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Mines Branch Information Circular IC 147

ANALYSES OF COAL AND COKE DURING 1962

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 third of an annual series, tabulates the analyses of commercial and special samples of coal and coke received by the Division during 1962.

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 "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.

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Glossary of Abbreviated Terms

CC	Crow's Nest Pass Coal Co., Ltd.
DCC	Dominion Coal Co., Ltd.
DND	Department of National Defence
DOT	Department of Transport
DVA	Department of Veterans Affairs
DPW	Department of Public Works
DRB	Defence Research Board
D	Delivered
FMP	Fuels and Mining Practice Division
Justice	Department of Justice
Lig.	Lignite
NBEPC	New Brunswick Electric Power Commission
NBMB	New Brunswick Mines Branch
ND	Not designated
NHW	Department of National Health and Welfare
N/S	Nut Slack
NSPC	Nova Scotia Power Commission
P/S	Prepared Stoker
RCMP	Royal Canadian Mounted Police
rd	Round hole screen
ROM	Run of Mine
Sc	Screened
Spec	Special
S/N	Stoker Nut
sq	Square hole screen
T	Tipple

Direction des mines

Circulaire d'Information IC 147

ANALYSES DE HOUILLE ET DE COKE EN 1962

par

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

INTRODUCTION

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 troisième 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 1962.

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.

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Glossaire des Abréviations

CC	Crow's Nest Pass Coal Co., Ltd.
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
DRB	Conseil de Recherche pour la défense
D	Livré
FMP	Division des combustibles et du génie minier
Justice	Ministère de la Justice
Lig.	Lignite
NBEPC	Commission d'énergie électrique de Nouveau-Brunswick
NBMB	Direction de mines du Nouveau-Brunswick
ND	Non désigné
NHW	Ministère de la Santé nationale et du Bien-être social
N/S	Menus gailletin
NSPC	Commission d'énergie de la Nouvelle-Écosse
P/S	Foyer mécanique préparé
RCMP	Gendarmerie Royale Canadienne
rd	Rond
ROM	Charbon tout venant
Sc	Charbon criblé
Spec	Spécial
S/N	Stoker, Nut
sq	Carré
T	Culbuteur

I - CANADIAN COALS

PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS

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						
3219-62	Sc Lump #18	T	FMP	1.9	5.3	38.4	54.4	3.7	13880	14150	1840	2040	2100	2170		6.0
3221-62	Sc Lump #12	T	FMP	1.0	6.0	37.3	55.7	2.6	14450	14590	1930	2090	2140	2230		6.5
3224-62	Sc Lump #20	T	FMP	1.0	6.7	37.0	55.3	4.1	14120	14270	1940	2030	2090	2190		7.0
3227-62	Sc Lump #26	T	FMP	1.2	4.8	36.2	57.8	2.1	14550	14730	1950	2150	2200	2270		8.0
2138-62	Nut 1 x 2	D	DVA	1.2	5.6	37.8	55.4	2.6	14250	14420						
2449-62	Nut 1 x 2	D	DVA	1.3	5.3	36.7	56.7	2.8	14180	14370						
2719-62	Nut 1 x 2	D	DVA	1.3	4.2	38.0	56.5	2.3	14610	14800						
3205-62	Nut 1 x 2	D	DVA	1.3	4.8	38.8	55.1	2.4	14450	14640						
2812-62	S/N 2 x 3/4	D	Justice	1.5	5.7	35.9	56.9	2.0	14180	14400						
3029-62	S/N 2 x 3/4	D	Justice	1.3	7.0	36.5	55.2	2.2	14000	14180						
3209-62	S/N 2 x 3/4	D	Justice	2.9	5.8	36.6	54.7	2.8	13970	14380						
3225-62	S/N 2 x 3/4	T	FMP	1.1	7.7	36.0	55.2	3.5	13910	14070	1920	2010	2060	2130	68	7
2976-62	Nut 2 x 1/2	D	DRB	1.2	2.9	38.7	57.2	1.9	14860	15040						
3265-62	Nut 2 x 1/2	D	DRB	1.7	7.1	35.7	55.5	3.0	13980	14220						
3222-62	Nut 2 x 1/4 eq.	T	FMP	0.7	6.6	36.0	56.7	2.9	14330	14440	1970	2030	2200	2340	65	7
2616-62	F/S 1 1/2 x 1/2	D	Justice	1.5	6.6	37.4	54.5	2.3	14040	14250						
2652-62	F/S 1 1/2 x 1/2	D	Justice	1.6	6.6	36.4	55.1	2.7	14060	14290						
2834-62	F/S 1 1/2 x 1/2	D	Justice	1.5	7.5	34.9	56.1	2.4	13980	14190						
3131-62	F/S 1 1/2 x 1/2	D	Justice	2.4	8.8	35.8	53.0	2.8	13630	13970						
3206-62	F/S 1 1/2 x 1/2	D	Justice	1.6	6.8	36.8	54.8	2.5	14250	14490						
3267-62	F/S 1 1/2 x 1/2	D	Justice	4.2	6.0	35.7	54.1	2.3	13700	14300						
2045-62	F/S 1 1/2 x 5/8	D	DVA	1.6	6.8	35.7	55.9	2.3	14030	14270						
2614-62	F/S 1 1/2 x 5/8	D	DVA	1.7	8.9	35.6	53.8	2.9	13530	13760						
3115-62	F/S 1 x 1/2	D	DND	1.1	3.4	35.4	60.1	1.2	14790	14950						
2066-62	F/S 3/4 x 1/2	D	DND	4.1	4.8	36.8	54.3	2.6	13980	14580						
3193-62	Stoker Pea	D	FMP	4.4	4.5	37.2	53.9	2.4	14110	14760						
3194-62	Stoker Pea	D	FMP	1.8	6.6	36.4	55.2	3.5	14120	14380						
2657-62	Stoker —	D	Justice	2.3	5.9	35.5	56.3	2.2	13940	14260						
2696-62	Stoker —	D	Justice	1.7	5.7	35.8	56.8	2.1	14120	14370						
2009-62	N/S 2 x 0	D	DND	2.8	6.9	37.4	52.9	3.4	13730	14130						
2027-62	N/S 2 x 0	D	DND	2.1	4.6	33.6	59.7	1.4	14370	14680						
2031-62	N/S 2 x 0	D	DND	2.2	7.4	35.8	54.6	2.9	13730	14040						
2034-62	N/S 2 x 0	D	DND	3.7	5.5	36.0	54.8	2.1	14020	14560						
2037-62	N/S 2 x 0	D	DND	2.5	5.4	37.4	54.7	2.8	14210	14570						
2048-62	N/S 2 x 0	D	DND	2.4	7.1	36.6	53.9	3.3	13570	13900						
2051-62	N/S 2 x 0	D	DND	1.4	6.8	35.2	56.6	2.4	14120	14320						
2054-62	N/S 2 x 0	D	DND	1.8	9.6	35.2	53.4	4.6	13380	13630						
2055-62	N/S 2 x 0	D	DND	1.3	9.6	30.7	58.4	2.3	13790	13970						
2065-62	N/S 2 x 0	D	DND	3.8	6.4	36.4	53.4	3.4	13630	14170						
2068-62	N/S 2 x 0	D	DND	1.8	5.3	35.0	57.9	2.6	14270	14530						
2070-62	N/S 2 x 0	D	DND	1.7	10.7	35.9	51.7	3.2	13470	13700						
2090-62	N/S 2 x 0	D	DND	2.4	7.0	36.2	54.4	2.7	13770	14100						
2099-62	N/S 2 x 0	D	DND	1.4	10.5	34.2	53.9	3.0	13430	13620						
2100-62	N/S 2 x 0	D	DND	2.0	7.0	35.0	56.0	2.8	13920	14200						
2101-62	N/S 2 x 0	D	DND	2.1	9.5	34.2	54.2	3.3	13450	13740						
2103-62	N/S 2 x 0	D	DND	2.1	6.2	34.6	57.1	3.1	14270	14560						
2104-62	N/S 2 x 0	D	DND	2.3	6.8	36.8	54.1	2.9	13780	14100						
2118-62	N/S 2 x 0	D	DND	1.3	8.5	35.8	54.4	3.3	13810	13990						
2148-62	N/S 2 x 0	D	DND	5.2	7.3	33.4	54.1	2.9	13200	13930						
2159-62	N/S 2 x 0	D	DND	3.0	8.7	35.6	52.7	4.0	13450	13860						
2163-62	N/S 2 x 0	D	DND	1.6	8.5	34.7	55.2	3.3	13850	14070						
2169-62	N/S 2 x 0	D	DND	3.1	7.6	34.7	54.6	2.5	13620	14060						
2173-62	N/S 2 x 0	D	DND	1.4	7.8	35.7	55.1	3.3	13950	14160						
2177-62	N/S 2 x 0	D	DND	1.1	6.7	37.7	54.5	4.0	14090	14240						
2178-62	N/S 2 x 0	D	DND	1.2	8.7	34.9	55.2	3.1	13730	13900						
2180-62	N/S 2 x 0	D	DND	0.9	7.3	35.6	56.2	2.6	14130	14250						
2194-62	N/S 2 x 0	D	DND	1.6	7.8	35.9	54.7	2.7	14030	14250						
2201-62	N/S 2 x 0	D	DND	1.3	8.9	34.7	55.1	3.9	13730	13900						
2202-62	N/S 2 x 0	D	DND	1.1	7.2	36.4	55.3	2.7	13980	14130						
2203-62	N/S 2 x 0	D	DND	1.3	7.8	34.8	56.1	2.9	13870	14050						
2204-62	N/S 2 x 0	D	DND	1.3	6.8	35.6	56.3	2.7	14080	14260						
2205-62	N/S 2 x 0	D	DND	1.4	7.7	35.1	55.8	2.7	13990	14180						
2249-62	N/S 2 x 0	D	DND	1.6	9.7	37.6	51.1	4.8	13360	13580						
2254-62	N/S 2 x 0	D	DND	1.3	6.7	36.7	55.3	3.4	14090	14270						
2259-62	N/S 2 x 0	D	DND	1.3	4.7	35.6	58.4	2.5	14520	14710						
2260-62	N/S 2 x 0	D	DND	3.9	5.4	35.8	54.9	2.3	13810	14370						
2287-60	N/S 2 x 0	D	DND	1.2	8.7	35.9	54.2	3.4	13660	13830						

PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS

AREA Sydney Coal Field

OPERATOR Dominton 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						
2299-62	N/S 2 x 0	D	DND	1.4	6.3	35.7	56.6	3.1	14180	14380						
2302-62	N/S 2 x 0	D	DND	2.4	6.6	34.8	56.2	4.0	13680	14010						
2303-62	N/S 2 x 0	D	DND	1.0	5.1	36.0	57.9	2.7	14380	14530						
2304-62	N/S 2 x 0	D	DND	1.1	6.3	33.1	59.5	2.5	14230	14380						
2305-62	N/S 2 x 0	D	DND	4.1	5.5	39.1	51.3	4.0	13660	14250						
2307-62	N/S 2 x 0	D	DND	2.1	7.5	34.2	56.2	2.9	13870	14170						
2308-62	N/S 2 x 0	D	DND	1.3	4.9	36.8	57.0	2.5	14340	14530						
2309-62	N/S 2 x 0	D	DND	1.2	7.8	32.2	58.8	2.7	13920	14080						
2314-62	N/S 2 x 0	D	DND	3.4	8.4	34.4	53.8	3.3	13660	14140						
2316-62	N/S 2 x 0	D	DND	2.1	7.6	36.7	53.6	3.8	13580	13870						
2340-62	N/S 2 x 0	D	DND	11.4	5.5	30.2	52.9	2.4	12790	14430						
2343-62	N/S 2 x 0	D	DND	9.2	6.4	31.7	52.7	1.8	12780	14070						
2348-62	N/S 2 x 0	D	DND	2.2	6.1	37.0	54.7	3.7	13910	14220						
2349-62	N/S 2 x 0	D	DND	1.3	8.1	34.0	56.6	3.1	13920	14100						
2362-62	N/S 2 x 0	D	DND	3.3	7.8	35.4	53.5	3.0	13690	14150						
2364-62	N/S 2 x 0	D	DND	1.1	9.2	33.3	56.4	2.9	13550	13700						
2393-62	N/S 2 x 0	D	DND	1.2	7.2	33.0	58.6	2.9	13890	14060						
2404-62	N/S 2 x 0	D	DND	4.5	8.1	33.9	53.5	3.2	13240	13860						
2405-62	N/S 2 x 0	D	DND	1.9	6.7	37.2	54.2	3.8	13660	13920						
2407-62	N/S 2 x 0	D	DND	1.3	8.5	35.2	55.0	2.7	13670	13860						
2412-62	N/S 2 x 0	D	DND	1.2	8.7	33.3	56.8	2.9	13730	13900						
2413-62	N/S 2 x 0	D	DND	1.5	7.8	33.6	57.1	2.5	13880	14090						
2415-62	N/S 2 x 0	D	DND	3.6	7.0	32.1	57.3	2.3	13810	14320						
2416-62	N/S 2 x 0	D	DND	1.3	7.5	33.9	57.3	2.7	14150	14340						
2417-62	N/S 2 x 0	D	DND	1.5	10.1	31.9	56.5	2.4	13370	13570						
2418-62	N/S 2 x 0	D	DND	1.2	7.2	30.7	60.9	2.0	13920	14090						
2448-62	N/S 2 x 0	D	DND	4.3	7.2	33.7	54.8	2.7	13410	14010						
2453-62	N/S 2 x 0	D	DND	1.4	10.0	34.5	54.1	3.0	13310	13500						
2461-62	N/S 2 x 0	D	DND	1.5	5.4	35.7	57.4	2.3	14240	14450						
2463-62	N/S 2 x 0	D	DND	1.4	7.7	35.1	55.8	3.2	13760	13950						
2469-62	N/S 2 x 0	D	DND	2.2	6.5	36.3	55.0	3.5	13640	13950						
2576-62	N/S 2 x 0	D	DND	1.6	2.0	38.4	58.0	1.7	14680	14930						
2577-62	N/S 2 x 0	D	DND	2.5	3.3	38.7	55.5	2.8	14320	14680						
2578-62	N/S 2 x 0	D	DND	1.3	3.2	34.6	61.0	1.4	14790	14990						
2592-62	N/S 2 x 0	D	DND	1.5	6.2	35.8	56.5	2.3	14090	14310						
2593-62	N/S 2 x 0	D	DND	1.6	3.9	35.3	59.2	1.9	14550	14780						
2599-62	N/S 2 x 0	D	DND	1.1	9.3	35.4	54.2	3.2	13750	13900						
2617-62	N/S 2 x 0	D	DND	2.4	6.6	34.2	56.8	2.8	13810	14150						
2618-62	N/S 2 x 0	D	DND	2.0	6.6	34.7	56.7	2.6	13920	14200						
2619-62	N/S 2 x 0	D	DND	2.5	8.0	34.0	55.5	3.5	13600	13950						
2620-62	N/S 2 x 0	D	DND	1.9	7.2	34.6	56.3	2.9	13750	14020						
2621-62	N/S 2 x 0	D	DND	2.2	7.4	35.1	55.3	3.4	13730	14030						
2623-62	N/S 2 x 0	D	DND	2.8	7.9	34.8	54.5	3.0	13360	13740						
2624-62	N/S 2 x 0	D	DND	2.9	6.0	37.1	54.0	3.5	13770	14180						
2653-62	N/S 2 x 0	D	DND	1.5	3.1	37.6	57.8	2.3	14650	14880						
2656-62	N/S 2 x 0	D	DND	2.0	2.9	37.6	57.5	1.7	14690	14990						
2658-62	N/S 2 x 0	D	DND	1.4	3.8	38.0	56.8	2.6	14580	14790						
2671-62	N/S 2 x 0	D	DND	1.5	4.1	38.9	55.5	2.5	14620	14850						
2672-62	N/S 2 x 0	D	DND	1.4	4.6	35.9	58.1	2.2	14540	14740						
2673-62	N/S 2 x 0	D	DND	2.7	11.3	34.0	52.0	8.5	12710	13060						
2674-62	N/S 2 x 0	D	DND	1.6	12.4	34.5	51.5	1.4	13380	13590						
2676-62	N/S 2 x 0	D	DND	1.4	5.4	35.5	57.7	1.8	14350	14560						
2680-62	N/S 2 x 0	D	DND	1.6	7.5	35.1	55.8	2.6	14250	14480						
2684-62	N/S 2 x 0	D	DND	1.1	5.0	35.7	58.2	2.5	14450	14620						
2697-62	N/S 2 x 0	D	DND	3.1	3.6	38.4	54.9	2.6	14190	14640						
2702-62	N/S 2 x 0	D	DND	2.3	3.7	36.8	57.2	2.0	14330	14670						
2704-62	N/S 2 x 0	D	DND	1.8	10.6	33.0	54.6	4.5	13490	13730						
2709-62	N/S 2 x 0	D	DND	3.3	4.1	38.1	54.5	2.8	14090	14580						
2735-62	N/S 2 x 0	D	DND	1.5	5.9	36.9	55.7	2.3	14300	14520						
2776-62	N/S 2 x 0	D	DND	1.7	6.2	37.1	55.0	3.1	14210	14450						
2777-62	N/S 2 x 0	D	DND	3.9	5.6	34.8	55.7	1.9	13870	14430						
2806-62	N/S 2 x 0	D	DND	1.9	15.3	32.7	50.1	5.1	12330	12570						
2815-62	N/S 2 x 0	D	DND	3.9	2.7	36.4	57.0	1.3	14360	14940						
2820-62	N/S 2 x 0	D	DND	3.0	5.3	36.6	55.1	3.5	14050	14480						
2835-62	N/S 2 x 0	D	DND	2.2	2.6	37.9	57.3	1.9	14530	14860						
2838-62	N/S 2 x 0	D	DND	1.6	4.6	36.0	57.8	2.2	14430	14680						
2843-62	N/S 2 x 0	D	DND	1.2	10.2	36.4	52.2	1.6	13530	13700						

PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS

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						
2847-62	N/S 2 x 0	D	DND	1.7	6.8	34.2	57.3	2.4	14020	14260						
2899-62	N/S 2 x 0	D	DND	1.7	3.3	36.5	58.5	1.5	14790	15050						
2900-62	N/S 2 x 0	D	DND	1.1	4.2	38.5	56.2	3.2	14660	14820						
2945-62	N/S 2 x 0	D	DND	1.5	2.9	38.3	57.3	2.1	14840	15060						
2965-62	N/S 2 x 0	D	DND	2.8	2.7	39.7	54.8	2.1	14370	14780						
2991-62	N/S 2 x 0	D	DND	2.0	8.3	37.6	52.1	2.3	13690	13980						
2994-62	N/S 2 x 0	D	DND	5.9	6.6	33.7	53.8	2.6	13350	14190						
2999-62	N/S 2 x 0	D	DND	2.6	5.7	34.7	57.0	2.2	13980	14350						
3026-62	N/S 2 x 0	D	DND	4.8	4.9	33.9	56.4	2.4	13890	14590						
3027-62	N/S 2 x 0	D	DND	5.8	3.1	33.8	57.3	1.4	13950	14810						
3113-62	N/S 2 x 0	D	DND	5.1	3.4	37.5	54.0	2.3	13810	14550						
3124-62	N/S 2 x 0	D	DND	7.1	4.8	33.7	54.4	1.1	13490	14510						
3135-62	N/S 2 x 0	D	DND	4.6	6.6	35.5	53.3	1.9	13460	14110						
3141-62	N/S 2 x 0	D	DND	2.2	6.7	35.2	55.9	2.8	14030	14340						
3163-62	N/S 2 x 0	D	DND	2.6	6.8	35.4	55.2	2.8	13800	14170						
3168-62	N/S 2 x 0	D	DND	3.7	5.8	35.2	55.3	2.7	13730	14250						
3169-62	N/S 2 x 0	D	DND	3.1	7.0	35.8	54.1	2.7	13650	14090						
3170-62	N/S 2 x 0	D	DND	2.7	6.1	36.1	55.1	2.7	13880	14270						
3171-62	N/S 2 x 0	D	DND	3.1	7.9	35.5	53.5	2.8	13500	13930						
3172-62	N/S 2 x 0	D	DND	3.0	5.1	37.6	54.3	2.5	13940	14380						
3184-62	N/S 2 x 0	D	DND	7.3	6.9	34.5	51.3	3.7	13000	14010						
3185-62	N/S 2 x 0	D	DND	5.7	7.7	35.9	50.7	2.3	13150	13940						
3188-62	N/S 2 x 0	D	DND	2.7	5.8	37.9	53.6	2.9	13860	14250						
3198-62	N/S 2 x 0	D	DND	5.6	5.8	35.8	52.8	2.9	13510	14310						
3214-62	N/S 2 x 0	D	DND	3.4	6.2	35.8	54.6	2.9	13740	14220						
3236-62	N/S 2 x 0	D	DND	2.0	6.2	35.4	56.4	2.8	13940	14230						
3237-62	N/S 2 x 0	D	DND	1.2	6.1	35.8	56.9	2.1	14170	14350						
3252-62	N/S 2 x 0	D	DND	4.2	7.2	34.9	53.7	2.6	13370	13950						
3256-62	N/S 2 x 0	D	DND	5.7	6.6	33.5	54.2	2.6	13370	14180						
3257-62	N/S 2 x 0	D	DND	6.3	6.9	34.0	52.8	2.8	13060	13930						
3258-62	N/S 2 x 0	D	DND	5.9	6.9	33.9	53.3	3.0	13190	14020						
3259-62	N/S 2 x 0	D	DND	5.5	6.5	34.5	53.5	2.8	13260	14040						
3262-62	N/S 2 x 0	D	DND	5.2	6.8	36.1	51.9	2.9	13250	13980						
3271-62	N/S 2 x 0	D	DND	2.4	6.5	37.1	54.0	3.3	13890	14240						
3272-62	N/S 2 x 0	D	DND	5.5	7.5	34.3	52.7	3.2	13170	13930						
2932-62	N/S Princess 1 3/4 x 0	T	FMP	1.3	6.5	36.6	55.6	2.2	14130	14310	1900	2020	2080	2420		
2717-62	N/S 1 1/2 x 0	D	DND	1.7	3.9	37.1	57.3	2.1	14450	14700						
2892-62	N/S 1 1/2 x 0	D	Justice	1.8	6.5	35.5	56.2	2.1	14060	14320						
2940-62	N/S #26 1 1/2 x 0	T	FMP	1.6	5.7	34.7	58.0	1.9	14310	14540	1900	2010	2080	2380		
2941-62	N/S #26 1 1/2 x 0	T	FMP	1.3	5.2	34.4	59.1	1.5	14350	14540	1960	2050	2160	2390		
2092-62	N/S 1 1/2 x 0	D	Justice	1.7	9.4	34.9	54.0	2.8	13550	13780						
2130-62	N/S 1 1/2 x 0	T	FMP	1.1	7.4	36.2	55.3	3.4	13950	14100						
2286-62	N/S 1 1/2 x 0	D	Justice	1.7	6.7	34.4	57.2	2.7	13970	14220						
2396-62	N/S 1 1/2 x 0	D	Justice	4.4	7.1	33.3	55.2	3.0	13300	13910						
2778-62	N/S 1 1/2 x 0	D	Justice	1.8	6.7	35.8	55.7	3.0	14010	14260						
2847-62	N/S 1 1/2 x 0	D	DND	1.7	6.8	34.2	57.3	2.4	14020	14260						
2930-62	N/S #12 1 1/2 x 0	T	FMP	0.9	6.8	35.6	56.7	2.6	14240	14360	1940	2040	2120	2440		
2934-62	N/S #16 1 1/2 x 0	T	FMP	1.0	8.4	31.4	59.2	3.1	14030	14170	1890	1960	2010	2340		
2936-62	N/S #18 1 1/2 x 0	T	FMP	1.9	6.1	38.1	53.9	3.0	13850	14130	1960	2170	2210	2320		
2937-62	N/S #18 1 1/2 x 0	T	FMP	1.9	6.6	37.5	54.0	2.9	13790	14060	1970	2150	2230	2310		
2961-62	N/S 1 1/2 x 0	D	DND	2.0	8.0	36.3	53.7	2.5	14010	14290						
2980-62	N/S 1 1/2 x 0	D	Justice	1.9	5.3	35.6	57.2	2.1	14210	14490						
3148-62	N/S 1 1/2 x 0	D	Justice	1.2	5.8	36.8	56.2	2.4	14230	14400						
3223-62	Slack 1 1/2 x 0	T	FMP	1.0	8.4	36.0	54.6	3.1	14210	14350	1930	2010	2220	2300	66	
3255-62	Slack 1 1/2 x 0	D	Justice	3.9	5.9	33.8	56.4	2.2	13700	14250						
3039-62	Slack 1 x 0	D	DOT	5.0	7.0	34.9	53.1	2.8	13570	14280						
3044-62	Slack 1 x 0	D	DVA	6.2	5.1	36.9	51.8	3.6	13650	14560						
2084-62	Slack 3/4 x 0	T	FMP	1.4	10.0	36.6	55.0	3.1	13610	13810						
2086-62	Slack 3/4 x 0	D	Justice	5.7	8.4	32.3	53.6	2.9	13110	13910						
2096-62	Slack 3/4 x 0	T	FMP	1.0	7.9	34.8	56.3	2.7	13960	14110						

PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS

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						
2097-62	Slack 3/4 x 0	T	FMP	2.0	7.9	34.2	55.9	2.8	13790	14070						
2116-62	Slack 3/4 x 0	D	DVA	2.3	9.6	34.0	54.1	2.8	13420	13740						
2185-62	Slack 3/4 x 0	D	Justice	4.9	9.7	31.8	53.6	1.9	13070	13740						
2188-62	Slack 3/4 x 0	T	FMP	1.3	6.0	35.4	57.3	2.0	14100	14290						
2342-62	Slack 3/4 x 0	D	Justice	4.5	7.9	33.8	53.8	2.7	13330	13950						
2444-62	Slack 3/4 x 0	D	Justice	10.8	7.5	30.5	51.2	2.6	12230	13720						
2688-62	Slack 3/4 x 0	D	Justice	6.1	8.1	32.8	53.0	3.0	12950	13790						
2722-62	Slack 3/4 x 0	D	DVA	4.9	9.1	33.9	52.1	3.2	12860	13520						
2938-62	Slack # 20															
2939-62	Slack 3/4 x 0	T	FMP	0.8	8.4	35.8	55.0	3.1	13740	13850	2060	2220	2340	2400		
2989-62	Slack 3/4 x 0	D	Justice	0.9	7.8	36.3	55.0	3.1	13880	14000	2030	2210	2280	2370		
3226-62	Slack #20															
3220-62	Slack 3/4 x 0	T	FMP	1.9	8.4	35.0	54.7	3.1	13880	14150	2010	2070	2140	2230	69	8
3228-62	Slack #18	T	FMP	2.7	6.6	36.4	54.3	3.2	13790	14180	1850	2030	2070	2120	69	7
3228-62	Steel Slack #26	T	FMP	2.0	7.5	34.3	56.2	1.7	14000	14290	2040	2210	2280	2350	64	8.5
3229-62	Sulphur Slack #26	T	FMP	1.6	6.3	33.1	59.0	1.8	14110	14330	2000	2170	2230	2280	66	8.5

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

2036-62	Lump 1 x 6	D	DND	2.1	18.4	31.5	48.0	6.4	11510	11760						
2125-62	Lump 1 x 6	D	DND	1.6	11.4	32.9	54.1	6.3	12680	12890						
2184-62	Lump 1 x 6	D	DND	1.7	12.4	32.3	53.6	5.6	12580	12790						
2248-62	Lump 1 x 6	D	DND	1.5	11.1	33.5	53.9	5.5	12810	13010						
2255-62	Lump 1 x 6	D	DND	2.4	8.7	35.7	53.2	6.8	13060	13380						
2317-62	Lump 1 x 6	D	DND	1.8	13.7	32.6	51.9	8.5	12290	12520						
2347-62	Lump 1 x 6	D	DND	1.8	7.2	35.3	55.7	5.5	12810	13040						
2422-62	Lump 1 x 6	D	DND	1.8	14.6	32.0	51.6	7.8	12120	12340						
2575-62	Lump 1 x 6	D	DND	1.8	16.2	32.2	49.8	7.1	11640	11850						
2598-62	Lump 1 x 6	D	DND	2.0	19.5	31.4	47.1	8.1	11020	11250						
2769-62	Lump 1 x 6	D	DND	1.9	18.8	32.5	46.8	9.0	11980	12210						
2774-62	Lump 1 x 6	D	DND	2.5	13.0	32.9	51.6	7.0	12280	12590						
2995-62	Lump 1 x 6	D	DND	1.6	13.5	34.3	50.6	6.9	12480	12680						
3149-62	Lump 1 x 6	D	DND	2.0	12.5	33.8	51.7	8.3	12520	12770						
3183-62	Lump 1 x 6	D	DND	3.7	16.3	31.6	48.4	6.8	11950	12400						
3270-62	Lump 1 x 6	D	DND	1.7	17.4	32.3	48.6	7.4	11980	12180						
3034-62	P/S 2 x 1/2	D	DND	2.0	8.8	30.9	58.3	4.8	13290	13560						
2021-62	P/S 1 1/2 x 1/2	D	DND	2.9	12.1	33.9	51.1	6.8	12510	12880						
2022-62	P/S 1 1/2 x 1/2	D	DND	2.7	9.9	34.5	52.9	5.7	12890	13250						
2023-62	P/S 1 1/2 x 1/2	D	DND	2.3	9.8	34.9	53.0	6.2	13010	13320						
2069-62	P/S 1 1/2 x 1/2	D	DND	5.0	9.1	34.6	51.3	6.3	12710	13370						
2088-62	P/S 1 1/2 x 1/2	D	DND	1.9	9.1	35.9	53.1	5.9	13200	13450						
2131-62	P/S 1 1/2 x 1/2	D	DND	5.1	11.6	33.3	50.0	5.8	12230	12880						
2132-62	P/S 1 1/2 x 1/2	D	DND	4.8	11.6	33.3	50.3	5.4	12250	12870						
2133-62	P/S 1 1/2 x 1/2	D	DND	4.8	9.5	34.5	51.2	5.5	12620	13250						
2154-62	P/S 1 1/2 x 1/2	D	DND	5.2	12.1	33.0	49.7	6.7	12170	12830						
2155-62	P/S 1 1/2 x 1/2	D	DND	4.8	10.7	33.6	50.9	7.0	12420	13040						
2168-62	P/S 1 1/2 x 1/2	D	DND	1.7	10.9	34.2	53.2	6.2	12790	13010						
2199-62	P/S 1 1/2 x 1/2	D	DND	3.5	10.4	34.5	51.6	5.7	12620	13090						
2200-62	P/S 1 1/2 x 1/2	D	DND	2.4	8.8	35.6	53.2	5.7	12830	13140						
2257-62	P/S 1 1/2 x 1/2	D	DND	8.1	9.0	32.3	50.6	6.0	12320	13420						
2258-62	P/S 1 1/2 x 1/2	D	DND	1.9	8.4	35.7	54.0	5.6	13310	13570						
2318-62	P/S 1 1/2 x 1/2	D	DND	4.1	8.8	34.8	52.3	5.6	12950	13500						
2319-62	P/S 1 1/2 x 1/2	D	DND	5.5	8.7	34.4	51.4	5.8	12730	13470						
2336-62	P/S 1 1/2 x 1/2	D	DND	1.7	10.8	35.1	52.4	6.0	12760	12970						
2337-62	P/S 1 1/2 x 1/2	D	DND	1.7	9.3	35.4	53.6	6.0	13300	13530						
2345-62	P/S 1 1/2 x 1/2	D	DND	1.7	9.8	35.0	53.5	6.5	13020	13240						
2392-62	P/S 1 1/2 x 1/2	D	DND	1.4	8.3	35.8	54.5	5.8	13260	13450						
2410-62	P/S 1 1/2 x 1/2	D	DND	1.6	8.6	35.5	54.3	5.4	13220	13430						
2411-62	P/S 1 1/2 x 1/2	D	DND	1.8	9.3	35.2	53.7	5.7	12960	13190						
2439-62	P/S 1 1/2 x 1/2	D	DND	2.2	7.8	35.5	54.5	5.4	13330	13620						
2440-62	P/S 1 1/2 x 1/2	D	DND	2.2	10.1	34.6	53.1	5.9	12950	13240						
2441-62	P/S 1 1/2 x 1/2	D	DND	2.0	11.6	33.8	52.6	6.7	12700	12960						
2472-62	P/S 1 1/2 x 1/2	D	DND	2.0	7.3	35.5	55.2	5.1	13440	13720						

PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS

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						
2595-62	P/S 1 1/4 x 1/4	D	DND	2.0	8.1	34.2	55.7	6.3	13280	13550						
2638-62	P/S 1 1/4 x 1/4	D	DND	2.0	11.3	34.0	52.7	5.9	12960	13230						
2644-62	P/S 1 1/4 x 1/4	D	DND	1.6	11.6	33.2	53.6	5.9	12980	13190						
2713-62	P/S 1 1/4 x 1/4	D	DND	1.2	14.6	33.0	51.2	5.7	12580	12730						
2772-62	P/S 1 1/4 x 1/4	D	DND	4.2	12.2	34.3	49.3	8.1	12190	12720						
2889-62	P/S 1 1/4 x 1/4	D	DND	5.5	10.2	33.7	50.6	6.9	12510	13230						
3015-62	P/S 1 1/4 x 1/4	D	DND	1.8	8.0	35.9	54.3	6.0	13350	13600						
3153-62	P/S 1 1/4 x 1/4	D	DND	2.0	14.9	33.3	49.8	8.1	12060	12300						
3154-62	P/S 1 1/4 x 1/4	D	DND	2.5	10.8	34.5	52.2	6.5	12870	13200						
3239-62	P/S 1 1/4 x 1/4	D	DND	3.3	10.2	34.0	52.5	5.7	12660	13090						
2775-62	P/S 3/4 x 3/16	D	DND	2.7	10.5	34.5	52.3	6.1	12560	12910						
3215-62	Stoker 5/16	T	FMP	1.7	10.8	34.7	52.8	6.6	12900	13110	1850	2040	2090	2160	61	7
3195-62	Stoker Pea	D	FMP	2.2	14.1	33.3	50.4	7.0	12510	12780						
2115-62	N/S 1 1/4 x 0	D	DND	5.5	14.5	31.7	48.3	9.2	11750	12430						
2144-62	N/S 1 1/4 x 0	D	DND	6.6	9.2	33.7	50.5	5.7	12370	13240						
2290-62	N/S 1 1/4 x 0	D	DND	1.8	11.2	33.7	53.3	6.5	12870	13100						
2344-62	N/S 1 1/4 x 0	D	DND	7.9	10.5	32.7	48.9	5.8	11960	12980						
2470-62	N/S 1 1/4 x 0	D	DND	1.8	12.1	33.6	52.5	6.8	12600	12820						
2471-62	N/S 1 1/4 x 0	D	DND	1.9	8.2	35.5	54.4	5.6	13270	13530						
2675-62	N/S 1 1/4 x 0	D	DND	2.2	8.1	34.5	55.2	5.5	13430	13740						
2946-62	N/S 1 1/4 x 0	D	DND	1.9	9.5	35.7	52.9	5.6	13100	13350						
3216-62	Slack 3/4 x 0	T	FMP	1.3	9.5	35.3	53.9	6.5	13120	13300	1910	2060	2110	2190	61	7

OPERATOR Indian Cove Coal Co., Ltd.
(Greener Mine)

2706-62	Lump	T	FMP	3.7	15.9	33.4	47.0	6.0	11620	12070	2220	2270	2340	2440	55	
2707-62	Stoker	T	FMP	3.7	11.9	35.1	49.3	5.7	12370	12830	2000	2110	2230	2320	55	
2087-62	Slack x 0	D	DND	8.3	12.1	33.3	46.3	5.5	11760	12820						
2157-62	Slack x 0	D	DND	6.9	12.6	33.0	47.5	6.2	11860	12750						
2250-62	Slack x 0	D	DND	3.4	12.7	35.0	48.9	5.9	12200	12630						
2301-62	Slack x 0	D	DND	3.9	15.6	32.4	48.1	2.9	11630	12110						
2346-62	Slack x 0	D	DND	3.0	11.6	35.2	50.2	5.5	12430	12820						
2403-62	Slack x 0	D	DND	2.6	12.3	35.0	50.1	5.8	12240	12570						
2456-62	Slack x 0	D	DND	3.2	12.5	34.5	49.8	5.7	12260	12660						
2615-62	Slack x 0	D	DND	3.7	9.5	36.3	50.5	5.6	12720	13210						
2683-62	Slack x 0	D	DND	4.3	11.7	34.4	49.6	6.2	12310	12870						
2705-62	Slack x 0	T	FMP	4.4	9.9	35.5	50.2	5.2	12690	13280	2040	2250	2310	2390	58	
2821-62	Slack x 0	D	FMP	3.1	11.4	35.3	50.2	5.2	12380	12770	2030	2240	2300	2390	57	
2822-62	Slack x 0	D	FMP	3.1	12.2	34.5	50.2	5.5	12080	12480	2050	2230	2290	2360	58	
2823-62	Slack x 0	D	FMP	3.1	12.7	34.5	49.7	5.5	12050	12440	2010	2150	2220	2310	60	
2824-62	Slack x 0	D	FMP	3.3	11.2	35.2	50.3	5.4	12270	12690	1920	2170	2260	2340	70	
2825-62	Slack x 0	D	FMP	3.4	11.9	34.9	49.8	5.6	12150	12590	1910	2020	2180	2300	59	
2950-62	Slack x 0	D	DND	3.6	17.8	33.3	45.3	5.8	11090	11510						
2993-62	Slack x 0	D	DND	4.1	5.0	37.5	53.4	3.5	13590	14170						
3132-62	Slack x 0	D	DND	4.3	12.1	33.8	49.8	5.5	12250	12810						
3174-62	Slack x 0	D	DND	6.9	13.0	33.3	46.8	5.5	11920	12800						
3238-62	Slack x 0	D	DND	5.6	10.6	33.8	50.0	5.2	12220	12950						
3269-62	Slack x 0	D	DND	5.1	10.9	33.6	50.4	5.5	12360	13020						

AREA Inverness Coal Field

OPERATOR Chestico Mining Co.

2784-62	Slack	D	NSPC	4.5	13.3	35.7	46.5	6.7	11400	11930	1900	1970	2020	2180	59	
2916-62	Slack	D	NSPC	3.6	13.8	34.6	48.0	6.7	11560	11990						

OPERATOR Evans' Coal Mines Ltd.

2901-62	Pea Stoker	D	RCMP	4.1	7.6	36.7	51.6	5.5	12500	13030						
2782-62	Slack	D	NSPC	3.5	10.8	35.9	49.8	6.0	12130	12570	1950	2000	2080	2240	56	
2783-62	Slack	D	NSPC	1.8	10.1	36.7	51.4	6.2	12380	12600	1870	1950	2100	2160	59	
2915-62	Slack	D	NSPC	2.8	10.1	36.6	50.5	6.1	12230	12580						
2919-62	Slack	D	NSPC	2.9	9.7	36.4	51.0	5.9	12400	12780						

PROVINCE NOVA SCOTIA
MAINLAND COAL FIELDS

AREA Pictou Coal Field

OPERATOR Acadia Coal Company Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature, °F				Grindability Index Hartgrove	Free Swelling Index
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid		
									Btu/lb Gross	Btu/lb Gross						
2102-62	Slack 1 1/4 x 0	D	DND	2.2	10.7	27.8	59.3	1.1	13250	13540						
2160-62	Slack 1 1/4 x 0	D	DND	1.6	10.3	27.7	60.4	0.7	13380	13590						
2174-62	Slack 1 1/4 x 0	D	DND	1.7	11.5	31.8	55.0	0.6	13200	13420						
2196-62	Slack 1 1/4 x 0	D	DND	2.4	11.0	30.9	55.7	0.6	13170	13490						
2244-62	Slack 1 1/4 x 0	D	DND	1.5	9.9	28.1	60.5	0.4	13360	13560						
2261-62	Slack 1 1/4 x 0	D	DND	1.7	8.9	28.3	61.1	0.5	13490	13710						
2315-62	Slack 1 1/4 x 0	D	DND	4.7	9.5	29.0	56.8	0.7	12980	13620						
2332-62	Slack 1 1/4 x 0	D	DND	4.7	10.8	27.1	57.4	0.6	12800	13430						
2402-62	Slack 1 1/4 x 0	D	DND	1.6	10.5	28.4	59.5	1.0	13170	13380						
2452-62	Slack 1 1/4 x 0	D	DND	2.1	11.0	27.6	59.3	0.8	13090	13370						
2458-62	Slack 1 1/4 x 0	D	DND	1.8	10.6	26.8	60.8	0.4	13190	13430						
2459-62	Slack 1 1/4 x 0	D	DND	1.9	10.4	30.7	57.0	0.5	13310	13570						
2943-62	Slack 1 1/4 x 0	D	DND	2.5	12.0	28.0	57.5	0.4	12860	13190						
2948-62	Slack 1 1/4 x 0	T	FMP	1.7	11.3	28.8	58.2	0.4	13030	13260	2340	2460	2500	2620		
2949-62	Slack 1 1/4 x 0	T	FMP	1.7	10.5	29.6	58.2	0.4	13210	13440	2360	2500	2540	2640		
2851-62	Slack - 1 1/4	D	DND	2.3	10.5	28.6	58.6	0.4	13250	13570						
2852-62	Slack - 1 1/4	D	DND	2.5	10.1	28.0	59.4	0.4	13260	13590						
2853-62	Slack - 1 1/4	D	DND	2.3	9.0	28.2	60.5	0.6	13310	13630						
2854-62	Slack - 1 1/4	D	DND	2.4	15.3	26.6	55.7	0.8	12400	12700						
2958-62	Slack - 1 1/4	D	DND	2.9	11.3	27.9	57.9	0.5	13000	13390						
2959-62	Slack - 1 1/4	D	DND	2.7	11.5	27.8	58.0	0.6	13130	13500						
3032-62	Slack - 1 1/4	D	DND	5.2	20.7	28.3	45.8	0.4	10700	11290						
3033-62	Slack - 1 1/4	D	DND	3.1	9.4	27.6	59.9	0.4	13300	13730						
3043-62	Slack - 1 1/4	D	DND	4.6	9.6	27.2	58.6	0.6	12960	13580						
3045-62	Slack - 1 1/4	D	DND	2.2	11.4	27.6	58.8	0.4	13100	13390						
3260-62	Slack - 1 1/4	D	DND	4.8	10.5	27.8	56.9	0.7	12860	13510						
2786-62	Washed Splint	D	NSPC	1.7	21.1	28.5	48.7	0.6	11550	11750	2080	2150	2220	2300	69	
2918-62	Washed Splint	D	NSPC	1.8	21.6	28.0	48.6	0.7	11170	11370						

AREA Springhill Coal Field

OPERATOR Springhill Coal Mines Ltd.

