,000	5,000
 <u>British Columbia -</u>		
Anhydrous ammonia	5,100	4,700
Chlorine	62,500	69,600
Sodium hypochlorite (solution)	500	500
H. T. H.	600	1,400
Chloride of lime	500	500
Lime	300	300

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