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

It is intended to publish these circulars as early as possible after December 31st of any given year and the late publication of the 1960 analyses is due to the inauguration of this project late in the summer of 1961.

Glossary of Abbreviated Terms

D	Delivered
T	Tipple
Stock	Stockpile
D. N. D.	Department of National Defence
F & MP	Fuels and Mining Practice Division
Justice	Department of Justice
NH & W	Department of National Health and Welfare
D. P. W.	Department of Public Works
D. V. A.	Department of Veterans Affairs
NSLP	Nova Scotia Light and Power Commission
NBEPC	New Brunswick Electric Power Commission
Dom. Coal	Dominion Coal Co. Ltd.
Comm.	Commercial
G. S. C.	Geological Survey of Canada
Weaver	F. P. Weaver Coal Company
CH	Channel Sample
CIB	Collegiate Institute Board, Ottawa
Rd	Round
Sq	Square
Prep. St.	Prepared Stoker
N/S	Nut Slack
Ind. Br.	Industrial Briquettes

Direction des mines

Circulaire d'information IC 133

ANALYSES DE HOUILLE ET DE COKE EN 1960

par

W. J. Montgomery* et J. G. Jorgensen*

INTRODUCTION

La Section de l'analyse des combustibles solides, à la Division des combustibles et des techniques de l'exploitation minière, 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: "Analyses Directory of Canadian Coals", qui paraît à intervalles de cinq ans ou plus. La présente circulaire d'information, la première 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 1960.

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

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* Chef, Section de l'analyse de combustibles solides.
** Chargé de recherches, Division des combustibles et des techniques de l'exploitation minière.

On compte publier ces circulaires aussitôt que possible après le 31 décembre de chaque année. Le retard apporté à la publication des analyses de 1960 est attribuable à la mise en oeuvre des travaux de préparation à la fin de l'été de 1961.

Glossaire des abréviations

D	Livré
T	Culbuteur
Stock	Stock
D.N.D.	Ministère de la Défense nationale
F & MP	Division des combustibles et des techniques de l'exploitation minière
Justice	Ministère de la Justice
NH & W	Ministère de la Santé nationale et du Bien-être social
D.P.W.	Ministère des travaux publics
D.V.A.	Ministère des Affaires des anciens combattants
NSLP	Commission d'énergie et d'électricité de la Nouvelle-Ecosse
NBEPC	Commission d'énergie électrique du Nouveau-Brunswick
Dom. Coal	Dominion Coal Co. Ltd.
Comm.	Commercial
G.S.C.	Commission géologique du Canada
Weaver	F.P. Weaver Coal Company
CH	Echantillon prélevé en saignée
CIB	Collegiate Institute Board, Ottawa
Rd	Rond
Sq	Carré
Prep. St.	Foyer mécanique spécial
N/S	Menu gailletin
Ind. Br.	Briquettes industrielles

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I. CANADIAN COALS

Province Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received: Moisture %	As Received: Ash %	As Received: Volatile Matter %	As Received: Fixed Carbon %	As Received: Sulphur %	As Received: Calorific Value Btu/lb Gross	Dry: Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F: Initial	Ash Fusion Temperature, °F: Spherical	Ash Fusion Temperature, °F: Hemi-spherical	Ash Fusion Temperature, °F: Fluid	Grindability Index Hardgrove	Free Swelling Index
2334-60	Mine Run	D	F. MP	3.4	5.7	36.7	54.2	2.5	14110	14600						
2675-60	Lump	T	F. MP	0.9	4.7	38.6	55.8	2.7	14490	14620	2020	2110	2250	2480		
2678-60	"	T	F. MP	1.0	4.2	36.7	58.1	1.8	14470	14610	1890	1980	2190	2340		
2680-60	"	T	F. MP	0.9	7.0	37.7	54.4	3.6	13950	14070	1880	2000	2080	2310		
2684-60	"	T	F. MP	1.9	8.5	37.1	52.5	2.7	13310	13570	1870	2100	2120	2420		
2686-60	"	T	F. MP	0.8	12.0	32.5	54.7	5.0	13390	13490	1870	2040	2130	2210		
2688-60	"	T	F. MP	1.1	5.5	33.4	60.0	1.6	14240	14390	2070	2130	2290	2440		
2022-60	Stove 4 x 2	D	D. N. D.	1.8	10.5	32.7	55.0	4.5	13460	13720						
2059-60	Egg 4 x 2	D	D. N. D.	1.0	14.9	34.2	49.9	2.7	12910	13050						
2152-60	" 4 x 2	D	D. N. D.	1.8	13.0	32.9	52.3	4.0	13100	13340						
2157-60	" 4 x 2	D	D. N. D.	1.1	7.0	37.0	54.9	2.8	13890	14050						
2218-60	" 4 x 2	D	D. N. D.	2.2	4.1	39.6	54.1	2.0	14340	14660						
2231-60	" 4 x 2	D	D. N. D.	1.0	10.9	33.1	55.0	2.5	13410	13540						
2301-60	" 4 x 2	D	D. N. D.	1.4	4.8	38.9	54.9	3.0	14420	14620						
2302-60	" 4 x 2	D	D. N. D.	2.5	8.1	37.1	52.3	4.5	13830	14180						
2384-60	" 4 x 2	D	D. N. D.	1.5	6.8	36.5	55.2	2.4	14270	14490						
2392-60	" 4 x 2	D	D. N. D.	2.5	6.1	37.5	53.9	3.0	13940	14310						
2408-60	" 4 x 2	D	D. N. D.	2.7	9.2	37.4	50.7	3.8	13480	13860						
2450-60	" 4 x 2	D	D. N. D.	1.6	7.5	37.0	53.9	2.1	13960	14185						
2543-60	" 4 x 2	D	D. N. D.	0.9	6.9	40.6	51.6	1.3	14110	14230	2270	2540	2620	2700		
2545-60	" 4 x 2	D	D. N. D.	0.4	7.2	39.4	53.0	2.8	14100	14160	2010	2190	2240	2390		
2691-60	" 4 x 1 3/4	T	F. MP	1.2	3.7	39.8	55.3	2.4	14550	14730	1870	2070	2210	2340		
2697-60	Egg 4 x 1 3/4	T	F. MP	1.2	5.1	40.4	53.3	2.6	14160	14330	1890	2040	2180	2300		
2707-60	" 4 x 1 3/4	T	F. MP	1.0	6.1	38.2	54.7	2.9	14240	14380	1900	2110	2240	2300	63	
2701-60	" & Nut	T	F. MP	1.2	4.3	40.6	53.9	2.4	14270	14440	1870	2100	2270	2310	61	
2706-60	" & "	T	F. MP	1.5	4.7	38.0	55.8	1.8	14400	14610	1890	2020	2170	2370		
2692-60	" & "	T	F. MP	1.5	4.7	39.9	53.9	2.7	14300	14510	1850	2070	2200	2300	62	
2695-60	Nut	T	F. MP	1.4	4.0	38.5	56.1	2.2	14390	14590	1890	2040	2110	2480	59	
2699-60	"	T	F. MP	1.2	5.0	39.3	54.5	2.4	14210	14380	1890	2040	2180	2210	60	
2704-60	"	T	F. MP	1.2	6.3	37.8	54.7	2.8	14170	14340	1880	2190	2270	2300	62	
2676-60	"	T	F. MP	0.9	7.8	35.9	55.4	3.0	14060	14190	1890	1960	2240	2370	65	
2681-60	"	T	F. MP	1.0	7.3	38.4	53.3	3.5	13940	14080	1900	1970	2050	2340	63	
2689-60	"	T	F. MP	1.2	12.6	31.8	54.4	2.4	13150	13310	1910	1990	2140	2400	73	
2764-60	" 2 x 1	D	D. V. A.	1.3	7.6	37.3	53.8	3.4	14060	14240	1880	2020	2200	2470		
2168-60	" 2 x 3/4	D	Justice	2.1	9.3	36.0	52.6	5.3	13230	13520	1870		2020	2100		
2126-60	Prep. Stoker 2 x 1/8	D	D. N. D.	3.9	12.7	31.8	51.6	3.2	12600	13100						
2133-60	Prep. Stoker 2 x 1/8	D	D. N. D.	1.4	6.1	37.9	54.6	2.8	14070	14270						
2141-60	Prep. Stoker 2 x 1/8	D	D. N. D.	8.1	10.3	29.6	52.0	3.2	12410	13510						
2156-60	Prep. Stoker 2 x 1/8	D	D. N. D.	2.4	9.3	35.5	52.8	3.7	13330	13650						
2368-60	Prep. Stoker 2 x 1/8	D	D. N. D.	2.2	9.9	38.1	49.8	3.0	13250	13550	2350		2490	2630		
2372-60	Prep. Stoker 2 x 1/8	D	D. N. D.	2.0	8.4	36.5	53.1	2.7	13540	13820						
2406-60	Prep. Stoker 2 x 1/8	D	D. N. D.	1.5	9.5	36.5	52.5	2.9	13540	13740						
2452-60	Prep. Stoker 2 x 1/8	D	D. N. D.	2.1	9.6	32.9	55.4	3.1	13430	13720						
2454-60	Prep. Stoker 2 x 1/8	D	D. N. D.	2.7	11.1	35.5	50.7	4.3	12950	13310						
2465-60	Prep. Stoker 2 x 1/8	D	D. N. D.	2.7	9.1	36.9	51.3	3.1	13260	13630						
2279-60	Prep. Stoker 2 x 1/8	D	D. N. D.	5.5	11.9	30.7	51.9	3.0	12190	12900						
2322-60	Prep. Stoker 2 x 1/8	D	D. N. D.	5.2	10.9	30.7	53.2	2.7	12540	13230						
2331-60	Prep. Stoker 2 x 1/8	D	D. N. D.	1.4	9.1	37.9	51.6	3.5	13590	13780						
2335-60	Prep. Stoker 2 x 1/8	D	D. N. D.	2.7	9.1	36.2	52.0	2.9	13280	13650						
2195-60	Prep. Stoker 2 x 1/8	D	D. N. D.	5.0	11.7	30.8	52.5	3.0	12390	13040						
2235-60	Prep. Stoker 2 x 1/8	D	D. N. D.	6.6	13.4	29.8	50.2	3.2	11910	12760						
2239-60	Prep. Stoker 2 x 1/8	D	D. N. D.	1.3	8.7	36.3	53.7	2.5	13770	13950						

