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Mines Branch Information Circular IC 138

ANALYSES OF COAL AND COKE DURING 1961

by

W. J. Montgomery* and G. C. Behnke**

INTRODUCTION

The Solid Fuels Analysis Section of the Fuels and Mining Practice Division is responsible for all analytical work on coal and coke, including that reported in the official "Analysis Directory of Canadian Coals", which is published by the Mines Branch (but only at intervals of five or more years). This information circular, issued as the second of an annual series, tabulates the analyses of commercial coal and coke samples received by the division during 1961.

It must be clearly understood that no responsibility is taken by the division for the accuracy of the sampling procedures adopted for procuring the samples for which analyses are reported in this circular, excepting those taken by divisional officers.

Proximate analysis and sulphur values are reported on the "as received" basis only, whereas calorific values are reported on the "as received" as well as the "dry" basis. Ash fusibility determinations, where made, are reported in most instances using the four-point fusion system following the latest ASTM revision; however, some three-point fusions are also reported. Free Swelling Index and Grindability Index (Hardgrove) are reported on a large number of samples. The authors gratefully acknowledge the assistance of C. H. Glaude in supplying the ASTM Free Swelling Index data reported. As an easy reference, the analyses are arranged by province and state.

*Head, Solid Fuels Analysis Section, and **Technician, Fuels and Mining Practice Division, Mines Branch, Department of Mines and Technical Surveys, Ottawa, Canada.

Glossary of Abbreviated Terms

DCC	Dominion Coal Co., Ltd.
DND	Department of National Defence
DOT	Department of Transport
DVA	Department of Veterans Affairs
DPW	Department of Public Works
F&MP	Fuels and Mining Practice Division
GWC	Great West Coal Co., Ltd.
Justice	Department of Justice
NBEPCC	New Brunswick Electric Power Commission
NH&W	Department of National Health and Welfare
NSPC	Nova Scotia Power Commission
St. R	St. Raymond Paper Co., Ltd.

Buck	Buckwheat
CH	Channel
Comm	Commercial
Comp	Composite
D	Delivered
F/S	Fine slack
M	Mesh
N/D	Not designated
N/S	Nut Slack
P&C	Physical and Chemical Survey
P/S	Prepared Stoker
Prep	Prepared
Rd	Round hole screen
Ref	Refinery
Sc	Screened
S	Stoker
Spec	Special
Sq	Square hole screen
S/P	Stoker, pea
Sc/S	Screened Stoker
S/S	Special Stoker
T	Tipple
W	Washery
W/Slack	Washed Slack

Direction des mines

Circulaire d'information IC 138

ANALYSES DE HOUILLE ET DE COKE EN 1961

par

W. J. Montgomery* et G. C. Behnke**

RÉSUMÉ

La Section de l'analyse des combustibles solides, à la Division des combustibles et du génie minier s'occupe de tous les travaux analytiques sur la houille et le coke, y inclus les travaux dont il est fait rapport dans la publication officielle de la Direction des mines intitulée: "Analysis Directory of Canadian Coals", qui paraît à intervalles de cinq ans ou plus. La présente circulaire d'information, la deuxième d'une série qui doit paraître annuellement, traite des analyses d'échantillons commerciaux de houille et de coke reçus par la Division au cours de 1961.

Il faut bien se rappeler que, sauf pour les échantillons prélevés par ses propres fonctionnaires, la Division n'assume aucune responsabilité en ce qui concerne les techniques d'échantillonnage adoptées pour les analyses considérées dans la présente circulaire.

On indique l'analyse approximative et les teneurs en soufre des échantillons "tels qu'ils nous sont parvenus", tandis qu'on mentionne les valeurs calorifiques des échantillons "tels qu'ils nous sont parvenus" aussi bien que des échantillons "à sec". Quand il en est fait mention, la fusibilité des cendres a été déterminée, dans la plupart des cas, à l'aide du procédé de fusion en quatre points, d'après la plus récente révision de l'ASTM, mais on indique également quelques fusions en trois points. L'indice de gonflement libre et l'indice de broyabilité (Hardgrove) sont indiqués dans le cas d'un bon nombre d'échantillons. Les auteurs sont très reconnaissants à C. H. Glaude de leur avoir fourni les données relatives à l'indice de gonflement d'après l'ASTM. Pour les fins de référence, les analyses sont classées par province et par état.

*Chef, Section de l'analyse de combustibles solides. ** Technician, Division des combustibles et du génie minier, Direction des mines, Ministère des mines et des relevés techniques, Ottawa, Canada.

Glossaire des Abreviations

DCC	Dominion Coal Co., Ltd.
DND	Ministère de la Défense nationale
DOT	Ministère des transports
DVA	Ministère des Affaires des anciens combattants
DPW	Ministère des Travaux publics
F&MP	Division des combustibles et du génie minier
GWC	Great West Coal Co., Ltd.
Justice	Ministère de la Justice
NBEPC	Commission d'énergie électrique du Nouveau-Brunswick
NH&W	Ministère de la Santé nationale et du Bien-être social
NSPC	Commission d'énergie de la Nouvelle-Écosse
St. R	St. Raymond Paper Company
Buck	Buckwheat
CH	Echantillon prélevé en saignée
Comm	Commercial
Comp	Composite
D	Livré
F/S	Menus de houille, fins
M	Maille
N/D	Non désigné
N/S	Menus gailletin
P&C	Physique et chimique
P/S	Foyer mécanique préparé
Prep	État de préparation
Rd	Rond
Ref	Raffinerie
Sc	Charbon criblé
S	Chargeur mécanique
Spec	Spécial
Sq	Carré
S/P	Stoker, pea
Sc/S	Crible, foyer mécanique
S/S	Foyer mécanique, spécial
T	Culbuteur
W	Lavoir de préparation
W/Slack	Lavoir menus de houille

I. CANADIAN COALS

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature *F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2360-61	Mid-Run Lump	D	F&MP	2.4	6.3	34.1	57.2	2.4	14100	14450	2180	2510	2580	2630		
3004-61	4 x 1 1/4	T	F&MP	1.0	4.8	37.3	56.9	2.2	14640	14780						7
3008-61	Lump Sc + 2 sq	T	F&MP	1.0	6.4	37.4	55.2	4.1	14160	14310						7 1/2
3002-61	Lump + 1 3/4	T	F&MP	2.1	7.2	37.5	53.2	3.7	13620	13910						7 - 7 1/2
3006-61	Lump + 1 1/4	T	F&MP	1.0	5.4	31.9	61.7	2.1	14470	14620						9
3012-61	Lump + 1 1/4	T	F&MP	1.1	5.4	36.1	57.4	2.3	14350	14510						8 1/2
3015-61	Egg 6 x 4	T	F&MP	2.9	5.7	36.1	55.3	2.9	14120	14540						8
2089-61	Nut 1 x 2	D	DVA	1.5	8.1	35.9	54.5	4.2	13860	14060						
2518-61	Nut 1 x 2	D	DVA	1.8	9.8	35.6	52.8	3.3	13430	13680						
2869-61	Nut 1 x 2	D	DVA	1.4	5.1	37.9	55.6	3.0	14180	14380						
3016-61	Nut	T	F&MP	1.8	5.2	35.2	55.8	2.5	13060	14610						8 1/2
2355-61	Nut 1 x 2	D	DVA	1.6	6.5	37.0	54.9	2.7	14210	14430						
3010-61	Nut	T	F&MP	1.0	12.4	35.3	51.3	3.9	13210	13340						72
2010-61	P/S															
2049-61	1 1/2 x 1/4	D	DND	5.0	10.1	36.3	48.6	2.8	12840	13520						
2084-61	1 1/2 x 1/4	O	DND	1.7	6.9	36.8	54.6	2.5	13840	14080						
2085-61	1 1/2 x 1/4	D	DND	4.5	9.5	33.7	52.3	3.4	12940	13560						
2107-61	1 1/2 x 1/4	D	DND	1.0	7.2	35.4	56.4	2.9	13960	14100						
2147-61	1 1/2 x 1/4	D	DND	1.4	9.7	35.6	53.3	3.2	13500	13690						
2194-61	1 1/2 x 1/4	D	DND	1.9	7.4	34.1	56.6	2.0	13800	14070						
2201-61	1 1/2 x 1/4	D	DND	3.1	7.7	34.8	54.4	2.2	13460	13880						
2313-61	1 1/2 x 1/4	D	DND	3.6	8.3	34.7	53.4	2.9	13320	13820						
2400-61	1 1/2 x 1/4	D	DND	4.6	5.4	37.2	52.8	2.8	13640	14290						
2396-61	1 1/2 x 1/4	D	DND	5.2	6.9	35.6	52.3	2.6	13330	14060						
3062-61	1 1/4 x 5/8	D	DVA	1.9	7.9	34.6	53.6	3.0	13430	13970						
3011-61	1 1/4 x 5/8	D	DVA	1.8	4.9	36.8	56.5	3.1	14190	14450						
2158-61	1 1/4 x 1/4	D	DND	8.8	6.8	33.0	51.4	2.8	12800	14040						
2159-61	1 1/4 x 1/4	D	DND	1.2	9.0	34.6	55.2	2.7	13820	13980						
3091-61	1 1/4 x 1/4	D	DND	2.7	8.5	34.4	54.4	3.6	13690	14070						
2059-61	1 1/4 x 1/8	D	DND	1.9	5.9	37.2	55.0	2.7	14060	14320						
2189-61	3/4 x 1/4	D	DND	2.6	6.2	36.1	55.1	3.2	13900	14280						
2273-61	3/4 x 1/4	D	DND	4.2	6.4	35.5	53.9	3.1	13750	14350						
2332-61	3/4 x 1/4	D	DND	1.4	9.8	36.5	52.3	3.1	13440	13620						
3009-61	3/4 x 1/4	D	DND	1.9	7.5	36.3	54.3	3.3	13870	14140						
3017-61	S/P	T	F&MP	4.3	8.8	33.9	53.0	3.4	13210	13800						
3011-61	Poa	T	F&MP	3.6	4.2	35.6	56.6	2.3	14210	14740						8 1/2
3018-61	Fines	T	F&MP	0.9	8.5	35.7	54.9	3.8	13910	14030						7 1/2
2174-61	Fines	T	F&MP	1.3	12.3	33.2	53.2	2.9	13150	13330						8 1/2
2012-61	N/D	D	DND	1.4	8.3	33.7	56.6	2.3	13760	13960	1920	2000	2070	2320		
2028-61	N/S 2 x 0	D	DND	4.5	9.4	32.2	53.9	3.2	13090	13710						
2031-61	N/S 2 x 0	D	DND	8.8	12.1	28.4	50.7	3.3	12290	13480						
2032-61	N/S 2 x 0	D	DND	5.1	7.9	35.7	51.3	2.8	13050	13750						
2033-61	N/S 2 x 0	D	DND	4.8	8.9	34.6	51.7	2.2	13360	14030						
2039-61	N/S 2 x 0	D	DND	5.3	8.2	32.9	53.6	2.4	13240	13970						
2040-61	N/S 2 x 0	D	DND	6.9	6.7	32.5	53.9	2.9	12930	13890						
				4.7	7.5	32.2	55.6	0.6	13400	14060						

