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Mines Branch Information Circular IC 173

ANALYSES OF COAL AND COKE DURING 1964

by

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

INTRODUCTION

The Solid Fuels Laboratory 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 fifth of an annual series, tabulates the analyses of commercial coal and coke samples received by the Division during 1964.

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. As an easy reference, the analyses are arranged by province and state.

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GLOSSARY OF ABBREVIATED TERMS

DRB	Defence Research Board
DND	Department of National Defence
DOT	Department of Transport
DVA	Department of Veterans Affairs
DPW	Department of Public Works
FMP	Fuels and Mining Practice Division
Justice	Department of Justice
DHW	Department of National Health and Welfare
D	Delivered
ND	Not designated
N/S	Nut Slack
P/S	Prepared Stoker
Rd	Round hole screen
Sc	Screened
S	Special
Sq	Square hole screen
S/N	Stoker, Nut
T	Tipple

Direction des mines
Circulaire d'information IC 173

ANALYSES DE HOUILLE ET DE COKE EN 1964

par

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

RÉSUMÉ

Le Laboratoire 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 cinquième 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 1964.

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". Pour les fins de référence, les analyses sont classées par province et par état.

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GLOSSAIRE DES ABRÉVIATIONS

DRB	Conseil de Recherches pour la Défense
DND	Ministère de la Défense nationale
DOT	Ministère des Transports
DVA	Ministère des Affaires des Anciens combattants
DPW	Ministère des Travaux publics
FMP	Division des combustibles et du génie minier
Justice	Ministère de la Justice
DHW	Ministère de la Santé nationale et du Bien-être social
D	Livré
ND	Non désigné
N/S	Menus galletin
P/S	Foyer mécanique préparé
Rd	Rond
Sc	Charbon criblé
S	Spécial
Sq	Carré
S/N	Stoker, nut
T	Culbuteur

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I CANADIAN COALS
PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS
BITUMINOUS COAL

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									Btu/lb Gross	Btu/lb Cross	
3042-64	Lump 6 x 1	D	DND	1.4	4.3	37.9	56.4	2.2	14360	14570	60
3510-64	Lump 6 x 1	D	DND	1.1	7.5	37.4	54.0	3.8	14150	14310	95
2736-64	Egg + 1 1/4 rd	T	FMP	2.1	5.4	37.7	54.8	2.4	14180	14470	
2745-64	Egg 7 x 1 1/4 rd	T	FMP	2.8	5.2	38.0	54.0	2.6	14100	14500	
2721-64	Nut 2 x 1 1/4 rd	T	FMP	1.2	6.4	36.2	56.2	2.7	14390	14570	
2737-64	Nut 1 1/2 x 3/4 rd	T	FMP	2.3	5.6	37.3	54.8	2.8	13940	14260	
2746-64	Nut	T	FMP	2.4	4.1	37.7	55.8	1.9	14120	14470	
2387-64	S/N 2 x 1	D	DVA	1.2	5.7	37.5	55.6	2.5	14310	14490	876
2666-64	S/N 2 x 1	D	DVA	1.6	4.2	39.8	54.4	2.2	14180	14400	540
2048-64	Nut 2 x 1/2	D	DRB	3.4	13.4	34.0	49.2	4.3	12580	13020	
2382-64	Nut 2 x 1/2	D	DRB	5.2	7.9	35.7	51.2	2.8	13210	13920	
2627-64	Nut 2 x 1/2	D	DRB	3.4	8.8	34.0	53.8	3.2	13260	13730	
2904-64	Nut 2 x 1/2	D	DRB	1.7	4.9	37.5	55.9	1.6	14370	14620	
3392-64	Nut 2 x 1/2	D	DRB	5.5	6.5	34.4	53.6	1.9	13550	14340	
2722-64	Screened + 2" sq	T	FMP	1.1	4.8	36.7	57.4	2.1	14640	14800	
2728-64	Screened + 2"	T	FMP	1.8	6.5	37.6	54.0	3.4	13990	14240	
2733-64	Screened + 1 1/2" slot	T	FMP	2.0	4.9	36.2	56.9	1.7	14220	14510	
2769-64	Screened + 1 1/2"	T	FMP	3.6	5.6	38.5	52.3	2.9	13600	14110	
2738-64	Pea 3/4 rd x 1/4 slot	T	FMP	2.9	3.9	37.6	55.6	2.4	14080	14500	
2747-64	Pea 3/4 rd x 1/4 slot	T	FMP	2.6	3.0	38.1	56.3	2.1	14340	14710	
2986-64	P/S 2 x 1/8	D	DND	1.5	3.9	38.4	56.2	1.9	14410	14630	102
3144-64	P/S 2 x 1/8	D	DND	3.7	4.6	35.9	55.8	1.8	14000	14540	158
2614-64	P/S 1 1/2 x 1/4	D	DND	2.7	9.5	33.7	54.1	1.3	13270	13640	202
2618-64	P/S 1 1/2 x 5/8	D	DVA	3.0	6.9	36.2	53.9	2.9	13560	13970	1356
2020-64	P/S 1 1/2 x 1/8	D	DND	4.2	11.9	34.8	49.1	4.9	12540	13080	440
2577-64	P/S 3/4 x 1/4	D	DND	1.3	7.1	38.0	53.6	3.7	13840	14030	179
3352-64	P/S 3/4 x 1/4	D	DND	2.8	5.3	34.5	57.4	1.0	14220	14620	1198
2011-64	N/S 2 x 0	D	DVA	5.3	6.8	35.4	52.5	2.8	13290	14030	133
2014-64	N/S 2 x 0	D	DND	2.6	6.4	37.7	53.3	2.9	13720	14090	1176
2059-64	N/S 2 x 0	D	DND	4.0	5.0	36.4	54.6	3.3	13830	14410	1386
2060-64	N/S 2 x 0	D	DND	7.0	6.4	34.6	52.0	3.1	13100	14090	112
2061-64	N/S 2 x 0	D	DND	4.6	5.5	37.1	52.8	2.3	13510	14160	316
2062-64	N/S 2 x 0	D	DND	3.4	4.8	38.8	53.0	2.8	13940	14430	585
2063-64	N/S 2 x 0	D	DND	4.5	7.8	36.8	50.9	2.7	13220	13840	437
2093-64	N/S 2 x 0	D	DND	6.4	4.7	36.9	52.0	2.5	13480	14400	1116
2095-64	N/S 2 x 0	D	DND	5.3	5.5	36.6	52.6	1.7	13600	14360	1220
2096-64	N/S 2 x 0	D	DND	5.9	5.7	36.1	52.3	2.5	13460	14290	135
2114-64	N/S 2 x 0	D	DND	2.6	7.1	35.9	54.4	2.8	14050	14430	446
2115-64	N/S 2 x 0	D	DND	3.0	4.6	39.0	53.4	2.6	14090	14520	1168
2121-64	N/S 2 x 0	D	DND	10.0	7.5	34.7	47.8	2.9	12480	13870	1066
2146-64	N/S 2 x 0	D	DND	2.9	5.9	38.5	52.7	4.0	13740	14150	651
2150-64	N/S 2 x 0	D	DND	4.7	3.6	38.6	53.1	2.5	13980	14670	1253
2207-64	N/S 2 x 0	D	DND	6.2	10.0	33.1	50.7	3.0	13510	14410	136
2208-64	N/S 2 x 0	D	DND	4.3	9.3	34.8	51.6	3.5	13140	13740	330
2210-64	N/S 2 x 0	D	DND	4.8	9.2	34.5	51.5	3.2	13100	13770	1007
2215-64	N/S 2 x 0	D	DND	2.3	9.5	33.8	54.4	3.4	13660	13980	601
2217-64	N/S 2 x 0	D	DND	3.7	9.1	35.9	51.3	4.1	13130	13630	117
2242-64	N/S 2 x 0	D	DND	4.1	6.9	36.6	52.4	3.3	13340	13910	1167
2245-64	N/S 2 x 0	D	DND	5.7	4.5	38.2	51.6	2.9	13640	14460	1025
2279-64	N/S 2 x 0	D	DND	6.3	7.2	36.0	50.5	2.7	13010	13890	954
2322-64	N/S 2 x 0	D	DND	2.6	6.7	37.7	53.0	3.1	13770	14130	1179
2324-64	N/S 2 x 0	D	DND	4.6	8.2	35.5	51.7	3.5	13350	14000	145
2329-64	N/S 2 x 0	D	DND	3.4	7.1	37.0	52.5	3.0	13400	13870	584
2331-64	N/S 2 x 0	D	DND	4.1	6.9	37.1	51.9	2.9	13420	14000	1025
2334-64	N/S 2 x 0	D	DND	5.4	8.5	34.1	52.0	3.0	13220	13970	272
2335-64	N/S 2 x 0	D	DND	5.4	7.7	35.5	51.4	2.9	13180	13930	1190
2363-64	N/S 2 x 0	D	DND	3.2	8.2	35.7	52.9	3.2	13460	13910	483
2365-64	N/S 2 x 0	D	DND	4.8	6.9	34.9	53.4	2.7	13440	14110	853
2366-64	N/S 2 x 0	D	DND	6.5	7.8	33.6	52.1	3.0	13080	13980	122
2394-64	N/S 2 x 0	D	DND	4.6	7.6	35.8	52.0	3.6	13190	13820	1015
2420-64	N/S 2 x 0	D	DND	3.2	7.8	36.3	52.7	3.3	13300	13740	834
2440-64	N/S 2 x 0	D	DND	4.4	8.1	34.8	52.7	3.1	13410	14030	324
2441-64	N/S 2 x 0	D	DND	3.9	7.4	36.5	52.2	3.0	13440	13980	1206

