GEOLOGICAL SURVEY DEPARTMENT.

ALFRED R. C. SELWYN, C.M.G., LL.D., F.R.S., DIRECTOR.

DIVISION OF

MINERAL STATISTICS AND MINES.

SUMMARY

OF THE

MINERAL PRODUCTION OF CANADA

FOR

1886 to 1891.

ELFRIC DREW INGALL,

Associate of the Royal School of Mines, England,
Mining Engineer to the Geological Survey of Canada,
IN CHARGE.

H. P. BRUMELL,

Assistant to the Division.

PUBLISHED BY AUTHORITY OF PARLIAMENT

To Dr. A. R. C. Selwyn, C.M.G., F.R.S., Etc.,
Director and Deputy Head.

Sir,—Herewith permit me to hand you a Summary of the Mineral Production of Canada for 1891 and previous years, from 1886.

The figures have been revised and rearranged to make them agree with the plan of presentation at present adopted.

Yours faithfully,

ELFRIC DREW INGALL,
M. E. in Charge of Division.

Geological Survey of Canada,
(Division of Mineral Statistics and Mines,)
7th March, 1893.

GEOLOGICAL SURVEY DEPARTMENT, CANADA.

ALFRED R. C. SELWYN, C.M.G., LL.D., F.R.S., Deputy Head and Director.

DIVISION OF MINERAL STATISTICS AND MINES.

Mineral Products of Canada, Calendar Years 1886 to 1891.