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	As Received Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Ash Fusion Temperature, °F Spherical	Ash Fusion Temperature, °F Hemi-spherical	Ash Fusion Temperature, °F Fluid	Grindability Index Hardgrove	Free Swelling Index
2262-60	Prep. Stoker 2 x 1/8	D	D.N.D.	2.6	14.2	31.3	51.9	3.2	12880	13220						
2021-60	Prep. Stoker 2 x 1/8	D	D.N.D.	1.7	6.2	37.9	54.2	2.5	13820	14060						
2056-60	Prep. Stoker 2 x 1/8	D	D.N.D.	2.9	11.0	35.7	50.4	2.9	12770	13150						
2057-60	Prep. Stoker 2 x 1/8	D	D.N.D.	2.3	9.1	36.7	51.9	2.8	13350	13660						
2063-60	Prep. Stoker 2 x 1/8	D	D.N.D.	2.6	10.1	35.0	52.3	3.1	13130	13480						
2098-60	Prep. Stoker 2 x 1/8	D	D.N.D.	7.0	10.2	29.8	53.0	3.3	12560	13500						
2041-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	1.0	11.6	31.6	55.7	3.5	13370	13520						
2042-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	0.9	12.8	31.9	54.4	5.3	12920	13040						
2061-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	5.6	9.3	32.2	52.9	2.6	12900	13670						
2094-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.1	9.9	36.0	52.0	2.9	13200	13480						
2181-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	0.9	10.0	31.4	57.7	3.8	13800	13920						
2182-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.4	12.4	31.5	53.7	4.4	13040	13370						
2238-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	1.7	10.1	31.5	56.7	3.2	13470	13700						
2242-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.5	9.7	33.3	54.5	3.6	13420	13770						
2272-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.0	9.3	32.3	56.4	3.5	13680	13960						
2315-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	3.0	8.8	36.1	52.1	3.5	13290	13700						
2316-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.3	7.9	36.6	53.2	2.5	13950	14280						
2323-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	3.0	9.5	34.0	53.5	3.3	13420	13840						
2344-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	3.1	12.5	34.5	49.9	3.6	12710	13110						
2364-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	1.8	8.7	37.4	52.1	3.1	13650	13900						
2365-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	3.4	8.2	37.5	50.9	2.8	13420	13890						
2386-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.3	9.0	36.4	52.3	2.7	13480	13790						
2387-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.3	11.3	34.7	51.7	3.2	13060	13370						
2544-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.5	12.7	33.4	51.4	3.2	12640	12970	2180	2250	2290	2360		
2658-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.4	9.7	36.3	51.6	3.4	13420	13750	1960	2110	2290	2420		
2736-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.7	8.1	35.6	53.6	3.2	13530	13900	1890		2250	2350		
2834-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	3.7	6.3	37.6	52.4	2.6	13480	14000	1850	2070	2120	2320		
2910-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	4.4	6.8	37.2	51.6	2.7	13520	14140						
2922-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	4.7	5.5	37.2	52.6	2.8	13650	14330						
2942-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	3.8	6.6	36.7	52.9	2.7	13530	14060						
2965-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	3.2	7.7	37.8	51.3	2.7	13620	14070						
3036-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.7	8.1	37.5	51.7	3.1	13470	13840						
2114-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	6.2	8.3	34.2	51.3	2.6	12830	13670						
2161-60	Prep. Stoker 1 1/2 x 1/4	D	D.N.D.	2.6	11.6	32.9	52.9	4.6	13080	13420						
2180-60	Prep. Stoker 1 1/2 x 1/2	D	D.N.D.	3.2	9.3	32.8	54.7	3.4	13290	13730						
2105-60	Prep. Stoker 1 1/4 x 5/8	D	D.V.A.	1.2	6.0	36.2	56.6	3.7	14230	14410						
2258-60	Prep. Stoker 1 1/4 x 5/8	D	D.V.A.	2.6	7.5	36.7	53.2	4.1	13650	14020						
2402-60	Prep. Stoker 1 1/4 x 5/8	D	D.V.A.	4.4	7.3	35.8	52.5	3.1	13400	14020						
2461-60	Prep. Stoker 1 1/4 x 5/8	D	F&MP	1.6	11.6	36.3	50.5	4.6	13240	13460						
2814-60	Prep. Stoker 1 1/4 x 5/8	D	D.V.A.	3.1	7.4	34.9	54.6	3.3	13650	14080	1900		2010	2170		

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	As Received Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Ash Fusion Temperature, °F Spherical	Ash Fusion Temperature, °F Hemi-spherical	Ash Fusion Temperature, °F Fluid	Grindability Index Hardgrove	Free Swelling Index
2131-60	Prep. Stoker 1 1/4 x 3/8	D	D. N. D.	2.7	5.4	33.5	56.4	2.7	14350	14740						
2005-60	Prep. Stoker 1 1/4 x 3/8	D	D. N. D.	0.4	9.1	32.8	57.6	4.5	14140	14200						
2644-60	Prep. Stoker 1 1/4 x 3/8	D	D. N. D.	1.7	4.5	36.3	57.5	1.4	14490	14740	2050	2220	2380	2500		
2919-60	Prep. Stoker 1 1/4 x 3/8	D	D. N. D.	3.0	11.9	34.4	50.7	2.3	12970	13370						
2108-60	Prep. Stoker 1 1/4 x 1/4	D	F &MP	2.6	7.2	36.6	53.6	2.8	13690	14070						
2151-60	Prep. Stoker 1 1/4 x 1/4	D	D. N. D.	7.9	7.9	32.9	51.3	2.8	12640	13720						
2162-60	Prep. Stoker 1 1/4 x 1/4	D	D. N. D.	5.0	9.9	35.1	50.0	2.8	12930	13610						
2191-60	Prep. Stoker 1 1/4 x 1/4	D	D. P. W.	6.3	10.2	30.6	52.9	3.2	12540	13380						
2192-60	Prep. Stoker 1 1/4 x 1/4	D	D. P. W.	2.2	15.5	33.8	48.5	2.7	12380	12660						
2236-60	Prep. Stoker 1 1/4 x 1/4	D	D. P. W.	1.8	10.6	34.9	52.7	3.9	13380	13620						
2264-60	Prep. Stoker 1 1/4 x 1/4	D	D. N. D.	6.0	9.7	32.2	52.1	3.2	12850	13660						
2281-60	Prep. Stoker 1 1/4 x 1/4	D	D. N. D.	6.2	9.1	34.8	49.9	2.8	12760	13600						
2348-60	Prep. Stoker 1 1/4 x 1/4	D	D. N. D.	8.4	9.2	32.8	49.6	2.5	12060	13170						
2931-60	Prep. Stoker 1 1/4 x 1/4	D	D. N. D.	1.3	12.6	36.5	49.6	2.8	13360	13530						
3060-60	Prep. Stoker 1 1/4 x 1/4	D	D. N. D.	2.2	7.1	38.2	52.5	3.0	13730	14030						
2060-60	Prep. Stoker 1 x 1/8	D	D. N. D.	1.4	10.4	33.9	54.3	3.5	13410	13600						
2107-60	Prep. Stoker 1 x 1/8	D	D. N. D.	4.3	9.3	32.5	53.9	3.4	13010	13600						
2230-60	Prep. Stoker 1 x 1/8	D	D. N. D.	3.4	9.7	32.4	54.5	3.4	13240	13710						
2303-60	Prep. Stoker 1 x 1/8	D	D. N. D.	0.7	8.0	36.7	54.6	2.7	14050	14160						
2451-60	Prep. Stoker 1 x 1/8	D	D. N. D.	2.5	10.1	33.9	53.5	3.2	13210	13550						
2062-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	3.0	7.1	35.8	54.1	2.8	13610	14030						
2066-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	1.6	9.3	35.7	53.4	2.9	13490	13710						
2068-60	Prep. Stoker 3/4 x 1/4	D	D. P. W.	1.2	10.5	33.3	55.0	3.7	13450	13620						
2128-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	2.7	11.7	33.6	52.0	3.6	12980	13340						
2145-60	Prep. Stoker 3/4 x 1/4	D	Justice	3.4	9.0	33.5	54.1	4.1	13510	13980						
2155-60	Prep. Stoker 3/4 x 1/4	D	Justice	2.8	10.9	33.5	52.8	4.2	13080	13460						
2172-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	3.4	8.1	34.4	54.1	2.8	13390	13870						
2214-60	Prep. Stoker 3/4 x 1/4	D	Justice	4.3	8.1	34.9	52.7	3.1	13440	14050						
2217-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	2.8	9.7	35.5	52.0	3.1	13330	13720						
2263-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	3.5	7.4	33.8	55.3	2.3	13520	14010						
2330-60	Prep. Stoker 3/4 x 1/4	D	Justice	3.2	7.8	36.1	52.9	3.0	13610	14050						
2548-60	Prep. Stoker 3/4 x 1/4	D	Justice	4.5	7.5	35.5	52.5	2.7	13430	14060	1940	2000	2140	2300		
2817-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	2.3	7.3	37.8	52.6	3.3	13770	14090	1940	2050	2120	2180		
2819-60	Prep. Stoker 3/4 x 1/4	D	D. N. D.	2.9	9.6	35.4	52.1	3.3	13320	13720						

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Ash Fusion Temperature, °F Spherical	Ash Fusion Temperature, °F Hemi-spherical	Ash Fusion Temperature, °F Fluid	Grindability Index Hardgrove	Free Swelling Index
2682-60	Stoker Pea	T	F&MP	1.2	6.3	38.3	54.2	3.3	14070	14250	1870	2070	2140	2400	64	
2693-60	Pea	T	F&MP	1.7	3.6	38.8	55.9	2.1	14440	14690	1840	2090	2240	2370	63	
2698-60	"	T	F&MP	1.7	4.5	38.8	55.0	2.2	14200	14450	1900	2220	2300	2340	63	
2702-60	"	T	F&MP	1.3	4.7	38.8	55.2	2.9	14340	14530	1880		2100	2200	61	
2014-60	N/S 2 x 0	D	D.N.D.	3.0	6.2	33.2	57.6	2.2	13830	14250						
2020-60	" 2 x 0	D	D.N.D.	1.5	7.9	34.0	56.6	2.6	13910	14130						
2043-60	" 2 x 0	D	D.N.D.	6.4	8.7	30.7	54.2	3.2	12920	13800						
2052-60	" 2 x 0	D	D.N.D.	2.6	8.4	33.2	55.8	2.5	13330	13690						
2053-60	" 2 x 0	D	D.N.D.	3.2	8.2	30.3	58.3	2.5	13380	13820						
2054-60	" 2 x 0	D	D.N.D.	2.3	8.3	33.2	56.2	2.2	13530	13850						
2055-60	" 2 x 0	D	D.N.D.	2.1	10.2	30.3	57.4	2.7	13430	13720						
2071-60	" 2 x 0	D	D.N.D.	5.8	5.8	31.8	56.6	2.8	12930	13720						
2096-60	" 2 x 0	D	D.N.D.	2.4	6.2	32.0	58.6	2.6	13910	14250						
2097-60	" 2 x 0	D	D.N.D.	5.5	13.3	29.3	51.9	3.1	12090	12790						
2099-60	" 2 x 0	D	D.N.D.	5.7	12.8	30.4	51.1	3.0	12160	12890						
2100-60	" 2 x 0	D	D.N.D.	3.4	9.4	31.4	55.7	3.2	13320	13790						
2101-60	" 2 x 0	D	D.N.D.	5.6	9.0	32.5	52.9	2.5	13000	13770						
2120-60	" 2 x 0	D	D.N.D.	1.7	11.5	35.3	51.5	3.2	13000	13210						
2140-60	" 2 x 0	D	D.N.D.	6.9	12.8	29.4	50.9	3.5	11770	12650						
2179-60	" 2 x 0	D	D.N.D.	2.1	9.9	35.3	52.7	3.5	13190	13470						
2184-60	" 2 x 0	D	D.N.D.	3.6	7.4	31.4	57.6	2.9	13600	14120						
2234-60	" 2 x 0	D	D.N.D.	8.6	12.2	29.4	49.8	3.1	11780	12880						
2255-60	" 2 x 0	D	D.N.D.	2.2	10.1	31.3	56.4	3.3	13330	13620						
2275-60	" 2 x 0	D	D.N.D.	4.0	10.2	31.8	54.0	3.0	12940	13480						
2276-60	" 2 x 0	D	D.N.D.	7.4	10.0	30.7	51.9	3.0	12650	13660						
2277-60	" 2 x 0	D	D.N.D.	3.9	9.8	31.5	54.8	3.0	13120	13650						
2278-60	" 2 x 0	D	D.N.D.	6.1	8.0	31.6	53.3	2.8	12860	13690						
2290-60	" 2 x 0	D	D.N.D.	2.3	6.1	34.9	56.7	1.8	14120	14450						
2328-60	" 2 x 0	D	D.N.D.	2.7	8.0	31.8	57.5	2.6	13710	14090						
2393-60	" 2 x 0	D	D.N.D.	2.4	7.7	31.5	58.4	2.6	13980	14320						
2404-60	" 2 x 0	D	D.N.D.	2.8	8.6	34.3	54.3	2.6	13430	13820						
2463-60	" 2 x 0	D	D.N.D.	2.9	8.2	33.1	55.8	2.5	13630	14040						
2471-60	" 2 x 0	D	D.N.D.	3.8	10.0	34.7	51.5	3.4	13220	13740	1910	2040	2140	2280		
2520-60	" 2 x 0	D	D.N.D.	1.4	9.5	36.3	52.8	3.1	13420	13610	1880	2140	2200	2510		
2521-60	" 2 x 0	D	D.N.D.	1.6	10.0	35.4	53.0	2.1	13450	13670	2000	2140	2270	2500		
2561-60	" 2 x 0	D	D.N.D.	3.8	7.0	33.4	55.8	2.4	13770	14310	1970	2030	2160	2360		
2568-60	" 2 x 0	D	D.N.D.	6.7	10.0	31.9	51.4	2.9	12240	13130	1940	2060	2170	2240		
2572-60	" 2 x 0	D	D.N.D.	2.7	10.6	35.2	51.5	3.1	13220	13580	1890	2040	2200	2400		
2573-60	" 2 x 0	D	D.N.D.	2.6	7.0	32.6	57.8	2.5	13640	14000	1900	2010	2240	2380		
2578-60	" 2 x 0	D	D.N.D.	3.8	6.6	35.8	53.8	2.4	13680	14230	1960	2170	2290	2360		
2625-60	" 2 x 0	D	D.N.D.	4.0	10.2	33.9	51.9	2.8	13020	13560	1860	2020	2120	2300		
2645-60	" 2 x 0	D	D.N.D.	5.4	12.9	33.6	48.1	3.5	12180	12870	1910	2040	2300	2470		
2646-60	" 2 x 0	D	D.N.D.	3.2	10.7	31.9	54.2	2.6	13100	13530	1990	2030	2160	2250		
2656-60	" 2 x 0	D	D.N.D.	4.4	7.1	34.5	54.0	2.5	13510	14130	1940	2100	2270	2390		
2657-60	" 2 x 0	D	D.N.D.	4.2	6.8	34.6	54.4	2.5	13530	14130	1940	2090	2300	2480		
2712-60	" 2 x 0	D	D.N.D.	1.3	10.3	34.3	54.1	2.7	13510	13690	2000	2120	2240	2370		
2724-60	" 2 x 0	D	D.N.D.	3.1	7.9	31.5	57.5	2.2	13620	14060	2000	2140	2200	2400		
2726-60	" 2 x 0	D	D.N.D.	2.8	8.2	32.5	56.5	1.4	13750	14140	1890	2010	2100	2340		
2733-60	" 2 x 0	D	D.N.D.	1.4	8.9	34.7	55.0	3.9	13820	14020	1950		2230	2470		
2749-60	" 2 x 0	D	D.N.D.	3.9	9.6	32.1	54.4	2.7	13240	13780						
2787-60	" 2 x 0	D	D.N.D.	5.4	11.8	32.4	50.4	3.7	12400	13100	1860	2080	2190	2260		
2790-60	" 2 x 0	D	D.N.D.	3.2	12.6	32.4	51.8	2.9	12550	12970	1850	2110	2250	2300		
2800-60	" 2 x 0	D	D.N.D.	3.2	11.9	32.4	52.5	3.0	12870	13290	1880	2050	2270	2440		
2828-60	" 2 x 0	D	D.N.D.	3.8	10.3	32.1	53.8	2.6	12910	13420	1860	1950	2000	2080		
2829-60	" 2 x 0	D	D.N.D.	4.3	8.6	36.0	51.1	3.1	13060	13650	1860	1950	2000	2170		
2830-60	" 2 x 0	D	D.N.D.	4.3	7.5	35.8	52.4	2.8	13310	13900	1800		1940	2060		
2831-60	" 2 x 0	D	D.N.D.	5.7	7.4	35.2	51.7	2.7	13120	13910	1860	2050	2280	2350		
2832-60	" 2 x 0	D	D.N.D.	2.8	6.8	36.2	54.2	2.5	13670	14060	1860	2050	2130	2290		
2833-60	" 2 x 0	D	D.N.D.	4.7	7.1	34.5	53.7	2.6	13210	13870	1850	2070	2170	2310		
2838-60	" 2 x 0	D	D.N.D.	2.4	7.8	37.2	52.6	3.2	13680	14020	1850	2090	2200	2290		
2909-60	" 2 x 0	D	D.N.D.	4.0	10.4	33.9	51.7	3.5	12920	13450						
2926-60	" 2 x 0	D	D.N.D.	6.0	9.6	32.2	52.2	2.8	12950	13780						
2930-60	" 2 x 0	D	D.N.D.	4.4	9.4	32.1	54.1	3.0	12720	13310						
2936-60	" 2 x 0	D	D.N.D.	4.9	8.7	34.0	52.4	2.5	13560	14250						
2945-60	" 2 x 0	D	D.N.D.	2.3	9.2	36.4	52.1	3.7	13370	13680						

