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- I. Canadian Coals
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Mines Branch Information Circular IC 224

ANALYSES OF COAL AND COKE DURING 1968

by

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

INTRODUCTION

The Solid Fuels Laboratory of the Fuels Research Centre is responsible for all analytical work on coal and coke encompassed by this publication. This information circular, issued as the eighth of an annual series, tabulates the analyses of coal samples analysed by the Centre during 1968.

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

DND	Department of National Defence
DVA	Department of Veterans Affairs
DPW	Department of Public Works
FRC	Fuels Research Centre
Justice	Department of Justice
D	Delivered
N/S	Nut Slack
OS	Old Sydney
P/S	Prepared Stoker
Rd	Round Hole Screen
Sl	Slot
Sq	Square Hole Screen
T	Tipple
C/S	Coarse Slack

Direction des mines

Circulaire d'information IC 224

ANALYSES DE CHARBON ET DE COKE EN 1968

par

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

INTRODUCTION

Le laboratoire des combustibles solides, au Centre de recherches des combustibles, s'occupe de tous les travaux analytiques sur le charbon et le coke mentionnés par la présente publication. Cette circulaire d'information, la huitième d'une série qui doit paraître annuellement, traite des analyses d'échantillons de charbon analysés par le Centre au cours de 1968.

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

On indique les analyses quantitatives approximatives et les teneurs en soufre des échantillons "tels qu'ils nous sont parvenus" seulement, tandis qu'on mentionne les valeurs calorifiques des échantillons "tels qu'ils sont reçus" et aussi "à sec". Pour les fins de référence, les analyses sont classées par province et par état.

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GLOSSAIRE DES ABREVIATIONS

DND	Ministère de la Défense nationale
DVA	Ministère des Affaires des anciens combattants
DPW	Ministère des Travaux publics
FRC	Centre de recherches des combustibles
Justice	Ministère de la Justice
D	Livré
N/S	Mixtes noisettes-fines
OS	Old Sydney
P/S	Braisettes pour foyer mécanique
Rd	Crible à trous ronds
S1	Trou allongé, fente
Sq	Crible à trous carrés
T	Criblage
C/S	Fines à gros grains

I. CANADIAN COALS

PROVINCE OF NOVA SCOTIA
CAPE BRETON COAL FIELDS
BITUMINOUS COAL

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D						D r y		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									Btu/lb Gross	Btu/lb Gross			
AREA Sydney Coal Field				OPERATOR Dosco Industries Limited, Dominion Coal Co. Ltd. and Devco Corporation									
2321-68	Screen + 2	T	FRC	1.5	3.4	36.1	59.0	1.0	14650	14870		12	
2728-68	Screen + 2	T	FRC	1.8	3.4	38.4	56.4	1.3	14660	14930		12	
3177-68	Screen + 2	T	FRC	1.6	4.8	36.1	57.5	1.1	14520	14760		12	
2722-68	Egg + 1 3/4	T	FRC	1.0	8.5	38.8	51.7	3.7	13800	13930		08	
2732-68	Screen + 1 1/4	T	FRC	1.2	3.4	36.1	59.3	1.0	14680	14850		12	
3181-68	Screen + 1 1/4	T	FRC	1.7	4.1	38.0	56.2	2.0	14440	14690		26	
2723-68	Nut 1 3/4 x 3/4	T	FRC	2.0	3.8	38.7	55.5	2.0	14420	14700		08	
3046-68	P/S 1 1/4 x 1/4	D	DND	2.9	3.2	36.3	57.6	1.4	14400	14800	13		
3061-68	P/S 1 1/4 x 1/4	D	DND	4.1	5.6	34.5	55.8	1.8	13670	14260	18		
3198-68	P/S 1 1/4 x 1/4	D	DND	3.0	7.7	34.2	55.1	1.8	13580	14000	72		
2725-68	Pea 3/4 x 1/4	T	FRC	3.0	2.9	37.1	57.0	1.4	14330	14780		08	
2734-68	Pea 3/4 x 1/4	T	FRC	1.0	3.0	36.0	60.0	1.3	14730	14880		26	
3183-68	Pea 3/4 x 5/16	T	FRC	1.9	5.7	34.3	58.1	1.0	14230	14500		26	
2322-68	Special Lump 2 x 0	T	FRC	1.6	5.7	35.0	57.7	1.7	14210	14440		12	
3178-68	Special Slack 2 x 0	T	FRC	2.7	8.1	34.4	54.8	1.7	13640	14700		12	
2001-68	N/S 2 x 0	D	DND	1.9	6.5	35.8	55.8	2.0	14150	14430	928		
2002-68	N/S 2 x 0	D	DND	2.2	6.8	35.3	55.7	2.2	14070	14380	882		
2080-68	N/S 2 x 0	D	DND	0.8	7.9	36.3	55.0	1.9	14090	14200	1031		
2093-68	N/S 2 x 0	D	DND	3.1	6.1	34.5	56.3	1.8	13970	14410	482		
2110-68	N/S 2 x 0	D	DND	1.7	6.2	36.6	55.5	1.8	14170	14410	511		
2125-68	N/S 2 x 0	D	DND	2.7	6.7	36.0	54.6	1.8	14010	14390	237		
2127-68	N/S 2 x 0	D	DND	3.7	7.9	35.1	53.3	3.4	13350	13860	259		
2133-68	N/S 2 x 0	D	DND	3.0	8.1	35.3	53.6	1.9	13640	14050	1056		
2134-68	N/S 2 x 0	D	DND	2.6	6.2	36.1	55.1	1.7	14020	14400	999		
2135-68	N/S 2 x 0	D	DND	2.3	7.7	35.5	54.5	2.0	13830	14150	943		
2244-68	N/S 2 x 0	D	DND	4.1	6.7	35.5	53.7	1.8	13660	14240	72		
2248-68	N/S 2 x 0	D	DND	3.7	6.4	35.5	54.4	1.8	13770	14300	998		
2254-68	N/S 2 x 0	D	DND	2.2	7.1	35.7	55.0	2.1	13910	14220	270		
2255-68	N/S 2 x 0	D	DND	2.0	6.4	36.0	55.6	2.1	14130	14410	833		
2256-68	N/S 2 x 0	D	DND	0.5	7.5	36.1	55.9	1.7	14130	14210	633		
2257-68	N/S 2 x 0	D	DND	3.3	6.8	35.2	54.7	1.9	13780	14250	689		
2290-68	N/S 2 x 0	D	DND	7.1	5.4	33.8	53.7	1.4	13390	14420	774		
2291-68	N/S 2 x 0	D	DND	3.6	7.8	34.4	54.2	2.1	13520	14030	320		
2293-68	N/S 2 x 0	D	DND	2.0	6.1	35.5	56.4	1.8	14190	14480	718		
2294-68	N/S 2 x 0	D	DND	1.6	6.4	35.2	56.8	1.6	14060	14290	718		
2363-68	N/S 2 x 0	D	DND	2.8	6.2	35.3	55.7	2.0	14020	14420	442		