PRODUCTS.	1886.		1887.		1888.		1889.		1890.		1891.		PRODUCT.
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
METALLIC.													
Copper, (c) ... lbs.	3,505,000	$ 354,000	3,260,424	$ 342,345	5,562,864	$ 667,543	6,809,752	$885,424	6,013,671	$902,050	8,928,921	$1,160,760	Copper.
Gold, (d) ... ozs.	76,879	1,330,442	66,270	1,178,637	61,310	1,098,610	72,328	1,295,159	64,046	1,149,776	51,303	930,614	Gold.
Iron Ore (a) ... tons.	69,708	126,982	76,330	146,197	78,587	152,068	84,181	151,640	76,511	155,380	68,979	142,005	Iron Ore.
Iron Ore, Chromic (a) ... "	60	945	38	570	...	...	...	...	...	...	...	...	Iron Ore, Chromic
Lead (e) ... lbs.	...	...	204,800	9,216	674,500	27,472	165,100	6,604	113,000	5,085	588,665	25,607	Lead.
Nickel (f) ... "	...	...	...	...	...	...	...	...	1,435,742	933,232	4,626,627	2,775,976	Nickel.
Platinum ... ozs.	...	...	1,400	5,600	1,500	6,000	1,000	3,500	...	1,500	...	10,000	Platinum.
Silver ... ozs.	...	209,090	...	349,330	...	395,377	383,318	343,848	400,687	420,662	414,523	406,233	Silver.
Total value, Metallic ...	...	$2,021,459	...	$2,031,895	...	$2,347,070	...	$2,686,175	...	$3,570,685	...	$5,451,195	
NON-METALLIC.		(a)		(a)		(a)		(a)		(a)		(a)	
Antimony ore ... tons.	665	$31,490	584	$10,860	345	$3,696	55	$ 1,100	26	$ 625	10	$ 60	Antimony ore.
Arsenic ... "	120	5,460	30	1,200	30	1,200	...	...	25	1,500	20	1,000	Arsenic.
Asbestus ... "	3,458	206,251	4,619	226,976	4,404	255,607	6,113	426,554	9,860	1,260,240	9,279	999,878	Asbestus.
Coal ... "	2,091,976	5,017,225	2,368,891	4,758,590	2,658,134	5,259,832	2,719,478	5,584,182	3,117,661	6,496,110	3,623,076	8,144,247	Coal.
Coke, (g) ... "	35,396	101,940	40,428	135,951	45,373	134,181	54,539	155,043	56,450	166,298	57,084	175,592	Coke.
Felspar ... "	...	...	...	...	...	...	...	...	700	3,500	685	3,425	Felspar.
Fire Clay ... "	...	(b)	...	(b)	...	(b)	400	4,800	...	(b)	250	750	Fire Clay.
Graphite ... "	500	4,000	300	2,400	150	1,200	242	3,160	175	5,200	260	1,560	Graphite.
Grindstones ... "	4,020	46,545	5,292	64,008	5,764	51,129	3,404	30,863	4,884	42,340	4,479	42,587	Grindstones.
Gypsum ... "	166,000	202,742	154,008	157,277	175,887	179,393	213,273	205,108	226,509	194,033	203,605	206,251	Gypsum.
Limestone (flux) ... "	...	(b)	17,171	17,500	16,857	16,533	22,122	21,909	18,478	18,361	11,376	11,547	Limestone (flux).
Manganese ore ... "	1,789	41,499	1,245	43,658	1,801	47,944	1,455	32,737	1,328	32,550	255	6,694	Manganese ore.
Mica ... lbs.	20,361	29,008	22,083	29,816	29,025	30,207	36,529	28,718	770,959	68,074	...	71,510	Mica.
Mineral Pigments.													
Baryta ... Tons.	3,864	19,270	400	2,400	397	7,900	...	...	1,842	7,543	...	...	Baryta.
Ochres ... "	350	2,350	485	3,733	1,100	3,850	794	15,280	275	5,125	900	17,750	Ochres.
Mineral Water ... galls.	...	(b)	...	(b)	124,850	11,456	424,600	37,360	561,165	66,031	427,485	54,268	Mineral Water.
Molybdenite ... lbs.	150	156	...	...	...	...	...	...	...	...	...	...	Molybdenite.
Moulding sand ... tons.	...	(b)	160	800	169	845	170	850	320	1,410	230	1,000	Moulding sand.
Petroleum (h) ... bbls.	486,441	437,797	763,933	595,868	733,564	755,571	639,991	612,101	765,029	902,734	755,298	1,004,546	Petroleum.
Phosphate ... tons.	20,495	304,338	23,690	319,815	22,485	242,285	30,988	316,662	31,753	361,045	23,588	241,603	Phosphate.
Precious stones ...	...	...	...	...	...	...	...	...	...	700	...	1,000	Precious Stones.
Pyrites ... tons.	42,906	193,077	38,043	171,194	63,479	285,656	72,225	307,292	49,227	123,068	67,731	203,193	Pyrites.
Quartz ... "	...	...	...	...	...	...	...	...	200	1,000	...	...	Quartz.
Salt ... "	62,359	227,195	60,173	166,394	59,070	185,460	32,832	129,547	43,754	198,897	45,021	161,179	Salt.
Soapstone ... "	50	400	100	800	140	280	195	1,170	917	1,239	...	...	Soapstone.
Structural Materials.													
Bricks ... m.	139,345	873,600	181,581	986,689	165,818	1,036,746	200,561	1,273,884	211,727	1,266,982	176,533	1,061,536	Bricks.
Building stone ... c. yds.	165,777	642,509	262,592	552,267	411,570	641,712	341,337	913,691	382,563	964,783	187,685	708,736	Building stone.
Cement ... bbls.	...	(b)	69,843	81,909	50,668	35,593	90,474	69,790	102,216	92,405	93,473	108,561	Cement.
Flagstones ... sq. ft.	70,000	7,875	116,000	11,600	64,800	6,580	14,000	1,400	17,865	1,643	27,300	2,721	Flagstones.
Granite ... tons.	6,062	63,309	21,217	142,506	21,352	147,305	10,197	79,624	13,307	65,985	13,637	70,056	Granite.
Lime ... bush.	1,535,950	283,755	2,269,087	394,859	2,216,764	339,951	2,948,249	362,848	2,501,079	412,308	1,829,894	251,215	Lime.
Marble ... tons.	501	9,900	242	6,224	191	3,100	83	980	780	10,776	240	1,752	Marble.
Miscellaneous clay products (i) ...	...	112,910	...	182,150	...	...	...	239,385	...	...	...	...	Misc, clay products.
Pottery ...	...	(j)	...	(j)	...	27,750	...	(j)	...	195,242	...	258,844	Pottery.
Roofing cement ... tons.	...	(b)	...	(b)	...	(b)	...	(b)	1,171	6,502	1,020	4,810	Roofing Cement.
Sands and gravels (k) ... "	124,865	24,226	180,860	30,307	260,929	38,398	283,044	52,647	342,158	65,518	243,724	59,501	Sands and Gravels.
Sewer pipe ...	...	(j)	...	(j)	...	266,329	...	(j)	...	348,000	...	227,300	Sewer Pipe.
Slate ... tons.	5,345	64,675	7,357	89,000	5,314	90,689	6,935	119,160	6,368	100,250	...	(l)	Slate.
Terra cotta ...	...	(j)	...	(j)	...	49,800	...	(j)	...	90,000	...	113,103	Terra Cotta.
Tiles ... m.	12,416	142,617	14,658	230,068	7,518	114,057	10,526	134,265	10,521	140,877	11,839	141,399	Tiles.
Whiting ... bbls.	400	600	400	600	30	240	...	...	500	500	...	...	Whiting
Total value, non-metallic ...	...	$9,096,719	...	$9,417,419	...	$10,271,866	...	$11,162,110	...	$13,719,394	...	$14,359,174	
" metallic ...	...	2,021,459	...	2,031,895	...	2,347,070	...	2,686,175	...	3,570,685	...	5,451,195	
Estimated value of products unspecified or not reported (m) ...	...	881,822	...	800,686	...	881,064	...	651,715	...	709,921	...	689,631	
Grand Total ...	...	$12,000,000	...	$12,250,000	...	$13,500,000	...	$14,500,000	...	$18,000,000	...	$20,500,000	

(a)—Value at mine, quarry or works.
(b)—Not reported.
(c)—Copper contents of ore, matte, etc., at the average market price for the year.
(d)—Nova Scotia gold at $19.50 per oz., British Columbia at $17.00.
(e)—Lead contents of ore, matte, etc., at average market price for year.
(f)—Nickle " " " " "
(g)—Oven coke, the production of Nova Scotia.
(h)—Calculated from official inspection return and computed at average yearly price per barrel of 35 imp. gallons.
(i)—Includes (for the years given) terra-cotta, pottery, sewer-pipe and earthenware.
(j)—Included in miscellaneous clay products.
(k)—Exports only.
(l)—Confidential returns, cannot be quoted.
(m)—Mostly structural materials.

NOTE.—The above figures represent the summary statements incorporated in the annually issued reports of the Division, those for back years being revised to make the method of statement conform with that adopted for recent years.

ELFRIC DREW INGALL,
Mining Engineer in charge of Division.

OTTAWA, 28th February, 1893.