PROVINCE NOVA SCOTIA
 CAPE BRETON COAL FIELDS
 BITUMINOUS COAL
 AREA Sydney Coal Field OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									Btu/lb Gross	Btu/lb Gross	
2442-64	N/S 2 x 0	D	DND	3.9	6.8	36.9	52.4	3.0	13240	13780	649
2444-64	N/S 2 x 0	D	DND	4.9	8.5	35.1	51.5	3.3	12960	13620	159
2445-64	N/S 2 x 0	D	DND	4.6	7.5	35.3	52.6	3.1	13310	13960	972
2458-64	N/S 2 x 0	D	DND	5.3	7.7	36.1	50.9	3.4	13150	13890	1138
2459-64	N/S 2 x 0	D	DND	1.9	7.4	35.8	54.9	3.2	13840	14100	487
2471-64	N/S 2 x 0	D	DND	2.9	5.6	38.3	53.2	3.0	13850	14250	1163
2472-64	N/S 2 x 0	D	DND	3.7	6.3	37.6	52.4	3.4	13520	14040	112
2502-64	N/S 2 x 0	D	DND	5.8	8.5	34.4	51.3	2.7	12920	13710	1054
2505-64	N/S 2 x 0	D	DND	2.8	5.5	37.4	54.3	3.0	13790	14190	351
2519-64	N/S 2 x 0	D	DND	3.5	8.3	34.6	53.6	2.6	13350	13840	661
2520-64	N/S 2 x 0	D	DND	3.6	7.6	34.8	54.0	2.4	13540	14050	1028
2521-64	N/S 2 x 0	D	DND	5.0	7.1	35.5	52.4	3.4	13240	13940	84
2522-64	N/S 2 x 0	D	DND	1.9	6.6	36.1	55.4	2.6	13900	14170	127
2530-64	N/S 2 x 0	D	DND	2.9	8.6	35.1	53.4	2.9	13350	13750	470
2539-64	N/S 2 x 0	D	DND	3.4	4.9	37.9	53.8	2.5	13650	14130	1772
2540-64	N/S 2 x 0	D	DND	4.4	5.5	36.3	53.8	2.9	13490	14110	40
2545-64	N/S 2 x 0	D	DND	4.2	7.0	36.7	52.1	3.3	13350	13930	933
2558-64	N/S 2 x 0	D	DND	2.9	8.5	35.4	53.2	3.6	13370	13770	639
2578-64	N/S 2 x 0	D	DND	3.1	5.9	38.0	53.0	2.8	13705	14141	1145
2580-64	N/S 2 x 0	D	DND	4.6	7.7	35.5	52.2	2.9	13290	13930	1066
2599-64	N/S 2 x 0	D	DND	3.8	7.9	36.6	51.7	3.2	13380	13900	520
2600-64	N/S 2 x 0	D	DND	4.7	8.9	34.5	51.9	3.8	12930	13570	122
2601-64	N/S 2 x 0	D	DND	3.3	6.9	36.5	53.3	2.8	13710	14170	816
2602-64	N/S 2 x 0	D	DND	3.3	6.7	37.5	52.5	2.7	13750	14220	288
2605-64	N/S 2 x 0	D	DND	5.1	9.8	35.2	49.9	3.7	12710	13390	802
2622-64	N/S 2 x 0	D	DND	2.9	6.9	36.8	53.4	3.0	13580	13980	293
2635-64	N/S 2 x 0	D	DND	2.5	5.2	37.5	54.8	3.1	13750	14100	131
2637-64	N/S 2 x 0	D	DND	4.4	5.7	38.0	51.9	3.1	13440	14060	437
2667-64	N/S 2 x 0	D	DND	3.1	8.5	34.9	53.5	3.3	13370	13790	385
2668-64	N/S 2 x 0	D	DND	2.6	7.6	35.4	54.4	3.1	13630	13990	249
2688-64	N/S 2 x 0	D	DND	3.8	7.8	35.6	52.8	3.5	13050	13570	57
2689-64	N/S 2 x 0	D	DND	3.9	8.3	36.5	51.3	3.3	12910	13430	81
2695-64	N/S 2 x 0	D	DND	3.3	4.6	37.3	54.8	2.2	13770	14240	1013
2706-64	N/S 2 x 0	D	DND	3.5	7.8	34.0	54.6	2.8	13770	14280	134
2789-64	N/S 2 x 0	D	DND	2.1	6.1	37.0	54.8	2.4	13710	14010	68
2790-64	N/S 2 x 0	D	DND	2.4	8.2	35.8	53.6	3.2	13400	13730	352
2791-64	N/S 2 x 0	D	DND	1.8	5.4	38.7	54.1	2.3	14120	14370	138
2794-64	N/S 2 x 0	D	DND	2.9	5.8	35.8	55.5	2.9	13900	14320	249
2801-64	N/S 2 x 0	D	DND	3.3	6.1	35.2	55.4	2.6	13900	14370	305
2804-64	N/S 2 x 0	D	DND	2.3	6.8	39.1	51.8	2.9	13590	13910	528
2846-64	N/S 2 x 0	D	DND	4.6	7.6	36.6	51.2	3.2	13180	13820	595
2850-64	N/S 2 x 0	D	DND	3.6	6.4	34.8	55.2	2.5	13730	14250	50
2851-64	N/S 2 x 0	D	DND	5.6	7.8	34.6	52.0	2.6	13090	13870	632
2900-64	N/S 2 x 0	D	DND	2.3	4.5	38.0	55.4	1.8	14230	14560	297
2932-64	N/S 2 x 0	D	DND	3.7	4.9	38.3	53.1	2.8	13980	14520	896
2939-64	N/S 2 x 0	D	DND	4.5	6.9	34.9	53.7	2.8	13350	13960	62
2940-64	N/S 2 x 0	D	DND	3.9	7.2	34.1	54.8	2.8	13460	14010	357
2941-64	N/S 2 x 0	D	DND	2.0	6.0	37.6	54.4	3.1	13960	14240	74
2949-64	N/S 2 x 0	D	DND	3.5	7.6	35.0	53.9	3.1	13410	13890	270
2973-64	N/S 2 x 0	D	DND	1.6	7.0	36.6	54.8	3.2	13670	13890	580
2976-64	N/S 2 x 0	D	DND	4.1	7.8	34.2	53.9	3.1	13240	13800	257
2988-64	N/S 2 x 0	D	DND	2.6	6.9	37.7	52.8	3.1	13610	13970	300
2999-64	N/S 2 x 0	D	DND	2.1	6.2	36.1	55.6	2.6	13990	14290	588
3011-64	N/S 2 x 0	D	DND	3.0	8.5	34.0	54.5	3.1	13240	13650	125
3012-64	N/S 2 x 0	D	DND	5.7	7.5	32.9	53.9	2.5	13130	13920	1374
3015-64	N/S 2 x 0	D	DND	2.9	7.5	35.7	53.9	3.3	13420	13830	295
3017-64	N/S 2 x 0	D	DND	3.2	7.7	34.6	54.5	2.7	13450	13890	346
3030-64	N/S 2 x 0	D	DND	2.5	8.5	35.2	53.8	3.4	13290	13630	250
3033-64	N/S 2 x 0	D	DND	3.5	7.4	35.9	53.2	3.2	13410	13900	869
3038-64	N/S 2 x 0	D	DND	2.4	7.6	33.5	56.5	2.7	13670	14020	261
3049-64	N/S 2 x 0	D	DND	2.8	8.1	33.9	55.2	2.9	13610	14000	58
3075-64	N/S 2 x 0	D	DND	3.7	7.0	33.9	55.4	2.5	13680	14220	104
3076-64	N/S 2 x 0	D	DND	2.6	8.6	34.5	54.3	2.6	13730	14100	819
3128-64	N/S 2 x 0	D	DND	5.1	7.6	34.5	52.8	3.1	13190	13900	1026
3130-64	N/S 2 x 0	D	DND	3.4	5.5	30.1	61.0	2.8	13170	13630	482
3163-64	N/S 2 x 0	D	DND	3.6	7.7	35.9	52.8	3.2	13280	13770	374
3220-64	N/S 2 x 0	D	DND	2.3	8.2	34.0	55.5	2.1	13700	14020	880
3221-64	N/S 2 x 0	D	DND	3.2	6.7	36.2	53.9	2.8	13450	13900	123
3222-64	N/S 2 x 0	D	DND	2.5	8.0	34.0	55.5	2.5	13600	13950	801
3264-64	N/S 2 x 0	D	DND	3.0	7.3	36.5	53.2	3.3	13440	13850	1161
3351-64	N/S 2 x 0	D	DND	5.8	7.8	35.5	50.9	3.1	12970	13770	1025
3370-64	N/S 2 x 0	D	DND	1.7	8.7	34.4	55.2	2.7	13690	13920	561
3382-64	N/S 2 x 0	D	DND	2.9	6.6	36.6	53.9	3.1	13600	14010	733
3385-64	N/S 2 x 0	D	DND	2.7	6.2	35.3	55.8	2.1	13970	14360	957
3408-64	N/S 2 x 0	D	DND	1.6	6.9	35.9	55.6	2.6	13870	14100	175

PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS
AREA Sydney Coal Field BITUMINOUS COAL OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									Btu/lb Gross	Btu/lb Gross	
3412-64	N/S 2 x 0	D	DND	2.7	8.3	34.0	55.0	2.5	13640	14030	1080
3413-64	N/S 2 x 0	D	DND	3.9	7.0	33.7	55.4	2.3	13760	14310	114
3414-64	N/S 2 x 0	D	DND	3.8	6.1	33.4	56.7	1.9	13880	14430	721
3415-64	N/S 2 x 0	D	DND	3.3	7.4	34.9	54.4	2.4	13490	13960	433
3416-64	N/S 2 x 0	D	DND	5.7	7.1	32.6	54.6	1.6	13180	13980	101
3460-64	N/S 2 x 0	D	DND	3.4	8.0	33.3	55.3	2.2	13570	14040	787
3486-64	N/S 2 x 0	D	DND	2.1	8.0	35.4	54.5	3.2	13630	13920	372
3488-64	N/S 2 x 0	D	DND	3.5	8.2	36.2	52.1	3.6	13230	13710	1148
3316-64	N/S 1 1/2 x 0	D	DFW	2.8	6.5	34.2	56.5	2.2	13700	14090	
3369-64	N/S 1 1/2 x 0	D	DOT	2.6	8.6	32.9	55.9	1.5	13950	13950	4000
2085-64	N/S 1 1/2 x 0	D	DVA	5.7	7.5	33.9	52.9	2.4	13340	14140	125
2280-64	N/S 1 1/2 x 0	D	DVA	4.6	12.6	33.2	49.6	2.4	12410	13020	196
3032-64	N/S 1 1/2 x 0	D	DVA	4.7	7.3	34.8	53.2	2.3	13130	13780	869
2108-64	N/S 1 1/2 x 0	D	FMP	1.7	5.6	35.7	57.0	2.5	14480	14720	
2362-64	N/S 1 1/2 x 0	D	DND	6.1	8.4	33.5	52.0	1.8	12400	13210	516
2636-64	N/S 1 1/2 x 0	D	DND	2.7	5.7	37.8	53.8	3.3	13730	14110	269
3230-64	N/S 1 1/2 x 0	D	Justice	3.9	7.1	33.2	55.8	2.3	13690	14250	361
3310-64	N/S 1 1/2 x 0	D	DFW	0.9	11.2	33.1	54.8	2.6	13560	13690	
2739-64	Go Slack 1 1/2 rd x 0	T	FMP	3.7	6.3	35.7	54.3	2.2	13590	14120	
2748-64	Go Slack 1 1/2 rd x 0	T	FMP	4.0	5.5	36.5	54.0	1.7	13660	14230	
2098-64	Slack 1 x 0	D	Justice	8.1	7.0	34.2	50.7	2.4	13090	14250	649
2239-64	Slack 1 x 0	D	Justice	6.7	6.5	34.4	52.4	2.2	13280	14240	609
2382-64	Slack 1 x 0	D	Justice	5.2	7.9	35.7	51.2	2.8	13210	13920	529
2433-64	Slack 1 x 0	D	Justice	3.4	6.1	35.5	55.0	2.2	13780	14260	
2588-64	Slack 1 x 0	D	Justice	5.5	8.2	34.0	52.3	2.7	12950	13700	205
2915-64	Slack 1 x 0	D	Justice	5.1	8.2	35.1	51.6	0.6	13110	13810	269
2938-64	Slack 1 x 0	D	Justice	5.5	6.7	34.5	53.3	3.0	13090	13850	204
3019-64	Slack 1 x 0	D	Justice	3.8	6.7	34.4	55.1	2.7	13600	14140	347
3499-64	Slack 1 x 0	D	Justice	1.2	6.5	33.9	58.4	2.4	14160	14330	556
2120-64	Slack 3/4 x 0	D	Justice	15.1	6.9	30.2	47.8	2.6	11840	13950	50
2290-64	Slack 3/4 x 0	D	Justice	8.4	7.5	33.3	50.8	2.4	12630	13790	100
2292-64	Slack 3/4 x 0	S	FMP	2.4	7.7	36.9	53.0	3.3	13440	13770	
2370-64	Slack 3/4 x 0	S	FMP	4.0	8.3	36.9	50.8	4.0	13270	13820	
2371-64	Slack 3/4 x 0	D	Justice	8.0	7.6	32.8	51.6	2.9	12940	14060	200
2431-64	Slack 3/4 x 0	D	Justice	5.3	8.2	33.0	53.5	2.4	13200	13950	200
2493-64	Slack 3/4 x 0	D	DVA	4.5	6.8	34.7	54.0	2.6	13580	14220	119
2670-64	Slack 3/4 x 0	D	Justice	2.7	7.2	37.1	53.0	3.1	13320	13690	205
2910-64	Slack 3/4 x 0	D	Justice	2.8	8.0	34.3	54.9	3.1	13610	14000	450
2911-64	Slack 3/4 x 0	D	Justice	2.6	7.3	34.6	55.5	2.8	13680	14040	500
2918-64	Slack 3/4 x 0	D	DVA	3.9	7.3	34.9	53.9	2.9	13400	13940	102
2942-64	Slack 3/4 x 0	D	Justice	3.1	7.6	33.8	55.5	2.9	13650	14090	500
2943-64	Slack 3/4 x 0	D	Justice	1.1	8.1	35.5	55.3	3.1	14000	14160	600
3225-64	Slack 3/4 x 0	D	Justice	4.9	7.4	35.2	52.5	3.7	13140	13810	489
3419-64	Slack 3/4 x 0	D	Justice	5.4	6.8	32.8	55.0	1.7	13500	14260	600
2723-64	Slack 1 1/2 x 0	T	FMP	3.2	9.4	34.6	52.8	3.2	13390	13830	
2729-64	Slack 1 1/2 x 0	T	FMP	2.4	8.3	36.1	53.2	2.0	13570	13900	
2734-64	Slack 1 1/2 x 0	T	FMP	3.7	6.5	33.5	56.3	3.0	13540	14050	
2770-64	Slack 1 1/2 x 0	T	FMP	2.2	7.0	37.8	53.0	3.9	13530	13830	
2724-64	Fines 1-1/8 Slot x 0	T	FMP	3.3	9.3	34.3	53.1	2.2	13350	13810	
2730-64	Fines 1 1/8 x 3/8 Slot	T	FMP	1.3	6.3	36.2	56.2	2.4	14050	14230	
2740-64	Fines 1/4 Slot x 0	T	FMP	3.9	8.9	34.0	53.2	1.7	13160	13680	
2749-64	Fines 1/4 Slot x 0	T	FMP	3.4	9.6	34.7	52.3	2.0	13060	13530	
OPERATOR Bras d'Or Coal Co., Ltd. (Four Star Mine)											
2713-64	Nut 2 x 3/4	T	FMP	2.8	11.2	33.5	52.5	7.3	12660	13030	
2004-64	P/S 2 x 1/8	D	DND	3.2	11.7	33.6	51.5	5.8	12970	12990	65
2067-64	P/S 2 x 1/8	D	DND	3.8	7.7	35.1	53.4	5.6	13120	13650	26
2417-64	P/S 2 x 1/8	D	DND	6.0	10.6	33.9	49.5	5.9	12290	13070	10
3000-64	P/S 1 1/2 x 1/4	D	DND	1.9	10.6	34.5	53.0	6.5	12810	13060	35
3410-64	P/S 1 1/2 x 1/4	D	DND	5.0	13.7	32.8	48.5	6.2	12010	12630	81
2714-64	Stoker 3/4 x 5/16	T	FMP	2.8	10.2	34.8	52.2	6.2	12830	13120	
2671-64	P/S 3/4 x 1/4	D	DND	2.2	8.9	35.8	53.1	6.0	13040	13330	50
3411-64	N/S 2 x 0	D	DND	6.5	9.8	32.3	51.4	5.0	12420	13280	620
2077-64	Slack 3/4 x 0	D	DND	3.7	6.6	35.8	53.9	5.1	13470	13980	996
2227-64	Slack 3/4 x 0	D	DND	5.6	15.7	31.7	47.0	4.1	11490	12170	1017
2257-64	Slack 3/4 x 0	D	DND	4.1	10.3	34.5	51.1	5.9	12630	13160	1009
2258-64	Slack 3/4 x 0	D	DND	4.0	10.0	34.7	51.3	6.1	12870	13400	996

PROVINCE NOVA SCOTIA
CAPE BRETON COAL FIELDS
BITUMINOUS COAL

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		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									Btu/lb Gross	Btu/lb Gross	
2281-64	Slack 3/4 x 0	D	DND	5.2	13.9	32.6	48.3	4.9	11890	12540	968
2321-64	Slack 3/4 x 0	D	DND	4.8	13.6	32.2	49.4	4.3	11900	12500	980
2416-64	Slack 3/4 x 0	D	DND	5.4	15.1	31.8	47.7	4.5	11630	12300	990
2447-64	Slack 3/4 x 0	D	DND	4.8	11.8	33.4	50.0	4.9	12340	12950	996
2501-64	Slack 3/4 x 0	D	DND	3.7	11.5	33.7	51.1	5.4	12420	12900	1004
2538-64	Slack 3/4 x 0	D	DND	3.3	10.9	34.7	51.1	5.5	12630	13070	998
2608-64	Slack 3/4 x 0	D	DND	2.8	10.3	35.1	51.8	5.4	12780	13150	645
2715-64	Slack 3/4 x 0	T	FMP	5.2	9.6	34.4	50.8	4.6	12620	13310	
2909-64	Slack 3/4 x 0	D	FMP	3.9	10.8	34.0	51.3	5.4	12400	12890	746
3009-64	Slack 3/4 x 0	D	DND	4.4	10.9	33.4	51.3	5.4	12400	12960	1000
3162-64	Slack 3/4 x 0	D	DND	4.0	9.8	33.8	52.4	5.0	12670	13190	972
3315-64	Slack 3/4 x 0	D	DND	4.7	9.6	34.1	51.6	5.4	12610	13220	986
3400-64	Slack 3/4 x 0	D	DND	3.8	10.3	34.0	51.9	5.5	12670	13160	970
2716-64	Fines 5/16 x 0	T	FMP	2.5	9.7	35.0	52.8	5.1	13000	13330	

AREA Inverness Coal Field

OPERATOR Chestico Mining Co.

2814-64	Crushed Screened + 2" Lump	T	FMP	3.4	20.1	33.1	43.4	9.8	10650	11030	
2815-64	Nut	T	FMP	3.6	16.2	34.4	45.8	8.1	11250	11670	
2816-64	Slack	T	FMP	3.4	14.7	36.5	45.4	5.2	11750	12170	

OPERATOR Evans' Coal Mines Ltd.

2806-64	Medium Lump 4 x 2	T	FMP	4.8	11.2	35.4	48.6	6.6	11800	12390	
2807-64	Egg 1/2 x 1	T	FMP	5.6	8.7	35.9	49.8	6.1	12090	12810	
2808-64	Nut 1 x 3/4	T	FMP	5.7	9.5	35.3	49.5	6.6	11920	12650	
2809-64	Stoker 3/4 x 1/2	T	FMP	5.9	9.9	35.3	48.9	6.3	11840	12580	
2810-64	Fines 1/2 x 0	T	FMP	8.6	10.8	34.8	45.8	5.4	11330	12400	

OPERATOR MacIsaac Coal Mine.

2195-64	Pea	D	DPW	10.9	10.2	33.7	45.2	5.2	10520	11800	
2611-64	Pea	D	DPW	9.1	12.6	37.5	40.8	6.6	10580	11640	

OPERATOR Scottish Coal Co., Ltd.

2819-64	Nut Stoker 1 x 1/2	T	FMP	4.5	20.7	33.4	41.4	7.2	10200	10680	
2820-64	Slack 1/2 x 0	T	FMP	4.2	21.1	33.4	41.3	7.0	10180	10630	

AREA Pictou Coal Field

Mainland Coal Fields

OPERATOR Acadia Coal Co., Ltd.

2754-64	Egg + 1 1/2	T	FMP	4.2	9.9	27.8	58.1	0.7	12800	13360	
2855-64	Nut 1 1/2 x 3/4 Sq	T	FMP	3.1	10.6	27.6	58.7	0.8	12920	13330	
2756-64	Stoker 1 1/2 Sq x 3/16 Tyrod	T	FMP	3.3	11.0	27.5	58.2	0.9	12750	13180	
3439-64	N/S 2 x 0	D	DND	5.2	12.1	27.5	55.2	0.5	12410	13080	11
2088-64	Slack 1 1/2 x 1/32	D	DND	4.0	10.8	29.5	55.7	0.5	12920	13450	675
2090-64	Slack 1 1/2 x 1/32	D	DND	4.8	9.2	29.3	56.7	0.6	12900	13550	1048
2211-64	Slack 1 1/2 x 1/32	D	DND	5.4	12.9	27.1	54.6	0.7	12390	13090	1030
2278-64	Slack 1 1/2 x 1/32	D	DND	5.5	13.1	27.8	53.6	0.7	12310	13020	999
2327-64	Slack 1 1/2 x 1/32	D	DND	6.0	11.7	27.5	54.8	0.7	12300	13080	833
2328-64	Slack 1 1/2 x 1/32	D	DND	4.8	11.6	26.8	56.8	0.8	12540	13170	948
2393-64	Slack 1 1/2 x 1/32	D	DND	5.9	11.4	27.7	55.0	0.5	12310	13080	968
2425-64	Slack 1 1/2 x 1/32	D	DND	6.4	11.9	27.4	54.3	0.6	12270	13100	969
2500-64	Slack 1 1/2 x 1/32	D	DND	5.1	12.7	30.2	52.0	0.7	12380	13040	1024
2696-64	Slack 1 1/2 x 1/32	D	DND	3.4	10.8	28.8	57.0	0.6	12810	13250	995
2788-64	Slack 1 1/2 x 1/32	D	DND	4.1	12.0	27.2	56.7	0.5	12540	13070	1022
2868-64	Slack 1 1/2 x 1/32	D	DND	3.5	10.9	28.2	57.4	0.7	12830	13300	974
3014-64	Slack 1 1/2 x 1/32	D	DND	12.5	11.6	26.3	49.6	0.6	11340	12960	1011
3129-64	Slack 1 1/2 x 1/32	D	DND	4.8	11.5	27.7	56.0	0.7	12640	13270	718
3275-64	Slack 1 1/2 x 1/32	D	DND	1.5	12.5	28.6	57.4	0.7	12720	12920	724
2757-64	Fines 3/16 x 0 Tyrod	T	FMP	5.7	12.4	26.9	55.0	1.0	12160	12890	
2758-64	Washed Sslint	T	FMP	6.6	14.4	26.4	52.6	0.8	11630	12450	
3459-64	P/S	D	DVA	4.4	9.8	23.7	62.1	0.6	13170	13780	516
2005-64	N/S 2 x 0	D	DND	10.2	8.6	26.2	55.0	1.8	12310	13710	667
2422-64	N/S 2 x 0	D	DND	11.8	7.4	26.6	54.2	1.9	12270	13910	667

OPERATOR Drummond Coal Co., Ltd.