2785-62	ROM	D	FMP	4.1	18.0	30.0	47.9	2.3	11330	11810	1880	1910	1990	2090	70	
3021-62	Nut 2 x 1 1/4	D	Justice	2.1	9.4	32.6	55.9	1.4	13470	13750						
2361-62	Stoker 1 1/4 x 1 1/4	D	Justice	3.6	18.1	29.6	48.7	2.2	11350	11780						
2685-62	Stoker 3/4 x 1 1/4	D	Justice	3.3	16.5	30.2	50.0	2.2	11700	12100						
2842-62	Stoker 3/4 x 1 1/4	D	Justice	3.2	15.4	31.1	50.3	2.5	11930	12330						
2076-62	Stoker 3/4 x 1 1/4	D	Justice	2.6	16.6	30.7	50.1	2.5	11770	12090						
2193-62	Stoker 3/4 x 1 1/4	D	Justice	4.5	17.0	30.3	48.2	2.1	11550	12100						
2917-62	Special	D	NSPC	2.8	17.4	30.0	49.8	2.5	11510	11840						

PROVINCE NEW BRUNSWICK

MINTO COAL FIELD

AREA Minto and Chipman

OPERATOR Avon Coal Co., Ltd.

2353-62	Slack 1 1/4	D	NBEPCC	0.8	16.8			7.7	12570	12670						
2837-62	Slack 1 x 0	D	DND	4.4	13.7	32.0	49.9	6.6	12460	13030						
2947-62	Slack 1 x 0	D	DND	4.8	14.6	32.0	48.6	7.7	12140	12740						
2964-62	Slack 1 x 0	D	DND	6.9	15.2	30.6	47.3	6.3	11790	12670						
3042-62	Slack 1 x 0	D	DND	5.1	12.9	32.5	49.5	6.9	12510	13180						
3118-62	Slack 1 x 0	D	DND	6.1	12.7	31.7	49.5	6.9	12420	13220						
3152-62	Slack 1 x 0	D	DND	6.5	15.1	30.4	48.0	6.9	11890	12710						
3189-62	Slack 1 x 0	D	DND	6.0	16.5	30.5	47.0	7.4	11790	12540						
3245-62	Slack 1 x 0	D	DND	4.9	18.0	30.5	46.6	7.2	11610	12210						
3263-62	Slack 1 x 0	D	DND	5.1	20.1	29.4	45.4	7.0	11270	11870						

OPERATOR Dufferin Mining Ltd.

2352-62	Slack 1 1/4	D	NBEPCC	1.0	14.0			5.5	13080	13210						
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OPERATOR Dunsinane Coal Ltd.

2700-62	Open Cut	Mine	NBMB	1.6	13.6	34.5	50.3	5.7	12580	12790	2020	2070	2250	2290	51	6 1/2 - 7
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PROVINCE NEW BRUNSWICK
MINTO COAL FIELD

AREA Minto and Chipman

OPERATOR King Mining 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						
2594-62	N/S 1 1/2 x 0	D	DND	1.4	33.6	25.4	39.7	9.5	9670	9810						
OPERATOR Lafferty Bros.																
2024-62	N/S 1 1/2 x 0	D	DND	1.0	16.4	33.2	49.4	7.8	12540	12660						
2025-62	N/S 1 1/2 x 0	D	DND	1.2	19.0	32.4	47.4	8.1	12100	12240						
2043-62	N/S 1 1/2 x 0	D	DND	1.6	14.7	32.8	50.9	6.3	12700	12900						
2044-62	N/S 1 1/2 x 0	D	DND	1.2	17.1	32.8	48.9	7.0	12380	12520						
2067-62	N/S 1 1/2 x 0	D	DND	1.0	30.8	27.8	40.4	10.5	9860	9950						
2072-62	N/S 1 1/2 x 0	D	DND	1.0	16.8	31.6	50.6	6.9	12610	12750						
2073-62	N/S 1 1/2 x 0	D	DND	0.7	22.7	30.5	46.1	11.2	11470	11560						
2085-62	N/S 1 1/2 x 0	D	DND	0.7	23.4	29.8	46.1	7.9	11390	11480						
2091-62	N/S 1 1/2 x 0	D	DND	1.2	22.7	30.9	45.2	8.2	11410	11550						
2134-62	N/S 1 1/2 x 0	D	DND	0.7	16.2	33.4	49.7	7.3	12490	12580						
2166-62	N/S 1 1/2 x 0	D	DND	0.7	19.6	32.8	46.9	7.9	11960	12040						
2243-62	N/S 1 1/2 x 0	D	DND	1.1	17.6	33.2	48.1	7.0	12220	12350						
2253-62	N/S 1 1/2 x 0	D	DND	1.2	26.7	30.6	41.5	11.0	10680	10800						
2313-62	N/S 1 1/2 x 0	D	DND	1.4	23.2	31.5	43.9	8.2	11380	11540						
2341-62	N/S 1 1/2 x 0	D	DND	0.8	18.5	33.3	47.4	8.4	12110	12200						
2406-62	N/S 1 1/2 x 0	D	DND	0.9	21.1	31.6	46.4	7.7	11650	11750						
2446-62	N/S 1 1/2 x 0	D	DND	3.2	20.3	31.0	45.5	8.0	11440	11830						
2590-62	N/S 1 1/2 x 0	D	DND	1.0	12.4	35.9	50.7	6.3	13280	13420						
2641-62	N/S 1 1/2 x 0	D	DND	1.1	23.5	31.0	44.4	10.7	11160	12280						
2773-62	N/S 1 1/2 x 0	D	DND	1.2	17.0	34.2	47.6	8.7	12350	12500						
OPERATOR McMann, V. C., Ltd.																
2355-62	ROM	D	NBEP	0.9	14.3			6.6	13040	13150						
OPERATOR Mills, D. W. and R. A., Ltd.																
2779-62	Nut 2 x 1 sq	T	FMP	1.0	13.4	33.9	51.7	5.8	13100	13240	1870	1970	2060	2190	59	
2010-62	P/S 1 1/4 x 1/4	D	DND	1.1	12.7	34.0	52.2	6.8	13250	13400						
2195-62	P/S 1 1/4 x 1/4	D	DND	1.0	13.7	34.0	51.3	6.9	13100	13240						
2395-62	P/S 1 1/4 x 1/4	D	DND	0.8	14.8	33.5	50.9	7.4	12770	12870						
2962-62	P/S 1 1/4 x 1/4	D	DND	1.1	10.0	36.7	52.2	6.6	13550	13700						
3151-62	P/S 1 1/4 x 1/4	D	DND	1.0	13.2	34.7	51.1	6.5	13050	13190						
3248-62	P/S 1 1/4 x 1/4	D	DND	1.3	12.0	34.2	52.5	6.3	12970	13140						
2963-62	P/S 1 1/4 x 1/8	D	DND	0.9	11.6	37.1	50.4	5.7	13400	13520						
2780-62	Stoker 1 x 5/8	T	FMP	1.1	13.0	34.4	51.5	6.2	12980	13120	1890	2010	2120	2170	59	
2689-62	N/S 2 x 0	D	DND	1.1	14.5	33.1	51.3	4.9	13000	13150						
2809-62	N/S 2 x 0	D	DND	1.0	14.3	32.4	52.3	5.6	13010	13140						
2356-62	Slack 1 1/4	D	NBEP	0.9	17.0			7.3	12630	12750						
2802-62	Slack 5/8 x 0	T	FMP	2.0	15.7	33.3	49.0	6.3	12390	12650	1850	2000	2060	2200	63	
OPERATOR Newcastle Coal Co., Ltd.																
2354-62	Slack - 1 1/4	D	NBEP	1.4	14.6			5.3	12580	12770						
OPERATOR A. W. Wasson Ltd.																
2357-62	ROM	D	NBEP	0.9	15.5			7.0	12780	12900						

