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## D.B.S. MEMORANDUM

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SCRAP IRON AND STEEL - 1950

Consumption of scrap iron and steel in Canadian industry totalled about 2,690,175 net tons in 1950. Steel furnaces used 1,995,326 tons; iron foundries used 541,000 tons; iron blast furnaces, 42,510 tons; steel rolling mills, 62,229 tons; ferro-alloy furnaces, 32,781 tons; abrasive furnaces, 10,542 tons, and other industries 5,787 tons. About 60 per cent of the total, or 1,602,331 tons, was purchased scrap and 40 per cent, or 1,087,844 tons, was home scrap.

Imports of scrap iron and steel amounted to 187,186 tons in 1950 and exports totalled 31,618 tons.

Table 1 - SCRAP IRON AND STEEL USED, 1946-1950

Year	In iron blast furnaces	In steel furnaces	In ferro- alloy furnaces	In rolling mills	In iron foundries	In artificial abrasives	TOTAL (*)
(Tons of 2,000 pounds)							
1946 .....	23,070	1,517,014	28,371	52,761	424,319	12,367	2,062,453
1947 .....	39,474	1,671,676	33,933	61,328	468,627	14,312	2,295,193
1948 .....	44,374	1,833,539	30,666	64,779	539,000	12,200	2,528,194
1949 .....	58,240	1,770,758	37,521	65,045	532,000	8,469	2,475,797
1950 .....	42,510	1,995,326	32,781	62,229	541,000	10,542	2,690,175

(\*) Includes 4,551 tons used in miscellaneous industries in 1946; 5,843 tons in 1947; 3,636 tons in 1948; 3,764 tons in 1949; and 5,787 tons in 1950.

Table 2 - SCRAP IRON AND STEEL USED, 1946-1950

Year	Purchased	Own make	TOTAL
(Tons of 2,000 pounds)			
1946 .....	1,214,175	848,278	2,062,453
1947 .....	1,292,576	996,774	2,295,193
1948 .....	1,490,106	1,038,088	2,528,194
1949 .....	1,426,837	1,048,960	2,475,797
1950 .....	1,602,331	1,087,844	2,690,175

Table 3 - SCRAP IRON AND STEEL USED IN STEEL FURNACES, 1946-1950

Year	Companies' own make	Purchased (Tons of 2,000 pounds)	Cost at works of purchased scrap
			\$
1946 .....	723,365	793,649	14,701,571
1947 .....	882,958	788,718	19,426,124
1948 .....	934,905	898,634	23,130,302
1949 .....	950,904	819,854	20,960,172
1950 .....	989,523	1,005,803	25,779,873

Table 4 - SCRAP IRON AND STEEL AND PIG IRON USED IN STEEL FURNACES, 1946-1950

Year	Scrap (Tons of 2,000 pounds)	Pig iron	Per cent scrap
1946 .....	1,517,014	1,085,005	58.3
1947 .....	1,671,676	1,542,040	52.0
1948 .....	1,833,539	1,696,128	51.9
1949 .....	1,770,758	1,736,824	50.5
1950 .....	1,995,326	1,677,504	54.5

Table 5 - SCRAP IRON AND STEEL USED IN IRON FOUNDRIES, 1946-1950

Year	Companies' own make	Purchased (Tons of 2,000 pounds)	Cost at works of purchased scrap
			\$
1946 .....	122,725	301,594	5,458,761
1947 .....	105,427	363,200	7,326,125
1948 .....	90,634	429,874	11,598,760
1949 .....	87,000	445,000	12,141,000
1950 .....	94,000	447,000	12,643,000

Table 6 - SCRAP IRON AND STEEL AND PIG IRON USED IN IRON FOUNDRIES, 1946-1950

Year	Pig iron (Tons of 2,000 pounds)	Scrap	Per cent scrap
1946 .....	328,509	424,319	56.4
1947 .....	390,792	468,627	54.5
1948 .....	439,000	539,000	55.1
1949 .....	380,000	532,000	58.4
1950 .....	396,000	541,000	57.7

Table 7 - SCRAP IRON AND STEEL USED IN IRON BLAST FURNACES, 1946-1950

Year	Quantity (net charge)	Cost at works
	(Tons of 2,000 pounds)	\$
1946 .....	23,070	271,000
1947 .....	39,474	338,631
1948 .....	44,374	748,373
1949 .....	58,240	978,070
1950 .....	42,510	733,954

Table 8 - SCRAP IRON AND STEEL USED IN ROLLING MILLS, 1946-1950

Year	Companies' own make	Purchased	Cost at works of purchased scrap
	(Tons of 2,000 pounds)	\$	
1946 .....	2,188	50,573	1,096,060
1947 .....	8,389	52,939	1,224,112
1948 .....	12,549	52,230	1,377,080
1949 .....	11,056	53,989	1,581,381
1950 .....	4,255	57,974	1,961,796

Table 9 - SCRAP IRON AND STEEL USED IN THE MANUFACTURE OF FERRO-ALLOYS, 1946-1950

Year	Tons of 2,000 pounds	Cost at works
	\$	
1946 .....	28,371	401,898
1947 .....	33,933	814,631
1948 .....	30,666	841,986
1949 .....	37,521	776,944
1950 .....	32,781	773,593

Table 10 - SCRAP IRON USED IN THE MANUFACTURE OF ARTIFICIAL ABRASIVES, 1946-1950

Year	Tons of 2,000 pounds	Cost at works
	\$	
1946 .....	12,367	179,600
1947 .....	14,312	204,482
1948 .....	12,200	223,867
1949 .....	8,469	172,318
1950 .....	10,542	238,027



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Table 11 - IMPORTS OF SCRAP IRON AND STEEL, 1946-1950

Year	Tons of 2,000 pounds	\$
1946 .....	195,656	2,154,176
1947 .....	186,711	4,183,223
1948 .....	315,080	10,437,234
1949 .....	284,354	7,903,207
1950 .....	187,186	5,378,257

Table 12 - EXPORTS OF SCRAP IRON AND STEEL, 1946-1950

Year	Tons of 2,000 pounds	\$
1946 .....	12,154	165,563
1947 .....	3,060	66,857
1948 .....	5,214	186,640
1949 .....	39,975	1,009,203
1950 .....	62,618	2,034,221

Table 13 - STOCKS OF SCRAP IRON AND STEEL HELD BY CONSUMERS ON DECEMBER 31, 1950

	Tons
Iron blast furnaces .....	1,000
Steel furnaces .....	494,000
Iron foundries .....	80,000
<b>TOTAL .....</b>	<b>575,000</b>