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Ash Fusion Temperature, °F Spherical	Ash Fusion Temperature, °F Hemi-spherical	Ash Fusion Temperature, °F Fluid	Grindability Index Hardgrove	Free Swelling Index
2946-60	N/S 2 x 0	D	D. N. D.	3.9	9.8	32.5	53.8	3.0	13140	13680						
2947-60	" 2 x 0	D	D. N. D.	4.8	10.0	33.5	51.7	3.4	12650	13280						
2951-60	" 2 x 0	D	D. N. D.	3.0	12.0	30.0	54.0	1.0	13110	13520						
2997-60	" 2 x 0	D	D. N. D.	5.4	8.3	36.1	50.2	3.4	12940	13670						
2998-60	" 2 x 0	D	D. N. D.	3.9	8.9	35.6	51.6	3.5	13090	13630						
2999-60	" 2 x 0	D	D. N. D.	11.9	9.4	29.8	48.9	2.9	12020	13660						
3000-60	" 2 x 0	D	D. N. D.	3.9	6.4	34.1	55.6	2.3	14000	14560						
3001-60	" 2 x 0	D	D. N. D.	3.3	6.6	34.6	55.5	2.2	14170	14660						
3002-60	" 2 x 0	D	D. N. D.	5.4	6.9	32.8	54.9	2.2	13680	14460						
3003-60	" 2 x 0	D	D. N. D.	3.2	9.7	36.0	51.1	3.3	13420	13860						
3004-60	" 2 x 0	D	D. N. D.	3.7	9.0	32.4	54.9	2.9	13050	13550						
3019-60	" 2 x 0	D	D. N. D.	5.8	10.6	32.4	51.2	3.2	12590	13370	1900	2000	2040	2110		
3020-60	" 2 x 0	D	D. N. D.	5.8	8.3	32.2	54.5	2.8	13200	13890	1860	1990	2020	2100		
3038-60	" 2 x 0	D	D. N. D.	4.4	11.7	33.3	50.6	3.4	12560	13140						
3041-60	" 2 x 0	D	D. N. D.	5.2	12.9	33.3	48.6	3.9	12400	13080						
3049-60	" 2 x 0	D	D. N. D.	6.5	6.4	34.4	52.7	2.3	13050	13950						
3060-60	" 2 x 0	D	D. N. D.	3.8	5.9	35.1	55.2	2.0	13490	14030						
3061-60	" 2 x 0	D	D. N. D.	2.0	13.5	34.0	50.5	3.5	12500	12750						
3071-60	" 2 x 0	D	D. N. D.	3.8	12.1	33.3	50.8	1.9	12720	13220						
2872-60	" 1 1/2 x 0	D	D. N. D.	2.0	5.2	36.9	55.9	2.4	14190	14480						
3070-60	" 1 3/4 x 0	D	D. N. D.	3.8	6.0	36.2	54.0	2.6	13770	14320						
2023-60	" 1 1/4 x 0	D	D. N. D.	4.8	9.3	32.7	53.2	3.4	13000	13650						
2026-60	" 1 1/4 x 0	D	F MP	3.8	8.9	34.7	52.6	2.7	13410	13950	1910		2230	2480		7 1/2
2027-60	" 1 1/4 x 0	D	F MP	8.0	8.2	32.0	51.8	2.9	12810	13910	1890		2160	2410		8 1/2
2028-60	" 1 1/4 x 0	D	F MP	6.6	8.1	32.3	53.0	2.9	13020	13940	1890		2120	2390		8
2029-60	" 1 1/4 x 0	D	F MP	6.1	8.9	30.5	54.5	3.3	12690	13520	1900		2120	2400		8 1/2
2044-60	" 1 1/4 x 0	D	F MP	8.3	9.1	30.5	52.1	3.4	12490	13620	1860		2130	2370		8 1/2
2045-60	" 1 1/4 x 0	D	F MP	8.5	10.6	30.8	50.1	3.8	12310	13450	1940		2130	2400		8 1/2
2046-60	" 1 1/4 x 0	D	F MP	7.6	9.0	31.2	52.2	3.1	12630	13670	2000		2180	2420		8 1/2
2047-60	" 1 1/4 x 0	D	F MP	6.6	9.7	31.0	52.7	3.3	12760	13650	1960		2150	2410		8 1/2
2064-60	" 1 1/4 x 0	D	D. N. D.	1.2	10.6	32.8	55.4	4.2	13520	13690						
2082-60	" 1 1/4 x 0	D	F MP	3.0	7.0	34.5	55.5	2.5	13940	14380	1970		2100	2320		7 1/2
2083-60	" 1 1/4 x 0	D	F MP	2.4	5.8	35.1	56.7	2.3	14180	14520	1940		2130	2400		7
2087-60	" 1 1/4 x 0	D	D. N. D.	4.0	9.8	32.0	54.2	3.3	13340	13890						
2134-60	" 1 1/4 x 0	D	D. N. D.	5.4	9.5	31.0	54.1	3.3	13020	13760						
2153-60	" 1 1/4 x 0	D	D. N. D.	5.3	8.1	31.3	55.3	2.6	13290	14030						
2197-60	" 1 1/4 x 0	D	D. N. D.	0.9	6.5	35.0	57.6	2.2	14140	14270						
2219-60	" 1 1/4 x 0	D	D. N. D.	4.9	12.8	30.1	52.2	3.7	12540	13180						
2233-60	" 1 1/4 x 0	D	D. N. D.	4.1	11.4	31.1	53.4	3.6	12750	13300						
2256-60	" 1 1/4 x 0	D	D. N. D.	5.3	14.2	29.9	50.6	3.8	11990	12660						
2257-60	" 1 1/4 x 0	D	D. N. D.	4.3	11.8	30.3	53.6	3.7	12490	13060						
2266-60	" 1 1/4 x 0	D	F MP	3.3	9.1	35.5	52.1	3.0	13360	13810						
2269-60	" 1 1/4 x 0	D	F MP												42	
2283-60	" 1 1/4 x 0	D	F MP	3.8	8.7	32.1	55.4	3.2	13260	13780						
2291-60	" 1 1/4 x 0	D	D. N. D.	3.8	9.8	32.2	54.2	3.5	13030	13540						
2293-60	" 1 1/4 x 0	D	D. N. D.	2.1	11.6	31.9	54.4	3.9	13160	13440						
2300-60	" 1 1/4 x 0	D	D. N. D.	6.1	13.3	29.3	51.3	3.7	12120	12910						
2321-60	" 1 1/4 x 0	D	D. N. D.	4.4	8.2	33.2	54.2	2.8	13260	13880						
2336-60	" 1 1/4 x 0	D	D. N. D.	2.6	11.7	32.7	53.0	3.9	13100	13450						
2356-60	" 1 1/4 x 0	D	D. N. D.	3.2	12.3	32.3	54.2	4.1	13210	13370						
2381-60	" 1 1/4 x 0	D	D. N. D.	3.7	10.2	33.4	52.7	3.6	13060	13570	1960		2140	2190		
2382-60	" 1 1/4 x 0	D	D. N. D.	6.7	9.8	31.1	52.4	3.4	12720	13640	1940		2170	2370		
2385-60	" 1 1/4 x 0	D	D. N. D.	3.9	12.8	32.6	50.7	3.1	12600	13110						
2399-60	" 1 1/4 x 0	D	D. N. D.	6.5	9.5	31.9	51.9	3.4	12750	13630						
2403-60	" 1 1/4 x 0	D	D. N. D.	6.6	11.1	31.9	50.4	3.0	12020	12870						
2414-60	" 1 1/4 x 0	D	D. N. D.	3.0	10.8	35.8	50.1	3.6	12940	13320						
2455-60	" 1 1/4 x 0	D	D. N. D.	7.1	10.9	30.4	51.6	3.0	12320	13340						
2464-60	" 1 1/4 x 0	D	Justice	3.9	7.5	34.3	54.3	3.2	13640	[illegible]						
2466-60	" 1 1/4 x 0	D	D. N. D.	3.0	12.1	34.7	50.2	2.3	12721	13120						
2486-60	" 1 1/4 x 0	D	D. N. D.	4.8	11.2	32.3	51.7	3.1	12130	12710	1960		2040	2230		
2518-60	" 1 1/4 x 0	D	D. N. D.	6.1	11.8	31.8	50.3	2.5	11920	12690	1880	2010	2100	2280		
2553-60	" 1 1/4 x 0	D	D. N. D.	2.4	9.5	34.7	53.4	3.1	13380	13710	1940	2070	2190	2410		
2554-60	" 1 1/4 x 0	D	D. N. D.	2.9	7.7	35.9	53.5	2.9	13470	13870	1960	2140	2240	2380		
2555-60	" 1 1/4 x 0	D	Justice	2.9	8.5	35.3	53.3	3.1	13400	13800	1890	1960	2100	2330		
2584-60	" 1 1/4 x 0	D	Justice	3.6	7.5	34.3	54.6	2.7	13620	14120	1970	2100	2170	2290		
2592-60	" 1 1/4 x 0	D	D. N. D.	4.3	6.8	33.9	55.0	2.7	13620	14240	1960	2050	2100	2170		
2655-60	" 1 1/4 x 0	D	F MP	1.9	5.3	37.1	55.7	2.1	14530	14820						