PROVINCE SASKATCHEWAN
SOURIS VALLEY DISTRICT

AREA Estevan

OPERATOR Great West 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						
2008-62	Lig. P/S 1 x 1/2	D	Justice	34.5	7.5	25.8	32.2	0.7	7480	11430						
2029-62	Lig. P/S 1 x 1/2	D	Justice	34.9	7.3	27.4	30.4	0.6	7300	11220						
2046-62	Lig. P/S 1 x 1/2	D	DND	34.5	7.0	26.9	31.6	0.9	7310	11160						
2047-62	Lig. P/S 1 x 1/2	D	DND	32.1	7.3	27.4	33.2	0.8	7590	11180						
2053-62	Lig. P/S 1 x 1/2	D	DND	35.1	6.7	26.0	32.2	0.7	7230	11140						
2071-62	Lig. P/S 1 x 1/2	D	DND	33.4	7.3	27.5	31.8	0.9	7430	11150						
2093-62	Lig. P/S 1 x 1/2	D	DND	31.7	7.0	26.5	34.8	0.8	7880	11540						
2117-62	Lig. P/S 1 x 1/2	D	Justice	34.0	8.8	26.2	31.0	0.9	7230	10950						
2126-62	Lig. P/S 1 x 1/2	D	DND	34.5	7.3	26.5	31.7	1.1	7210	11000						
2149-62	Lig. P/S 1 x 1/2	D	Justice	34.3	6.7	28.6	30.4	0.7	7260	11060						
2150-62	Lig. P/S 1 x 1/2	D	DND	26.9	8.3	28.2	36.6	0.6	8250	11290						
2170-62	Lig. P/S 1 x 1/2	D	Justice	34.5	7.0	27.7	30.8	0.7	7890	12060						
2183-62	Lig. P/S 1 x 1/2	D	DND	28.9	7.5	25.4	38.2	0.5	8060	11330						
2210-62	Lig. P/S 1 x 1/2	D	DND	31.4	7.0	28.0	33.6	0.6	7510	10950						
2245-62	Lig. P/S 1 x 1/2	D	DND	32.1	7.5	27.8	32.6	0.7	7530	11100						
2246-62	Lig. P/S 1 x 1/2	D	DND	31.0	7.1	29.0	32.9	0.5	7690	11150						
2247-62	Lig. P/S 1 x 1/2	D	Justice	28.8	7.5	30.0	33.7	0.5	7830	10990						
2291-62	Lig. P/S 1 x 1/2	D	DND	34.7	7.7	25.1	32.5	1.0	7370	11290						
2321-62	Lig. P/S 1 x 1/2	D	DND	29.6	8.6	28.1	33.7	1.1	7720	10960						
2331-62	Lig. P/S 1 x 1/2	D	DND	29.4	8.7	31.6	30.3	0.7	7790	11030						
2359-62	Lig. P/S 1 x 1/2	D	DND	35.1	7.3	25.8	31.8	0.7	7170	11030						
2414-62	Lig. P/S 1 x 1/2	D	DND	33.4	6.6	26.0	34.0	0.6	7640	11460						
2953-62	Lig. P/S 1 x 1/2	D	DND	32.3	7.1	29.2	31.4	0.5	7140	10550						
2954-62	Lig. P/S 1 x 1/2	D	DND	29.7	7.1	33.3	29.9	0.6	7510	10690						
2955-62	Lig. P/S 1 x 1/2	D	DND	35.1	6.8	29.4	28.7	0.6	7130	10990						
2966-62	Lig. P/S 1 x 1/2	D	DND	35.6	6.1	27.7	30.6	0.5	7390	11490						
2967-62	Lig. P/S 1 x 1/2	D	DND	37.2	5.4	26.8	30.6	0.7	7110	11310						
2977-62	Lig. P/S 1 x 1/2	D	DND	34.7	6.5	27.2	31.6	0.8	7030	10770						
2978-62	Lig. P/S 1 x 1/2	D	DND	35.8	5.9	26.8	31.5	0.5	7000	10900						
2979-62	Lig. P/S 1 x 1/2	D	DND	34.4	6.5	26.9	32.2	0.4	7200	10970						
3030-62	Lig. P/S 1 x 1/2	D	Justice	32.1	5.7	32.7	29.5	0.4	7490	11030						
3136-62	Lig. P/S 1 x 1/2	D	Justice	33.7	8.4	31.5	26.4	0.7	7480	11290						
3175-62	Lig. P/S 1 x 1/2	D	Justice	29.6	7.5	28.4	34.5	0.5	8030	11400						

PROVINCE SASKATCHEWAN
SOURIS VALLEY DISTRICT

AREA Estevan

OPERATOR Great West 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						
3176-62	Lig. P/S 1 x 1/2	D	Justice	32.4	7.1	27.4	33.1	0.6	7650	11320						
3199-62	Lig. P/S 1 x 1/2	D	Justice	35.9	6.5	27.1	30.5	0.6	7190	11220						
2654-62	Lig. N/S 1 1/4 x 0	D	Justice	32.3	7.9	27.8	31.0	0.8	7230	10830						
2659-62	Lig. N/S 1 1/4 x 0	D	Justice	32.0	7.7	27.8	32.5	0.7	7270	10690						
2720-62	Lig. N/S 1 1/4 x 0	D	Justice	25.2	7.4	31.3	36.1	0.7	8130	10870						
2922-62	Lig. N/S 1 1/4 x 0	D	Justice	26.4	7.7	32.2	33.7	0.6	8050	10930						
2952-62	Lig. N/S 1 1/4 x 0	D	Justice	28.6	8.5	31.6	31.3	0.7	7500	10500						

PROVINCE ALBERTA
BITUMINOUS COAL

AREA Cascade

OPERATOR Canmore Mines Ltd., Mine #2

2209-62	Cobble 1 x 5	D	DND	3.1	9.1	13.6	74.2	0.7	13670	14120						
2475-62	P/S 2 x 1/4	D	DND	1.4	7.2	14.8	76.6	0.8	14040	14240						
2695-62	P/S 2 x 1/4	D	DND	2.1	9.3	14.4	74.2	0.9	13760	14050						
2699-62	Stoker 1 1/2 x 1/2	D	NHW	1.6	9.3	11.6	77.5	0.7	13800	14020						
2710-62	Stoker 1 1/2 x 1/2	D	NHW	1.8	8.3	12.4	77.5	0.7	13790	14040						
2726-62	Stoker 1 1/2 x 1/2	D	NHW	1.2	8.3	12.3	78.2	0.7	14020	14180						
2739-62	Stoker 1 1/2 x 1/2	D	NHW	1.0	7.7	12.6	78.7	0.7	14170	14310						
2813-62	Stoker 1 1/2 x 1/2	D	NHW	1.0	7.2	13.7	78.1	1.0	14190	14340						
2814-62	Stoker 1 1/2 x 1/2	D	NHW	1.0	7.8	12.6	78.6	0.7	14240	14390						
2929-62	Stoker 1 1/2 x 1/2	D	NHW	1.8	5.9	12.6	79.7	0.8	14480	14740						
2171-62	P/S 1 1/2 x 1/2	D	DND	4.7	8.4	13.0	73.9	1.1	13530	14200						
2596-62	P/S 1 1/2 x 1/2	D	DND	1.4	8.2	13.0	77.4	0.9	13920	14130						
2681-62	Stoker 1 1/4 x 1/2	D	NHW	1.5	7.2	13.6	77.7	0.9	14300	14510						
2135-62	P/S 1 1/4 x 1/4	D	NHW	1.3	9.8	13.8	75.1	0.9	14290	14470						
2161-62	P/S 1 1/4 x 1/4	D	NHW	0.4	9.3	15.9	74.4	0.9	14120	14180						
2175-62	P/S 1 1/4 x 1/4	D	NHW	1.0	8.5	16.3	74.2	0.8	14070	14220						
2187-62	P/S 1 1/4 x 1/4	D	NHW	0.7	6.9	16.0	76.4	0.8	14360	14460						
2861-62	P/S 1 1/4 x 1/4	D	DND	2.1	14.5	12.3	71.1	0.7	12800	13070						
2182-62	P/S (ND)	D	DND	1.2	8.0	13.5	77.3	0.9	14010	14170						
2002-62	Stoker (ND)	D	DND	2.9	10.1	14.3	72.7	0.6	13620	14030						

AREA Coalspur

OPERATOR Blackstone Collieries Ltd., Mine #1692

2300-62	Channel Sample	Seam	FMP	4.9	11.6	35.6	47.9	0.4	11410	12010	2150	2220	2290	2350	47
2447-62	Stoker 2 x 1/4	D	DND	5.6	11.7	34.6	48.1	0.3	11240	11910					

AREA Crowsnest

OPERATOR Coleman Collieries Ltd., Mines #204, 1695, 1747

2701-62	Vicary Creek	T	CC	1.5	9.1	22.0	67.4	0.4	13780	13990	2750+	+	+	+	82
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PROVINCE ALBERTA
SUBBITUMINOUS COAL

AREA Castor

OPERATOR Battle River Coal Co., Ltd., Mine #1046

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						
3240-62	Lump +4 1/2 rd	T	FMP	21.3	5.6	31.3	41.8	0.5	9170	11640	1990	2100	2180	2270		
3241-62	Egg 4 1/2 x 2 rd	T	FMP	21.0	6.1	31.3	41.6	0.5	9190	11640	2020	2090	2160	2210		
3242-62	Nut 2 x 1 1/4 rd	T	FMP	19.5	6.3	32.9	41.3	0.6	9290	11550	2040	2100	2140	2200	63	
3243-62	Stoker 1 1/4 x 3/4 rd	T	FMP	21.9	5.8	31.7	40.6	0.5	9070	11610	1990	2140	2180	2220	63	
3244-62	Slack -3/4 rd	T	FMP	22.9	6.6	30.5	40.0	0.6	8970	11630	2060	2220	2290	2320	64	

OPERATOR Stettler Coal Co., Ltd., Mine #1614

2016-62	Lump +1 7/8 sq	T	FMP	26.0	5.9	31.0	37.1	0.9	8600	11630	2100	2150	2190	2270		
2017-62	Nut 1 7/8 x 1 3/8	T	FMP	26.1	8.0	29.8	36.1	0.3	8660	11720	2200	2360	2380	2470	33	
2018-62	Stoker 1 3/8 x 1/2	T	FMP	26.2	9.1	29.7	35.0	0.4	8300	11250	2290	2340	2400	2440	35	
2019-62	Pea 1/2 x 1/4	T	FMP	27.4	8.1	29.1	35.4	0.5	8220	11320	2180	2300	2330	2510	35	
2020-62	Slack -1/4 sq	T	FMP	18.1	7.8	33.1	41.0	0.6	9380	11460	1870	2140	2180	2310	35	

AREA Champion

OPERATOR Champion Coal Co., Mine #1509

2111-62	Lump +4 rd	T	FMP	12.0	7.8	35.9	44.3	0.5	10580	12020	2090	2240	2300	2510		
2112-62	Egg 2 x 4rd	T	FMP	12.0	10.5	35.3	42.2	0.5	10350	11750	2280	2310	2340	2400		
2113-62	Stoker 2 x 3/4 rd	T	FMP	11.5	9.7	35.0	43.8	0.6	10370	11720	2140	2210	2320	2450	49	
2114-62	Slack -3/4	T	FMP	13.7	11.2	34.4	40.7	0.6	10070	11660	2100	2210	2300	2420	59	

AREA Drumheller

OPERATOR Century Coals Ltd., Mine #1742

2003-62	Lump +4 1/2 rd	T	FMP	19.5	5.2	32.7	42.7	0.4	9740	12100	2020	2080	2140	2190		
2004-62	Egg 4 1/2 x 2rd	T	FMP	19.1	6.6	31.6	42.7	0.4	9630	11890	2020	2060	2150	2190		
2005-62	Nut 2 x 1 1/4 rd	T	FMP	19.5	9.3	30.9	40.3	0.5	9140	11360	2160	2240	2320	2440	30	
2006-62	Stoker 1 1/4 x 5/8 rd	T	FMP	19.1	8.6	31.3	41.0	0.5	9500	11740	2150	2310	2360	2450	30	
2007-62	Slack -5/8 rd	T	FMP	18.5	11.3	29.9	40.3	0.5	9100	11180	2290	2360	2420	2610	32	