2763-64	Mine Run	T	FMP	2.9	20.6	24.8	51.7	1.0	11350	11680	
2821-64	Lump + 1 1/2 Sq	T	FMP	3.1	15.9	28.2	52.8	1.7	11850	12230	
2822-64	Nut 1 1/2 x 3/4 Sq	T	FMP	3.4	17.4	26.9	52.3	1.2	11490	11890	
2764-64	Slack 3/4 Sq x 0	T	FMP	6.0	21.4	24.0	48.6	1.6	10560	11230	
2823-64	Slack 3/4 Sq x 0	T	FMP	6.5	18.8	25.1	49.0	1.6	10600	11340	

OPERATOR Greenwood Coal Co., Ltd.

2767-64	Mine Run	T	FMP	4.0	27.3	26.2	42.5	2.0	9780	10180	
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PROVINCE NOVA SCOTIA

BITUMINOUS COAL

AREA Springhill Coal Field

OPERATOR Springhill Coal Mines, Ltd.

Aberdeen Mine
Syndicate Mine

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatiles Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
2923-64	Mine Run	T	FMP	4.1	9.4	32.6	53.9	2.7	12490	13020		
2703-64	Lump	D	Justice	3.1	19.0	29.4	48.5	2.4	11160	11510	402	
2924-64	Lump 1 1/2 x 6	T	FMP	2.5	25.7	28.4	43.4	3.2	10160	10430		
3227-64	Lump 1-1/3 x 2	D	Justice	2.6	20.8	28.4	48.2	2.4	10970	11260	582	
2127-64	Lump 1 1/4 x 2	D	Justice	3.3	18.2	32.1	46.4	2.0	11260	11650	333	
2925-64	1 1/4 x 3/8 x 3/4 Slot	T	FMP	2.5	23.7	29.0	44.8	2.6	10590	10860		
2323-64	P/S 1 1/4 x 1/4	D	Justice	5.0	23.0	28.1	43.9	2.5	10320	10870		
2498-64	P/S 1 1/4 x 1/4	D	Justice	7.4	20.1	28.7	43.8	2.5	10330	11150	670	
3029-64	P/S 1 1/4 x 1/8	D	DND	3.4	24.7	28.5	43.4	3.0	10450	10820	7	
3496-64	P/S 1 1/4 x 1/8	D	DND	5.5	20.5	28.4	45.6	2.7	10650	11270	56	
2154-64	P/S 3/4 x 1/4	D	Justice	6.7	17.6	28.7	47.0	2.4	11150	11950	2388	
2531-64	P/S 3/4 x 1/4	D	Justice	4.7	22.3	28.0	45.0	2.4	10640	11150	613	
2604-64	P/S 3/4 x 1/4	D	Justice	4.2	23.5	28.5	43.8	2.5	10370	10830	811	
2697-64	P/S 3/4 x 1/4	D	Justice	4.2	20.6	28.4	46.8	2.4	10630	11090	712	
2905-64	P/S 3/4 x 1/4	D	Justice	5.9	18.2	29.3	46.6	2.2	10990	11680	712	
3497-64	P/S 3/4 x 1/4	D	Justice	5.2	22.3	27.7	44.8	2.5	10510	11080	377	
2126-64	N/S 1 1/4 x 0	D	Justice	4.0	19.4	29.7	46.9	2.3	11190	11660	117	
3378-64	N/S 1 1/4 x 0	D	Justice	7.4	17.4	28.4	46.8	2.4	10860	11730	117	
2926-64	Slack 3/8 Slot x 0	T	FMP	2.4	22.6	28.8	46.2	2.6	10860	11120		

AREA Joggins Coal Field

OPERATOR River Hebert Coal Co., Ltd.

2927-64	Lump + 1-1/8 Sq	T	FMP	1.3	16.9	35.3	46.5	5.6	12010	12160	
2928-64	Slack - 1-1/8	T	FMP	1.5	21.6	32.1	44.8	4.6	11340	11510	

PROVINCE - NEW BRUNSWICK

BITUMINOUS COAL

Minto Coal Field

AREA Minto and Chipman

OPERATOR Avon Coal Co., Ltd.

3295-64	Lump + 2 1/2 Sq	T	FMP	2.6	20.3	30.3	46.8	9.4	11570	11880	
3296-64	Nut 2 1/2 x 1 1/2 Sq	T	FMP	2.5	15.2	32.8	49.5	8.2	12550	12870	
3297-64	Stoker 1 1/4 x 1/4 Sq	T	FMP	2.0	15.1	33.0	49.9	8.1	12690	12950	
3299-64	N/S 1 1/4 x 0	T	FMP	2.3	15.5	32.4	49.8	7.7	12500	12800	
2012-64	Slack 1 x 0	D	DND	4.3	18.9	31.1	45.7	7.0	11620	12140	992
2051-64	Slack 1 x 0	D	DND	5.3	17.3	31.4	46.0	6.9	11580	12230	994
2097-64	Slack 1 x 0	D	DND	5.5	20.2	30.3	44.0	7.5	11160	11810	993
2149-64	Slack 1 x 0	D	DND	4.5	18.2	31.7	45.6	7.9	11700	12250	1000
2251-64	Slack 1 x 0	D	DND	4.3	17.8	32.2	45.7	7.8	11780	12320	992
2287-64	Slack 1 x 0	D	DND	9.1	17.3	29.0	44.6	6.3	11100	12200	992
2399-64	Slack 1 x 0	D	DND	5.0	18.2	31.2	45.6	7.4	11550	12160	992
2415-64	Slack 1 x 0	D	DND	8.6	16.4	30.1	44.9	6.8	11210	12270	996
2496-64	Slack 1 x 0	D	DND	7.7	20.3	30.2	41.8	7.8	10760	11660	998
2516-64	Slack 1 x 0	D	DND	5.4	16.8	32.0	45.8	6.9	11720	12390	999
2524-64	Slack 1 x 0	D	DND	2.3	21.4	31.7	44.6	7.5	11350	11610	993
2567-64	Slack 1 x 0	D	DND	3.0	16.7	33.1	47.2	7.4	12070	12440	992
2579-64	Slack 1 x 0	D	DND	5.8	18.6	31.2	44.4	7.3	11390	12080	995
2593-64	Slack 1 x 0	D	DND	7.5	18.4	30.1	44.0	6.6	10950	11830	992
2594-64	Slack 1 x 0	D	DND	4.7	15.5	32.1	47.7	7.6	12060	12660	450
2712-64	Slack 1 x 0	D	DND	6.0	18.0	30.7	45.3	7.8	11330	12050	999
2933-64	Slack 1 x 0	D	DND	4.4	15.5	31.8	48.3	7.2	12080	12630	1057
2979-64	Slack 1 x 0	D	DND	2.8	16.5	31.8	48.9	7.6	12150	12510	1015
3004-64	Slack 1 x 0	D	DND	4.6	15.4	32.2	47.8	6.8	11940	12520	1027
3050-64	Slack 1 x 0	D	DND	2.5	17.0	31.7	48.8	7.3	12060	12370	1003
3223-64	Slack 1 x 0	D	DND	2.5	14.6	33.8	49.1	6.9	12530	12850	1023
3300-64	Slack 3/4 x 0	T	FMP	5.5	16.5	30.8	47.2	7.1	11710	12390	
3376-64	Slack 3/4 x 0	D	DND	2.2	15.3	32.7	49.8	7.4	12380	12660	1046
3301-64	Fines 1/4 x 0	T	FMP	4.1	14.7	32.2	49.0	7.3	12300	12820	

OPERATOR Mills, D.W., and R.A., Ltd.

3279-64	Coarse Slack 2 x 0 Sq	T	FMP	3.4	16.8	31.4	48.4	6.5	11970	12390	
3280-64	Nut 2 x 1 Sq	T	FMP	2.4	15.4	32.2	50.0	6.4	12460	12770	
3045-64	P/S 1 1/4 x 3/8	D	DND	1.8	13.6	33.0	51.6	6.1	12860	13090	15
3073-64	P/S 1 1/4 x 3/8	D	DND	1.7	16.3	31.8	50.2	6.2	12528	12740	17
3511-64	P/S 1 1/4 x 3/8	D	DND	0.9	17.2	35.6	49.3	6.7	12420	12530	163

Minto Coal Field
AREA Minto and Chipman

PROVINCE NEW BRUNSWICK
BITUMINOUS COAL

OPERATOR Mills, D.W., and R.A., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Btu/lb Gross	Btu/lb Gross	
2092-64	P/S 1 1/4 x 1/4	D	DND	1.1	14.6	33.6	50.7	6.3	12880	13030	405
2326-64	P/S 1 1/4 x 1/4	D	DND	1.4	13.7	34.2	50.7	6.6	12910	13100	250
2381-64	P/S 1 1/4 x 1/4	D	DND	1.3	14.0	34.5	50.2	6.5	12910	13080	309
3034-64	P/S 1 1/4 x 1/4	D	DND	1.0	15.3	32.2	51.5	6.3	12740	12870	94
3138-64	P/S 1 1/4 x 1/4	D	DND	1.2	15.2	33.2	50.4	6.7	12510	12670	397
3393-64	P/S 1 1/4 x 1/4	D	DND	1.4	15.2	33.2	50.2	6.6	12680	12860	417
3281-64	Stoker 1 x 3/8 Sq	D	FMP	1.7	14.9	32.6	50.8	6.6	12660	12870	
3500-64	Stoker Pea 1/2 x 0	D	DFW	1.1	15.2	33.5	50.2	6.3	12710	12850	
2049-64	Pea Stoker	D	DFW	1.1	11.1	35.9	51.9	6.0	13510	13660	
2402-64	Pea Stoker	D	DFW	1.1	15.0	33.7	50.2	6.3	12630	12770	
2209-64	N/S 2 x 0	D	DND	3.2	13.7	32.5	50.6	6.3	12730	13150	76
3043-64	N/S 2 x 0	D	DND	1.0	14.1	33.5	51.4	5.8	12700	12830	910
3282-64	Fine Slack - 3/8	T	FMP	2.6	13.1	32.9	51.4	7.0	12760	13100	
3283-64	Fines - 1/4	T	FMP	6.1	17.8	30.0	46.1	7.1	11460	12200	

OPERATOR Dufferin Mining Ltd.