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dombelon Coal Co., Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2043-61	N/S 2 x 0	D	DND	3.2	5.8	35.9	55.1	3.3	13910	14370						
2045-61	N/S 2 x 0	D	DND	3.1	10.4	31.0	55.5	2.7	13220	13650						
2047-61	N/S 2 x 0	D	DND	3.3	9.8	32.0	54.9	2.8	13380	13840						
2060-61	N/S 2 x 0	D	DND	4.6	10.0	32.1	53.3	3.4	12730	13340						
2063-61	N/S 2 x 0	D	DND	3.9	10.3	30.5	55.3	3.0	13060	13580						
2065-61	N/S 2 x 0	D	DND	5.0	9.9	30.4	54.7	2.8	13120	13810						
2066-61	N/S 2 x 0	D	DND	0.6	12.0	31.4	56.0	3.1	13470	13560						
2076-61	N/S 2 x 0	D	DND	5.2	8.6	31.3	54.9	2.8	13310	14030						
2080-61	N/S 2 x 0	D	DND	6.0	9.0	30.8	54.2	3.1	12590	13390						
2099-61	N/S 2 x 0	D	DND	4.0	15.5	30.9	49.6	3.3	12020	12520						
2123-61	N/S 2 x 0	D	DND	4.0	14.5	32.3	49.2	2.5	12430	12970						
2124-61	N/S 2 x 0	D	DND	5.6	9.8	32.5	52.1	3.1	12940	13710						
2125-61	N/S 2 x 0	D	DND	5.5	7.9	33.6	53.0	2.3	13150	13910						
2134-61	N/S 2 x 0	D	DND	4.3	8.8	31.1	55.8	3.1	12920	13490						
2137-61	N/S 2 x 0	D	DND	5.1	14.1	30.4	50.4	3.2	12170	12820						
2138-61	N/S 2 x 0	D	DND	5.8	6.7	32.1	55.4	2.3	12980	13780						
2139-61	N/S 2 x 0	D	DND	4.9	6.7	32.0	56.4	2.7	13240	13930						
2141-61	N/S 2 x 0	D	DND	5.1	10.8	30.9	53.2	3.2	12770	13460						
2142-61	N/S 2 x 0	D	DND	4.5	16.2	29.3	50.0	3.0	11900	12460						
2154-61	N/S 2 x 0	D	DND	5.4	9.4	30.9	54.3	3.0	12740	13470						
2166-61	N/S 2 x 0	D	DND	5.4	12.8	32.8	49.0	3.0	12320	13030						
2170-61	N/S 2 x 0	D	DND	3.4	9.5	30.9	56.2	3.1	13390	13860						
2178-61	N/S 2 x 0	D	DND	3.9	8.1	31.1	56.9	2.1	13290	13820						
2192-61	N/S 2 x 0	D	DND	4.4	12.8	30.2	52.6	3.4	12470	13040						
2202-61	N/S 2 x 0	D	DND	3.3	9.3	31.2	56.2	1.8	13260	13710						
2216-61	N/S 2 x 0	D	DND	3.2	8.0	33.4	54.4	2.5	13520	13970						
2217-61	N/S 2 x 0	D	DND	3.4	9.0	31.9	55.7	2.7	13230	13690						
2259-61	N/S 2 x 0	D	DND	2.4	8.2	32.2	57.2	2.5	13710	14040						
2261-61	N/S 2 x 0	D	DND	3.0	9.0	31.7	56.3	3.0	13290	13700						
2262-61	N/S 2 x 0	D	DND	4.8	8.7	31.1	55.4	2.8	13010	13660						
2281-61	N/S 2 x 0	D	DND	3.1	9.5	32.8	54.6	2.8	13330	13760						
2282-61	N/S 2 x 0	D	DND	3.6	10.1	33.2	53.1	4.5	13060	13550						
2291-61	N/S 2 x 0	D	DND	2.9	10.1	31.1	55.9	3.0	13160	13550						
2302-61	N/S 2 x 0	D	DND	3.2	8.0	33.5	55.3	2.5	13690	14130						
2307-61	N/S 2 x 0	D	DND	3.9	8.8	31.6	55.7	2.7	13140	13670						
2308-61	N/S 2 x 0	D	DND	4.4	7.1	32.4	56.1	2.0	13700	14330						
2309-61	N/S 2 x 0	D	DND	1.8	10.2	32.6	55.4	2.2	13510	13760						
2314-61	N/S 2 x 0	D	DND	3.3	7.0	35.1	54.6	2.1	13930	14390						
2315-61	N/S 2 x 0	D	DND	3.9	7.8	34.1	54.2	2.5	13580	14130						
2328-61	N/S 2 x 0	D	DND	3.0	9.3	32.1	55.6	2.7	13470	13890						
2330-61	N/S 2 x 0	D	DND	2.0	7.3	35.6	55.1	2.4	13940	14230						
2338-61	N/S 2 x 0	D	DND	2.5	8.2	34.6	54.7	3.2	13660	14020						
2339-61	N/S 2 x 0	D	DND	3.0	9.6	32.3	55.1	3.3	13260	13670						
2342-61	N/S 2 x 0	D	DND	4.5	5.6	35.6	54.3	2.2	13770	14430						
2350-61	N/S 2 x 0	D	DND	3.5	7.7	34.7	54.1	2.9	13720	14220						
2357-61	N/S 2 x 0	D	DND	3.7	7.0	34.1	55.2	3.1	13700	14230						
2381-61	N/S 2 x 0	D	DND	3.0	13.6	32.3	51.1	6.3	12480	12870						
2403-61	N/S 2 x 0	D	DND	3.7	9.2	33.2	53.9	3.2	13480	14000						
2418-61	N/S 2 x 0	D	DND	2.3	7.8	34.2	55.7	2.3	13930	14260						
2420-61	N/S 2 x 0	D	DND	3.5	10.4	32.2	53.9	2.9	13420	13910						
2422-61	N/S 2 x 0	D	DND	3.9	9.2	32.7	54.2	2.6	13320	13860						
2425-61	N/S 2 x 0	D	DND	8.8	8.5	31.2	51.5	3.0	12710	13930						
2427-61	N/S 2 x 0	D	DND	5.8	18.9	29.6	45.7	4.5	10660	11320						
2429-61	N/S 2 x 0	D	DND	2.3	7.2	36.7	53.8	2.5	13940	14270						
2439-61	N/S 2 x 0	D	DND	5.6	9.6	33.5	51.3	3.2	12940	13700						
2447-61	N/S 2 x 0	D	DND	3.4	9.3	34.4	52.9	4.0	13120	13580						
2448-61	N/S 2 x 0	D	DND	3.5	7.3	35.0	54.2	3.2	13500	13990						
2477-61	N/S 2 x 0	D	DND	2.9	7.4	35.9	53.8	2.9	13840	14250						
2485-61	N/S 2 x 0	D	DND	2.0	6.1	36.7	55.2	3.4	14120	14410						
2512-61	N/S 2 x 0	D	DND	2.6	8.5	35.2	53.7	3.2	13660	14020						
2513-61	N/S 2 x 0	D	DND	1.9	12.5	30.1	55.5	2.7	13080	13340						
2540-61	N/S 2 x 0	D	DND	3.5	9.5	33.8	53.2	3.6	13320	13800						
2567-61	N/S 2 x 0	D	DND	1.4	9.2	36.2	53.2	3.1	13570	13770						
2583-61	N/S 2 x 0	D	DND	1.9	5.7	37.8	54.6	3.0	14060	14320						
2584-61	N/S 2 x 0	D	DND	1.9	6.0	36.0	56.1	2.8	14090	14360						
2586-61	N/S 2 x 0	D	DND	2.0	6.2	35.7	56.1	2.8	14100	14380						
2587-61	N/S 2 x 0	D	DND	2.1	6.6	35.3	56.0	2.8	14050	14360						
2613-61	N/S 2 x 0	D	DND	2.3	6.0	36.7	55.0	2.0	14030	14360						
2617-61	N/S 2 x 0	D	DND	1.7	6.9	35.0	56.4	2.7	13980	14220						
2619-61	N/S 2 x 0	D	DND	2.8	7.7	35.8	53.7	3.5	13680	14070						

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2679-61	N/S 2 x 0	D	DND	1.9	8.4	34.6	55.1	2.9	13590	13850						
2698-61	N/S 2 x 0	D	DND	2.0	7.6	35.0	55.4	3.1	13700	13980						
2701-61	N/S 2 x 0	D	DND	1.5	11.4	34.8	52.3	3.2	13240	13450						
2723-61	N/S 2 x 0	D	DND	2.8	7.7	34.8	54.7	2.7	13680	14070						
2745-61	N/S 2 x 0	D	DND	1.4	7.5	35.0	56.1	2.6	14110	14310						
2766-61	N/S 2 x 0	D	DND	2.0	10.5	34.1	53.4	2.8	13080	13350						
2767-61	N/S 2 x 0	D	DND	2.3	8.6	34.1	55.0	2.9	13860	14190						
2768-61	N/S 2 x 0	D	DND	4.0	6.0	37.5	52.5	3.4	13880	14450						
2770-61	N/S 2 x 0	D	DND	1.7	10.1	34.8	53.4	3.0	13530	13770						
2782-61	N/S 2 x 0	D	DND	1.7	12.5	31.3	54.5	3.1	13400	13630						
2790-61	N/S 2 x 0	D	DND	1.5	9.0	36.4	53.1	2.6	13820	14030						
2791-61	N/S 2 x 0	D	DND	1.3	4.8	38.0	55.9	2.2	14520	14710						
2792-61	N/S 2 x 0	D	DND	1.6	9.0	35.8	53.6	3.1	13740	13960						
2797-61	N/S 2 x 0	D	DND	1.6	4.1	38.3	56.0	2.2	14530	14770						
2859-61	N/S 2 x 0	D	DND	1.8	4.1	34.6	59.5	1.5	14670	14930						
2862-61	N/S 2 x 0	D	DND	1.4	6.0	32.1	60.5	2.1	14260	14470						
2863-61	N/S 2 x 0	D	DND	1.4	13.0	32.5	52.9	4.2	13190	13380						
2865-61	N/S 2 x 0	D	DND	1.7	7.2	36.1	55.0	3.4	13980	14220						
2898-61	N/S 2 x 0	D	DND	1.5	6.9	35.3	56.3	2.8	13910	14120						
2899-61	N/S 2 x 0	D	DND	2.2	7.2	34.6	56.0	3.6	13880	14180						
2900-61	N/S 2 x 0	D	DND	2.2	6.9	33.5	57.4	2.5	13820	14130						
2977-61	N/S 2 x 0	D	DND	2.7	9.1	32.4	55.8	3.1	13460	13840						
3049-61	N/S 2 x 0	D	DND	1.3	7.5	35.2	56.0	2.4	14060	14240						
3051-61	N/S 2 x 0	D	DND	1.0	6.8	31.5	60.7	2.8	14210	14350						
3058-61	N/S 2 x 0	D	DND	1.0	7.1	37.0	54.9	3.3	14230	14370						
3086-61	N/S 2 x 0	D	DND	1.5	7.5	34.3	56.7	2.3	13950	14160						
3088-61	N/S 2 x 0	D	DND	2.1	5.1	36.4	56.4	2.2	14390	14700						
3090-61	N/S 2 x 0	D	DND	1.4	7.3	36.3	55.0	2.7	13950	14150						
3092-61	N/S 2 x 0	D	DND	2.0	5.8	34.6	57.6	1.9	14210	14510						
3108-61	N/S 2 x 0	D	DND	1.4	4.3	36.9	57.4	2.1	14590	14800						
3109-61	N/S 2 x 0	D	DND	1.3	8.7	35.4	54.6	1.3	13980	14160						
3110-61	N/S 2 x 0	D	DND	1.5	4.1	35.5	59.0	1.7	14500	14720						
3111-61	N/S 2 x 0	D	DND	1.2	7.8	33.9	57.1	2.5	13940	14100						
3112-61	N/S 2 x 0	D	DND	1.3	8.7	36.0	54.0	2.0	13840	14020						
3114-61	N/S 2 x 0	D	DND	2.3	4.8	40.1	52.8	2.1	13980	14310						
3124-61	N/S 2 x 0	D	DND	2.1	6.4	37.0	54.5	4.4	13710	14000						
3132-61	N/S 2 x 0	D	DND	6.1	7.0	32.4	54.5	2.6	13280	14140						
3142-61	N/S 2 x 0	D	DND	1.4	7.1	36.0	55.5	2.9	14110	14300						
3143-61	N/S 2 x 0	D	DND	1.6	6.7	35.1	56.6	2.4	14200	14430						
3150-61	N/S 2 x 0	D	DND	2.7	16.1	35.9	45.2	3.5	12470	12820						
2183-61	N/S 1 3/4 x 0	D	DND	7.9	8.4	31.8	51.9	2.4	12690	13770						
3003-61	N/S 1 3/4 x 0	T	F&MP	2.0	6.4	36.9	54.7	3.2	13850	14130						
2182-61	N/S 1 1/2 x 0	D	DND	5.1	11.3	31.4	52.2	3.3	12680	13370						
2319-61	N/S 1 1/2 x 0	D	DND	3.1	6.1	36.1	54.7	3.2	13650	14080						
2574-61	N/S 1 1/2 x 0	D	DND	2.1	5.0	37.6	55.3	2.8	14020	14330						
2008-61	N/S 1 1/4 x 0	D	DND	8.1	20.7	31.8	39.4	5.4	10050	10940						
2038-61	N/S 1 1/4 x 0	D	Justice	1.8	7.5	35.0	55.7	2.9	13900	14160						
2044-61	N/S 1 1/4 x 0	D	DND	1.9	10.6	31.9	55.6	3.1	13230	13490						
2064-61	N/S 1 1/4 x 0	D	DND	2.9	8.7	31.9	56.5	2.8	13540	13950						
2070-61	N/S 1 1/4 x 0	D	DND	4.2	8.2	33.4	54.2	2.9	13470	14070						
2071-61	N/S 1 1/4 x 0	D	DND	5.8	9.0	31.7	53.5	2.8	12880	13670						
2100-61	N/S 1 1/4 x 0	D	DND	6.9	8.6	31.5	53.0	2.5	12390	13300						
2104-61	N/S 1 1/4 x 0	D	DND	1.9	8.7	33.8	55.6	3.2	13520	13780						
2106-61	N/S 1 1/4 x 0	D	DPW	1.1	10.2	32.4	56.3	3.2	13450	13600						
2108-61	N/S 1 1/4 x 0	D	DND	2.9	7.3	33.6	56.2	2.9	13820	14240						
2113-61	N/S 1 1/4 x 0	D	F&MP	5.4	9.2	30.8	54.6	2.9	12870	13600						
2153-61	N/S 1 1/4 x 0	D	DND	2.9	10.2	32.3	54.6	3.1	12830	13210						
2162-61	N/S 1 1/4 x 0	D	DND	2.0	11.1	32.6	54.3	2.9	13210	13480						
2163-61	N/S 1 1/4 x 0	D	Justice	4.1	7.3	33.1	55.5	2.8	13480	14070						
2164-61	N/S 1 1/4 x 0	D	DND	4.6	10.1	31.0	54.3	3.1	12760	13370						
2165-61	N/S 1 1/4 x 0	D	DND	3.6	7.4	33.7	55.3	2.9	13470	13970						
2167-61	N/S 1 1/4 x 0	D	DND	3.9	6.1	35.1	54.9	2.5	13640	14200						
2200-61	N/S 1 1/4 x 0	D	DND	3.6	6.7	33.7	56.0	2.8	13500	14060						
2225-61	N/S 1 1/4 x 0	D	F&MP	7.1	7.2	31.8	53.9	2.4	13070	14070	1940	2250	2320	2470	71	9
2226-61	N/S 1 1/4 x 0	D	F&MP	7.7	7.8	31.0	53.5	2.9	12900	13960	1950	2100	2190	2280	75	8 1/2
2227-61	N/S 1 1/4 x 0	D	F&MP	6.9	7.7	31.4	54.0	2.9	12980	13940	1940	2020	2140	2270	76	9
2228-61	N/S 1 1/4 x 0	D	F&MP	8.9	8.4	31.6	51.1	2.2	12110	13290	2050	2110	2170	2350	77	6 1/2
2229-61	N/S 1 1/4 x 0	D	F&MP	7.6	8.1	30.8	53.5	2.9	12880	13930	1980	2100	2210	2320	73	9
2230-61	N/S 1 1/4 x 0	D	F&MP	7.4	7.8	31.1	53.7	2.8	12940	13960	1990	2100	2200	2340	75	8 1/2

