

Nova Scotia Coal Fields.

Description.	Springhill Area.						Joggins—Chignecto Area.					
	Dominion Coal Co., Ltd., No. 3 colliery, Springhill.						Minudie Coal Co., Ltd., Minudie colliery, River Hebert.					
	M6			M206	M2006		M9			M209		
Sample No.....	R	AD	D	D	R	D	R	AD	D	D		
Moisture condition (see note, p. 2).....												
Loss on air-drying.....%	0.5						1.0					
Results obtained by.....	Calc.	Calc.	Anal.	Anal.	Calc.	Anal.	Calc.	Calc.	Anal.	Anal.		
Proximate analysis:—												
Moisture.....%	2.8	2.3			2.3		3.8	2.8				
Ash.....%	11.1	11.2	11.5	8.3	4.6	4.7	14.9	15.1	15.5	11.0		
Volatile matter.....%	32.6	32.7	33.5	34.7	32.9	33.7	34.4	34.8	35.8	37.3		
Fixed carbon.....%	53.5	53.8	55.0	57.0	60.2	61.6	46.9	47.3	48.7	51.7		
Ultimate analysis:—												
Carbon.....%	71.1	71.4	73.1	75.4	79.3	81.2	62.3	62.9	64.8	68.2		
Hydrogen.....%	4.8	4.8	4.6	4.9	5.3	5.2	4.7	4.6	4.4	4.6		
Ash.....%	11.1	11.2	11.5	8.3	4.6	4.7	14.9	15.1	15.5	11.0		
Sulphur.....%	1.7	1.7	1.8	1.5	0.9	0.9	6.4	6.5	6.7	6.3		
Nitrogen.....%	1.8	1.8	1.8	1.4	1.7	1.8	1.0	1.0	1.0	0.8		
Oxygen.....%	9.5	9.1	7.2	8.5	8.2	6.2	10.7	9.9	7.6	9.1		
Calorific value:—												
Calories per gram, gross....	7010	7040	7210	7540			6320	6380	6570	7000		
B. Th. U. per lb., gross....	12620	12680	12980	13570			11380	11490	11820	12600		
Fuel ratio.....	1.65			1.65	1.85		1.35			1.40		
Carbon-Hydrogen ratio.....	14.8	15.0	15.9	15.4	15.0	15.7	13.4	13.7	14.8	14.8		
Coking properties.....												
Location in mine.....												
Kind of sample.....	Commercial—10 tons						Commercial—5 tons					
Quality of coal.....	Over $\frac{1}{2}$ inch screen and picking belt.			Washed coal from M6, yield 87%			Over $\frac{1}{2}$ inch screen and picking belt.			Washed coal from M9, yield 79%		
Taken by.....	T. Denis, Mines Branch.					Mine authori- ties.	T. Denis.....					
Date of sampling.....	April 1, 1907				January 1909.		April 3, 1907					
Remarks.....	Operated by Cumberland Railway & Coal Co. at time of sampling.											