3303-64	Lump + 1 1/4	T	FMP	1.0	19.3	34.1	45.6	7.3	11920	12040	
3304-64	Slack - 1 1/4	T	FMP	3.2	25.1	27.0	44.7	6.3	10700	11050	

OPERATOR Mellann, V.C., Ltd.

3290-64	Mine Run	T	FMP	2.3	17.7	33.2	46.8	6.8	12120	12410	
3291-64	Slack	T	FMP	2.9	20.9	31.2	45.0	6.9	11450	11830	

OPERATOR Midland Mining Co.

3294-64	Mine Run	T	FMP	2.5	20.3	30.6	46.6	9.1	11520	11820	
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OPERATOR Newcastle Coal Co., Ltd.

3292-64	Mine Run	T	FMP	2.2	20.8	30.6	46.4	6.0	11690	11950	
2231-64	P/S 1 1/4 x 1/8	D	DND	1.6	17.7	32.5	48.2	7.5	12280	12480	32
3293-64	Slack	T	FMP	2.2	24.6	30.0	43.2	6.0	11150	11400	

OPERATOR Swift, Norman I., Ltd.

3286-64	Mine Run	T	FMP	3.0	22.3	31.7	43.0	10.6	11030	11370	
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OPERATOR Wasson, A.W., Ltd.

3287-64	Mine Run	T	FMP	3.2	23.5	28.5	44.8	7.8	10980	11340	
3288-64	Mine Run	T	FMP	2.4	22.2	29.0	46.4	7.7	11170	11440	
3289-64	Slack	T	FMP	2.9	25.4	28.2	43.5	7.1	10960	11010	

PROVINCE - SASKATCHEWAN
Souris Valley District

AREA Estevan

LIGNITE

OPERATOR Great West Coal Co., Ltd.

3468-64	Lump + 4 1/2 rd	T	FMP	29.6	5.5	28.9	36.0	0.4	8070	11460	
3469-64	Egg 4 1/2 x 2 rd	T	FMP	25.1	5.0	31.0	38.9	0.4	8820	11780	
3470-64	Nut 2 rd x 1 1/2 Sq	T	FMP	29.1	5.0	30.8	35.1	0.4	8170	11520	
3013-64	2 x 3/4	D	DND	21.5	6.6	32.1	39.8	0.6	9020	11500	205
2569-64	Pea 1 1/2 x 1	D	Justice	34.4	5.8	27.0	32.8	0.5	7460	11370	610
3471-64	Stoker 1 1/2 x 1/2 Sq	T	FMP	28.3	5.2	32.3	34.2	0.4	8220	11460	
2282-64	Pea 1 x 1/2	D	Justice	34.4	7.3	29.8	28.5	0.6	7340	11180	624
2397-64	Pea 1 x 1/2	D	Justice	31.5	8.3	28.0	32.2	1.0	7670	11190	633
2461-64	Pea 1 x 1/2	D	Justice	35.3	6.8	27.3	30.6	0.9	7470	11530	631
2462-64	Pea 1 x 1/2	D	Justice	34.9	6.7	27.5	30.9	0.8	7310	11230	611
2509-64	Pea 1 x 1/2	D	Justice	36.4	5.0	28.9	29.7	0.4	7120	11190	612
2007-64	Slack 1 1/2 x 0	D	Justice	35.2	7.4	26.2	31.2	0.5	7080	10930	635
2076-64	Slack 1 1/2 x 0	D	Justice	33.8	6.7	28.4	31.1	0.6	7480	11300	635
2103-64	Slack 1 1/2 x 0	D	Justice	33.5	7.4	26.5	32.6	0.6	7460	11210	621
2241-64	Slack 1 1/2 x 0	D	Justice	33.3	6.6	28.3	31.8	0.7	7570	11350	631
2638-64	Slack 1 1/2 x 0	D	Justice	34.3	6.4	27.5	31.8	0.5	7290	11100	642
2916-64	N/S 1 1/2 x 0	D	Justice	34.9	6.0	26.8	32.3	0.4	7250	11140	638
3384-64	N/S 1 1/2 x 0	D	Justice	30.6	6.6	30.6	32.2	0.5	7640	11000	628
3472-64	Slack - 1/2 Sq	T	FMP	27.5	6.0	29.6	36.9	0.5	8260	11390	

PROVINCE SASKATCHEWAN

LIGNITE

AREA Bienfait

OPERATOR

Manitoba and Saskatchewan Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									Btu/lb Gross	Btu/lb C-gross	
2035-64	P/S 1 x 1/2	D	DND	32.0	7.2	27.7	33.1	0.5	7590	11160	954
2036-64	P/S 1 x 1/2	D	DND	30.7	6.6	28.6	34.1	0.4	7860	11340	927
2086-64	P/S 1 x 1/2	D	DND	30.4	7.2	28.8	33.6	0.7	7990	11480	923
2087-64	P/S 1 x 1/2	D	DND	30.1	6.7	28.0	35.2	0.4	8040	11500	958
2117-64	P/S 1 x 1/2	D	DND	31.2	7.1	28.9	32.8	0.4	7850	11400	940
2912-64	P/S 1 x 1/2	D	DND	31.3	6.4	28.8	33.5	0.4	7810	11380	971
2984-64	P/S 1 x 1/2	D	DND	34.0	6.1	26.3	33.6	0.4	7450	11290	245
3016-64	P/S 1 x 1/2	D	DND	32.6	6.4	27.6	33.4	0.5	7760	11500	60
3018-64	P/S 1 x 1/2	D	DND	18.1	8.7	33.2	40.0	0.6	8990	10980	242
3028-64	P/S 1 x 1/2	D	DND	30.9	8.4	31.5	29.2	0.5	7490	10840	776
3035-64	P/S 1 x 1/2	D	DND	31.3	7.3	31.1	30.3	0.5	7690	11190	420
3036-64	P/S 1 x 1/2	D	DND	30.7	7.3	27.8	34.2	0.5	7870	11350	609
3093-64	P/S 1 x 1/2	D	DND	29.3	6.5	28.9	35.3	0.5	8060	11390	783
3265-64	P/S 1 x 1/2	D	DND	31.7	7.2	27.4	33.7	0.6	7730	11310	679
3350-64	P/S 1 x 1/2	D	DND	33.8	6.2	27.0	33.0	0.5	7410	11190	761
3402-64	P/S 1 x 1/2	D	DND	31.6	6.9	29.1	32.4	0.4	7620	11140	909

PROVINCE - ALBERTA

SEMI-ANTHRACITE & BITUMINOUS COAL

AREA Cascade

OPERATOR

Canmore Mines Ltd.

3333-64	Stove 1 1/2 x 2 1/2	T	FMP	2.8	6.6	12.0	78.6	0.9	14050	14460	
3335-64	Stoker 1 1/2 x 1/2	T	FMP	5.0	8.0	11.5	75.5	0.8	13550	14260	
2974-64	P/S 1 1/2 x 1/4	D	DHW	0.8	8.4	13.6	77.2	0.7	14060	14180	
2985-64	P/S 1 1/2 x 1/4	D	DND	1.7	7.7	14.7	75.9	0.7	13990	14230	28
3003-64	P/S 1 1/2 x 1/4	D	DND	3.2	7.8	13.4	75.6	0.8	13800	14260	49
3006-64	P/S 1 1/2 x 1/4	D	DHW	0.7	8.0	13.5	77.8	0.8	14140	14230	
3022-64	P/S 1 1/2 x 1/4	D	DHW	0.6	6.9	13.1	79.4	0.8	14420	14510	
3023-64	P/S 1 1/2 x 1/4	D	DHW	0.6	9.6	13.1	76.7	0.7	13860	13940	
3039-64	P/S 1 1/2 x 1/4	D	DND	5.9	8.6	15.2	70.3	0.7	13310	14130	28
3040-64	P/S 1 1/2 x 1/4	D	DHW	0.6	8.9	13.5	77.0	0.8	13870	13950	
3041-64	P/S 1 1/2 x 1/4	D	DHW	0.6	7.9	13.8	77.7	0.8	14240	14320	
3046-64	P/S 1 1/2 x 1/4	D	DND	3.2	7.3	13.5	76.0	0.8	13810	14270	51
3229-64	P/S 1 1/2 x 1/4	D	DND	3.6	7.5	12.6	76.3	1.2	13810	14330	51
3276-64	P/S 1 1/2 x 1/4	D	DND	4.5	6.0	12.6	76.9	0.8	13900	14550	47
3277-64	P/S 1 1/2 x 1/4	D	DND	3.8	7.7	14.8	73.7	1.0	13600	14130	28
3357-64	P/S 1 1/2 x 1/4	D	DND	3.3	6.8	14.7	75.2	0.7	14110	14580	50
3495-64	P/S 1 1/2 x 1/4	D	DND	4.1	7.0	13.4	75.5	0.9	13880	14480	52
2592-64	Stoker	D	DVA	2.5	14.1	13.7	69.7	1.0	12960	13900	114
3336-64	Buckwheat 1/2 x 3/16	T	FMP	6.5	8.6	12.0	72.9	0.7	13100	14020	
3337-64	Slack - 3/16	T	FMP	3.0	9.5	12.2	75.3	0.8	13450	13870	
2978-64	Briquettes	D	DND	0.8	9.1	18.6	71.5	1.0	14140	14260	46
3231-64	Briquettes	D	DND	0.5	8.4	17.9	73.2	1.0	14310	14380	104

AREA Growsnest

OPERATOR

Goleman Collieries Ltd. (Vicary Creek)

3398-64	Export 1 1/4 x 0	T	FMP	1.2	8.0	23.4	67.4	0.6	13890	14050	
3358-64	Export 1 1/4 x 1/4	T	FMP	0.8	8.2	23.5	67.5	0.6	14060	14170	

SUBBITUMINOUS COAL

AREA Gastor

OPERATOR

Battle River Coal Co., Ltd. Mine No. 1046.