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	As Received Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Ash Fusion Temperature, °F Spherical	Ash Fusion Temperature, °F Hemi-spherical	Ash Fusion Temperature, °F Fluid	Grindability Index Hardgrove	Free Swelling Index
2659-60	N/S 1 1/4 x 0	D	D. N. D.	5.6	8.7	35.5	50.2	3.2	13050	13830	1980	2060	2210	2430		
2660-60	" 1 1/4 x 0	D	D. N. D.	2.8	10.7	35.3	51.2	2.8	13410	13790	2000	2040	2230	2400		
2715-60	" 1 1/4 x 0	D	D. N. D.	3.3	7.0	35.3	54.4	2.8	13820	14290	1920	2070	2240	2490		
2716-60	" 1 1/4 x 0	D	D. N. D.	3.3	8.0	34.4	54.3	2.8	13630	14100	1940	2120	2300	2500		
2719-60	" 1 1/4 x 0	D	Justice	1.5	7.0	34.8	56.7	3.1	14160	14380	1920	2080	2170	2290		
2734-60	" 1 1/4 x 0	D	D. N. D.	3.3	8.7	34.4	53.6	2.4	13400	13850	1970		2210	2420		
2735-60	" 1 1/4 x 0	D	D. N. D.	2.4	8.3	35.3	54.0	2.6	13620	13950	1990		2230	2400		
2743-60	" 1 1/4 x 0	D	D. N. D.	1.3	9.0	37.0	52.7	3.5	13940	14120	2070	2100	2340	2460		
2747-60	" 1 1/4 x 0	D	D. N. D.	3.9	6.8	32.0	57.3	2.7	13710	14270	1840	2240	2300	2390		
2748-60	" 1 1/4 x 0	D	D. N. D.	4.5	7.1	32.6	55.8	2.9	13600	14240	1840		2100	2140		
2815-60	" 1 1/4 x 0	D	D. N. D.	4.7	7.9	34.6	52.8	2.6	13360	14030						
2816-60	" 1 1/4 x 0	D	D. N. D.	3.9	7.4	33.9	54.8	2.6	13600	14160						
2858-60	" 1 1/4 x 0	D	D. N. D.	3.8	6.4	35.9	53.9	2.7	13460	13990	1860		2110	2240		
2859-60	" 1 1/4 x 0	D	D. N. D.	2.3	7.5	34.6	55.6	2.9	13790	14120	1870		2140	2280		
2873-60	" 1 1/4 x 0	D	D. N. D.	4.3	10.5	34.5	50.7	2.8	12660	13230						
2875-60	" 1 1/4 x 0	D	D. N. D.	2.8	8.0	34.4	54.8	1.0	13610	14000						
2876-60	" 1 1/4 x 0	D	D. N. D.	3.4	8.8	33.9	53.9	2.6	13420	13890						
2877-60	" 1 1/4 x 0	D	D. N. D.	4.0	8.4	34.1	53.5	2.2	13310	13870						
2923-60	" 1 1/4 x 0	D	F&MP	8.8	10.7	32.3	48.2	3.6	12260	13440						
2981-60	" 1 1/4 x 0	D	D. N. D.	1.7	8.3	35.6	54.4	2.6	13780	14010						
2982-60	" 1 1/4 x 0	D	D. N. D.	4.7	10.2	33.0	52.1	2.8	13090	13730						
3005-60	" 1 1/4 x 0	D	D. N. D.	1.9	9.0	34.2	54.9	3.3	13660	13930						
3027-60	" 1 1/4 x 0	D	D. N. D.	2.8	12.4	31.4	53.4	2.9	13000	13380						
3028-60	" 1 1/4 x 0	D	D. N. D.	4.1	11.9	32.9	51.1	2.2	12960	13510						
3032-60	" 1 1/4 x 0	D	D. N. D.	4.5	10.1	31.9	53.5	3.0	13330	13950						
3067-60	" 1 1/4 x 0	D	D. N. D.	5.6	7.2	34.6	52.6	4.0	13360	14160						
3077-60	" 1 1/4 x 0	D	D. N. D.	7.9	20.7	31.0	40.4	5.1	10190	11060						
2067-60	Slack 3/4 x 0	D	D. P. W.	2.1	11.4	31.5	55.0	3.7	13100	13390						
2095-60	" 3/4 x 0	D	Justice	7.2	9.3	31.5	52.0	3.3	12690	13670						
2207-60	" 3/4 x 0	D	Justice	7.8	10.0	32.4	49.8	2.9	12380	13430						
2260-60	" 3/4 x 0	D	Justice	7.5	9.8	32.1	50.6	3.2	12710	13740						
2332-60	" 3/4 x 0	T	F&MP	6.1	6.7	34.2	53.0	3.3	13370	14240						
2369-60	" 3/4 x 0	D	Justice	8.0	9.9	32.0	50.1	2.9	12440	13525	2340		2450	2570		
2470-60	" 3/4 x 0	D	Justice	6.1	8.9	33.2	51.8	3.3	12980	13820	1880		2150	2280		
2791-60	" 3/4 x 0	D	Justice	5.3	10.8	33.3	50.6	2.8	12640	13340	1880	2080	2170	2240		
2792-60	" 3/4 x 0	D	Justice	4.3	9.1	33.7	52.9	2.8	12900	13480	1880		1970	2150		
2793-60	" 3/4 x 0	D	Justice	4.9	9.3	32.8	53.0	3.0	13060	13730	1890	2050	2230	2320		
2196-60	"	D	NSLP	0.5	8.7	37.1	53.7	3.6	13740	13810						
2350-60	"	D	NSLP	1.1	8.8	36.5	53.6	3.6	13790	13940						
2351-60	"	D	NSLP	1.2	9.9	36.0	52.9	3.7	13590	13750						
2409-60	"	D	Justice	7.1	9.5	32.3	51.1	3.0	12650	13620						
2632-60	"	D	D. V. A.	3.7	7.8	35.6	52.9	4.6	13480	13990	1930	2080	2210	2370		
2677-60	"	T	F&MP	1.0	13.8	34.4	50.7	3.0	13210	13340	1900	2120	2200	2370	68	
2679-60	"	T	F&MP	1.2	5.9	35.5	57.4	1.6	14110	14290	1890	2050	2220	2390	67	
2683-60	"	T	F&MP	1.3	8.2	36.6	53.9	3.7	13770	13940	1870		1960	2050	69	
2685-60	"	T	F&MP	2.1	11.2	36.0	50.7	3.5	13080	13360	1880	2100	2220	2420	61	
2687-60	"	T	F&MP	2.1	12.9	31.1	53.9	4.6	13100	13330	1890	2100	2240	2380	79	
2690-60	"	T	F&MP	1.2	11.6	31.4	55.8	3.2	13290	13460	1880	2140	2220	2370	67	
2780-60	"	T	F&MP	1.4	5.0	36.5	57.1	1.0	14220	14420	1900	2110	2260	2400	64	
2705-60	"	T	F&MP	1.4	7.0	33.3	58.3	2.1	14040	14240	1860	2090	2270	2320	71	
2996-60	"	D	NSLP	1.0	6.7	36.7	55.6	3.0	14130	14260						
3053-60	"	D	Justice	4.6	10.7	32.8	51.9	2.6	12960	13580						
3054-60	"	D	Justice	4.3	8.0	34.0	53.7	3.4	13310	13910						
3055-60	"	D	Justice	8.6	7.6	32.7	51.1	2.4	12960	14180						
2703-60	Fines	T	F&MP	1.3	11.2	32.0	55.5	2.8	13320	13500	1920	2220	2280	2390	71	
2006-60	Not designated	D	D. N. D.	5.6	11.2	31.7	51.5	3.6	12570	13310						
2132-60	" "	D	D. N. D.	5.2	9.4	32.9	52.5	3.3	13100	13800						
2213-60	" "	D	D. N. D.	4.8	9.7	33.0	52.5	3.3	13050	13710						
2820-60	" "	D	NSLP	1.2	8.7	37.0	53.1	3.6	13710	13880						
2821-60	" "	D	NSLP	1.1	8.7	36.8	53.4	3.6	13760	13920						
2822-60	" "	D	NSLP	1.1	8.2	36.8	53.9	3.4	13810	13960						
3057-60	" "	D	D. N. D.	5.2	7.7	33.2	53.9	2.8	13320	14050						

PROVINCE Nova Scotia

AREA Sydney Coal Field

OPERATOR Dominion Coal Co., Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
3059-60	Not designated	D	D. N. D.	6.1	11.3	32.5	50.1	3.5	12470	13280						
3076-60	" "	D	D. N. D.	1.1	10.6	30.6	57.7	2.9	13[illegible]	13690						
2932-60	" "	T	F MP	5.1	9.0	33.3	52.6	2.7	13050	13740	1870	2000	2040	2110		
2229-60	" "	D	Justice	5.8	8.3	35.5	50.4	4.1	13120	13920						
2423-60	" "	D	NSLP	1.1	9.9	36.7	52.3	3.4	13760	13910						
2480-60	" "	D	Dom. Coal	2.1	10.2	35.9	51.8	3.7	13160	13450						
2481-60	" "	D	Dom. Coal	1.3	8.6	36.7	53.4	3.3	13780	13960						
2619-60	" "	T	Dom. Coal	1.9	9.4	34.1	54.6	2.9	13450	13720						
2820-60	" "	T	Dom. Coal	1.2	8.7	37.0	53.1	3.6	13710	13880						
2821-60	" "	T	Dom. Coal	1.1	8.7	36.8	53.4	3.6	13760	13920						

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

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2079-60	Lump 1 x 6	D	D. N. D.	2.1	9.9	34.4	53.6	7.4	12610	12880						
2080-60	" 1 x 6	D	D. N. D.	1.8	12.1	34.9	51.2	8.8	12590	12820						
2113-60	" 1 x 6	D	D. N. D.	5.2	14.1	32.6	48.1	6.8	12080	12740						
2166-60	" 1 x 6	D	D. N. D.	1.3	7.6	37.8	53.3	4.5	14100	14290						
2187-60	" 1 x 6	D	D. N. D.	2.0	13.8	34.0	50.2	7.3	12420	12670						
2188-60	" 1 x 6	D	D. N. D.	1.6	13.0	35.6	49.8	7.4	12510	12710						
2280-60	" 1 x 6	D	D. N. D.	3.7	10.3	36.1	49.9	5.7	12740	13230						
2295-60	" 1 x 6	D	D. N. D.	2.9	11.4	36.1	49.6	6.8	12660	13040						
2308-60	" 1 x 6	D	D. N. D.	3.2	8.2	35.3	53.3	6.2	13260	13700						
2327-60	" 1 x 6	D	D. N. D.	2.8	16.1	33.4	47.7	10.0	11830	12170						
2363-60	" 1 x 6	D	D. N. D.	2.2	12.5	35.4	49.9	7.7	12590	12880						
2400-60	" 1 x 6	D	D. N. D.	2.4	11.2	35.1	51.3	5.7	12840	13160						
2467-60	" 1 x 6	D	D. N. D.	2.3	8.3	35.4	54.0	5.3	13270	13580						
2623-60	" 1 x 6	D	D. N. D.	2.9	9.8	35.5	51.8	5.6	13010	13400	1860	1930	2010	2290		
2861-60	" 1 x 6	D	D. N. D.	2.6	10.7	34.5	52.2	7.9	12580	12920						
2928-60	" 1 x 6	D	D. N. D.	2.1	15.1	34.1	48.7	7.5	12200	12460						
3029-60	" 1 x 6	D	D. N. D.	2.2	5.2	36.5	56.0	3.8	13750	14070						
2033-60	N/S 1 1/4 x 0	D	D. N. D.	9.9	9.8	31.2	49.1	4.8	11550	12820						
2075-60	" " 1 1/4 x 0	D	D. N. D.	7.2	9.2	32.2	51.4	4.4	12590	13560						
2103-60	" " 1 1/4 x 0	D	D. N. D.	12.4	11.9	27.1	48.7	4.4	10860	12390						
2203-60	" " 1 1/4 x 0	D	D. N. D.	6.1	9.5	32.9	51.5	4.9	12360	13170						
2232-60	" " 1 1/4 x 0	D	D. N. D.	8.0	12.1	32.3	47.6	5.4	11800	12820						
2274-60	" " 1 1/4 x 0	D	D. N. D.	4.6	9.5	35.8	50.1	4.9	12700	13320						
2289-60	" " 1 1/4 x 0	D	D. N. D.	9.8	10.0	34.2	46.0	4.8	11920	13210						
2329-60	" " 1 1/4 x 0	D	D. N. D.	11.0	8.5	32.5	48.0	5.0	11720	13170						
2343-60	" " 1 1/4 x 0	D	D. N. D.	9.6	8.5	33.6	48.3	5.0	11780	13030						
2416-60	" " 1 1/4 x 0	D	D. N. D.	6.3	9.0	31.4	53.3	4.3	12480	13320						
2540-60	" " 1 1/4 x 0	D	D. N. D.	5.9	16.0	31.9	46.2	5.7	11350	12060	2000	2090	2140	2260		
2546-60	" " 1 1/4 x 0	D	D. N. D.	5.1	20.4	29.9	44.6	4.2	10330	10880	1910	2060	2090	2240		
2635-60	" " 1 1/4 x 0	D	D. N. D.	3.8	11.3	31.4	53.5	2.8	13090	13610	1920	2040	2180	2390		
2717-60	" " 1 1/4 x 0	D	D. N. D.	6.3	10.1	27.1	56.5	3.3	12400	13240	1880		2090	2240		
2718-60	" " 1 1/4 x 0	D	D. N. D.	5.8	19.4	29.5	45.3	5.0	10510	11160	1900	2040	2150	2340		
2750-60	" " 1 1/4 x 0	D	D. N. D.	8.5	14.8	23.9	52.8	2.6	11090	12120	1870	2100	2240	2380		
2590-60	Slack	D	NSLP	4.5	13.8	33.8	47.9	6.4	11940	12500						