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2231-61	N/S 1 1/4 x 0	D	F&MP	5.9	7.9	31.9	54.3	3.1	13140	13960	2000	2110	2220	2320	74	8 1/2 - 9
2232-61	N/S 1 1/4 x 0	D	F&MP	7.1	7.6	31.6	53.7	2.8	12910	13900	2000	2230	2290	2340	75	8 1/2 - 9
2236-61	N/S 1 1/4 x 0	D	DND	2.3	10.0	31.8	55.9	2.8	13220	13520						
2238-61	N/S 1 1/4 x 0	D	Justice	3.9	8.0	33.2	54.9	2.6	13410	13950						
2272-61	N/S 1 1/4 x 0	D	DND	3.0	7.1	34.3	55.6	3.0	13750	14170						
2274-61	N/S 1 1/4 x 0	D	DND	3.0	6.4	34.4	56.2	2.6	13810	14230						
2295-61	N/S 1 1/4 x 0	D	DND	4.3	9.4	32.6	53.7	2.8	13140	13730						
2320-61	N/S 1 1/4 x 0	D	DND	3.1	8.1	34.1	54.7	0.9	13490	13920						
2321-61	N/S 1 1/4 x 0	D	DND	4.9	7.1	34.0	54.0	2.6	13400	14090						
2336-61	N/S 1 1/4 x 0	D	DND	1.7	9.0	34.3	55.0	2.8	13550	13790						
2359-61	N/S 1 1/4 x 0	T	F&MP	7.5	6.7	30.6	55.2	2.4	13260	14340	2180	2350	2420	2590		
2361-61	N/S 1 1/4 x 0	D	DND	1.3	9.6	34.5	54.6	3.2	13660	13850						
2394-61	N/S 1 1/4 x 0	D	Justice	5.3	8.3	32.4	54.0	2.9	13120	13860						
2419-61	N/S 1 1/4 x 0	D	DND	5.2	8.2	32.1	54.5	3.3	13070	13780						
2441-61	N/S 1 1/4 x 0	D	DND	3.6	8.8	32.2	55.4	2.6	13440	13930						
2444-61	N/S 1 1/4 x 0	D	DND	2.8	12.4	32.5	52.3	3.0	12890	13270						
2492-61	N/S 1 1/4 x 0	D	DND	2.2	6.2	35.4	56.2	2.8	13960	14270						
2493-61	N/S 1 1/4 x 0	D	DND	4.7	7.0	33.1	55.2	2.5	13570	14230						
2495-61	N/S 1 1/4 x 0	D	DND	1.5	8.9	34.5	55.1	2.8	13650	13860						
2534-61	N/S 1 1/4 x 0	D	Justice	3.7	5.4	32.3	58.6	2.2	14050	14590						
2572-61	N/S 1 1/4 x 0	D	Justice	3.1	9.5	33.8	53.6	3.2	13230	13650						
2686-61	N/S 1 1/4 x 0	D	Justice	2.4	7.2	34.8	55.6	2.4	13820	14150						
2720-61	N/S 1 1/4 x 0	D	Justice	2.3	7.2	35.0	55.5	2.5	13700	14020						
2763-61	N/S 1 1/4 x 0	D	Justice	1.8	7.7	35.5	55.0	3.1	13920	14180						
2780-61	N/S 1 1/4 x 0	D	DND	1.9	7.7	35.4	55.0	3.0	13880	14140						
2872-61	N/S 1 1/4 x 0	D	Justice	1.5	6.3	35.9	56.3	2.6	14150	14360						
3037-61	N/S 1 1/4 x 0	D	DND	6.7	8.2	32.1	53.0	3.0	12870	13790						
3083-61	N/S 1 1/4 x 0	D	Justice	2.3	7.4	34.8	55.5	2.7	13830	14150						
3005-61	Slack - 1 1/4	T	F&MP	1.0	7.3	36.4	55.3	2.6	14170	14310	1920	2330	2100	2310	74	7 - 7 1/2
3007-61	Slack - 1 1/4	T	F&MP	1.0	7.6	31.1	60.3	1.5	14130	14270	1940	2070	2200	2390		9
3013-61	S/S - 1 1/4	T	F&MP	1.1	5.3	34.6	59.0	1.8	14480	14630						8 1/2
3014-61	S/S - 1 1/4	T	F&MP	0.8	6.2	34.5	58.5	2.0	144.0	14530						8 1/2
2300-61	Slack 3/4 x 0	D	Justice	5.0	10.2	31.6	53.4	2.7	12760	13430						
2301-61	Slack 3/4 x 0	D	Justice	4.3	10.2	31.6	53.9	2.3	12900	13470						
2358-61	Slack 3/4 x 0	T	F&MP	8.1	7.7	32.0	52.2	2.5	12820	13960	2000	2080	2130	2170		
2382-61	Slack 3/4 x 0	D	Justice	7.2	8.6	30.6	53.6	2.8	12730	13720						
2383-61	Slack 3/4 x 0	D	Justice	7.5	8.5	31.7	52.3	2.5	12720	13750						
2543-61	Slack 3/4 x 0	D	Justice	5.2	8.7	32.6	53.5	2.7	13120	13840						
2582-61	Slack 3/4 x 0	D	Justice	2.0	5.8	35.5	56.7	2.3	14190	14470						
2695-61	Slack 3/4 x 0	D	Justice	3.2	9.6	33.7	53.5	3.2	13280	13710						
2789-61	Slack 3/4 x 0	D	Justice	2.7	8.9	34.0	54.4	2.9	13690	14070						
2740-61	Slack 3/4 x 0	D	Justice	3.6	8.3	33.6	54.5	2.9	13300	13810						
2964-61	Slack 3/4 x 0	D	Justice	2.5	10.2	33.2	54.1	3.5	13340	13680						
3126-61	Slack 3/4 x 0	D	Justice	0.9	9.9	34.9	54.3	3.5	13680	13810						
2171-61	N/D Slack	D	DVA	4.0	7.5	34.3	54.2	2.4	13500	14050						
2399-61	N/D Slack	T	DCC	1.7	6.8	-	-	3.2	13890	14120						
2514-61	N/D Slack	D	DVA	3.9	8.9	32.6	54.6	2.9	13230	13770						
2533-61	N/D	T	F&MP	2.2	7.2	35.6	55.0	3.2	13680	13980						
2758-61	N/D	D	DVA	1.7	6.7	35.4	56.2	2.9	14090	14340						
3134-61	N/D	-	DCC	1.0	12.5	33.7	52.8	5.9	12740	12870						
3135-61	N/D	-	DCC	1.0	14.6	33.3	51.1	6.3	12350	12470						
2074-61	#20 Slack	-	DCC	0.9	7.6	35.3	56.2	3.0	13990	14120						
2075-61	#20 Slack	-	DCC	0.8	8.4	35.6	55.2	3.5	13800	13920						
2077-61	#20 Slack	T	F&MP	5.9	6.1	34.0	54.0	2.1	13490	14340						
2078-61	#20 Slack	T	F&MP	3.8	20.7	33.8	41.7	2.8	10300	10710						
2109-61	Lump 1 x 6	D	DND	2.4	9.9	34.7	53.0	6.0	12870	13190						
2168-61	Lump 1 x 6	D	DND	1.5	10.6	35.3	52.6	7.3	12920	13120						
2283-61	Lump 1 x 6	D	DND	3.1	6.3	35.3	55.3	4.7	13370	13800						
2343-61	Lump 1 x 6	D	DND	3.2	5.9	35.4	55.5	4.4	13690	14150						
2421-61	Lump 1 x 6	D	DND	2.8	9.4	36.8	51.0	5.2	13040	13420						
2451-61	Lump 1 x 6	D	DND	3.2	13.5	33.9	49.4	6.7	12310	12710						
2452-61	Lump 1 x 6	D	DND	2.7	12.5	32.8	52.0	6.1	12370	12710						
2842-61	Lump 1 x 6	D	DND	1.7	24.4	28.9	45.0	9.1	10400	10590	1900	2010	2060	2170		
3082-61	Lump 1 x 6	D	DND	1.8	9.5	34.9	53.7	6.1	13140	13380						
2998-61	Lump + 2	T	F&MP	1.5	13.1	33.9	51.5	7.6	12560	12750						7

OPERATOR Bras d'Or Coal Co., Ltd. (Four Star Mine)

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Bras d'Or Coal Co., Ltd. (Four Star Mine)