3473-64	Lump + 4 1/2 rd	T	FMP	25.2	5.7	30.3	38.8	0.4	8790	11750	
3474-64	Egg 4 1/2 x 2 rd	T	FMP	27.1	6.1	29.6	37.4	0.4	8580	11770	
3475-64	Nut 2 x 1 1/2 rd	T	FMP	25.4	6.5	30.4	37.7	0.5	8730	11690	
2083-64	Nut 2 x 3/4	D	DND	22.6	7.0	31.4	39.0	0.6	9170	11840	
3476-64	Stoker 1 1/2 x 3/4 rd	T	FMP	25.7	6.5	30.3	37.5	0.4	8510	11460	
3477-64	Slack - 3/4 rd	T	FMP	26.5	6.3	29.2	38.0	0.4	8540	11610	

OPERATOR

Forrestburg Collieries, Ltd. Mine No. 1578

3478-64	Lump + 4 1/2 rd	T	FMP	26.0	5.0	31.8	37.2	0.3	8780	11860	
3479-64	Stove 4 1/2 x 2 rd	T	FMP	25.6	5.7	29.7	39.0	0.4	8760	11780	
3480-64	Nut 2 x 1 8q	T	FMP	25.1	5.4	30.5	39.0	0.4	8860	11830	
3375-64	Nut 2 x 3/4	D	DND	25.1	5.6	31.4	37.9	0.5	8690	11590	406

PROVINCE ALBERTA
SUBBITUMINOUS COAL

AREA Oastor

OPERATOR Forrestburg Collieries, Ltd., Mine No. 1578

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									Btu/lb Gross	Btu/lb Gross	
3481-64	Stoker 1 x 3/8 slot	T	FMP	24.8	5.8	30.7	38.7	0.5	8780	11680	
3482-64	Slack - 3/8 slot	T	FMP	26.9	6.5	30.4	36.2	0.5	8240	11270	

AREA Drumheller

OPERATOR Amalgamated Coals Ltd., Mine No. 1573

3463-64	Lump + 4 rd	T	FMP	20.4	5.7	31.9	42.0	0.4	9400	11810	
3464-64	Egg 4 x 2 rd	T	FMP	20.3	6.5	30.7	42.5	0.6	9440	11840	
3465-64	Nut 2 rd x 1-1/8 Sq	T	FMP	21.2	8.2	30.9	39.7	0.5	9000	11430	
3466-64	Stoker 1-1/8 x 1/4 Sq	T	FMP	18.6	9.3	31.3	40.8	0.6	9110	11190	
3467-64	Slack - 3/4 Sq	T	FMP	19.1	9.3	30.1	41.5	0.5	9100	11260	

AREA Edmonton

OPERATOR Black Gem Coal Co., Ltd., Mine No. 1266

3450-64	Channel Sample	T	FMP	24.2	8.0	30.3	37.5	0.3	8610	11350	
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OPERATOR Egg Lake Coal Co., Ltd., Mine No. 1582

3453-64	Channel Sample	T	FMP	26.0	7.0	31.5	35.5	0.3	8440	11410	
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OPERATOR Star-Key Mines Ltd., Mine No. 1626

3454-64	Lump + 4 rd	T	FMP	24.7	8.5	33.6	33.2	0.4	8410	11160	
3455-64	Stove 4 rd x 1-3/4 Sq	T	FMP	24.6	7.0	30.2	38.2	0.3	8610	11410	
3456-64	Nut 1 1/2 x 1 1/4 Sq	T	FMP	25.4	7.5	29.3	37.8	0.2	8520	11420	
3457-64	Stoker 1 1/2 x 7/16 Sq	T	FMP	24.0	8.7	30.0	37.3	0.2	8510	11200	
3458-64	Slack - 7/16	T	FMP	26.1	11.7	26.7	35.5	0.3	7780	10510	

OPERATOR White Mud Creek Coal Co., Ltd., Mine No. 1727

3452-64	Channel Sample	T	FMP	21.5	7.6	31.4	39.5	0.3	9110	11610	
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AREA Lethbridge

OPERATOR Lethbridge Collieries Ltd., Mine No. 1263

3360-64	Lump + 4 rd	T	FMP	11.2	9.2	34.4	45.2	0.9	10690	12040	
3361-64	Stove 4 1/2 x 2 rd	T	FMP	11.8	8.9	33.8	45.5	0.9	10700	12130	
3363-64	Stoker 1 1/2 x 3/4	T	FMP	11.5	10.4	33.8	44.3	0.9	10480	11840	
3364-64	Slack - 3/4	T	FMP	12.2	15.9	31.3	40.6	0.9	9540	10870	

AREA Pembina

OPERATOR Alberta Ltd., Mine No. 1757

3367-64	- 3/4	T	FMP	23.2	9.2	28.5	39.1	0.3	8440	11000	
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AREA Westlock

OPERATOR North Point Coal Co., Ltd., Mine No. 1562

3451-64	Channel Sample	T	FMP	33.7	4.2	34.5	27.6	0.3	7700	11620	
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PROVINCE - BRITISH COLUMBIA
BITUMINOUS COAL

AREA Vancouver Island District

OPERATOR Comox Mining Co., Ltd.

2072-64	Lump 4 x 1	D	DND	2.4	12.6	31.4	53.6	2.6	12630	12930	25
2249-64	Lump 4 x 1	D	DND	2.9	14.2	31.6	51.3	2.1	12480	12850	40
2384-64	Lump 4 x 1	D	DND	2.7	17.8	30.3	49.2	2.8	11740	12070	39
2465-64	Lump 4 x 1	D	DND	4.6	15.2	28.4	51.8	1.4	11810	12370	40
2518-64	Lump 4 x 1	D	DND	1.4	22.6	28.2	47.8	1.1	11430	11590	39
2619-64	Lump 4 x 1	D	DND	5.1	13.2	31.8	49.9	1.9	11880	12520	41
2017-64	P/S 1 1/2 x 1/4	D	DND	3.2	12.7	31.2	52.9	1.9	12510	12920	28
2018-64	P/S 1 1/2 x 1/4	D	DND	3.1	17.5	30.5	48.9	2.6	11780	12160	50
2019-64	P/S 1 1/2 x 1/4	D	DND	6.7	14.3	29.1	49.9	2.3	11780	12630	56
2073-64	P/S 1 1/2 x 1/4	D	DND	4.5	17.5	29.5	48.5	2.7	11600	12150	59
2106-64	P/S 1 1/2 x 1/4	D	DND	4.3	16.3	29.9	49.5	2.5	11890	12430	48
2133-64	P/S 1 1/2 x 1/4	D	DND	3.2	18.4	29.9	48.5	2.8	11560	11940	27
2147-64	P/S 1 1/2 x 1/4	D	DND	3.5	14.4	29.9	52.2	1.6	12440	12890	49
2218-64	P/S 1 1/2 x 1/4	D	DND	4.6	21.4	28.7	45.3	3.5	10990	11520	56
2250-64	P/S 1 1/2 x 1/4	D	DND	6.3	14.8	23.8	55.1	1.1	11760	12560	57
2267-64	P/S 1 1/2 x 1/4	D	DND	5.0	16.1	25.3	53.6	1.5	11600	12300	29
2268-64	P/S 1 1/2 x 1/4	D	DND	4.9	15.7	26.5	52.9	1.6	11880	12490	49
2270-64	P/S 1 1/2 x 1/4	D	DND	4.7	18.3	28.5	48.5	2.5	11510	12080	44

PROVINCE BRITISH COLUMBIA
BITUMINOUS COAL

AREA Vancouver Island District

OPERATOR

Comox Mining Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
2385-64	P/S 1 1/4 x 1/4	D	DND	3.8	16.0	28.7	51.5	1.7	12000	12470	50	
2398-64	P/S 1 1/4 x 1/4	D	DND	3.6	16.8	28.0	51.6	1.7	11830	12270	28	
2466-64	P/S 1 1/4 x 1/4	D	DND	4.6	15.2	28.4	51.8	1.4	11810	12370	60	
2467-64	P/S 1 1/4 x 1/4	D	DND	3.8	22.9	29.0	44.3	3.3	10820	11250	52	
2468-64	P/S 1 1/4 x 1/4	D	DND	3.8	14.9	27.8	53.5	1.6	12100	12580	49	
2489-64	P/S 1 1/4 x 1/4	D	DND	3.9	15.2	26.5	54.4	1.2	11980	12460	51	
2517-64	P/S 1 1/4 x 1/4	D	DND	2.1	21.7	28.7	47.5	2.0	11260	11500	6	
2555-64	P/S 1 1/4 x 1/4	D	DND	1.1	15.0	27.1	56.8	1.6	12680	12820	48	
2566-64	P/S 1 1/4 x 1/4	D	DND	1.8	17.2	26.8	54.2	2.0	12030	12260	40	
2620-64	P/S 1 1/4 x 1/4	D	DND	1.3	16.2	27.9	54.6	2.1	12310	12480	41	
2091-64	P/S 1 x 1/4	D	DND	1.0	20.0	30.0	49.0	3.1	11740	11860	935	
2116-64	P/S 1 x 1/4	D	DND	1.6	22.6	28.8	47.0	3.3	11250	11430	367	
2253-64	P/S 1 x 1/4	D	DND	0.5	18.3	31.0	50.2	3.1	11960	12020	601	
2380-64	P/S 1 x 1/4	D	DND	1.3	18.2	30.1	50.4	2.8	12020	12180	752	
2463-64	P/S 1 x 1/4	D	DND	0.8	19.0	29.5	50.7	0.8	11880	11980	672	
2528-64	P/S 1 x 1/4	D	DND	1.1	19.7	30.0	49.2	2.9	11620	11750	651	
2634-64	P/S 1 x 1/4	D	DND	1.0	18.8	30.2	50.0	2.6	11800	11930	935	
2847-64	P/S 1 x 1/4	D	DND	1.5	18.6	29.5	50.4	3.0	11800	11980	505	
2944-64	P/S 1 x 1/4	D	DND	1.1	22.9	29.1	46.8	4.2	11200	11320	375	
3051-64	P/S 1 x 1/4	D	DND	1.1	21.1	28.8	48.9	3.4	11410	11540	299	
3137-64	P/S 1 x 1/4	D	DND	1.1	18.6	29.5	50.8	2.7	11800	11930	666	
3263-64	P/S 1 x 1/4	D	DND	0.9	21.5	28.6	49.0	3.4	11260	11360	583	
3489-64	P/S 1 x 1/4	D	DND	1.2	19.8	29.2	49.8	3.2	11660	11800	814	

AREA East Kootenay District

OPERATOR

Grow's Nest Pass Coal Co., Ltd.