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

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2309-60	Lump(Greener)	T	F MP	5.2	9.9	36.8	48.1	5.9	12600	13280	1890		2140	2290		5 1/2
2845-60	Lump(Greener)	T	F MP	3.8	10.1	37.2	48.9	6.0	12710	13220	1860		2130	2340		
2848-60	Lump(Tomson)	T	F MP	4.7	11.6	37.3	46.4	6.6	12340	12950	1860		2100	2320		
2846-60	Nut (Greener)	T	F MP	3.8	10.7	38.5	47.0	6.2	12640	13150	1880		2090	2310	61	
2849-60	Nut(Tomson)	T	F MP	2.4	12.3	37.8	47.5	6.2	12510	12820	1880		2110	2270	61	
2310-60	Nut Stoker (Greener)	T	F MP	3.9	11.8	37.0	47.3	6.3	12500	13010	1900		2100	2210		4 1/2

PROVINCE Nova Scotia

AREA Sydney Coal Field — OPERATOR Indian Cove Coal Co., Ltd. (Tomson and Greener Mines)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received: Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value: Btu/lb Gross	Dry: Btu/lb Gross	Ash Fusion Temperature, °F: Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2065-60	3/4 x 1/4 (Greener)	D	D.P.W.	3.1	10.9	35.5	50.5	5.5	12740	13160						
2130-60	3/4 x 1/4 (Greener)	D	D.N.D.	4.1	12.3	35.1	48.5	5.1	12180	12700						
2311-60	Slack (Greener)	T	F&MP	3.8	10.2	36.7	49.3	5.5	12610	13110	1940		2130	2220	63	5 1/2
2847-60	Slack (Greener)	T	F&MP	6.2	13.1	34.7	46.0	6.0	11850	12640	1900		2100	2300	69	
2850-60	Slack (Tomson)	T	F&MP	3.4	17.4	35.9	43.3	6.6	11520	11920	1870		2100	2200	66	
2312-60	Mine Run (Tomson)	T	F&MP	7.5	12.6	34.3	45.6	6.6	11600	12540	1940		2180	2260	64	5 1/2

AREA West Coast Coal Field — OPERATOR Inverness Industries Ltd. (Harbour View Mine)

2048-60		CH	G.S.C.	1.9	10.9	38.4	48.8	10.1	12120	12350	1860		1930	2120		

AREA Mainland Coal Field (Pictou) — OPERATOR Dominion Steel and Coal Corp. Ltd., Acadia Coal Division

2078-60	Slack 1 x 1/32	D	D.N.D.	5.3	11.3	27.4	56.0	0.6	12500	13200						
2106-60	" "	D	D.N.D.	5.2	13.5	26.5	54.8	0.7	12380	13050						
2171-60	" "	D	D.N.D.	3.8	12.4	27.6	56.2	0.5	12530	13020						
2201-60	" "	D	D.N.D.	4.7	12.1	29.6	53.6	0.7	12470	13080						
2288-60	" "	D	D.N.D.	4.6	13.1	29.2	53.1	0.5	12530	13140						
2352-60	" "	T	F&MP	1.6	11.7	31.5	55.2	0.5	13090	13310						
2417-60	" "	D	D.N.D.	4.3	11.8	28.6	55.3	0.7	12700	13270						
2483-60	" "	D	D.N.D.	2.5	13.2	27.2	57.1	0.5	12620	12950	2290		2420	2540		
2535-60	" "	D	D.N.D.	4.3	13.2	28.3	54.2	0.5	12580	13140	2340	2400	2470	2590		
2541-60	" "	D	D.N.D.	3.2	11.3	31.0	54.5	0.5	12910	13350	2340	2440	2490	2640		
2547-60	" "	D	D.N.D.	1.2	10.9	30.0	57.9	0.4	13260	13420	2370	2450	2510	2640		
2570-60	" "	D	D.N.D.	2.8	11.1	27.6	58.5	0.7	13090	13470	2300	2340	2370	2530		
2571-60	" "	D	D.N.D.	2.6	11.6	29.1	56.7	0.4	12980	13330	2160	2300	2340	2550		
2626-60	" "	D	D.N.D.	2.9	12.6	28.0	56.5	0.5	12830	13210	2370	2440	2510	2620		

AREA Mainland Coal Field (Cumberland) — OPERATOR Joggins Coal Co., Ltd.

2189-60	1 1/4 x 1/8 Prep. St	D	D.N.D.	2.2	15.0	35.0	47.8	5.9	12270	12540						
3073-60	1 1/4 x 1/8 Prep. St	D	D.N.D.	3.0	17.0	36.5	43.5	4.1	12000	12380	1960	2020	2050	2080		

PROVINCE New Brunswick

AREA Minto Coal Field (Chipman) — OPERATOR Lafferty Bros.

2640-60	1 1/2 x 0 N/S	D	D.N.D.	2.8	19.9	33.5	43.8	9.1	11770	12110	1930	2280	2360	2400		
2818-60	" "	D	D.N.D.	1.3	16.1	36.4	46.2	9.8	12370	12540	1850	1920	2010	2100		
2929-60	" "	D	D.N.D.	3.1	22.7	32.0	42.2	12.4	10950	11290						
2955-60	" "	D	D.N.D.	3.3	25.9	30.6	40.2	13.9	10500	10860						
2989-60	" "	D	D.N.D.	1.5	20.6	33.5	44.4	12.4	11700	11880						
2991-60	" "	D	D.N.D.	3.4	23.8	31.3	41.5	12.3	10850	11240						
3030-60	" "	D	D.N.D.	4.6	18.3	32.9	44.2	11.7	11500	12050						
3065-60	" "	D	D.N.D.	3.6	13.3	34.8	48.3	8.2	12690	13170						
2002-60	" "	D	D.N.D.	3.2	18.2	32.7	45.9	7.4	12200	12610						
2050-60	" "	D	D.N.D.	2.8	21.4	33.1	42.7	7.1	11450	11780						
2081-60	" "	D	D.N.D.	4.3	18.4	32.1	45.2	7.5	11690	12220						
2127-60	" "	D	D.N.D.	5.5	18.8	31.0	44.7	6.2	11320	11980						
2154-60	" "	D	D.N.D.	4.5	18.4	32.2	44.9	6.0	11840	12400						
2185-60	" "	D	D.N.D.	4.1	22.4	31.4	42.1	6.3	11180	11670						

PROVINCE New Brunswick

AREA Minto Coal Field (Chipman) OPERATOR Lafferty Bros.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	As Received Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2204-60	1 1/2 x 0 N/S	D	D. N. D.	3.6	20.8	34.0	41.6	9.0	11420	11850						
2205-60	" "	D	D. N. D.	4.0	19.3	32.6	44.1	8.4	11580	12060	— —					
2249-60	" "	D	D. N. D.	3.8	23.4	31.1	41.7	6.7	10980	11420						
2250-60	" "	D	D. N. D.	3.8	21.2	31.4	43.6	7.0	11430	11880						
2307-60	" "	D	D. N. D.	3.4	17.3	34.4	44.9	6.6	12140	12560						
2371-60	" "	D	D. N. D.	2.1	20.7	32.2	45.0	8.1	11630	11880	1870		1980	2050		
2405-60	" "	D	D. N. D.	1.8	20.9	32.4	44.9	9.0	11660	11870						
2453-60	" "	D	D. N. D.	2.4	20.1	31.7	45.8	7.6	11830	12120						
2473-60	" "	D	D. N. D.	1.2	13.7	37.2	47.9	8.2	13080	13240	1920		2080	2160		
2479-60	" "	D	D. N. D.	1.1	15.3	36.9	46.7	8.1	12940	13080	2220		2370	2410		

AREA Minto Coal Field (Minto) OPERATOR Mills Ltd., D. W. and R. A.

2801-60	1 1/2 x 1/2 Prep. St	D	D. N. D.	2.2	12.9	35.9	49.0	5.7	12920	13210	1880	2090	2210	2400		
2802-60	1 1/2 x 1/2 Prep. St	D	D. N. D.	1.7	15.4	33.7	49.2	6.4	12590	12810						
2160-60	Pea Stoker	D	D. P. W.	0.9	12.8	35.4	50.9	6.3	13020	13140						
2220-60	3/4 x 1/4 Prep. St	D	D. P. W.	1.1	12.6	37.6	48.7	5.9	13410	13550	1820		1990	2140		
2563-60	3/4 x 1/4 Prep. St	D	Justice	1.8	14.8	34.2	49.2	6.1	12960	13190	1950	2020	2050	2100		
2723-60	3/4 x 1/4 Prep. St	D	Justice	1.3	12.5	36.2	50.0	5.7	13240	13420	1880	2000	2180	2370		
2624-60	2 x 1/8 Prep. St	D	D. N. D.	1.3	14.3	34.8	49.6	6.6	12930	13100	1870	1930	2000	2310		
2746-60	2 x 0 N/S	D	D. N. D.	1.4	16.8	33.0	48.8	6.1	12270	12450	1860	2100	2250	2420		

AREA Minto Coal Field (Beersville) OPERATOR Wasson Ltd., A. W.

2938-60	Special Mine		NBEPC	13.1	13.5	31.7	41.7	8.6	10730	12350	2050	2160	2200	2250	76	7
2939-60	" "		"	14.8	16.6	29.9	38.7	8.3	10000	11740	1930	2070	2140	2360	117	6 - 6 1/2
2940-60	" "		"	10.6	17.1	31.4	40.9	7.4	10580	11840	1940	2070	2130	2210	80	6 - 6 1/2
2941-60	" "		"	10.8	18.3	30.9	40.0	6.7	10360	11620	1960	2090	2150	2200	74	5 1/2 - 6

PROVINCE Saskatchewan

AREA Souris Valley (Bienfait) OPERATOR Manitoba and Saskatchewan Coal Co., Ltd.

2628-60	1 x 1/2 Stoker	D	D. N. D.	32.8	5.5	34.1	27.6	0.4	7820	11640	2020	2190	2360	2480		

OPERATOR Western Dominion Coal Mines Ltd.

2035-60	Cobble + 4	T	F&MP	28.5	6.4	30.0	35.1	0.3	7990	11180						
2036-60	Stove 4 x 2	T	F&MP	30.0	7.5	32.5	30.0	0.3	7670	10960						
2037-60	Booker 2 x 1 Sq	T	F&MP	29.6	7.2	33.4	29.8	0.4	7750	11010						
2039-60	Stoker 2 x 1/2	T	F&MP	30.2	7.0	30.1	32.7	0.4	7690	11020						
2143-60	Prep. St 1 x 2	D	D. N. D.	17.4	8.2	34.6	39.8	0.8	9440	11420						
2012-60	" 1 x 1/2	D	D. N. D.	32.1	7.5	28.9	31.5	0.5	7640	11250						
2038-60	Pea 1 x 1/2 Sq	T	F&MP	29.0	8.9	33.4	28.7	0.4	7520	10590						
2752-60	Prep. St 1 x 1/2	D	D. N. D.	32.0	7.1	27.8	33.1	0.4	7680	11300	1890		2140	2210		

PROVINCE Saskatchewan

AREA Souris Valley (Bienfait) OPERATOR Western Dominion Coal Mines Ltd.