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2999-61	Nut 2 x 3/4	T	F&MP	1.3	10.8	34.9	53.0	7.0	12900	13070					65	7
2936-61	S/P	D	DPW	1.9	10.5	35.1	52.5	8.0	12890	13140						
2069-61	P/S															
2151-61	1 1/4 x 1/4	D	DND	2.8	7.9	35.4	53.9	5.0	13350	13730						
2484-61	1 1/4 x 1/4	D	DND	3.9	10.9	33.8	51.4	5.3	12790	13310						
2521-61	1 1/4 x 1/4	D	DND	3.4	7.7	35.8	53.1	5.5	13210	13680						
2746-61	1 1/4 x 1/4	D	DND	2.5	9.4	34.8	53.3	5.6	13190	13530						
2760-61	1 1/4 x 1/4	D	DND	2.6	8.6	35.5	53.3	5.5	13160	13510						
2813-61	1 1/4 x 1/4	D	DND	2.2	6.9	36.8	54.1	5.2	13670	13980						
2814-61	1 1/4 x 1/4	D	DND	2.2	6.5	37.0	54.3	5.0	13660	13980						
2860-61	1 1/4 x 1/4	D	DND	3.6	10.2	34.0	52.2	6.5	12550	13020						
2861-61	1 1/4 x 1/4	D	DND	2.7	9.9	35.1	52.3	5.9	12960	13310						
2867-61	1 1/4 x 1/4	D	DND	2.3	9.3	34.8	53.6	6.4	12980	13280						
2901-61	1 1/4 x 1/4	D	DND	1.9	10.3	34.2	53.6	7.7	12840	13090						
2902-61	1 1/4 x 1/4	D	DND	1.6	6.5	36.7	55.2	4.7	13680	13910						
2966-61	1 1/4 x 1/4	D	DND	1.7	8.6	35.6	54.1	5.2	13390	13620						
3052-61	1 1/4 x 1/4	D	DND	2.2	4.9	36.6	56.3	4.0	13820	14130						
3079-61	1 1/4 x 1/4	D	DND	1.8	8.8	35.2	54.2	7.5	13120	13360						
3080-61	1 1/4 x 1/4	D	DND	2.7	10.3	34.6	52.4	5.8	12810	13160						
3000-61	1 1/4 x 1/4	D	DND	1.9	6.1	35.5	56.5	4.6	13680	13950						
2007-61	S 3/4 x 5/16	T	F&MP	1.3	9.5	35.9	53.3	6.3	13190	13360					67	6 1/2
2025-61	N/S															
2027-61	1 1/4 x 0	D	DND	7.1	11.3	30.8	50.8	3.8	12130	13050						
2569-61	1 1/4 x 0	D	DND	5.6	17.5	32.1	44.8	6.1	11260	11930						
2741-61	1 1/4 x 0	D	DND	9.4	11.1	30.5	49.0	3.4	11920	13150						
2742-61	1 1/4 x 0	D	DND	2.3	9.9	35.1	52.7	6.2	12880	13180						
2857-61	1 1/4 x 0	D	DND	5.9	13.2	32.4	48.5	7.3	11800	12540						
3055-61	1 1/4 x 0	D	DND	4.8	15.2	32.3	47.7	6.2	11790	12390						
3073-61	1 1/4 x 0	D	DND	7.7	11.2	32.1	49.0	5.6	11980	12980						
3074-61	Slack - 1	T	F&MP	1.7	11.5	34.7	52.1	5.7	12820	13040						
3001-61	Slack - 5/16	T	F&MP	1.8	10.5	35.3	52.4	5.9	12980	13220						
				1.3	8.5	36.0	54.2	5.8	13390	13560					62	

OPERATOR Indian Cove Coal Co., Ltd. (Tomson and Greener Mines)

2991-61	Lump #3 (Tomson)	T	F&MP	5.6	12.5	35.2	46.7	7.2	11950	12650						
2992-61	Nut 3 x 1 sq (Tomson)	T	F&MP	3.1	11.4	37.3	48.2	6.4	12480	12880					66	5 1/2
3076-61	Nut 3 x 1 (Tomson)	T	F&MP	4.1	12.0	36.4	47.5	6.3	12410	12930						
2995-61	Stoker 1 x 3/4 sq (Greener)	T	F&MP	2.4	13.1	35.0	49.5	6.3	12250	12550					68	4

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Indian Cove Coal Co., Ltd. (Tomson and Greener Mines)

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
3077-61	Slack 1 x 0 (Tomson)	T	F&MP	3.0	14.4	35.6	47.0	6.3	11980	12350						
2993-61	Slack - 1 sq (Tomson)	T	F&MP	1.7	15.3	35.7	47.3	6.5	12070	12290					65	6 - 6 1/2
2805-61	Slack 3/4 x 0 (Greener)	D	DND	5.0	9.6	34.9	50.5	4.9	12440	13100						
2844-61	Slack 3/4 x 0 (Greener)	D	DND	7.0	10.7	33.9	48.4	5.6	12030	12930					66	4 1/2
2845-61	Slack 3/4 x 0 (Greener)	D	DND	7.2	11.8	32.9	48.1	5.5	11860	12780					65	6
2978-61	Slack 3/4 x 0 (Greener)	D	DND	3.3	10.6	34.7	51.4	5.7	12690	13120						
3089-61	Slack 3/1 x 0 (Greener)	D	DND	4.2	12.8	33.8	49.2	5.4	12120	12650						
3145-61	Slack 3/4 x 0 (Greener)	D	DND	4.7	12.2	34.4	48.7	5.5	12090	12680						
2996-61	Slack - 3/4 sq (Greener)	T	F&MP	2.5	12.6	35.0	49.9	6.6	12380	12600					68	4 1/2
2997-61	Slack - 3/4 sq (Greener)	T	F&MP	5.0	13.0	33.2	48.2	6.2	11840	12540					69	6
AREA Inverness (Port Hood Basin)										OPERATOR Chestleo Mining Co.						
2874-61	Lump + 2 sq Nut Stoker	T	F&MP	3.5	21.2	32.4	42.9	9.2	10460	10840						1 1/2
2875-61	2 x 3/4 sq	T	F&MP	2.8	15.3	34.4	47.5	8.6	11550	11890					60	3 1/2
2050-61	N/S 1 1/4 x 0	D	DND	6.0	19.3	32.8	41.9	6.3	10670	11350						
2052-61	N/S 1 1/4 x 0	D	DND	5.5	17.1	33.9	43.6	6.7	10710	11330						
2876-61	Slack - 3/4 sq	T	F&MP	3.8	14.1	35.2	46.9	7.4	11630	12090					65	4 1/2
OPERATOR Tifer Mine, Mabou																
2877-61	Channel	CH	F&MP	10.0	7.6	30.6	51.8	6.7	11440	12720					63	1
OPERATOR Evans' Coal Mines Ltd.																
2878-61	Lump + 4 sq	T	F&MP	4.4	8.6	35.8	51.2	3.2	12630	13200	1970	2000	2020	2100		4 1/2
2879-61	Med. Lump 4 x 2 sq	T	F&MP	4.3	9.0	36.0	50.7	6.3	12370	12930	1950	2020	2040	2160		4 1/2
2880-61	Egg 2 x 1 sq	T	F&MP	4.6	10.7	34.7	50.0	6.5	12070	12660	1960	2010	2040	2090		4
2881-61	Nut 1 x 3/4 sq	T	F&MP	4.0	11.2	34.6	50.2	6.9	12070	12570	1950	2020	2050	2170	66	4 - 4 1/2
2882-61	Stoker 3/4 x 1/2 sq	T	F&MP	4.1	10.4	34.6	50.9	6.7	12230	12750	1940	2030	2070	2220	66	4 1/2
2883-61	Fines - 1/2 sq	T	F&MP	3.3	10.9	35.3	50.5	6.3	12180	12500	1910	1960	2040	2100	64	5
AREA Mainland Coal Field (Cumberland)										OPERATOR Joggins Coal Co., Ltd.						
2222-61	Stzed 6"	D	NSPC	3.2	10.6	36.4	49.8	4.6	12690	13100						5 1/2 - 6
2816-61	Lump + 2 sq	T	F&MP	2.3	13.9	35.5	48.3	5.9	12320	12610						6
2817-61	Lump + 2 sq	T	F&MP	2.3	10.2	37.1	50.4	4.7	12820	13120	1880	1940	2000	2040		
2220-61	Slack 1 1/2 x 1/2	D	NSPC	3.8	33.6	27.2	35.4	6.0	8880	9239						
2221-61	Slack 1 1/2 x 1/2	D	NSPC	4.2	13.9	35.0	46.9	4.3	12149	12080						
2815-61	Slack - 1 1/2 x 1/2	D	F&MP	2.3	23.3	32.5	41.9	6.1	10830	10840					65	4 1/2
2818-61	Slack - 1 1/2 x 1/2	T	F&MP	1.5	25.0	31.3	42.2	7.6	19560	10730					65	5 - 5 1/2
2819-61	Slack - 1 1/2 x 1/2	T	F&MP	2.1	13.0	35.9	49.0	5.1	12450	12710					74	5 - 5 1/2
2219-61	Slack 1/2	D	NSPC	3.7	31.8	28.6	35.9	5.4	9190	9530						
OPERATOR River Hebert Coal Co., Ltd.																
2625-61	N/D	Spec.	F&MP	1.6	22.9	32.7	42.8	5.6	11050	12220						
2626-61	N/D	Spec.	F&MP	1.5	27.3	30.4	40.8	6.1	10260	10410						
2820-61	Lump + 1 1/8	T	F&MP	1.4	19.6	32.8	46.2	5.9	11910	12080						
2781-61	N/S 1 1/4 x 0	D	DOT	1.7	26.0	31.5	40.8	6.4	10650	10840						
2848-61	P/S	D	DPW	2.0	15.9	33.7	48.4	4.5	12140	12380						
2821-61	Slack - 1 1/8	T	F&MP	1.4	20.3	32.3	46.0	5.1	11550	11720	1990	2060	2110	2170	64	7
2822-61	F/S - 1/4	T	F&MP	1.6	19.2	33.1	46.1	4.8	11620	11800	1980	2060	2100	2170	69	7 - 7 1/2

PROVINCE Nova Scotia

AREA Mainland Coal Field (Pictou)

OPERATOR Acadia Coal Co., Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature *F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2453-61	Slack - 1	D	DND	4.3	15.3	26.5	53.9	0.4	12300	12850						
2551-61	Slack - 1 3/4	D	DND	3.9	9.9	27.0	59.2	0.4	13180	13700						
2552-61	Slack - 1 3/4	D	DND	5.4	11.0	26.7	56.9	0.5	12700	13420						
2561-61	Slack - 1 3/4	D	DND	3.3	11.8	26.5	58.4	0.5	12790	13220						
2570-61	Slack - 1 3/4	D	DND	3.5	11.3	27.6	57.6	0.6	12880	13340						
2571-61	Slack - 1 3/4	D	DND	3.8	11.6	27.5	57.1	0.5	12930	13440						
2615-61	Slack - 1 3/4	D	DND	2.5	13.0	27.8	56.7	0.6	12930	13260						
2616-61	Slack - 1 3/4	D	DND	2.3	11.5	28.1	58.1	0.5	13020	13330						
2684-61	Slack - 1 3/4	D	DND	3.5	11.8	26.9	57.8	0.4	12720	13180						
2690-61	Slack - 1 3/4	D	DND	3.4	12.5	27.0	57.1	0.6	12620	13060						
2691-61	Slack - 1 3/4	D	DND	3.6	12.0	26.9	56.5	0.7	12440	12900						
2709-61	Slack - 1 3/4	D	DND	2.5	11.9	28.2	57.4	0.4	12790	13110						
2764-61	Slack - 1 3/4	D	DND	2.7	11.4	28.0	57.9	0.5	13040	13400						
2786-61	Slack - 1 3/4	D	DND	2.2	16.0	28.7	53.1	0.6	12300	12570						
2796-61	Slack - 1 3/4	D	DND	2.4	11.8	27.9	57.9	0.5	13080	13400						
2806-61	Slack - 1 3/4	D	DND	2.5	9.8	28.3	59.4	0.6	13340	13680						
2850-61	Slack - 1 3/4	D	DND	2.6	9.1	27.6	60.7	0.3	13330	13680						
2851-61	Slack - 1 3/4	D	DND	1.8	10.4	29.0	58.8	0.6	13390	13650						
2858-61	Slack - 1 3/4	D	DND	2.3	10.3	28.1	59.3	0.7	13280	13600						
2896-61	Slack - 1 3/4	D	DND	2.0	9.0	39.0	50.0	0.5	13590	13860						
2968-61	Slack - 1 3/4	D	DND	2.2	10.2	27.4	60.2	0.6	13280	13580						
3050-61	Slack - 1 3/4	D	DND	2.7	12.3	26.7	58.3	0.7	12880	13240						
3095-61	Slack - 1 3/4	D	DND	2.7	11.6	27.3	58.4	0.8	13020	13380						
3141-61	Slack - 1 3/4	D	DND	1.6	10.7	27.5	60.2	0.7	13210	13430						
3149-61	Slack	D	DND	1.8	11.0	27.9	59.3	0.6	13360	13600						
2904-61	Egg washed 7 1/2 x 1 3/4	W	F&MP	1.6	10.7	29.6	58.1	0.5	13300	13510						7 - 7 1/2
2479-61	Egg washed 6 x 1 3/4	D	F&MP	7.8	10.4	27.7	54.1	0.3	12410	13470	2250	2310	2490	2520		
2905-61	Nut washed 1 3/4 x 3/4 sq	T	F&MP	1.7	10.2	27.9	60.2	0.8	13400	13620					63	7 - 7 1/2
2906-61	3/4 sq x 3/16 x 3 ty	T	F&MP	1.6	12.1	27.3	59.0	0.5	13010	13220					62	6 1/2
2907-61	Washed Splint 3/16 x 3/16	W	F&MP	1.2	35.8	25.3	37.7	1.3	8310	8410					61	1
2908-61	x 3 ty	-	F&MP	2.0	13.5	27.8	56.7	0.9	12740	13010					65	5 1/2 - 6
2909-61	Washed Splint	D	F&MP	1.9	29.8	26.0	42.3	0.7	9920	10110					60	1 1/2