3278-64	Mine Run	D	NHB	4.6	9.1	23.6	62.7	0.4	13440	14090	
3339-64	Cobble 7 x 5/8	T	FMP	3.5	7.1	24.1	65.3	0.4	13740	14240	
3340-64	Stoker 1-5/8 x 3/8	T	FMP	3.3	8.6	23.3	64.8	0.5	13480	13940	
3342-64	Export 2 x 0	T	FMP	4.6	7.1	22.9	65.4	0.5	13570	14210	
3343-64	Export 2 x 0	T	FMP	3.3	10.8	18.0	67.9	0.3	13370	13820	
3341-64	Fines - 1/4	T	FMP	3.1	7.0	24.0	65.9	0.5	13930	14370	
3359-64	Stoker 1 1/4 x 1/4	T	FMP	4.4	9.8	23.7	62.1	0.6	13170	13780	

AREA Northern District

OPERATOR: Bulkley Valley Collieries Ltd.

2657-64	Egg 4 x 2 Sq	T	FMP	1.9	14.0	29.7	54.4	2.9	12270	12510	
2658-64	Nut 2 x 1 Sq	T	FMP	1.6	14.4	29.7	54.3	3.0	12430	12620	
2015-64	Stoker	S	Mine	2.6	10.9	30.2	56.3	2.3	12800	13140	
2659-64	Stoker	T	FMP	1.9	11.9	30.2	56.0	2.7	12720	12970	
2660-64	Fines - 1/8 Slot	T	FMP	1.6	9.9	32.4	56.1	1.9	13050	13260	

II IMPORTED COALS

ANTHRACITE

AREA Wales (U.K.)

OPERATOR OR TRADE NAME: Unknown

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
3462-64	Stove	D	S	0.9	4.2	11.2	83.7					
STATE: Pennsylvania				OPERATOR OR TRADE NAME: Glen-Burn								
2148-64	Nut	D	DND	7.6	10.2	6.7	75.5	0.7	12330	13350	6	
2503-64	Nut	D	DND	4.9	11.8	7.0	76.3	0.8	12420	13060	67	
OPERATOR OR TRADE NAME: Lehigh Regal												
3031-64	Chestnut 1-5/8 o 13/16	D	DND	4.5	12.2	8.1	75.2	0.7	12480	13070	26	
STATE: Kentucky, Eastern Emmons				OPERATOR OR TRADE NAME: Cadet								
2064-64	N/S	D	DVA	5.8	8.7	34.8	50.7	1.2	12710	13490	1500	
2205-64	N/S	D	DVA	6.3	9.1	34.4	50.2	1.3	12810	13670	1281	
2325-64	N/S	D	DVA	6.6	9.5	33.4	50.5	1.1	12490	13370	1239	
2443-64	N/S	D	DVA	6.5	9.1	33.2	51.2	0.9	12490	13370	1267	
2508-64	N/S	D	DVA	6.5	22.4	29.9	41.2	0.7	10110	10810	952	
2598-64	N/S	D	DVA	4.0	9.0	35.1	51.9	0.7	12940	13470	575	
2606-64	N/S	D	DVA	7.1	11.0	32.9	49.0	1.0	12130	13050	952	
STATE: Kentucky, Eastern Emmons				OPERATOR OR TRADE NAME: Cavalier (Queen)								
2396-64	P/S 3/4 x 3/16	S	FMP	1.7	3.0	39.1	56.2	0.9	14420	14670		
STATE: Pennsylvania				OPERATOR OR TRADE NAME: Allison								
2228-64	P/S 2 x 3/8	D	DND	3.7	8.9	36.8	50.6	2.4	12970	13470	918	
2229-64	P/S 2 x 3/8	D	DND	4.3	9.9	37.5	48.3	2.8	12810	13380	958	
2089-64	P/S 2 x 1/8	D	DND	7.2	17.5	33.3	42.0	1.8	11280	12150	909	
2332-64	P/S 2 x 1/8	D	DND	4.6	7.7	36.8	50.9	1.9	13030	13660	943	
2376-64	P/S 2 x 1/8	S	FMP	2.2	7.7	37.4	52.7	1.9	13360	13670	-	
2400-64	P/S 2 x 1/8	D	DND	3.5	9.0	38.4	49.1	2.4	13030	13510	909	
2401-64	P/S 2 x 1/8	D	DND	4.4	8.4	37.1	50.1	2.0	12990	13580	997	
2487-64	P/S 2 x 1/8	D	DND	4.9	9.0	38.0	48.1	2.5	12960	13640	786	
2488-64	P/S 2 x 1/8	D	DND	6.4	7.5	33.8	52.3	1.9	12560	13420	839	
2628-64	P/S 2 x 1/8	D	DND	3.6	9.6	38.2	48.6	2.5	12980	13460	918	
2629-64	P/S 2 x 1/8	D	DND	3.7	7.8	37.8	50.7	2.2	13120	13630	958	
2630-64	P/S 2 x 1/8	D	DND	4.5	7.4	36.6	51.5	1.8	13130	13740	943	
2631-64	P/S 2 x 1/8	D	DND	4.8	8.4	36.9	49.9	2.2	12850	13500	997	
2632-64	P/S 2 x 1/8	D	DND	3.8	9.1	37.9	49.2	2.4	12840	13340	839	
2633-64	P/S 2 x 1/8	D	DND	3.8	9.1	39.3	47.8	2.5	12960	13470	786	
2013-64	N/S 2 x 0	D	DND	6.1	11.5	32.1	50.3	1.2	12080	12850	53	
2016-64	N/S 2 x 0	D	DND	9.1	9.8	22.5	58.6	0.6	12090	13310	57	
2066-64	N/S 2 x 0	D	DND	8.6	9.1	32.4	49.9	0.7	12050	13190	56	
2094-64	N/S 2 x 0	D	DND	7.7	7.3	33.6	51.4	0.8	12630	13680	48	
2137-64	N/S 2 x 0	D	DND	6.5	5.5	36.6	51.4	0.7	13110	14020	48	
2240-64	N/S 2 x 0	D	DND	10.4	8.1	29.0	52.5	1.3	11660	13010	48	
2286-64	N/S 2 x 0	D	DND	9.7	8.3	29.2	52.8	1.4	11860	13140	48	
2291-64	N/S 2 x 0	D	DND	6.8	7.3	32.6	53.3	1.3	12650	13570	48	
2386-64	N/S 2 x 0	D	DND	12.7	8.9	27.8	50.6	1.1	11240	12870	48	
2392-64	N/S 2 x 0	D	DND	13.1	7.9	28.3	50.7	1.2	11210	12890	48	
2460-64	N/S 2 x 0	D	DND	11.5	7.5	28.7	52.3	1.4	11580	13080	48	
2497-64	N/S 2 x 0	D	DND	13.4	7.1	29.6	49.9	1.4	11330	13080	49	
STATE: Pennsylvania				OPERATOR OR TRADE NAME: Reynoldsville								
2914-64	N/S 2 x 0	D	DND	3.1	10.2	33.5	53.2	1.9	13040	13450	147	
2990-64	N/S 2 x 0	D	DND	2.1	10.5	33.0	54.4	1.8	13340	13620	102	
3059-64	N/S 2 x 0	D	DND	2.7	10.2	34.3	52.8	1.8	13400	13760	299	
STATE: Pennsylvania				OPERATOR OR TRADE NAME: Butler County								
2931-64	P/S 2 x 1/4	D	DND	6.9	6.1	39.6	47.4	3.1	12520	13450	40	
3440-64	P/S 2 x 1/4	D	DND	5.3	7.3	39.5	47.9	3.0	12570	13270	49	
STATE: Pennsylvania				OPERATOR OR TRADE NAME: Fairwall Dist. Hilliard								
2991-64	P/S 2 x 1/8	D	DND	4.7	9.2	35.2	50.9	3.1	12660	13280	860	
3044-64	P/S 2 x 1/8	D	DND	3.9	8.8	35.9	51.4	3.3	12760	13280	313	
3273-64	P/S 2 x 1/8	D	DND	5.1	9.5	35.1	50.3	3.1	12520	13200	783	
3487-64	P/S 2 x 1/8	D	DND	5.3	9.3	35.1	50.3	3.1	12450	13150	753	

- 15 -
IMPORTED COALS
 (Continued)