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2755-60	Prep. St 1 x 1/2	D	D. N. D.	32.5	6.4	28.3	32.8	0.4	7610	11290	1850		2120	2150		
2756-60	Prep. St 1 x 1/2	D	D. N. D.	27.5	7.2	30.9	34.4	0.4	8170	11270	1940		2280	2300	58	
2788-60	Prep. St 1 x 1/2	D	D. N. D.	33.8	7.3	28.1	30.8	0.4	-	-	1880		2130	2220		
2789-60	Prep. St 1 x 1/2	D	D. N. D.	34.0	7.3	26.1	32.6	0.4	7620	11540	1900		2100	2290		
2857-60	Prep. St 1 x 1/2	D	D. N. D.	34.9	7.2	27.7	30.2	0.4	7370	11320	1840		2100	2280		
2870-60	Prep. St 1 x 1/2	D	D. N. D.	37.1	6.5	25.7	30.7	0.5	7260	11540						
2914-60	Prep. St 1 x 1/2	D	D. N. D.	35.5	6.3	26.8	31.4	0.4	7280	11280						
2925-60	Prep. St 1 x 1/2	D	D. N. D.	32.0	8.4	28.1	31.5	0.9	7640	11230						
2935-60	Prep. St 1 x 1/2	D	D. N. D.	34.9	8.0	25.2	31.9	0.9	7300	11210						
2956-60	Prep. St 1 x 1/2	D	D. N. D.	36.2	6.6	25.7	31.5	0.4	7060	11070						
2957-60	Prep. St 1 x 1/2	D	D. N. D.	37.2	6.4	25.6	30.8	0.5	7060	11240						
2986-60	Prep. St 1 x 1/2	D	D. N. D.	33.1	7.2	28.4	31.3	0.7	7550	11280						
2990-60	Prep. St 1 x 1/2	D	D. N. D.	31.5	7.2	31.5	29.8	0.6	7850	11470						
3025-60	Prep. St 1 x 1/2	D	D. N. D.	30.8	6.7	28.4	34.1	0.4	7760	11210						
2048-60	Prep. St 1 x 1/2	D	D. N. D.	36.3	7.2	25.2	31.3	0.4	7050	11060						
3069-60	Prep. St 1 x 1/2	D	D. N. D.	37.0	7.7	25.4	29.9	0.4	6920	10980						
2911-60	1 1/4 x 0 N/S	D	Justice	31.7	7.2	27.3	33.8	0.4	7580	11110						
2484-60	" "	D	Justice	34.8	6.6	32.4	26.2	0.4	7320	11230	2040		2160	2220		
2491-60	" "	T	F&MP	27.8	7.0	30.0	35.2	0.4	8010	11100						
2753-60	" "	D	Justice	29.2	7.4	31.0	32.4	0.4	7930	11210						
2040-60	1/2 x 0 Bug Dust	T	F&MP	28.8	9.4	29.5	32.3	0.4	7530	10570						

AREA Roche Percée OPERATOR Old Mac Coal Ltd.

2273-60	1 1/2 x 1/4 Prep. St	D	Justice	37.1	6.0	26.2	30.7	0.5	7130	11330						
2194-60	1 x 1/2 Prep. St	D	Justice	35.0	7.1	26.7	31.2	0.5	7330	11270						
2206-60	1 x 1/2 Prep. St	D	Justice	35.2	7.0	26.5	31.3	0.6	7340	11340						
2001-60	1 1/4 x 0 N/S	D	Justice	34.9	6.9	27.2	31.0	0.6	7550	11600						
2102-60	" "	D	Justice	27.9	7.1	30.9	34.1	0.5	8130	11270						
2129-60	" "	D	Justice	31.4	8.0	28.2	32.4	0.5	7810	11380						
2317-60	1/2 x 0 Bug Dust	D	Justice	36.1	7.3	26.3	30.3	0.5	7360	11520						
2318-60	1/2 x 0 Bug Dust	D	Justice	35.1	7.0	26.8	31.1	0.4	7340	11310						
3017-60	1/2 x 0 Bug Dust	D	Justice	33.6	7.2	34.3	24.9	0.9	7510	11320						

PROVINCE Alberta

AREA Cascade OPERATOR Canmore Mines Ltd.

2443-60	1 1/4 x 1/8 Prep. St	T	F&MP	1.0	12.6	12.1	74.3	0.8	12910	13030	2750	+	+	+	95	
2488-60	Stoker	D	NH&W	3.3	11.9	13.9	70.9	0.7	13100	13540	2400		2750+	+		
2489-60	"	D	NH&W	3.2	13.4	14.1	69.3	0.7	12860	13280	2560		2750+	+		

PROVINCE Alberta

AREA Cascade — OPERATOR Canmore Mines Ltd.

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received: Moisture %	As Received: Ash %	As Received: Volatile Matter %	As Received: Fixed Carbon %	As Received: Sulphur %	As Received: Calorific Value Btu/lb Gross	Dry: Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F: Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2492-60	Stoker	D	NH&W	1.4	7.5	13.[illegible]	77.5	0.7	14220	14420	2360		2750+	+		
2493-60	"	D	NH&W	1.4	7.7	13.1	77.8	0.7	14120	14320	2470		2750+	+		
2509-60	"	D	NH&W	1.5	7.6	12.1	78.8	0.6	14070	14290						
2510-60	"	D	NH&W	1.5	9.0	12.6	76.9	0.7	14030	14240	2400		2750+	+		
2531-60	"	D	NH&W	2.2	8.4	14.0	75.4	0.7	13820	14130	2540		2750+	+		
2532-60	"	D	NH&W	2.0	8.2	13.3	76.5	0.7	13930	14210	2680		2750+	+		
2537-60	"	D	NH&W	0.9	13.9	12.4	72.8	0.[illegible]	13470	13590	2560		2750+	+		
2538-60	"	D	NH&W	0.9	9.6	12.6	76.9	0.7	13990	14120	2520		2750+	+		
2031-60	5/16 x 9/16 Buck	D	D.N.D.	3.5	7.0	14.3	75.2	0.7	13840	14330						
2444-60	1 1/4 x 0 N/S	T	F&MP	0.8	7.5	13.4	78.3	0.9	14240	14350	2750+		+	+	106	
2528-60	Mine Run	T	F&MP	0.8	11.3	18.9	69.0	0.9	13690	13790	2460		2750+	+		7
2987-60	Briquettes	D	D.N.D.	5.4	7.4	16.7	70.5	0.9	13750	14530						

AREA Crowsnest (Blairmore) — OPERATOR West Canadian Collieries Ltd.

2524-60	Fines	T	F&MP	0.7	7.6	26.1	65.6	0.4	14360	14460	2640	2750+	+	+		8 - 8 1/2

AREA Crowsnest — OPERATOR Coleman Collieries Ltd.

2142-60	2 x 1 1/4 Prep. St + 20% Ind Br.	D	NH&W	3.0	12.7	24.9	59.4	1.0	12970	13370						
2072-60	2 x 1/4 + 20% Ind Br.	D	NH&W	1.6	12.7	25.8	59.9	1.3	13140	13340						
2073-60	"	D	NH&W	1.7	11.5	26.0	60.8	1.4	13280	13520						

AREA Ardley — OPERATOR Allyn Mann Construction Co.

2728-60		GH	F&MP	18.6	7.4	29.4	44.6	0.2	9470	11640	2110	2200	2290	2370		

AREA Brooks — OPERATOR Kleenbirn Collieries Ltd., Mine 1404

2976-60	+2 Lump	T	F&MP	16.1	9.5	32.3	42.1	0.6	9860	11750	2100		2400	2570		
2977-60	2 Sq Egg	T	F&MP	17.3	9.6	31.8	41.3	0.6	9650	11670	2350		2470	2520		
2978-60	2 x 1 1/4 Sq Nut	T	F&MP	17.3	11.4	30.8	40.5	0.5	9380	11350	2160		2440	2550	34	
2979-60	1 1/4 Slot x 1/2 Sq St.	T	F&MP	17.6	12.3	30.9	39.2	0.7	9160	11110	2350		2430	2600	34	
2980-60	- 1/2 Sq Slack	T	F&MP	20.1	13.7	29.2	37.0	0.7	8620	10800	2170	2340	2400	2490	38	

AREA Camrose — OPERATOR Camrose Collieries Ltd. (Birnwell)

2904-60	Lump + 4 Rd	T	F&MP	27.8	3.8	32.2	36.2	0.3	8770	12150	2100	2160	2190	2210		
2905-60	Egg 4 Rd x 2 Sq	T	F&MP	26.6	5.6	30.0	37.8	0.3	8670	11810	2100	2260	2330	2440		
2906-60	Nut 2 x 1 3/8 Sq	T	F&MP	26.2	6.3	29.2	38.3	0.3	8600	11660	2150	2220	2290	2450	33	
2907-60	Stoker 1 3/8 x 1/4 Sq	T	F&MP	25.0	7.4	28.8	38.8	0.4	8540	11390	2210	2300	2440	2510	31	
2908-60	Slack - 3/4	T	F&MP	27.2	13.6	25.8	33.4	0.5	7420	10200	2150	2390	2420	2490	44	

PROVINCE Alberta

AREA Castor — OPERATOR Battle River Coal Co., Ltd. (Vesta)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	As Received Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2077-60	Prep. St 2 x 1	D	D. N. D.	24.1	7.8	30.3	37.8	0.3	8640	11380						
2085-60	2 x 1 Prep. St	D	D. N. D.	24.6	6.7	28.8	39.8	0.3	8630	11450						
2123-60	" "	D	D. N. D.	24.1	7.9	30.3	37.7	0.4	8670	11430						
2124-60	" "	D	D. N. D.	24.4	8.5	29.4	37.7	0.4	8500	11240						

OPERATOR Forrestburg Collieries Ltd., Mine 1578, Diplomat

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Btu/lb Gross	Btu/lb Gross	Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2115-60	Lump + 4 Rd	T	F&MP	25.5	5.2	31.2	38.1	0.4	8860	11890	1900		2090	2160		
2776-60	" "	T	F&MP	25.2	5.5	28.5	40.8	0.5	8970	12000	1850		2050	2120		
2116-60	Stove 4 x 2 Rd	T	F&MP	25.4	6.0	30.6	38.0	0.4	8820	11810	1870		2100	2210		
2777-60	" "	T	F&MP	27.3	5.3	28.6	38.8	0.5	8620	11870	1890		2000	2090		
2117-60	Nut 2 x 1 Rd	T	F&MP	25.7	5.9	30.4	38.0	0.4	8790	11820	1860		2100	2180	32	
2778-60	" "	T	F&MP	22.6	6.9	31.0	39.5	0.6	9050	11690	1900		1950	2000	31	
2030-60	Stoker 2 x 1	D	D. N. D.	22.7	8.9	28.7	39.7	0.4	8770	11340						
2076-60	" "	D	D. N. D.	26.0	6.8	29.1	38.1	0.4	8530	11530						
2084-60	" "	D	D. N. D.	26.9	6.7	29.7	36.7	0.4	8500	11620						
2104-60	" "	D	D. N. D.	23.4	9.8	30.5	36.3	0.3	8440	11020						
2121-60	" "	D	D. N. D.	21.4	9.1	31.1	38.4	0.4	8910	11340						
2122-60	" "	D	D. N. D.	24.7	7.8	29.5	38.0	0.4	8700	11560						
2125-60	" "	D	D. N. D.	23.8	8.3	30.2	37.7	0.4	8590	11260						
2164-60	" "	D	D. N. D.	25.5	6.9	28.4	39.2	0.4	8600	11550						
2174-60	" "	D	D. N. D.	22.9	7.5	28.6	41.0	0.4	9030	11720						
2342-60	" "	D	D. N. D.	21.7	6.8	31.4	40.1	0.5	9210	11760						
2396-60	" "	D	D. N. D.	25.3	5.6	31.0	38.1	0.4	8950	11980						
2118-60	Stoker 1 x 3/8	T	F&MP	25.6	6.2	30.6	37.6	0.4	8790	11820	1890		2040	2120	30	
2779-60	" "	T	F&MP	25.2	6.3	31.2	37.3	0.5	8930	11930	1880		1950	2020	32	
2119-60	Slack - 3/8	T	F&MP	25.3	7.0	30.2	37.5	0.4	8770	11740	1920		2080	2140	34	
2780-60	" "	T	F&MP	23.4	8.0	29.1	39.5	0.5	8720	11390	1890		1910	2030	33	