OPERATOR Drummond Coal Co., Ltd.

2480-61	Special Lump #1	T	F&MP	4.4	15.6	26.7	52.9	1.2	11740	12340	2230	2310	2470	2500		
2910-61	+ 1 1/2	T	F&MP	2.1	14.1	27.4	56.4	1.2	12560	12830						3
2915-61	Lump #2	T	F&MP	2.3	21.0	24.7	52.0	2.0	11560	11830						1 1/2
2911-61	+ 1 1/2	T	F&MP	2.3	21.0	24.7	52.0	2.0	11560	11830						1 1/2
2911-61	Nut #1	T	F&MP	2.2	17.1	27.9	52.8	1.5	11890	12150					67	3 1/2
2912-61	Pea #1	T	F&MP	2.6	15.7	26.8	54.9	1.3	12170	12490					66	3
2916-61	Pea #2	T	F&MP	2.3	19.5	25.3	52.9	2.2	11580	11850					62	1
2914-61	3/4 x 3/16	T	F&MP	2.0	17.5	27.0	53.5	2.1	11830	12080					71	2 1/2 - 3
2918-61	Slack #1 - 3/4	T	F&MP	1.4	21.1	24.9	52.6	2.2	11480	11640					64	1 1/2
2919-61	Slack #2 - 3/4	D	F&MP	2.2	20.7	25.4	51.7	1.7	11430	11700					65	1 1/2
2913-61	1 & 2 - 3/4	D	F&MP	2.2	20.7	25.4	51.7	1.7	11430	11700					65	1 1/2
2913-61	Fines #1	T	F&MP	2.4	19.5	26.9	51.2	2.2	11380	11660					76	1 1/2
2917-61	- 3/16	T	F&MP	2.4	21.4	24.6	51.6	2.1	11390	11670					67	1

OPERATOR Greenwood Coal Co., Ltd.

2920-61	Run of Mine	D	F&MP	3.7	25.1	26.6	44.6	1.9	10360	10760						
2921-61	Run of Mine	D	F&MP	3.4	19.0	27.1	50.5	1.2	11620	12030						1

OPERATOR Linacy Coal Co., Ltd., Acadia #5 Slope

3127-61	Lump Sc + 3/4 sq	T	F&MP	4.2	23.5	26.2	46.1	5.0	10230	10670	1890	2060	2160	2280		
3128-61	Slack - 3/4 sq	T	F&MP	2.8	24.0	25.9	46.3	4.9	10310	10610	2000	2230	2340	2470		

PROVINCE Nova Scotia

AREA Cumberland Coal Field

OPERATOR Springhill Coal Mines Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2160-61	Lump + 2	D	Justice	4.3	17.8	28.5	49.4	2.1	11460	11970	1980	2050	2110	2300	74	
2417-61	Lump + 2	D	Justice	3.7	18.0	30.2	48.1	2.5	11560	11990						
2809-61	Lump + 1	T	F&MP	3.1	22.2	29.0	45.7	2.1	10890	11240						
2590-61	Lump + 3/4	T	F&MP	3.8	20.2	28.6	47.4	2.5	11160	11600	2050	2170	2220	2360		1 1/2
3093-61	S 1 1/4 x 1 3/4	D	Justice	3.4	18.2	30.0	48.4	2.4	11440	11840						
2437-61	S 1 x 1 1/4	D	Justice	2.9	21.7	29.6	45.8	2.2	11000	11330						
2787-61	S 1 1/4 x 3/4	D	Justice	3.9	16.3	30.8	49.0	2.2	11810	12290						
2810-61	S 1 x 1/4	T	F&MP	3.4	19.0	29.9	47.7	2.3	11440	11840					60	1 1/2
2591-61	S 3/4 x 1/4	T	F&MP	3.9	18.0	29.7	48.4	2.5	11360	11820	1990	2140	2280	2400	61	2
2595-61	S 3/4 x 1/4	D	Justice	3.1	17.0	30.7	49.2	2.3	11680	12050						
2700-61	S 3/4 x 1/4	D	Justice	3.4	16.1	30.7	49.8	2.9	11630	12040						
3137-61	S 3/4 x 1/4	D	Justice	2.9	15.9	30.8	50.4	2.4	11990	12350						
2009-61	N/S 1 1/4 x 0	D	DND	5.7	17.1	28.8	48.4	2.3	11190	11870						
2026-61	N/S 1 1/4 x 0	D	DND	9.7	17.5	26.3	46.5	2.1	10600	11740						
2051-61	N/S 1 1/4 x 0	D	DND	8.5	17.4	26.8	47.3	2.2	10650	11640						
2592-61	Slack - 1 1/4	T	F&MP	3.4	18.1	29.4	49.1	2.4	11390	11790	2010	2140	2210	2370	65	1 1/2
2811-61	Slack - 1/4	T	F&MP	3.0	17.9	30.1	49.0	2.4	11470	11830	2010	2040	2060	2160	65	2
2516-61	N/D	D	Justice	6.4	16.0	29.2	48.4	2.0	11410	12190						

PROVINCE New Brunswick

AREA Minto (Grand Lake)

OPERATOR Miramichi Lumber Co., (Ltd.)

2646-61	Lump + 3 sq	T	F&MP	1.5	18.1	33.1	47.3	8.4	12140	12330	1920	1990	2010	2060		6 - 6 1/2
2639-61	Lump + 1 1/2	T	F&MP	2.6	16.1	30.2	51.1	7.8	12170	12490	1920	1990	2010	2110		7 - 7 1/2
2642-61	Lump + 1 1/4	T	F&MP	3.1	28.2	27.5	41.2	6.4	10290	10620	1930	2000	2040	2200		4 - 4 1/2
2644-61	Lump + 1 1/4	T	F&MP	2.5	27.0	28.5	42.0	7.2	10450	10720	1950	2000	2070	2190		4 1/2 - 5
2647-61	Nut 3 x 1 1/2	T	F&MP	1.3	18.0	33.7	47.0	7.9	12310	12470	1930	1960	2000	2070	57	6
2640-61	Nut 1 1/2 x 3/4	T	F&MP	3.0	15.9	30.1	51.0	6.8	12260	12630	1890	1930	1950	2000	68	6 1/2
2575-61	N/S 2 x 0	D	DND	3.9	15.7	30.0	50.4	8.0	12040	12530						
2685-61	N/S 2 x 0	D	DND	1.2	18.2	30.2	50.4	7.2	12100	12250						
2648-61	Slack - 1 1/2	T	F&MP	1.0	24.1	30.6	44.3	7.7	11300	11410	1910	1950	2040	2110	65	6
2643-61	Slack - 1 1/4	T	F&MP	1.5	35.6	26.1	36.8	5.8	9360	9500	1950	2160	2250	2360	65	4 1/2
2645-61	Slack - 1 1/4	T	F&MP	1.4	33.7	27.0	37.9	6.2	9540	9680	1950	2170	2250	2290	66	5
2641-61	Slack - 3/4	T	F&MP	1.9	17.4	30.3	50.4	9.4	11930	12160	2000	2050	2100	2220	78	7

AREA Minto Coal Field (Chipman)

OPERATOR Lafferty Bros.

3071-61	Special	CH	F&MP	1.2	16.9	33.7	48.2	6.5	12450	12600						
3072-61	Special	CH	F&MP	1.2	18.3	32.4	48.1	8.0	12240	12390						
2016-61	N/S 1 1/2 x 0	D	DND	1.0	11.7	38.2	49.1	8.0	13370	13510						
2056-61	N/S 1 1/2 x 0	D	DND	2.8	20.0	32.0	45.2	10.4	11740	12080						
2088-61	N/S 1 1/2 x 0	D	DND	4.3	22.6	29.6	43.5	12.5	10840	11320						
2197-61	N/S 1 1/2 x 0	D	DND	2.4	16.2	33.8	47.6	9.0	12240	12540						
2211-61	N/S 1 1/2 x 0	D	DND	2.3	14.5	34.6	48.6	8.7	12670	12970						
2260-61	N/S 1 1/2 x 0	D	DND	4.5	22.5	29.7	43.3	12.1	10840	11350						
2296-61	N/S 1 1/2 x 0	D	DND	3.6	21.4	31.4	43.6	10.2	11370	11800						
2326-61	N/S 1 1/2 x 0	D	DND	5.5	18.9	31.1	44.5	10.2	11120	11760						
2354-61	N/S 1 1/2 x 0	D	DND	2.4	19.8	31.6	46.2	10.9	11680	11970						
2402-61	N/S 1 1/2 x 0	D	DND	2.9	21.6	31.4	44.1	12.4	11300	11650						
2426-61	N/S 1 1/2 x 0	D	DND	2.9	27.3	28.7	41.1	13.0	10190	10490						

PROVINCE New Brunswick

AREA Minto Coal Field (Chipman)