STATE: Pennsylvania, Allegheny County

OPERATOR OR TRADE NAME: Champion Mine

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
3141-64	Egg 6 x 2	D	DND	1.4	5.3	38.2	55.1	1.7	14120	14320	114	
			Kittanning						OPERATOR OR TRADE NAME: Comstock			
3306-64	P/S 2 x 1/8	D	DND	6.6	10.4	35.2	47.8	1.2	12120	12970	994	
3409-64	P/S 2 x 1/8	D	DND	6.6	9.9	34.8	48.7	0.8	12260	13130	990	
3498-64	P/S 2 x 1/8	D	DND	8.7	10.0	34.3	47.0	1.1	11970	13110	996	
			Butler County						OPERATOR OR TRADE NAME: Devon			
2283-64	N/S 1 1/4 x 0	D	DVA	3.2	8.6	36.3	51.9	1.4	13210	13650	105	
2556-64	N/S 1 1/4 x 0	D	DVA	3.8	8.2	36.6	51.4	1.2	13180	13700	100	
3142-64	N/S 1 1/4 x 0	D	DVA	2.1	7.8	35.0	55.1	0.6	13640	13930	111	
			Brookville						OPERATOR OR TRADE NAME: Grove City			
2010-64	N/S 2 x 0	D	DND	8.0	6.9	35.2	49.9	0.7	12570	13660	466	
2156-64	N/S 2 x 0	D	DND	8.7	10.3	33.3	47.7	0.7	11880	13010	784	
2294-64	N/S 2 x 0	D	DND	7.3	7.8	34.9	50.0	0.8	12480	13460	465	
2427-64	N/S 2 x 0	D	DND	9.0	9.0	33.0	49.0	0.6	12090	13280	545	
2513-64	N/S 2 x 0	D	DND	9.6	8.0	32.9	49.5	0.7	11870	13130	406	
2591-64	N/S 2 x 0	D	DND	5.4	10.9	32.6	51.1	0.9	12360	13070	49	
			Reynoldsville						OPERATOR OR TRADE NAME: Harlin-Callaghan			
2099-64	N/S 2 x 0	D	DND	4.2	8.8	34.7	52.3	2.2	13350	13940	981	
2269-64	N/S 2 x 0	D	DND	3.2	10.2	33.9	53.7	2.8	13130	13560	680	
2289-64	N/S 2 x 0	D	DND	5.6	9.7	31.3	53.4	1.5	12730	13490	1122	
2432-64	N/S 2 x 0	D	DND	3.7	10.1	33.0	53.2	1.8	13040	13530	1129	
2515-64	N/S 2 x 0	D	DND	4.9	11.6	31.8	51.7	2.2	12320	12960	1082	
2901-64	N/S 2 x 0	D	DND	3.7	11.9	32.6	51.8	2.1	12640	13120	96	
2969-64	N/S 2 x 0	D	DND	3.8	11.4	33.2	51.6	2.3	12770	13270	157	
3060-64	N/S 2 x 0	D	DND	4.2	10.0	32.1	53.7	1.6	12730	13290	256	
			Jefferson County						OPERATOR OR TRADE NAME: Sykes			
2694-64	P/S 2 x 1/8	D	DND	4.4	8.9	33.8	52.9	3.2	12860	13460	995	
2694-64	P/S 2 x 1/8	D	DND	2.5	9.0	33.8	54.7	2.6	13190	13530	994	
2698-64	P/S 2 x 1/8	D	DND	4.3	9.1	33.2	53.4	2.6	12870	13460	998	
2699-64	P/S 2 x 1/8	D	DND	4.1	9.6	32.7	53.6	2.6	12800	13340	998	
2710-64	P/S 2 x 1/8	D	DND	4.3	9.8	33.0	52.9	2.9	12790	13370	991	
2772-64	P/S 2 x 1/8	D	DND	3.5	7.4	35.1	54.0	2.6	13450	13940	994	
2792-64	P/S 2 x 1/8	D	DND	3.1	8.9	33.8	54.2	2.1	13210	13630	997	
2793-64	P/S 2 x 1/8	D	DND	3.8	9.0	33.4	53.8	2.7	12940	13450	996	
2800-64	P/S 2 x 1/8	D	DND	2.4	9.1	34.1	54.4	2.7	13100	13420	996	
2802-64	P/S 2 x 1/8	D	DND	2.6	10.0	34.3	53.1	2.0	13150	13500	999	
2803-64	P/S 2 x 1/8	D	DND	2.5	10.2	33.6	53.7	2.3	13200	13540	995	
2849-64	P/S 2 x 1/8	D	DND	3.8	8.1	34.9	53.2	1.8	13380	13900	995	
2899-64	P/S 2 x 1/8	D	DND	3.5	10.3	33.6	52.6	1.8	13130	13600	993	
2902-64	P/S 2 x 1/8	D	DND	6.0	8.6	33.1	52.3	1.7	12890	13720	999	
2903-64	P/S 2 x 1/8	D	DND	3.0	9.5	34.7	52.8	1.9	13260	13670	999	
2992-64	P/S 2 x 1/8	D	DND	3.3	9.6	33.4	53.7	2.3	13010	13460	995	
			Clarion County						OPERATOR OR TRADE NAME: Hawthorne			
2084-64	N/S 2 x 0	D	DND	4.2	6.2	34.6	55.0	2.2	13390	13980	504	
2230-64	N/S 2 x 0	D	DND	5.4	8.5	33.3	52.8	2.4	12660	13380	770	
2333-64	N/S 2 x 0	D	DND	3.8	5.7	36.6	53.9	2.8	13700	14250	409	
2486-64	N/S 2 x 0	D	DND	4.4	8.6	37.5	49.5	2.3	12900	13490	418	
2527-64	N/S 2 x 0	D	DND	4.3	7.9	34.4	53.4	1.8	12950	13530	374	
2584-64	N/S 2 x 0	D	DND	4.8	9.7	35.4	50.1	1.0	12470	13090	124	
3401-64	N/S 2 x 0	D	DND	7.2	9.9	30.8	52.1	1.0	11770	12680	383	
			Armstrong County						OPERATOR OR TRADE NAME: Mohican			
2848-64	N/S 2 x 0	D	DND	5.2	7.2	35.1	52.5	2.2	13110	13820	53	
2913-64	N/S 2 x 0	D	DND	8.9	13.2	29.8	48.1	1.7	11410	12520	86	
2989-64	N/S 2 x 0	D	DND	3.3	11.6	32.5	52.6	2.5	12650	13080	53	
3007-64	N/S 2 x 0	D	DND	4.6	9.0	36.7	49.7	3.0	12720	13330	288	
3010-64	N/S 2 x 0	D	DND	4.9	10.8	34.0	50.3	2.5	12360	13000	36	
3140-64	N/S 2 x 0	D	DND	5.7	8.5	37.6	48.2	2.8	12600	13370	339	
3395-64	N/S 2 x 0	D	DND	5.4	8.3	35.6	50.7	2.4	12540	13260	387	

IMPORTED COALS
(Continued)

STATE: Pennsylvania, Harrisville

OPERATOR OR TRADE NAME: Turner

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
2003-64	P/S 2 x 1/8	D	DND	6.1	9.7	33.4	50.8	2.4	12980	13830	989	
2065-64	P/S 2 x 1/8	D	DND	7.8	7.9	33.0	51.3	2.4	12470	13530	983	
2100-64	P/S 2 x 1/8	D	DND	9.0	7.3	33.8	49.9	1.7	12540	13780	996	
2161-64	P/S 2 x 1/8	D	DND	7.9	9.3	32.2	50.6	2.9	12300	13350	997	
2256-64	P/S 2 x 1/8	D	DND	7.7	9.2	32.7	50.4	2.8	12210	13220	978	
2364-64	P/S 2 x 1/8	D	DND	5.7	7.0	34.9	52.4	2.0	12980	13770	980	
2418-64	P/S 2 x 1/8	D	DND	5.7	9.1	33.2	52.0	2.3	12540	13290	993	
2470-64	P/S 2 x 1/8	D	DND	5.8	9.1	32.7	52.4	2.2	12590	13360	997	
2499-64	P/S 2 x 1/8	D	DND	7.3	7.5	33.7	51.5	2.3	12570	13560	991	
2541-64	P/S 2 x 1/8	D	DND	4.1	9.3	33.3	53.3	2.4	12650	13200	997	
2603-64	P/S 2 x 1/8	D	DND	4.0	7.3	36.6	52.1	2.1	13020	13560	930	
Pittsburgh No. 8				OPERATOR OR TRADE NAME: Norton								
2284-64	P/S 2 x 1/4	D	DND	3.3	8.4	42.8	45.5	4.1	13000	13450	24	
2987-64	P/S 2 x 1/4	D	DND	2.3	8.2	36.3	53.2	1.1	13420	13740	32	
3502-64	P/S 2 x 1/4	D	DND	4.8	8.2	40.4	46.6	4.3	12790	13440	32	
2284-64	P/S 2 x 1/4	D	DND	3.3	8.4	42.8	45.5	4.1	13000	13450	24	
2987-64	P/S 2 x 1/4	D	DND	2.3	8.2	36.3	53.2	1.1	13420	13740	32	
3502-64	P/S 2 x 1/4	D	DND	4.8	8.2	40.4	46.6	4.3	12790	13440	32	
2074-64	P/S 1 1/4 x 1/4	D	DND	2.9	8.4	42.1	46.6	4.4	13230	13630	254	
2388-64	P/S 1 1/4 x 1/4	D	DND	4.4	8.3	40.2	47.1	4.1	12830	13420	405	
2557-64	P/S 1 1/4 x 1/4	D	DND	1.7	8.1	42.1	48.1	4.1	13360	13600	187	
Lower Freeport				OPERATOR OR TRADE NAME: West Freedom								
2009-64	N/S 2 x 0	D	DND	3.3	10.4	36.1	50.2	2.4	12800	13230	642	
2155-64	N/S 2 x 0	D	DND	4.7	10.3	33.6	51.4	2.5	12330	12940	724	
2293-64	N/S 2 x 0	D	DND	3.3	9.6	35.1	52.0	2.2	12930	13370	654	
2426-64	N/S 2 x 0	D	DND	4.8	10.6	34.6	50.0	2.3	12200	12820	675	
2512-64	N/S 2 x 0	D	DND	5.8	11.1	33.7	49.4	3.4	12140	12880	616	
2590-64	N/S 2 x 0	D	DND	3.1	8.3	36.2	52.4	2.2	13060	13470	351	
2787-64	N/S 2 x 0	D	DND	4.6	8.6	36.2	50.6	3.0	12850	13470	88	
2917-64	N/S 2 x 0	D	DND	4.2	9.0	36.5	50.3	1.8	12970	13530	140	
3008-64	N/S 2 x 0	D	DND	3.3	10.3	33.8	52.6	2.9	12820	13260	214	
3139-64	N/S 2 x 0	D	DND	4.6	10.1	33.3	52.0	2.8	12610	13220	468	
3394-64	N/S 2 x 0	D	DND	3.2	10.0	33.8	53.0	2.6	12930	13350	475	
STATE: West Virginia				OPERATOR OR TRADE NAME: Compass								
2206-64	Stoker nut 2 x 1	D	Justice	4.3	8.7	39.8	47.2	3.5	13230	13830	1806	
				OPERATOR OR TRADE NAME: Dola								
2845-64	Stoker nut 2 x 3/4	D	Justice	1.5	7.8	41.4	49.3	2.5	13640	13850	168	
3274-64	Stoker nut 2 x 3/4	D	Justice	2.1	8.7	38.8	50.4	3.4	13520	13810	867	
Four States				OPERATOR OR TRADE NAME: O'Donnell								
2692-64	Nut 1 1/2 x 1/2	D	Justice	3.9	8.0	38.4	49.7	1.9	13520	14070	622	
3228-64	Nut 1 1/2 x 1/2	D	Justice	1.9	6.8	39.5	51.8	2.1	13650	13920	869	
2977-64	P/S 1 1/2 x 1/4	D	DND	1.5	6.0	39.6	52.9	2.3	14020	14230	75	
2908-64	P/S 1 1/2 x 1/8	D	DND	1.9	6.5	38.3	53.3	2.0	13790	14060	994	
Fairmont				OPERATOR OR TRADE NAME: American								
3373-64	P/S 1 1/2 x 1/8	D	DND	3.2	8.3	33.0	55.5	1.1	13470	13920	140	
Garner				OPERATOR OR TRADE NAME: Gameo, Toughy Mine								
3224-64	N S	D	DVA	6.6	7.5	34.2	51.7	0.8	12690	13580	746	
3418-64	N S	D	DVA	6.6	8.6	33.9	50.9	0.8	12570	13450	956	
Granttown				OPERATOR OR TRADE NAME: Federal No. 1								
2613-64	P/S 1 1/2 x 1/4	D	DND	2.0	11.0	37.8	49.2	3.5	13090	13350	23	
McDowell County				OPERATOR OR TRADE NAME: Keystone								
2707-64	P/S 1 x 1/8	D	DND	4.3	4.6	17.7	73.4	1.1	14130	14760	103	
3072-64	P/S 1 x 1/8	D	DND	3.8	4.7	28.6	62.9	0.9	14110	14660	37	

IMPORTED COALS

(Continued)

Island Creek, Logan County

OPERATOR or TRADE NAME: McGregor

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									Btu/lb Gross	Btu/lb Gross	
3417-64	Egg	D	DND	1.3	6.3	35.0	57.4	0.7	14210	14390	6
STATE: Unknown				OPERATOR OR TRADE NAME: Jamison							
2993-64	S/N 2½ x 1/2	D	Justice	1.2	8.0	33.4	57.4	1.8	13800	13970	

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