AREA Drumheller — OPERATOR Red Deer Valley Co., Ltd., Mine 402

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Btu/lb Gross	Btu/lb Gross	Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2966-60	Lump + 4 1/2 Rd	T	F&MP	19.2	5.9	31.1	43.8	0.3	9910	12260	2100	2300	2380	2450		
2967-60	Egg 4 1/2 x 2 Rd	T	F&MP	17.6	5.5	32.9	44.0	0.3	10160	12330	2030	2170	2250	2320		
2968-60	Nut 2 Rd x 1 1/4 Sq	T	F&MP	19.0	12.1	29.9	39.0	0.3	9130	11270	2150	2280	2300	2500	39	
2969-60	Stoker 1 1/4 x 1/2 Sq	T	F&MP	17.7	9.2	32.0	41.1	0.3	9540	11590	2150	2270	2330	2460	40	
2970-60	Slack - 1/2 Sq.	T	F&MP	18.4	12.8	28.8	40.0	0.3	8940	10960	2230	2300	2380	2420	41	

OPERATOR Federated Co-Operatives Ltd., Mine 1421

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Btu/lb Gross	Btu/lb Gross	Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2971-60	Lump + 2 Sq	T	F&MP	18.9	5.0	31.3	44.8	0.4	9960	12280	2000	2140	2220	2290	36	
2972-60	Egg 4 Sq x 2 Slot	T	F&MP	25.8	5.2	28.9	40.1	0.4	9030	12170	2040	2110	2220	2300		
2973-60	Nut 2 x 1 1/4 Slot	T	F&MP	18.8	10.2	29.5	41.5	0.5	9290	11440	2270	2390	2450	2510	36	
2974-60	Stoker 1 1/4 Slot x 3/4 Sq	T	F&MP	18.6	10.9	28.9	41.5	0.5	8920	10960	2330	2410	2480	2560	40	
2975-60	Slack - 3/4 Sq	T	F&MP	18.3	11.6	30.0	40.1	0.5	9080	11110	2250	2370	2440	2520	38	

PROVINCE Alberta

AREA Drumheller — OPERATOR Century Coals Ltd., Mine 1742

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	As Received Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
3042-60	Lump + 4 1/2 Rd	T	F&MP	18.5	6.6	31.5	43.4	0.7	9720	11930	2000	2150	2270	2390		
3043-60	Egg 4 1/2 x 2 Rd	T	F&MP	17.1	9.9	30.3	42.7	0.6	9400	11330	2140	2350	2420	2500		
3044-60	Nut 2 x 1 1/4 Rd	T	F&MP	17.1	11.1	31.4	40.4	0.8	9280	11180	2170	2320	2350	2420	35	
3045-60	Stoker 1 1/4 x 5/8 Rd	T	F&MP	19.0	11.1	29.8	40.1	0.6	8990	11100	2350	2440	2510	2590	34	
3046-60	Slack - 5/8 Rd	T	F&MP	16.8	10.9	31.1	41.2	0.7	9290	11160	2380	2470	2520	2580	33	

OPERATOR Amalgamated Coals Ltd., Mine 1573

2883-60	Lump + 4 Rd	T	F&MP	17.5	7.4	32.1	43.0	0.5	9700	11750	1870		2210	2390		
2884-60	Egg 4 x 2 Rd	T	F&MP	16.2	8.9	32.3	42.6	0.5	9730	11620	1840	2140	2180	2420		
2885-60	Nut 2 Rd x 1 1/8 Sq	T	F&MP	16.4	10.7	31.6	41.3	0.5	9360	11210	2300		2420	2560	35	
2886-60	Stoker 1 1/8 x 3/4 Sq	T	F&MP	14.9	11.4	31.4	42.3	0.5	9480	11150	2250		2300	2390	34	
2887-60	Slack - 3/4 Sq	T	F&MP	18.0	10.0	30.3	41.7	0.5	9220	11250	2220		2310	2440	35	

AREA Edmonton — OPERATOR Black Gem Coal Co., Ltd., Mine 1266

2775-60	Channel 3 S	CH	F&MP	29.0	7.7	26.8	36.5	0.4	8050	11340	2450		2580	2670	36	
2882-60	Channel 7 W	CH	F&MP	23.6	7.1	31.0	38.3	0.3	8780	11500	2370		2440	2530	34	

OPERATOR Egg Lake Coal Co., Ltd., Mine 1582

2899-60	Lump + 4 Sq	T	F&MP	26.3	6.0	29.1	38.6	0.2	8610	11690	2250	2300	2380	2430		
2900-60	Stove 4 x 2 Sq	T	F&MP	25.8	6.3	30.5	37.4	0.2	8510	11470	2200	2270	2350	2410		
2901-60	Nut 2 x 1 1/2 Sq	T	F&MP	27.9	7.1	29.9	35.1	0.2	8260	11460	2300	2420	2500	2580	37	
2902-60	Stoker 1 1/2 x 2 Sq	T	F&MP	27.6	7.9	28.6	35.9	0.3	8120	11220	2260	2400	2460	2580	39	
2903-60	Slack - 1/2 Sq	T	F&MP	30.6	9.6	26.5	33.2	0.3	7440	10720	2280	2390	2410	2520	47	

OPERATOR Star-Key Mines Ltd., Mine 1626

2770-60	Lump + 4 Rd	T	F&MP	21.7	7.7	29.4	41.2	0.3	9130	11660	1910	2100	2240	2460		
2771-60	Stove 4 Rd x 1 3/4 Sq	T	F&MP	23.9	7.5	28.9	39.7	0.2	8640	11350	1980	2150	2320	2440		
2772-60	Nut 1 3/4 x 1 1/4 Sq	T	F&MP	23.4	7.7	29.0	39.9	0.2	8690	11350	1980	2130	2340	2400	32	
2773-60	Stoker 1 1/4 x 7/16 Sq	T	F&MP	25.7	9.3	27.5	37.5	0.2	8230	11080	2150	2300	2380	2420	32	
2774-60	Slack - 7/16 Sq	T	F&MP	23.1	16.8	25.2	34.9	0.4	7590	9880	2300	2400	2450	2520	46	

OPERATOR Whitemud Creek Coal Co., Mine 1727

2893-60	Lump + 4 Rd	T	F&MP	23.5	6.6	28.6	41.3	0.2	9030	11790	1960		2200	2350		
2894-60	Stove 4 x 2 Rd	T	F&MP	20.7	8.6	30.5	40.2	0.2	9060	11420	2060		2250	2390		
2895-60	" 4 x 2 Rd	Stock	F&MP	23.0	6.8	30.2	40.0	0.2	9060	11760	1990	2200	2350	2410		
2896-60	Nut 2 Rd x 1 Sq	T	F&MP	24.7	7.6	28.4	39.3	0.2	8780	11650	2100	2240	2340	2410	35	
2897-60	Stoker 1 x 1/2 Sq	T	F&MP	24.4	8.6	28.0	39.0	0.2	8600	11380	2110	2250	2320	2430	37	
2898-60	Slack - 1/2 Sq	T	F&MP	27.8	8.6	27.1	36.5	0.2	8170	11320	2140	2300	2360	2440	45	

PROVINCE Alberta

AREA Pembina — OPERATOR Alberta Coal Ltd., Mine 419

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received: Moisture %	As Received: Ash %	As Received: Volatile Matter %	As Received: Fixed Carbon %	As Received: Sulphur %	As Received: Calorific Value Btu/lb Gross	Dry: Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F: Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
2165-60	Prep. St 1 x 2	D	D. N. D.	21.6	10.0	28.6	39.8	0.3	8700	11100						
2347-60	" 1 x 2	D	D. N. D.	22.0	11.0	30.1	36.9	0.4	8520	10920						
2397-60	" 1 x 2	D	D. N. D.	21.6	9.7	30.1	38.6	0.2	8830	11260						

AREA Sheerness — OPERATOR Western Dominion Coal Mines Ltd., Mine 443

2888-60	Lump + 4 1/2	T	F&MP	28.3	5.4	29.6	36.7	0.4	8260	11510	1980		2140	2250		
2889-60	Egg 4 1/2 x 2 Rd	T	F&MP	26.5	5.7	29.6	38.2	0.4	8430	11480	1950		2160	2240		
2890-60	Nut 2 x 1 1/4 Rd	T	F&MP	26.0	5.8	29.7	38.5	0.4	8500	11480	1960		2120	2190	31	
2891-60	Stoker 1 1/4 Rd x 1/2 Sq	T	F&MP	26.4	5.8	30.4	37.4	0.4	8430	11460	2080		2140	2270	31	
2992-60	Slack - 1/2 Sq	T	F&MP	26.1	7.1	29.7	37.1	0.5	8300	11240	2010		2100	2160	32	

AREA Taber — OPERATOR Alberta Coal Sales Ltd., Mine 1604

3006-60	Lump + 4 1/2 Rd	T	F&MP	12.5	10.5	32.3	44.7	0.9	10290	11760	2250	2350	2420	2580		
3007-60	Egg 4 1/2 Rd x 2 Sq	T	F&MP	13.7	9.5	32.4	44.4	1.0	10190	11820	2080	2370	2460	2600		
3008-60	Nut 2 x 1 1/4 Sq	T	F&MP	15.9	9.8	31.8	42.5	0.8	9900	11770	2150	2310	2400	2520	48	
3009-60	Stoker 1 1/4 x 1/2 Sq	T	F&MP	14.7	10.1	32.4	42.8	1.1	10010	11730					45	
3010-60	Slack - 1/2 Sq	T	F&MP	15.4	12.7	31.1	40.8	1.3	9460	11180	2120	2220	2310	2370	54	

PROVINCE British Columbia

AREA East Kootenay — OPERATOR Crow's Nest Pass Co., Ltd., Michel and Baldy Stri Mines

2146-60	Lump + 7	T	F&MP	0.3	9.7	23.9	66.1	0.4	14000	14050	2200		2290	2390		8 1/2
2147-60	Cobble 7 x 1 5/8	T	F&MP	0.4	9.5	23.8	66.3	0.4	13920	13970	2160		2300	2360		8 1/2
2148-60	Stoker 1 5/8 x 3/8	T	F&MP	0.4	9.3	23.3	67.0	0.4	14150	14200	2250		2320	2400		7 1/2
2149-60	" 3/8 x 1/4	T	F&MP	0.4	7.0	24.1	68.5	0.4	14480	14530	2600		2750+	+		9
2150-60	Fines - 1/4	T	F&MP	0.3	7.8	23.5	68.4	0.4	14430	14480	2540		2750+	+		9+
2927-60	" "	T	F&MP	1.5	14.4	18.5	65.6	0.2	12650	12850					114	
2254-60	" "	T	F&MP	0.6	7.7	24.6	67.1	0.5	14180	14270	2300		2480	2600		9+
2854-60	" "	T	F&MP	1.0	12.6	24.5	61.9	0.5	13170	13310						
2855-60	" "	T	F&MP	0.9	10.3	25.0	63.8	0.4	13740	13860						
2856-60	" "	T	F&MP	0.8	11.3	23.9	64.0	0.4	13600	13710						

AREA Vancouver Island (T'Sable River) — OPERATOR Canadian Collieries Resources Ltd.