OPERATOR Lafferty Bros.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2457-61	N/S 1 x 0	D	DND	1.5	19.0	32.5	47.0	11.5	11960	12130						
2486-61	N/S 1 x 0	D	DND	2.0	25.4	30.2	42.4	15.4	10580	10800						
2703-61	N/S 1 x 0	D	DND	1.2	18.5	32.8	47.5	10.4	11890	12040						
2757-61	N/S 1 x 0	D	DND	1.6	16.0	33.1	49.3	7.7	12430	12630						
2804-61	N/S 1 x 0	D	DND	1.6	15.2	32.5	50.7	6.9	12610	12810						
2864-61	N/S 1 x 0	D	DND	1.3	21.8	31.8	45.1	12.1	11340	11480						
2897-61	N/S 1 x 0	D	DND	2.0	21.1	29.8	47.1	9.1	11510	11780						
3036-61	N/S 1 x 0	D	DND	1.3	15.2	33.8	49.7	8.2	12570	12740						
3069-61	N/S 1 x 0	D	DND	1.3	18.0	32.5	48.2	7.5	12260	12420						
3070-61	N/S 1 x 0	D	DND	1.1	18.8	32.1	47.7	8.9	12120	12290						
3119-61	N/S 1 x 0	D	DND	1.0	19.1	30.9	49.0	7.8	11980	12090						
3120-61	N/S 1 x 0	D	DND	0.8	19.5	32.6	47.1	8.3	12020	12120						
306-61	Mine Run	D	F&MP	2.1	19.6	30.8	47.5	8.4	11590	11840						
OPERATOR Wasson, A.W., Ltd.																
2653-61	Lump + 1 1/4	T	F&MP	2.5	25.8	27.3	44.4	7.4	10630	10910	1920	1970	1990	2020	69	6 - 6 1/2
2654-61	Slack - 1 1/4	T	F&MP	1.5	26.2	28.2	44.1	7.6	10640	10800	1920	2000	2070	2340		6
OPERATOR Aven Coal Co., Ltd.																
2630-61	Lump + 2 1/2	W	F&MP	3.4	20.9	29.4	46.3	8.6	11260	11660	1920	1990	2040	2130		5 - 5 1/2
2631-61	Lump 2 1/2 x 3/4	T	F&MP	2.6	15.2	32.0	50.2	7.2	12370	12700	1920	2000	2050	2110	62	7
2632-61	W Slack - 3/4	T	F&MP	3.5	16.3	31.8	48.4	8.4	12040	12470	1940	1980	2050	2130	62	6 1/2 - 7
2633-61	Fines - 1/4	T	F&MP	4.8	17.4	30.7	47.1	7.6	11490	12070	2000	2300	2500	2570	74	7
OPERATOR McManis, V.C., Ltd.																
2636-61	Lump + 1 1/4	T	F&MP	1.0	15.8	34.1	49.1	7.2	12720	12850	1940	2000	2050	2160	60	6 1/2
2637-61	Slack 1 1/4 x 5/8	T	F&MP	1.4	18.0	32.5	48.1	6.6	12330	12500	1940	2010	2050	2160	60	5
2638-61	Slack - 5/8	T	F&MP	1.5	21.9	31.4	45.2	6.5	11620	11790	1960	2030	2070	2150	77	6
OPERATOR Michiels Ltd.																
2655-61	Run of Mine	D	NDEPC	1.3	18.2	31.8	48.8	8.0	12220	12380	1940	2000	2040	2100		6 - 6 1/2
OPERATOR Swift, Norman L., Ltd.																
2656-61	Run of Mine	D	NDEPC	2.8	20.1	33.2	43.9	7.6	11570	11900	1900	1950	1980	2020		5 1/2
OPERATOR Mills, D.W. & R.A., Ltd.																
2095-61	P/S 1 1/2 x 1/2	D	DND	2.3	17.3	31.8	48.6	6.7	12210	12490						
213-61	P/S 1 1/4 x 1/8	D	DND	3.0	15.4	32.8	48.8	6.9	12340	12720	1900	1940	2000	2040		
3067-61	P/S 1 x 1/8	D	DND	1.0	14.1	34.2	51.7	7.4	13050	13180						
OPERATOR Newcastle Coal Co., Ltd.																
2627-61	Lump + 1 1/4 sq	T	F&MP	2.0	19.2	30.0	48.8	7.2	11810	12060	1850	1970	1980	2090	62	5
2628-61	Net	T	F&MP	2.1	19.9	30.1	47.3	6.1	11720	12000	1940	2000	2050	2140	62	5 1/2 - 6
2629-61	Slack	T	F&MP	1.3	25.1	29.3	44.2	6.5	11050	11190	1860	2000	2040	2190	65	5 - 5 1/2
OPERATOR Dufferin Mining Ltd.																
2634-61	Lump + 1	T	F&MP	1.7	17.0	33.0	48.3	6.4	12190	12400	1840	1950	1980	2050		5 1/2
2635-61	Slack - 1	T	F&MP	1.9	21.5	31.6	45.5	6.6	11610	11780	1900	1950	2010	2050	63	5
AREA Minto Coal Field (General) OPERATOR Not Designated																
2126-61	N/D	D	SLR	1.2	16.7	31.9	50.2	6.3	12490	12640						
3127-61	N/D	D	SLR	1.2	16.7	31.0	51.1	6.5	12440	12500						
2285-61	N/D	D	SLR	1.6	15.0	33.1	50.3	6.0	12780	12990						
2286-61	N/D	D	SLR	1.3	17.5	31.7	49.5	6.5	12380	12510						
2400-61	N/D	D	SLR	0.9	10.7	36.7	51.7	5.4	13490	13620						
2401-61	N/D	D	SLR	1.3	11.1	34.3	53.3	4.8	13430	13600						
2487-61	N/D	D	SLR	1.0	15.6	33.8	49.6	7.0	12770	12900						

PROVINCE Saskatchewan

AREA Souris Valley District - Bienfait

OPERATOR Manitoba & Saskatchewan Coal Co., Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature *F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2952-61	Cobble 6 x 4 rd	T	F&MP	36.9	4.7	26.2	32.2	0.1	7330	11600						
2953-61	Egg 4 rd x 2sq	T	F&MP	34.9	5.1	27.5	32.5	0.1	7460	11450						
2954-61	Booker 2 x 1 1/2 sq	T	F&MP	34.0	5.7	27.8	32.5	0.2	7450	11280					59	
2955-61	Pea 1 1/2 x 1/2 sq	T	F&MP	35.2	5.9	27.7	31.2	0.1	7270	11210					61	
2491-61	Stoker 1 x 1/2 x 1/2	D	DND	36.0	6.3	26.1	31.6	0.5	7300	11410						
2306-61	Stoker 1 x 1/2 x 1/2	D	DND	34.3	6.3	26.9	32.5	0.4	7460	11350						
2423-61	Stoker 1 x 1/2 x 1/2	D	DND	30.3	6.8	27.9	35.0	0.4	8150	11680						
2738-61	Stoker 1 x 1/2 x 1/2	D	DND	31.3	7.1	28.9	32.7	0.5	7740	11250						
2956-61	Bug Dust - 1/2	T	F&MP	37.5	9.9	25.2	30.4	0.4	6970	11150						

OPERATOR North West Coal Co., Ltd.

2957-61	Booker 2 x 1 sq	T	F&MP	36.1	6.7	27.5	29.7	0.3	7130	11150					66	
2958-61	Pea 1 x 1/2 sq	T	F&MP	35.4	7.1	29.1	28.4	0.4	7210	11160					63	
2959-61	Bug Dust - 1/2 sq	T	F&MP	36.9	8.8	26.1	28.2	0.8	6740	10670						

AREA Souris Valley District - Estevan, Roche Percée

OPERATOR Great West Coal Co., Ltd.

2298-61	P/S 1 x 2	D	DND	34.0	7.3	28.6	30.1	0.6	7450	11280						
2378-61	P/S 1 x 1 1/2	D	DND	30.0	6.7	29.3	34.0	0.5	7930	11320						
2048-61	P/S 1 x 1 1/2	D	DND	36.8	6.6	27.8	28.8	0.5	7380	11670						
2061-61	P/S 1 x 1 1/2	D	DND	32.4	7.1	27.8	32.7	0.6	7660	11330						
2092-61	P/S 1 x 1 1/2	D	DND	35.8	7.1	25.3	31.8	0.8	7180	11180						
2093-61	P/S 1 x 1 1/2	D	DND	37.7	7.0	24.0	31.3	0.6	6880	11040						
2140-61	P/S 1 x 1 1/2	D	DND	35.3	6.1	24.8	33.8	0.4	7400	11440						
2169-61	P/S 1 x 1 1/2	D	Justice	34.1	7.0	26.0	31.9	0.6	7230	11140						
2172-61	P/S 1 x 1 1/2	D	DND	34.8	6.6	26.3	32.3	0.6	7360	11290						
2210-61	P/S 1 x 1 1/2	D	Justice	32.9	7.2	30.0	29.9	0.6	7460	11120						
2218-61	P/S 1 x 1 1/2	D	DND	34.4	7.1	26.6	31.9	0.6	7490	11420						
2237-61	P/S 1 x 1 1/2	D	DND	34.2	7.0	27.9	30.9	0.6	7500	11410						
2266-61	P/S 1 x 1 1/2	D	DND	33.0	7.1	26.1	33.8	0.5	7620	11370						
2310-61	P/S 1 x 1 1/2	D	Justice	33.4	6.8	27.4	32.4	0.5	7180	10770						
2311-61	P/S 1 x 1 1/2	D	DND	31.2	6.4	28.6	33.8	0.4	7500	10980						
2324-61	P/S 1 x 1 1/2	D	DND	32.4	7.4	28.4	31.8	0.6	7540	11150						
2325-61	P/S 1 x 1 1/2	D	DND	32.6	6.4	34.0	27.0	0.5	7740	11470						
2377-61	P/S 1 x 1 1/2	D	DND	33.6	6.1	27.9	32.4	0.4	7430	11190						
2483-61	P/S 1 x 1 1/2	D	DND	30.6	6.9	28.8	33.7	0.8	7730	11150	1910	2100	2169	2200		
2734-61	P/S 1 x 1 1/2	D	DND	32.5	6.4	27.5	33.6	0.5	7780	11520						
2771-61	P/S 1 x 1 1/2	D	DND	34.3	7.2	27.5	31.0	0.6	7010	11590						
2515-61	N/S 1 1/4 x 0	D	Justice	26.6	8.8	29.5	35.1	0.6	8170	11140						
2713-61	N/S 1 1/4 x 0	D	Justice	31.2	6.8	31.1	30.9	0.4	7510	10900						
2960-61	Cobble 4 x 4 sq	T	F&MP	37.7	4.7	25.8	31.8	0.2	7230	11600						
2961-61	Slove 4 x 2 sq	T	F&MP	39.2	5.2	25.4	30.2	0.2	6900	11350						
2962-61	Stoker 2 x 1/2 sq	T	F&MP	36.6	5.4	25.3	32.7	0.3	7170	11300						59
2788-61	N/S 2 x 0	T	GWC	36.8	5.9	32.5	24.8	0.4	7070	11180						
2807-61	N/S 2 x 0	T	GWC	36.0	6.0	26.4	31.6	0.7	7050	11000						
2840-61	N/S 2 x 0	T	GWC	35.6	6.3	26.1	32.0	0.8	7010	10890						
2832-61	N/S 1 1/4 x 0	D	Justice	32.0	7.4	26.6	34.0	1.1	7690	11300						
2866-61	N/S 1 1/4 x 0	D	Justice	30.2	7.4	28.2	34.2	0.6	7920	11330						
3056-61	N/S 1 1/4 x 0	D	Justice	34.7	7.2	26.1	32.0	0.8	7340	11240						
2812-61	P/S 1 x 1 1/2	D	DND	30.3	7.8	26.0	35.0	0.9	8090	11600						
2847-61	P/S 1 x 1 1/2	D	DND	29.5	9.1	27.4	34.0	0.8	7860	11150						
2871-61	P/S 1 x 1 1/2	D	DND	30.5	7.5	28.0	34.0	0.8	7930	11410						
2895-61	P/S 1 x 1 1/2	D	DND	34.7	7.0	25.3	33.0	0.6	7500	11480						
2965-61	P/S 1 x 1 1/2	D	DND	33.4	7.4	20.2	33.0	0.5	7320	11000						
3061-61	P/S 1 x 1 1/2	D	DND	33.6	7.2	25.8	33.4	0.8	7610	11470						
3001-61	P/S 1 x 1 1/2	D	DND	34.1	6.6	25.9	33.4	0.6	7520	11410						
3113-61	P/S 1 x 1 1/2	D	DND	35.6	7.0	25.7	31.7	0.4	7260	11270						
3131-61	P/S 1 x 1 1/2	D	Justice	34.0	7.2	26.0	32.6	0.5	7470	11320						
2963-61	Bug Dust - 1/2	T	F&MP	36.8	6.5	26.0	30.7	0.3	7100	11230						

PROVINCE Alberta

AREA Cascade

OPERATOR Canmore Mines Ltd.

