

Nova Scotia Coal Fields.

Pictou Area.

Description.	Acadia Coal Co., Ltd., Stellarton.									
	Vale colliery, Thorburn.					Allan Shaft colliery, Stellarton.				
	M4			M204	M2004	M16			M2016	
Sample No.....	R	AD	D	D	D	R	AD	D	R	D
Moisture condition (see note, p. 2).....										
Loss on air-drying.....%	0.0	.....	.....	.....	.....	1.9	.....	.....	.....	.....
Results obtained by.....	Calc.	Calc.	Anal.	Anal.	Anal.	Calc.	Calc.	Anal.	Calc.	Anal.
Proximate analysis:—										
Moisture.....%	2.1	2.1	.....	.....	.....	3.7	1.8	.....	2.8	.....
Ash.....%	16.9	16.9	17.3	12.6	19.1	10.9	11.1	11.3	9.0	9.2
Volatile matter.....%	31.5	31.5	32.1	33.2	.....	32.1	32.7	33.3	32.7	33.7
Fixed carbon.....%	49.5	49.5	50.6	54.2	.....	53.3	54.4	55.4	55.5	57.1
Ultimate analysis:—										
Carbon.....%	66.6	66.6	68.0	71.7	.....	71.4	72.8	74.1	75.6	77.8
Hydrogen.....%	4.4	4.4	4.3	4.2	.....	4.9	4.8	4.6	5.2	5.0
Ash.....%	16.9	16.9	17.3	12.6	.....	10.9	11.1	11.3	9.0	9.2
Sulphur.....%	1.0	1.0	1.0	1.0	.....	0.6	0.6	0.6	0.6	0.6
Nitrogen.....%	1.8	1.8	1.8	1.7	.....	1.8	1.8	1.9	2.1	2.2
Oxygen.....%	9.3	9.3	7.6	8.8	.....	10.4	8.9	7.5	7.5	5.2
Calorific value:—										
Calories per gram, gross....	6540	6540	6680	7090	.....	7080	7220	7350	.....	.....
B. Th. U. per lb., gross....	11770	11770	12020	12760	.....	12760	13000	13230	.....	.....
Fuel ratio.....	1.55	.....	.....	1.65	.....	1.65	.....	.....	1.70	.....
Carbon-Hydrogen ratio.....	15.2	15.2	16.0	17.1	.....	14.6	15.3	16.0	14.5	15.4
Coking properties.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Location in mine.....	Six-foot seam.....	.....	.....	.....	.....	Food seam.....	.....	.....	Food seam.....	.....
Kind of sample.....	Commercial—5 tons.....	.....	.....	.....	Commercial—2 tons.....	Commercial—10 tons.....	.....	.....	Commercial.....	.....
Quality of coal.....	Over ½ inch screen and picking belt.....	.....	.....	Washed coal from M4, yield 83%.....	Over ½ inch screen and picking belt.....	Over picking belt.....	.....	.....	.....	.....
Taken by.....	T. Denis, Mines Branch.....	.....	.....	.....	Mine authorities.....	T. Denis.....	.....	.....	Mine authorities.....	.....
Date of sampling.....	March 25, 1907.....	.....	.....	.....	July 18, 1907.....	July 20, 1907.....	.....	.....	January 1909.....	.....