2271-60	1 1/4 x 1/4 Prep. St	D	D. N. D.	1.1	13.2	33.4	52.3	1.3	13030	13170						
2086-60	1 x 1/4 Prep. St	D	D. N. D.	1.5	15.6	31.8	51.1	1.3	12710	12900						
2169-60	1 x 1/4 Prep. St	D	D. N. D.	0.9	11.9	33.0	54.2	1.5	13390	13510						
3051-60	1 x 1/4 Prep. St	D	D. N. D.	0.9	10.3	34.1	54.7	1.1	13530	13650						

II. IMPORTED COALS

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received: Moisture %	As Received: Ash %	As Received: Volatile Matter %	As Received: Fixed Carbon %	As Received: Sulphur %	As Received: Calorific Value Btu/lb Gross	Dry: Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F: Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
Kentucky Bituminous																
Wisconsin, Kenmont, Ky.																
2988-60	1 1/4 x 0 N/S	D	D. V. A.	6.3	10.1	34.3	49.3	1.6	12360	13190	2120	2480	2550	2640		
Hazel, Elkhorn #2 Seam, Ky.																
2918-60	Slack	D	Comm.	4.3	12.3	33.0	50.4	0.8	12260	12800						
Bishop, Manchester Co., Ky.																
2025-60	2 x 0 N/S	D	D. V. A.	8.3	7.9	33.4	50.4	0.8	12320	13430						
2227-60	" "	D	D. V. A.	7.5	7.2	34.0	51.4	0.8	12790	13820						
Ohio Bituminous																
Sunnyhill, #4 Dist., Ohio																
2222-60	1 x 1/8 Prep. St	D	D. N. D.	7.6	8.8	38.4	45.2	3.3	12120	13110						
2383-60	1 x 1/8 Prep. St	D	D. N. D.	5.8	8.0	39.6	46.6	2.6	12650	13430	2000		2300	2400		
2419-60	1 x 1/8 Prep. St	D	D. N. D.	8.8	6.6	40.7	43.9	2.9	12250	13440						
Pennsylvania Bituminous																
Weaburn, Falls Creek, Pa.																
2916-60	1 1/4 x 0 N/S	D	D. N. D.	3.5	15.4	29.3	51.8	2.5	11740	12160	1990	2300	2380	2440		
2994-60	" "	D	D. N. D.	5.7	16.2	29.1	49.0	2.2	11530	12230	2100	2400	2460	2520		
Norton, Pittsburgh #8, Pa.																
2610-60	1 1/4 x 1/4 Prep. St	D	D. N. D.	2.3	8.3	43.2	46.2	4.0	13320	13640	1870	1950	2180	2340		
Georgetown, Pittsburgh, Pa.																
2737-60	2 x 1/8 Prep. St	D	D. N. D.	5.2	7.3	39.9	47.6	3.0	12750	13450	1880	2020	2110	2380		
2839-60	2 x 1/8 Prep. St	D	D. N. D.	3.3	7.4	40.4	48.9	3.1	13120	13560	1850	2040	2220	2310		
2943-60	2 x 1/8 Prep. St	D	D. N. D.	3.9	7.9	40.8	47.3	3.4	12980	13500						
Kenmore, Pa.																
2144-60	1 1/4 x 0 N/S	D	D. V. A.	6.3	8.0	31.0	54.8	1.2	13000	13860						
2370-60	"	D	D. V. A.	3.8	9.4	32.2	54.6	1.4	13270	13790	2270		2440	2650		
2577-60	"	D	D. V. A.	2.4	8.5	35.5	53.6	0.9	13510	13830	2640	2750+	+	+		
Hawthorne, Clarion Co., Pa.																
2462-60	1 1/4 x 0 N/S	D	D. N. D.	3.0	9.8	31.6	55.6	1.8	13130	13540	2580	2640	2690	2750		
Cadogan, Armstrong Co., Pa.																
2920-60	Pea	D	D. P. W.	1.1	7.8	39.1	52.0	2.6	14010	14170	2150	2420	2450	2690		
Dell #3 Mine, West Pa.																
2596-60	2 x 1/8 Prep. St	D	D. N. D.	3.6	9.1	37.0	50.3	2.6	13100	13580	1950	2100	2160	2240		

Pennsylvania Bituminous

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	As Received Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature, °F Initial	Ash Fusion Temperature, °F Spherical	Ash Fusion Temperature, °F Hemi-spherical	Ash Fusion Temperature, °F Fluid	Grindability Index Hardgrove	Free Swelling Index
Dell #3 Mine, West Pa.																
2744-60	2 x 1/8 Prep. St	D	D. N. D.	2.9	8.0	37.2	51.9	2.5	13420	13820	1870	2040	2140	2390		
2874-60	2 x 1/8 Prep. St	D	D. N. D.	4.9	9.3	36.8	49.0	2.2	12790	13450	2010	2340	2400	2480		
2964-60	2 x 1/8 Prep. St	D	D. N. D.	2.9	8.2	37.3	51.6	2.0	13570	13970						
3040-60	2 x 1/8 Prep. St	D	D. N. D.	5.8	5.9	37.1	51.2	2.7	13390	14220						
Unesco, Reynoldsville, Pa.																
2556-60	2 x 1/8 Prep. St	D	D. N. D.	3.3	12.1	31.1	53.5	2.0	12840	13280	2120	2320	2450	2600		
2557-60	2 x 1/8 Prep. St	D	D. N. D.	2.1	11.5	34.6	51.8	2.5	13150	13440	2040	2260	2380	2500		
2558-60	2 x 1/8 Prep. St	D	D. N. D.	2.9	11.6	33.2	52.3	2.2	12770	13160	2020	2400	2510	2640		
2559-60	2 x 1/8 Prep. St	D	D. N. D.	2.4	9.1	34.1	54.4	3.4	13510	13840	1890	1920	2110	2420		
2560-60	2 x 1/8 Prep. St	D	D. N. D.	2.2	8.6	34.8	54.4	2.4	13630	13940	2000	2060	2160	2360		
2599-60	2 x 1/8 Prep. St	D	D. N. D.	5.8	10.1	30.7	53.4	1.3	12670	13450	2200	2400	2530	2610		
2600-60	2 x 1/8 Prep. St	D	D. N. D.	6.2	10.3	31.9	51.6	1.3	12600	13440	2140	2450	2560	2630		
2601-60	2 x 1/8 Prep. St	D	D. N. D.	7.5	9.7	32.9	50.4	1.9	12610	13620	2010	2200	2400	2540		
2602-60	2 x 1/8 Prep. St	D	D. N. D.	5.2	10.9	32.9	50.1	1.8	12660	13360	2120	2350	2480	2590		
2603-60	2 x 1/8 Prep. St	D	D. N. D.	4.8	11.1	32.2	51.9	2.1	12700	13340	2040	2410	2490	2600		
2604-60	2 x 1/8 Prep. St	D	D. N. D.	5.6	10.2	32.8	51.4	1.6	12780	13530	2090	2400	2460	2670		
2605-60	2 x 1/8 Prep. St	D	D. N. D.	7.1	10.3	30.5	52.1	1.4	12500	13450	2270	2400	2500	2630		
2720-60	2 x 1/8 Prep. St	D	D. N. D.	3.3	9.9	34.2	52.6	2.0	13230	13680	1890	2140	2280	2410		
2721-60	2 x 1/8 Prep. St	D	D. N. D.	6.4	11.1	32.4	50.1	2.1	12270	13100	1980	2220	2270	2310		
2722-60	2 x 1/8 Prep. St	D	D. N. D.	7.4	9.7	31.1	51.7	1.7	12350	13360	2100	2250	2470	2520		
Allison, Penn.																
2574-60	Prep. St 2 x 1/4	D	D. N. D.	3.5	13.0	34.3	49.2	2.5	12470	12930	2040	2280	2390	2500		
2633-60	Prep. St 2 x 1/4	D	D. N. D.	3.5	10.7	35.2	50.6	2.7	12880	13350	2000	2220	2370	2520		
2634-60	Prep. St 2 x 1/4	D	D. N. D.	3.0	8.9	39.0	49.1	2.4	13260	13670	2050	2200	2280	2500		
2934-60	Prep. St 2 x 1/4	D	D. N. D.	5.8	12.3	29.8	52.1	2.6	12390	13160	2030	2450	2510	2570		
3074-60	Prep. St 2 x 1/4	D	D. N. D.	3.9	8.5	36.0	51.6	1.7	13160	13700						
2591-60	Prep. St 2 x 1/8	D	D. N. D.	4.3	8.8	36.8	50.1	2.2	12800	13370	2000	2300	2360	2420		
2745-60	Prep. St 2 x 1/8	D	D. N. D.	5.1	11.8	35.3	47.8	2.4	11690	12320	1860	2170	2240	2310		
2871-60	Prep. St 2 x 1/8	D	D. N. D.	4.3	10.5	36.9	48.3	2.8	12450	13010	1980	2310	2370	2420		
2921-60	Prep. St 2 x 1/8	D	D. N. D.	4.4	11.3	35.3	49.0	2.5	11960	12510						

Sample Number	Size Designation Inches	Kind of Sample	Sampled By	As Received Moisture %	As Received Ash %	As Received Volatile Matter %	As Received Fixed Carbon %	As Received Sulphur %	Calorific Value Btu/lb Gross	Dry Calorific Value Btu/lb Gross	Ash Fusion Temperature °F Initial	Spherical	Hemi-spherical	Fluid	Grindability Index Hardgrove	Free Swelling Index
Pennsylvania Bituminous																
2953-60	Prep. St 2 x 1/8	D	D. N. D.	4.4	9.0	38.8	47.8	2.7	13020	13620				–		
2954-60	Prep. St 2 x 1/8	D	D. N. D.	5.3	10.6	37.4	46.7	2.6	12590	13300						
3033-60	Prep. St 2 x 1/8	D	D. N. D.	4.3	12.3	34.8	48.6	3.2	12140	12370						
3034-60	Prep. St 2 x 1/8	D	D. N. D.	2.9	12.3	35.5	49.3	3.4	12640	12820						
3047-60	Prep. St 2 x 1/8	D	D. N. D.	3.9	6.2	40.9	49.0	1.6	13750	14300						
3066-60	Prep. St 2 x 1/8	D	D. N. D.	4.6	10.8	34.1	50.5	3.7	12290	12880						
2860-60	Prep. St 2 x 1 1/2	D	Justice	4.5	9.7	36.1	49.7	2.4	12950	13560						
3063-60	Prep. St 1 1/4 x 1/4	D	D. N. D.	2.0	14.0	37.0	47.0	2.3	12660	12920						
2915-60	N/S 1 1/4 x 0	D	D. N. D.	3.7	14.4	33.2	48.7	2.5	12000	12470	2000	2270	2350	2450		
2993-60	N/S 1 1/4 x 0	D	D. N. D.	3.6	10.8	35.2	50.4	2.5	12670	13150	2050	2230	2350	2440		
Pennsylvania Anthracite																
"White Ash"																
2003-60	"Stoker"	D	F&MP	3.3	10.5	6.2	80.0	0.7	12730	13170	2750+	+	+	+		
2004-60	"	D	F&MP	3.5	11.9	6.4	78.2	0.7	12420	12860	2750+	+	+	+		
Glen Alden, Pennsylvania																
2366-60	1 3/4 x 3/16	D	D. N. D.	2.2	11.8	7.2	78.8	1.0	12750	13040						
2519-60	3/4 x 3/16	D	D. N. D.	3.2	14.8	6.5	75.5	0.8	12120	12510	2390	2560	2660			
D and H Anthracite, Aliphant, Pa.																
2534-60	3/16 x 5/16	D	F&MP	4.7	10.5	8.2	76.6	0.6	12530	13140	2750+	+	+	+		
Donaldson, Red Ash, St. Clair, Pa.																
2630-60	"Stoker"	D	Weaver	1.3	15.4	7.9	75.4	0.7	12480	12640	2360	2510	2590	2750+		
Chestnut Hill, Tremont, Pa.																
3064-60	2 7/16 x 1 5/8 Stove	D	D. N. D.	4.4	6.7	4.8	84.1	0.6	13250	13860						
West Virginia - Bituminous																
Compass Mine, West Va.																
2367-60	2 x 1/2 Prep. St	D	Justice	0.6	8.6	40.9	49.9	3.2	13870	13960	2370	-	2560	2610		
2662-60	2 x 1/2 Prep. St	D	Justice	1.2	7.4	43.3	48.1	3.5	13980	14150	2020	2100	2270	2440		
2663-60	2 x 1/2 Prep. St	D	Justice	1.3	7.5	44.3	46.9	3.8	13940	14120	1960	2080	2210	2400		
Federal, Grant Town, West Va.																
2620-60	1 1/4 x 3/4 Prep. St.	D	C. I. B.	1.7	8.7	39.6	50.0	2.8	13780	14020	2340	2750+	+	+		
Keystone, West Va.																
2611-60	1 x 1/8 Prep. St.	D	D. N. D.	0.9	7.0	18.2	73.9	0.7	14410	14540	2200	2400	2480	2560		
2937-60	1 x 1/8 Prep. St.	D	D. N. D.	2.4	7.3	17.0	73.3	0.7	14300	14660	2200	2450	2500	2620		

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