3096-61	Cobble 2 1/2 x 5sq	T	F&MP	2.7	7.1	13.2	77.0	0.6	14020	14420						
3097-61	Slove 2 1/2 x 1/4	T	F&MP	2.6	9.0	13.6	74.8	0.6	13750	14110						
3098-61	Chestnut 2 x 1 1/4	T	F&MP	3.1	9.7	12.9	74.3	0.7	13400	13830					73	1
2846-61	P/S 2 x 1/8	D	DND	1.6	9.9	13.5	75.0	0.9	13650	13870						
2889-61	P/S 2 x 1/8	D	DND	1.3	9.9	14.8	74.0	0.9	13660	13840						
2765-61	Stoker 1 1/2 x 1/4	D	DND	2.2	10.4	14.1	73.3	1.0	13630	13930						

PROVINCE Alberta

AREA Cascade

OPERATOR Canmore Mines Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Fardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2057-61	Stoker 1 1/4 x 1/4	D	DND	0.5	10.2	13.5	75.8	1.0	13710	13770						
2708-61	Stoker 1 1/4 x 1 1/4	D	NH&W	1.8	12.1	14.6	71.5	0.9	13370	13620						
2717-61	Stoker 1 1/4 x 1 1/4	D	NH&W	2.0	9.1	12.3	76.6	0.6	13710	13980						
2719-61	Stoker 1 1/4 x 1 1/4	D	NH&W	1.7	7.1	14.0	77.2	0.9	14090	14240						
2724-61	Stoker 1 1/4 x 1 1/4	D	NH&W	1.7	9.1	14.7	74.2	0.9	13780	14010						
2737-61	Stoker 1 1/4 x 1 1/4	D	NH&W	1.9	14.5	13.6	70.0	0.6	12930	13190						
2759-61	Stoker 1 1/4 x 1 1/4	D	NH&W	1.2	5.8	13.4	79.6	0.9	14640	14820						
2785-61	Stoker 1 1/4 x 1 1/4	D	NH&W	1.4	7.0	15.1	76.5	1.1	14300	14390						
2934-61	Stoker 1 1/4 x 1 1/4	D	NH&W	1.2	7.6	16.2	75.0	0.8	14270	14440						
3099-61	Stoker 1 1/4 x 1 1/4	T	F&MP	3.8	6.8	13.2	76.2	0.6	13920	14470					90	1 1/2
2190-61	Stoker 3/4 x 3/16	D	DND	5.6	10.8	12.2	71.4	0.6	12920	13690						
3100-61	Buck 3/16 x 1/2	T	F&MP	6.1	8.0	12.0	73.9	0.7	13420	14290	2680	2750	+	+	82	1
3101-61	Stack - 3/16	T	F&MP	4.2	6.2	12.9	76.7	0.8	14080	14690					89	2
2290-61	Stoker	D	DND	5.2	7.4	14.8	72.6	0.7	13440	14190						
2710-61	Stoker	D	Comm	2.4	14.5	12.8	70.3									

AREA Crownsnest

OPERATOR Coleman Collieries Ltd.

3107-61	Export Coal	T	F&MP	2.2	7.5	22.3	68.0	0.6	14110	14430						102	0
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OPERATOR West Canadian Collieries Ltd.

2029-61	P/S 1 1/4 x 1/4	D	NH&W	2.2	13.9	28.1	55.8	0.6	12890	13180						
2092-61	P/S 1 1/4 x 1/4	D	NH&W	2.5	12.4	27.1	58.0	0.7	12830	13150						
2091-61	P/S 1 1/4 x 1/4	D	NH&W	2.5	15.0	26.4	56.1	1.3	12650	12980						
2135-61	P/S 1 1/4 x 1/4	D	NH&W	1.6	12.3	28.2	57.9	0.8	13070	13280						
2560-61	N/D	Spec	F&MP	1.1	14.2	22.1	62.6	0.5	12940	13080	2750+	+	+	+		3 1/2
2596-61	N/D	Spec	F&MP	1.1	18.5	2.3	78.1	0.4								
2499-61	+2	Spec	F&MP	1.2	6.8	24.9	67.1	0.3	14330	14500						9
2500-61	+1	Spec	F&MP	1.1	13.1	25.0	60.8	0.5	13220	13360						8
2501-61	+5/8	Spec	F&MP	1.0	12.3	23.0	63.7	0.4	13430	13570						7 1/2
2502-61	+1/4	Spec	F&MP	0.9	16.8	21.7	60.6	0.3	12550	12670						3
2503-61	+1/8	Spec	F&MP	0.9	16.2	21.8	61.1	0.4	12590	12700						2 1/2
2504-61	+20 M	Spec	F&MP	1.0	16.8	20.7	61.5	0.4	12470	12600						2
2505-61	+48 M	Spec	F&MP	1.1	16.2	20.7	62.0	0.1	12470	12600						2
2506-61	-200 M	Spec	F&MP	1.0	17.4	20.3	61.3	0.3	12370	12500						1
2507-61	-200 M	Spec	F&MP	1.1	18.6	20.8	59.5	0.3	12050	12180						1

AREA Lethbridge

OPERATOR Lethbridge Collieries Ltd., Mine 1263

2034-61	Lump + 4 1/2	T	F&MP	10.7	11.0	33.5	44.8	0.6	10620	11890	2350	2400	2460	2510		
2035-61	Stove 4 1/2 x 2 rd	T	F&MP	10.4	10.6	33.9	45.1	0.6	10760	11910	2220	2300	2370	2490		
2036-61	Stoker 1 1/4 x 3/4 rd	T	F&MP	10.9	14.1	32.2	42.8	0.6	10120	11360	2250	2400	2440	2550	41	
2800-61	Stoker 1 x 1/4	Spec	F&MP	6.8	10.2	38.5	44.5	0.7	11170	11990						
2037-61	Stack - 3/4 rd	T	F&MP	11.8	15.2	31.2	41.8	0.6	9800	11110	2180	2320	2400	2470	15	

AREA Pembina

OPERATOR Alberta Coal Ltd., Mine 419

3102-61	Lump 4 rd	T	F&MP	21.9	8.5	28.3	41.3	0.2	8630	11060						
3103-61	Egg 4 x 2 rd	T	F&MP	22.1	8.1	29.3	40.2	0.2	8640	11110						
3104-61	Nut 2 x 1 1/2 rd	T	F&MP	22.3	7.8	29.6	40.3	0.2	8710	11210						
3105-61	Stoker 1 1/2 x 7/16 rd	T	F&MP	22.3	8.8	29.3	39.6	0.2	8570	11010						
3106-61	Stack - 7/16 rd	T	F&MP	23.3	10.1	28.0	38.6	0.1	8330	10870					49	

PROVINCE British Columbia

AREA Vancouver Island (T'Sable River)

OPERATOR Comox Mining Co., Ltd.

2755-61	Nut 1 1/2 x 7/8	T	F&MP	2.0	12.8	32.2	53.0	1.2	12710	12980					59	7 1/2
2072-61	P/S 1 x 1 1/4	D	DND	0.8	12.1	32.5	54.6	1.2	13250	13350						
2188-61	P/S 1 x 1/4	D	DND	2.7	11.4	31.8	54.1	1.1	13030	13380						
2303-61	P/S 1 x 1/4	D	DND	1.3	10.7	31.9	56.1	1.0	13230	13400						
2340-61	P/S 1 x 1/4	D	DND	1.5	14.8	31.6	52.1	1.3	12640	12830						
2431-61	P/S 1 x 1/4	D	DND	1.7	13.9	31.7	52.7	1.5	12780	13000						
2490-61	P/S 1 x 1/4	D	DND	1.6	11.1	32.1	55.2	1.0	13190	13410						
2692-61	P/S 1 x 1/4	D	DND	1.7	11.5	32.3	54.5	1.0	13010	13210						
2702-61	P/S 1 x 1/4	D	DND	1.7	10.2	31.9	56.2	1.0	13120	13350						
2732-61	P/S 1 x 1/4	D	DND	1.7	11.3	32.6	54.4	1.0	13050	13280						
2779-61	P/S 1 x 1/4	D	DND	1.7	11.5	32.9	53.9	1.8	13110	13340						
2783-61	P/S 1 x 1/4	D	DND	2.4	15.5	28.2	53.9	1.1	12440	12750						
2841-61	P/S 1 x 1/4	D	DND	1.5	9.6	32.7	56.2	1.1	13490	13700						
2873-61	P/S 1 x 1/4	D	DND	1.1	14.7	32.3	51.9	2.2	12760	12890						
2967-61	P/S 1 x 1/4	D	DND	1.1	11.1	32.4	55.4	1.4	13220	13360						
3130-61	P/S 1 x 1/4	D	DND	1.1	14.4	32.1	52.4	1.2	12700	12840						
2756-61	Stoker 7/8 x 3/16	T	F&MP	2.2	13.2	31.5	53.1	1.1	12710	12990					49	7

PROVINCE British Columbia

AREA East Knotenay

OPERATOR Crow's Nest Pass Coal Co.
Michel, Baldy Strip Mines, Balmer Seam

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
3044-61	Cobble 7 rd x 1 5/8	T	F&MP	5.3	10.6	22.4	61.7	0.5	13030	13760	2190	2250	2340	2420		7 1/2
2239-61	Sc/S 2 x 1	P&C	F&MP	0.5	17.9	16.7	64.9									
2253-61	Comp + 2	P&C	F&MP	0.5	17.2	16.5	65.8	0.2	12800	12870	2750+	+	+	+		3
2254-61	Comp 2 x 1/2	P&C	F&MP	0.5	17.9	17.0	64.6	0.4	12640	12700	2750+	+	+	+		3
3047-61	N/S 2 x 0	T	F&MP	4.6	9.0	23.0	63.4	0.5	13560	14220	2690	2750	+	+		8 1/2
3045-11	Stoker 1 5/8 x 3/8	T	F&MP	7.3	6.8	21.8	64.1	0.5	13360	14410	2280	2360	2440	2660		8
2240-61	Sc/S	T	F&MP	0.5	16.6	16.6	66.3									
2003-61	Balmer + 1 1/4	P&C	F&MP	2.9	5.1	36.4	55.6	1.7	14010	14430	2000	2070	2230	2390		
2241-61	Sc/S 1 1/4x1	P&C	F&MP	0.4	19.1	16.4	64.1									
2242-61	Sc/S 1 x 3/4	P&C	F&MP	0.4	20.0	16.5	63.1									
2243-61	Sc/S 3/4x 1/2	P&C	F&MP	0.5	22.1	16.1	61.3									
2244-61	Sc/S 1/2 x 3/8	P&C	F&MP	0.4	19.6	16.3	63.7									
2255-61	Comp 1/2 x 1/4	P&C	F&MP	0.5	16.7	16.8	66.0	0.3	12960	13020	2620	2670	2700	2750+		3 1/2
2245-61	Sc/S 3/8x1/4	P&C	F&MP	0.5	21.0	16.6	61.9									
3046-61	Stoker 3/8x1/4	T	F&MP	3.8	10.3	22.3	63.6	0.4	13440	13970	2540	2750+	+	+		8 1/2
2039-61	Balmer + 1/4	T	F&MP	0.6	14.7	17.8	66.9									
2256-61	Comp 1/4x48M	P&C	F&MP	0.5	11.4	17.8	70.3	0.4	13920	13990	2750+	+	+	+		8
2257-61	Comp 48Mx0	P&C	F&MP	0.5	12.7	18.3	68.5	0.5	13660	12720	2400	2640	2680	2700		8 1/2
2802-61	Balmer - 1/4	P&C	F&MP	0.4	9.3	18.9	71.4	0.2	14210	14270						8 - 8 1/2
2937-61	Balmer - 1/4	T	F&MP	0.7	10.7	18.4	70.2									8 1/2
2939-61	A North - 1/4	T	F&MP	1.0	14.1	24.2	60.7									8 1/2
2940-61	Baldy Strip 1 x 1/4	T	F&MP	4.1	9.3	20.4	66.2									
3048-61	Fines - 1/4	T	F&MP	4.8	10.2	23.4	61.6	0.5	13270	13940	2750	+	+	+		0
2246-61	Sc/S 1/4 x 1/8	P&C	F&MP	0.6	16.0	17.1	66.3									
2247-61	Sc/S 1/8 x 1/16	P&C	F&MP	0.5	13.5	17.8	68.2									
2248-61	Sc/S 1/16x1/4M	P&C	F&MP	0.5	9.2	18.5	71.8									
2249-61	Sc/S 14M x28M	P&C	F&MP	0.5	12.3	18.1	69.1									
2250-61	Sc/S 28M x48M	P&C	F&MP	0.6	11.6	18.0	69.8									
2251-61	Sc/S 48M x 100	P&C	F&MP	0.7	11.5	18.2	59.6									
2252-61	Sc/S 100M x 0	P&C	F&MP	0.7	12.9	18.6	67.8									
2004-61	Baldy Strip #1	T	F&MP	1.6	14.7	18.9	64.8	0.3	12580	12790						
2023-61	Michel A West	T	F&MP	0.8	9.1	23.7	66.4	0.5	14110	14220						
2024-61	Michel #10 Seam	T	F&MP	2.1	12.5	18.3	67.1	0.4	13670	13950						
2184-61	Channel 1 A	T	F&MP	0.8	39.7	13.5	46.0	0.6	8750	8620						
2185-61	Channel 2	T	F&MP	0.4	24.1	16.8	58.7	0.2	11370	11420	2690	2750+	+	+		79
2186-61	Channel 9	T	F&MP	0.3	10.0	18.1	71.6	0.2	14160	14210	2750+	+	+	+		85
2187-61	Channel 10	T	F&MP	0.5	8.6	18.8	72.1	0.3	14290	14360	2750+	+	+	+		96
2195-61	Channel 1	T	F&MP	0.4	17.6	16.3	65.7	0.4	12800	12850	2750+	+	+	+		113
2196-61	Channel 2 A	T	F&MP	0.5	17.9	16.8	64.8	0.3	12690	12750	2750+	+	+	+		109
2203-61	Channel 3	T	F&MP	0.5	14.2	17.8	67.5	0.3	13310	13380	2610	2750 +	+	+		77
2204-61	Channel 4	T	F&MP	0.5	12.3	17.7	69.5	0.3	13700	13770	2490	2650	2700	2750+		83
2205-61	Channel 5	T	F&MP	0.4	12.1	18.8	68.7	0.3	13650	13710	2690	2750 +	+	+		91
2209-61	Channel 6	T	F&MP	0.6	8.6	18.0	72.8	0.1	14350	14430	2750+	+	+	+		89
2207-61	Channel 7	T	F&MP	0.5	6.3	18.4	74.8	0.2	14720	14890	2498	2670	2700	2760		91
2208-61	Channel 8	T	F&MP	0.5	13.2	17.2	69.1	0.2	13450	13610	2750+	+	+	+		83
2209-81	Channel 11	T	F&MP	0.5	17.5	16.0	66.0	0.3	12730	12800	2750+	+	+	+		3
2801-61	Export Coal	T	F&MP	0.5	9.3	24.6	65.6	0.8	13980	14050						1 1/2