OPERATOR Subway Coal Co., Mine #1666

2011-62	Lump +4 Bar	T	FMP	18.9	7.8	30.9	42.4	1.0	9560	11790	1850	1970	2050	2140		
2012-62	Egg 4 Bar x 2 rd	T	FMP	19.5	7.6	31.4	41.5	0.6	9500	11810	1870	2000	2110	2160		
2013-62	Nut 2 x 1 1/4 rd	T	FMP	18.9	9.1	32.3	39.7	0.8	9460	11670	1870	1910	2070	2170	35	
2014-62	P/S 1 1/4 rd x 1/2 sq	T	FMP	18.7	10.2	30.4	40.7	0.8	9270	11410	1960	2100	2150	2300	35	
2015-62	Sl. -1/2 rd	T	FMP	19.4	10.3	29.2	41.1	0.9	9110	11290	1960	2110	2160	2290	36	

OPERATOR Warburg Coal Co., Ltd., Mine #1670

2136-62	Lump +10 slot	T	FMP	20.4	10.1	27.1	42.4	0.2	9330	11710	2190	2260	2340	2420		
2137-62	Stove 2 rd x 10 slot	T	FMP	19.4	10.0	29.1	41.5	0.3	9360	11620	2300	2420	2470	2530		

AREA Taber

OPERATOR Alberta Coal Sales Ltd., Mine #1604, Majestic

3040-62	P/S 2 x 1/4	D	DND	12.4	10.3	32.8	44.5	1.2	10330	11790						
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II - IMPORTED COALS

ANTHRACITE

STATE Pennsylvania, Lackawanna County

MINE OR TRADE NAME Powderley, Mayfield,

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						
2698-62	Rice (ND)	D	FMP	5.3	8.3	6.9	79.5	0.9	12990	13720						

BITUMINOUS

STATE Kentucky

MINE OR TRADE NAME Lothier

3150-62	N/S (ND)	D	DVA	7.3	9.5	32.5	50.7	1.6	12390	13380						
3251-62	N/S (ND)	D	DVA	8.5	8.0	32.4	51.1	1.2	12210	13350						

MINE OR TRADE NAME Kenmont

2049-62	N/S (ND)	D	DVA	9.3	9.0	32.4	49.3	0.9	12060	13310						
2167-62	N/S (ND)	D	DVA	9.6	8.3	32.7	49.3	1.5	11920	13180						
2320-62	N/S (ND)	D	DVA	8.6	9.7	31.7	50.0	1.0	11920	13040						
2420-62	N/S (ND)	D	DVA	9.1	10.6	31.5	48.8	1.1	11860	13050						
2474-62	N/S (ND)	D	DVA	7.3	7.8	34.0	50.9	1.0	11940	12890						

West Kentucky

MINE OR TRADE NAME Mission Bell, Paradise Mine

3192-62	Stoker 1½ x 3/8	D	DPW	7.5	6.2	40.8	45.5	3.2	12640	13670						
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STATE Pennsylvania

MINE OR TRADE NAME Dell Mine

2074-62	P/S 2 x 1/8	D	DND	8.6	9.5	33.8	48.1	3.1	11690	12790						
2075-62	P/S 2 x 1/8	D	DND	8.5	11.2	33.4	46.9	4.0	11520	12590						
2145-62	P/S 2 x 1/8	D	DND	5.2	10.5	35.6	48.7	2.6	12140	12800						
2146-62	P/S 2 x 1/8	D	DND	7.9	8.8	32.9	50.4	2.6	12040	13070						
2186-62	P/S 2 x 1/8	D	DND	8.4	9.7	33.0	48.9	2.9	11810	12890						
2252-62	P/S 2 x 1/8	D	DND	7.3	9.5	33.2	50.0	2.3	12080	13020						
2310-62	P/S 2 x 1/8	D	DND	5.7	11.1	33.4	49.8	3.0	11980	12710						
2339-62	P/S 2 x 1/8	D	DND	6.4	9.4	34.4	49.8	1.9	12480	13330						
2363-62	P/S 2 x 1/8	D	DND	7.7	10.7	32.7	48.9	2.3	11850	12840	1980	2320	2490	2560		
2450-62	P/S 2 x 1/8	D	DND	10.3	7.0	34.2	48.5	1.8	11840	13190						
2451-62	P/S 2 x 1/8	D	DND	6.9	8.4	33.6	51.1	2.3	12340	13250						
2942-62	P/S 2 x 1/8	D	DND	3.6	6.0	41.0	49.4	2.0	13890	14410						
3207-62	P/S 2 x 1/8	D	DND	3.8	9.5	37.4	49.3	2.5	13020	13530						
3114-62	P/S 1½ x ¼	D	DND	4.2	9.3	39.2	47.3	2.6	12870	13440						

MINE OR TRADE NAME Pilgrim (also called Dell)

3114-62	P/S 1½ x ¼	D	DND	4.2	9.3	39.2	47.3	2.6	12870	13440						
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MINE OR TRADE NAME Turner, Harrisville

2864-62	P/S 2 x 1/8	D	DND	3.3	6.4	36.2	54.1	1.2	13510	13980						
3140-62	P/S 2 x 1/8	D	DND	6.7	8.3	34.5	50.5	0.9	12650	13560						
3181-62	P/S 2 x 1/8	D	DND	5.8	7.7	34.4	52.1	1.1	12970	13770						
3200-62	P/S 2 x 1/8	D	DND	4.8	8.0	35.7	51.5	1.6	13010	13670						
3201-62	P/S 2 x 1/8	D	DND	7.2	7.9	33.8	51.1	1.1	12630	13600						
3268-62	P/S 2 x 1/8	D	DND	6.0	9.0	33.5	51.5	1.4	12640	13450						

MINE OR TRADE NAME Convair, Reynoldsville,

2771-62	N/S 2 x 0	D	DND	2.1	9.6	32.8	55.5	1.6	13360	13640						
2891-62	N/S 2 x 0	D	DND	2.6	9.2	32.9	55.3	1.7	13360	13710						
2921-62	N/S 2 x 0	Spec	FMP	2.1	9.4	32.6	55.9	1.4	13470	13750						
2975-62	N/S 2 x 0	D	DND	5.0	4.9	34.2	55.9	1.5	13750	14490						
3164-62	N/S 2 x 0	D	DND	2.5	9.1	32.2	56.2	2.4	13510	13850						
3246-62	N/S 2 x 0	D	DND	4.0	9.3	31.3	55.4	1.9	13020	13560						

IMPORTED COALS
BITUMINOUS (Cont'd)

STATE Pennsylvania, Butler County

MINE OR TRADE NAME Devon

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Ash Fusion Temperature, °F				Grindability Index Hargrove	Free Swelling Index	
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		Initial	Spherical	Hemi-spherical	Fluid			
									Btu/lb Gross	Btu/lb Gross							
3182-62	N/S 1 1/4 x 0	D	DVA	5.1	7.0	35.3	52.6	0.8	13240	13950							
										MINE OR TRADE NAME		Conifer Mine, Kittanning Seam					
2042-62	N/S 2 x 0	D	DND	2.3	10.9	34.9	51.9	2.6	13220	13520							
2207-62	N/S 2 x 0	D	DND	4.9	9.9	32.5	52.7	2.1	12920	13590							
2312-62	N/S 2 x 0	D	DND	3.7	9.8	33.0	53.5	2.3	13190	13700							
2366-62	N/S 2 x 0	D	DND	4.9	8.3	32.1	54.7	1.9	13280	13960							
2454-62	N/S 2 x 0	D	DND	1.7	6.8	34.5	57.0	1.4	13960	14200							
2810-62	N/S 2 x 0	D	DND	1.5	5.4	38.8	54.3	1.4	14140	14360							
										MINE OR TRADE NAME		Logan					
										MINE OR TRADE NAME		Lumsted					
2192-62	N/S 1 1/4 x 0	D	DVA	6.0	11.3	34.3	48.4	2.1	12040	12810							
2443-62	N/S 1 1/4 x 0	D	DVA	5.3	11.4	32.3	51.0	1.4	12230	12920							
2579-62	N/S 1 1/4 x 0	D	DVA	2.5	7.4	34.9	55.2	2.0	13600	13950							
2649-62	N/S 1 1/4 x 0	D	DVA	2.4	8.3	35.7	53.6	1.2	13370	13700							
2650-62	N/S 1 1/4 x 0	D	DVA	3.4	8.1	35.8	52.7	1.5	13210	13680							
2651-62	N/S 1 1/4 x 0	D	DVA	3.2	5.9	36.4	54.5	1.3	13880	14340							
2714-62	N/S 1 1/4 x 0	D	DVA	3.6	8.0	35.4	53.0	1.8	13100	13590							
2715-62	N/S 1 1/4 x 0	D	DVA	2.7	7.7	36.3	53.3	1.7	13280	13660							
2716-62	N/S 1 1/4 x 0	D	DVA	2.8	6.3	36.5	54.4	1.4	13680	14070							
2723-62	N/S 1 1/4 x 0	D	DVA	5.0	9.8	34.1	54.1	2.2	12400	13060							
2724-62	N/S 1 1/4 x 0	D	DVA	4.1	7.7	35.5	52.7	1.4	12990	13550							
2725-62	N/S 1 1/4 x 0	D	DVA	6.4	11.0	32.9	49.7	1.9	11950	12780							
										MINE OR TRADE NAME		Minna					
										MINE OR TRADE NAME		Regan Mine					
2041-62	N/S 2 x 0	D	DND	1.4	8.4	36.4	53.8	2.3	13840	14040							
2208-62	N/S 2 x 0	D	DND	5.6	10.3	32.8	51.3	2.3	12460	13210							
2311-62	N/S 2 x 0	D	DND	5.5	10.4	32.5	51.6	3.0	12400	13120							
2365-62	N/S 2 x 0	D	DND	5.6	9.3	33.4	51.7	2.3	12750	13510							
2455-62	N/S 2 x 0	D	DND	2.2	8.1	35.3	54.4	2.3	13500	13810							
2661-62	N/S 2 x 0	D	DND	2.9	7.3	35.3	54.5	1.8	13630	14030							
										MINE OR TRADE NAME		Minna					
2703-62	F/S 2 x 1/8	D	DND	4.7	8.5	32.2	54.6	1.3	13100	13750							
2728-62	F/S 2 x 1/8	D	DND	2.4	10.7	32.8	54.1	1.6	13340	13660							
2729-62	F/S 2 x 1/8	D	DND	2.5	9.8	33.0	54.7	2.0	13290	13630							
2730-62	F/S 2 x 1/8	D	DND	2.1	7.8	38.0	52.1	2.7	13680	13970							
2731-62	F/S 2 x 1/8	D	DND	2.2	10.2	36.7	50.9	2.8	13290	13590							
2732-62	F/S 2 x 1/8	D	DND	2.1	11.8	31.7	54.4	2.6	13210	13490							
2733-62	F/S 2 x 1/8	D	DND	3.0	10.4	32.5	54.1	1.9	13000	13400							
2736-62	F/S 2 x 1/8	D	DND	2.4	10.2	33.6	53.8	2.0	13290	13620							
2737-62	F/S 2 x 1/8	D	DND	2.5	9.6	37.7	50.2	2.8	13270	13600							
2830-62	F/S 2 x 1/8	D	DND	2.4	8.2	38.0	51.4	3.1	13470	13800							
2836-62	F/S 2 x 1/8	D	DND	2.3	10.4	32.5	54.8	2.0	13250	13570							
2862-62	F/S 2 x 1/8	D	DND	3.0	9.6	32.2	55.2	2.1	13270	13680							
2863-62	F/S 2 x 1/8	D	DND	2.4	9.1	33.1	55.4	2.3	13430	13760							
2926-62	F/S 2 x 1/8	D	DND	1.9	9.3	33.0	55.8	1.8	13700	13970							
2927-62	F/S 2 x 1/8	D	DND	2.7	10.0	32.8	54.5	1.6	13390	13750							
2928-62	F/S 2 x 1/8	D	DND	2.2	10.3	32.7	54.8	1.7	13390	13690							
										MINE OR TRADE NAME		Regan Mine					
3196-62	F/S 2 x 1/4	D	DND	3.3	8.6	38.5	49.6	3.0	13470	13930							