Bituminous

STATE Pennsylvania

MINE OR TRADE NAME

Devon Mine

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index, Fardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2110-61	Slack 1 1/4x0	D	DVA	5.7	8.6	33.6	52.1	1.2	12770	13540						
2407-61	Slack 1 1/4x0	D	DVA	6.9	9.5	30.1	53.5	1.0	12400	13320						
2677-61	Slack 1 1/4x0	D	DVA	9.2	11.2	30.8	48.8	1.4	11370	12520						
MINE OR TRADE NAME Dell # 3 Mine, Butler County																
2030-61	P/S 2 x 1/8	D	DND	4.9	8.4	36.2	50.5	2.2	12830	13490						
2058-61	P/S 2 x 1/8	D	DND	5.4	9.9	34.3	50.5	2.5	12470	13170						
2103-61	P/S 2 x 1/8	D	DND	4.5	8.2	35.5	51.0	2.5	12820	13410						
2161-61	P/S 2 x 1/8	D	DND	4.9	8.1	35.2	51.8	2.3	12950	13620						
2295-61	P/S 2 x 1/8	D	DND	5.0	9.9	34.2	50.9	2.2	12450	13110						
2352-61	P/S 2 x 1/8	D	DND	6.1	8.1	34.8	51.0	2.0	12670	13480						
2442-61	P/S 2 x 1/8	D	DND	5.4	7.9	36.1	50.6	2.0	13000	13740						
2494-61	P/S 2 x 1/8	D	DND	4.4	9.0	35.6	51.0	2.2	12840	13440						
2894-61	P/S 2 x 1/8	D	DND	2.8	6.8	39.8	50.0	2.4	13730	14130						
3041-61	P/S 2 x 1/8	D	DND	3.8	7.1	35.5	53.6	1.1	13140	13650						
3042-61	P/S 2 x 1/8	D	DND	4.3	7.3	36.3	52.1	1.6	12990	13570						
3687-61	P/S 2 x 1/8	D	DND	4.7	8.2	36.4	50.7	2.3	12970	13620						
3140-61	P/S 2 x 1/8	D	DND	3.6	9.3	36.0	51.1	2.6	12830	13310						
2176-61	P/S 1 x 1/2	D	DND	3.7	8.3	35.8	52.2	2.0	13290	13800						
2329-61	P/S 1 x 1/2	D	DND	4.4	7.4	36.5	51.7	2.1	13200	13810						
2486-61	P/S 1 x 1/2	D	DND	3.1	8.2	36.7	52.0	1.5	13280	13700						
MINE OR TRADE NAME Kenbrook Mine, Slego, Clarion County																
2541-61	Prep Stoker	D	DND	4.0	11.5	30.9	53.6	1.9	12910	13440						
2542-61	Prep Stoker	D	DND	5.3	10.6	31.3	52.8	1.9	12790	13510						
2557-61	Prep Stoker	D	DND	2.2	16.0	32.0	49.8	2.4	12490	12770						
2558-61	Prep Stoker	D	DND	1.9	12.6	33.3	52.2	2.9	13110	13360						
2590-61	Prep Stoker	D	DND	1.9	10.3	33.8	54.0	2.1	13390	13640						
2581-61	Prep Stoker	D	DND	2.0	9.6	33.8	54.6	2.0	13400	13670						
2620-61	Prep Stoker	D	DND	2.5	16.6	32.3	48.7	5.8	12900	12300						
2621-61	Prep Stoker	D	DND	2.7	10.5	33.0	53.8	2.3	13140	13510						
2623-61	Prep Stoker	D	DND	4.5	10.9	31.9	52.7	2.0	12600	13290						
2624-61	Prep Stoker	D	DND	6.6	10.7	31.2	51.5	1.9	12270	13140						
2682-61	Prep Stoker	D	DND	2.9	8.7	33.4	54.0	1.3	13100	13500						
2683-61	Prep Stoker	D	DND	5.8	9.7	31.3	53.2	1.3	12410	13170						
2686-61	Prep Stoker	D	DND	3.2	9.6	32.6	54.6	1.0	13180	13620						
2689-61	Prep Stoker	D	DND	3.7	11.1	32.3	52.9	1.5	12770	13260						
2696-61	Prep Stoker	D	DND	2.5	11.1	31.4	55.0	1.6	13120	13460						
2897-61	Prep Stoker	D	DND	2.6	12.2	31.4	53.8	1.5	12840	13180						
2711-61	Prep Stoker	D	DND	9.5	9.4	30.0	51.1	1.0	11920	13160						
2712-61	Prep Stoker	D	DND	10.3	9.2	29.9	50.6	1.2	11740	13090						
2743-61	Prep Stoker	D	DND	2.2	12.0	37.0	48.8	3.7	12990	13270						
2744-61	Prep Stoker	D	DND	2.1	12.9	36.3	48.7	3.7	12820	13100						
2799-61	Prep Stoker	D	DND	1.7	12.4	37.6	48.3	2.5	13010	13240						
2799-61	Prep Stoker	D	DND	1.7	14.0	36.8	47.5	3.8	12640	12860						
MINE OR TRADE NAME Unesco, Reynoldsville																
2433-61	P/S 2 x 1/8	D	DND	5.2	8.9	33.0	52.9	1.7	12940	13640						
2459-61	P/S 2 x 1/8	D	DND	1.7	9.2	36.2	52.9	2.3	13630	13870						
2473-61	P/S 2 x 1/8	D	DND	3.5	10.7	32.5	53.3	2.2	13120	13590						
2474-61	P/S 2 x 1/8	D	DND	4.9	10.0	35.0	50.1	2.5	13170	13850						
2475-61	P/S 2 x 1/8	D	DND	4.6	11.9	30.7	52.8	2.5	12470	13070						
MINE OR TRADE NAME Confor Mine																
2563-61	N/S 2 x 0	T	F&MP	3.2	10.3	34.8	51.7	3.7	13960	13490	2000	2270	2390	2540		
MINE OR TRADE NAME Logan, Slego, Clarion County.																
2852-61	N/S 1 1/4 x 0	D	DVA	3.1	8.2	33.3	55.4	1.8	13560	14000						
MINE OR TRADE NAME Mac #2 Mine, Clarion County																
2839-61	P/S 2 x 1/8	D	DND	1.6	12.8	37.4	48.2	4.1	12970	13170						
3144-61	P/S 2 x 1/8	D	DND	1.4	10.9	38.2	49.5	4.2	13180	13370						
MINE OR TRADE NAME Weaburn, Upper Freeport, Falls Creek																
2042-61	N/S 1 1/4 x 0	D	DND	5.0	17.3	27.5	50.2	1.0	11220	11810						
2131-61	N/S 1 1/4 x 0	D	DND	3.5	17.7	29.5	49.3	1.9	11460	11870						
2181-61	N/S 1 1/4 x 0	D	DND	5.7	16.2	29.5	49.6	2.4	11340	12030						
2305-61	N/S 1 1/4 x 0	D	DND	6.4	12.3	31.8	50.5	2.2	12290	12990						
2380-61	N/S 1 1/4 x 0	D	DND	4.6	11.4	34.6	49.4	3.2	12810	13420						
2416-61	N/S 1 1/4 x 0	D	DND	3.7	9.5	36.5	50.3	3.0	13300	13800						

Bituminous

STATE West Virginia

MINE OR TRADE NAME Compass Mine

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature °F				Grindability Index Hardgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
3138-61	2 x 1	D	Justice	1.0	8.2	39.8	51.0	3.4	13880	14020						
3139-61	2 x 1	D	Justice	1.0	8.5	39.5	51.0	3.2	13860	14000						
3066-61	P/S 1 1/4 x 5/8	D	DND	1.7	7.5	38.8	52.0	2.8	13820	14050						
MINE OR TRADE NAME										Federal, Granttown						
3126-61	P/S 1 1/4 x 1/4	D	DND	1.3	6.8	38.9	53.0	2.1	13990	14180						
2579-61	P/S 1 1/4 x 1/4	D	DND	0.9	8.0	39.4	51.7	3.1	13690	13820						
2784-61	P/S 1 1/4 x 1/4	D	DND	1.4	10.0	38.5	50.1	3.5	13470	13660						
2069-61	P/S 1 1/4 x 1/4	D	DND	1.4	10.1	37.5	51.0	6.4	13250	13440						
3136-61	P/S 1 1/4 x 1/4	D	DND	1.2	8.2	38.4	52.2	3.0	13920	14090						
2013-61	P/S 1 1/4 x 3/4	D	CIB	6.3	5.5	38.8	49.4	2.6	13530	14430						
2835-61	P/S 1 1/4 x 1/8	D	DND	1.0	10.2	38.1	50.7	3.3	13550	13690						
2562-61	P/S 1 1/4 x 1/8	D	DND	1.3	8.5	38.1	52.1	2.6	13810	14000						
MINE OR TRADE NAME										O'Donnell Mine - Four States - Marion County						
2553-61	Stoker 1 1/2 x 3/4	D	Justice	2.3	6.5	40.2	51.0	0.8	13900	14230	2200	2590	2650	2700		
3116-61	Stoker 1 1/2 x 3/4	D	Justice	2.1	6.1	40.4	51.4	0.9	13820	14220						
MINE OR TRADE NAME										Suffolk, Keystone, McDowell County						
2053-61	P/S 1 x 1/8	D	DND	4.3	6.7	16.2	72.3	0.9	13910	14610						
2093-61	P/S 1 x 1/8	D	DND	4.7	6.3	15.8	73.2	0.6	13920	14610						
2265-61	P/S 1 x 1/8	D	DND	4.1	7.7	16.7	71.5	0.6	13820	14400						
2352-61	P/S 1 x 1/8	D	DND	2.2	7.0	16.5	74.3	0.6	14290	14610						
2449-61	P/S 1 x 1/8	D	DND	3.5	5.9	16.8	73.8	0.8	14230	14750						

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