IMPORTED COALS
BITUMINOUS (Cont'd)

STATE Pennsylvania

MINE OR TRADE NAME Mac #2 (Kittaning 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						
2077-62	P/S 2 x 1/8	D	DND	4.8	8.4	37.7	49.1	2.5	12950	13610						
2172-62	P/S 2 x 1/8	D	DND	1.5	8.3	38.3	51.9	2.8	13580	13780						
2251-62	P/S 2 x 1/8	D	DND	1.5	7.4	38.5	52.6	2.1	13990	14210						
2306-62	P/S 2 x 1/8	D	DND	3.3	24.6	29.3	42.8	1.7	10590	10960						
2457-62	P/S 2 x 1/8	D	DND	1.9	8.6	36.9	52.6	3.2	13440	13700						
2580-62	P/S 2 x 1/8	D	DND	1.4	5.6	41.2	51.8	2.2	14280	14490						
2581-62	P/S 2 x 1/8	D	DND	1.7	2.9	43.5	51.9	2.2	14890	15140						
2597-62	P/S 2 x 1/8	D	DND	1.5	27.0	30.7	40.8	2.2	10390	10540						
2682-62	P/S 2 x 1/8	D	DND	2.1	13.8	37.4	46.8	4.8	12560	12820						
2968-62	P/S 2 x 1/8	D	DND	4.1	2.6	38.9	54.4	1.4	14200	14810						

STATE West Virginia

MINE OR TRADE NAME Compass

2179-62	P/S 2 x 1	D	Justice	1.1	7.8	39.7	51.4	2.9	13870	14020					
2289-62	P/S 2 x 1	D	Justice	1.0	7.9	39.5	51.6	2.7	14070	14210					
2032-62	P/S 2 x 1/8	D	DND	1.1	7.9	40.5	50.5	3.2	13770	13930					
2158-62	P/S 2 x 1/8	D	DND	1.0	7.5	41.5	50.0	3.6	13920	14050					
2026-62	P/S 1 1/4 x 5/8	D	DND	1.1	8.6	39.1	51.2	2.7	13820	13980					
2338-62	P/S 1 1/4 x 5/8	D	DND	5.1	7.9	37.3	49.7	3.1	13340	14060					
2462-62	P/S 1 1/4 x 5/8	D	DND	3.3	7.8	35.4	53.5	3.0	13690	14150					

MINE OR TRADE NAME Elm Grove

2923-62	P/S 2 x 1/8	D	DND	2.0	7.1	39.3	51.6	2.7	13780	14070					
3173-62	P/S 2 x 1/8	D	DND	2.6	10.4	37.3	49.7	3.2	12960	13320					
3254-62	P/S 2 x 1/8	D	DND	3.0	9.6	37.1	50.3	2.7	13000	13400					

MINE OR TRADE NAME Federal, Granttown

2001-62	P/S 1 1/2 x 1/4	D	DND	2.3	10.1	37.2	50.4	3.3	13380	13690					
2033-62	P/S 1 1/2 x 1/4	D	DND	1.1	7.5	39.0	52.4	2.3	14040	14200					
2089-62	P/S 1 1/2 x 1/4	D	DND	1.2	9.8	37.4	51.6	3.1	13650	13810					
2181-62	P/S 1 1/2 x 1/4	D	DND	0.9	10.1	38.5	50.5	3.5	13390	13500					
2211-62	P/S 1 1/2 x 1/4	D	DND	0.9	8.7	38.7	51.7	2.8	13610	13740					
2212-62	P/S 1 1/2 x 1/4	D	DND	0.9	8.7	38.6	51.8	2.9	13720	13850					
2256-62	P/S 1 1/2 x 1/4	D	DND	4.3	9.8	35.5	50.4	3.6	13020	13610					
2408-62	P/S 1 1/2 x 1/4	D	DND	3.9	7.2	37.6	51.3	2.7	13480	14030					
2409-62	P/S 1 1/2 x 1/4	D	DND	3.7	7.4	37.5	51.4	2.7	13450	13970					
2445-62	P/S 1 1/2 x 1/4	D	DND	3.1	9.2	37.9	49.8	2.7	13180	13600					
2473-62	P/S 1 1/2 x 1/4	D	DND	1.1	6.5	39.1	53.3	2.8	14030	14190					
2639-62	P/S 1 1/2 x 1/4	D	DND	1.3	8.9	39.0	50.8	2.6	13640	13830					
2686-62	P/S 1 1/2 x 1/4	D	DND	1.2	8.2	38.0	52.6	2.9	13760	13920					
2397-62	P/S 1 1/2 x 1/8	D	DND	0.9	9.2	38.3	51.6	3.3	13590	13720					
2468-62	P/S 1 1/2 x 1/8	D	DND	1.0	8.8	39.1	51.1	3.0	13640	13780					
2028-62	P/S 1 1/4 x 1/8	D	DND	1.3	9.2	38.1	51.4	3.2	13690	13870					

Fairmont

MINE OR TRADE NAME Fox

2770-62	N/S 2 x 0	D	DND	2.1	9.4	34.9	53.6	1.7	13350	13630					
2890-62	N/S 2 x 0	D	DND	2.1	9.2	33.9	54.8	1.0	13550	13840					
2974-62	N/S 2 x 0	D	DND	7.2	10.7	32.1	50.0	2.0	12340	13290					
3165-62	N/S 2 x 0	D	DND	2.2	8.8	37.0	52.0	2.6	13460	13760					
3247-62	N/S 2 x 0	D	DND	3.8	11.2	31.8	53.2	1.5	12510	13000					

Legan County, Island Creek

MINE OR TRADE NAME McGregor

2997-62	Egg 5 x 2	D	DND	1.3	5.5	36.7	56.5	1.1	14310	14490					
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IMPORTED COALS
BITUMINOUS (Cont'd)

STATE West Virginia

MINE OR TRADE NAME O'Donnell 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						
2052-62	S/N 1 1/4 x 3/8	D	Justice	1.8	7.0	39.5	51.7	0.9	13860	14110						

MINE OR TRADE NAME Raleigh Mine (Beckley Seam)

2050-62	Stockpile	Spec	DCC	0.5	5.9	16.9	76.7	0.9								9+
2139-62	Stockpile	Spec	DCC	0.4	6.2	16.9	76.5	0.9								8
2140-62	Stockpile	Spec	DCC	0.8	6.5	16.2	76.5									8 1/2
2141-62	Stockpile	Spec	DCC	1.0	6.4	17.1	75.5									8 1/2
2142-62	Stockpile	Spec	DCC	1.0	6.6	16.4	76.0									8 1/2
2143-62	Stockpile	Spec	DCC	0.9	6.8	17.1	75.2	0.8								8 1/2
2431-62	Stockpile	Spec	DCC	0.5	6.0	16.4	77.1									
2432-62	Stockpile	Spec	DCC	0.4	6.4	16.7	76.5									
2433-62	Stockpile	Spec	DCC	0.5	6.0	17.0	76.5									
2434-62	Stockpile	Spec	DCC	0.5	6.5	16.6	76.4									
2435-62	Stockpile	Spec	DCC	0.5	6.0	16.5	77.0									
2436-62	Stockpile	Spec	DCC	0.4	5.6	16.6	77.4	0.7								
2584-62	Stockpile	Spec	DCC	0.8	6.0	17.1	76.1									
2585-62	Stockpile	Spec	DCC	0.5	5.1	17.1	77.3									
2586-62	Stockpile	Spec	DCC	0.3	5.6	16.8	77.3									
2587-62	Stockpile	Spec	DCC	0.4	5.7	16.7	77.2									
2588-62	Stockpile	Spec	DCC	0.4	5.8	16.7	77.1									
2589-62	Stockpile	Spec	DCC	0.5	5.7	16.9	76.9	0.7								
2665-62	Stockpile	Spec	DCC	0.9	6.5	16.8	75.8									
2666-62	Stockpile	Spec	DCC	0.9	6.1	16.6	76.4									
2667-62	Stockpile	Spec	DCC	0.9	6.0	16.6	76.5									
2668-62	Stockpile	Spec	DCC	0.8	6.1	16.4	76.7									
2669-62	Stockpile	Spec	DCC	0.8	6.2	16.3	76.7									
2670-62	Stockpile	Spec	DCC	0.8	7.1	16.2	75.9	0.7								

STATE Ohio

MINE OR TRADE NAME Nelms

2105-62	P/S 1 1/4 x 3/8	D	DPW	1.7	9.2	41.3	47.8	4.7	13230	13460						
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COUNTRY Pakistan

MINE OR TRADE NAME Quetta

2828-62	Special	Spec	—	7.6	9.8	39.8	42.8	1.7	10660	11540	1900	2040	2120	2280		
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