PROVINCE OF NOVA SCOTIA
CAPE BRETON COAL FIELDS
BITUMINOUS COAL (CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	AS RECEIVED					Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Btu/lb Gross	Btu/lb Gross		
AREA Sydney Coal Field				OPERATOR Dosco Industries Limited, Dominion Coal Co. Ltd. and Deveco Corporation								
2368-68	N/S 2 x 0	D	DND	3.4	5.7	35.9	55.0	1.8	13930	14420	645	
2370-68	N/S 2 x 0	D	DND	4.5	7.7	34.7	53.1	1.9	13520	14160	731	
2375-68	N/S 2 x 0	D	DND	1.4	7.0	35.0	56.6	2.2	14130	14330	610	
2389-68	N/S 2 x 0	D	DND	0.8	7.0	35.0	57.2	1.9	14180	14290	481	
2395-68	N/S 2 x 0	D	DND	0.6	7.5	35.4	56.5	2.0	14170	14260	766	
2397-68	N/S 2 x 0	D	DND	1.8	7.5	35.6	55.1	1.8	13890	14140	552	
2400-68	N/S 2 x 0	D	DND	2.5	7.2	35.4	54.9	1.8	13890	14250	900	
2496-68	N/S 2 x 0	D	DND	3.4	7.4	34.2	55.0	2.2	13700	14190	813	
2522-68	N/S 2 x 0	D	DND	6.1	5.4	34.1	54.4	2.0	13590	14480	330	
2523-68	N/S 2 x 0	D	DND	1.7	6.6	35.3	56.4	1.8	14140	14380	625	
2524-68	N/S 2 x 0	D	DND	3.5	6.4	34.5	55.6	2.0	13890	14400	840	
2525-68	N/S 2 x 0	D	DND	1.6	7.5	35.3	55.6	2.1	14000	14220	808	
2526-68	N/S 2 x 0	D	DND	1.4	6.1	35.6	56.9	1.9	14200	14390	75	
2527-68	N/S 2 x 0	D	DND	0.8	6.2	36.1	56.9	2.2	14430	14540	520	
2546-68	N/S 2 x 0	D	DND	0.6	5.5	37.0	56.9	1.7	14610	14690	848	
2547-68	N/S 2 x 0	D	DND	0.5	6.9	35.6	57.0	2.0	14230	14300	513	
2578-68	N/S 2 x 0	D	DND	5.0	6.2	34.7	54.1	1.9	13730	14450	302	
2579-68	N/S 2 x 0	D	DND	3.3	6.7	34.9	55.1	2.2	13930	14410	623	
2584-68	N/S 2 x 0	D	DND	2.9	5.5	36.5	55.1	1.5	14210	14640	766	
2594-68	N/S 2 x 0	D	DND	2.1	8.9	34.8	54.2	2.3	13690	13980	204	
2644-68	N/S 2 x 0	D	DND	1.9	6.3	37.3	54.5	2.0	14140	14410	62	
2646-68	N/S 2 x 0	D	DND	2.0	7.1	35.7	55.2	1.8	13950	14230	685	
2659-68	N/S 2 x 0	D	DND	1.1	6.0	35.5	57.4	1.9	14350	14510	608	
2660-68	N/S 2 x 0	D	DND	1.2	5.2	34.2	59.4	1.7	14500	14680	828	
2661-68	N/S 2 x 0	D	DND	3.9	6.9	34.5	54.7	1.9	13680	14240	249	
2662-68	N/S 2 x 0	D	DND	1.4	5.7	35.9	57.0	1.8	14320	14530	831	
2701-68	N/S 2 x 0	D	DND	2.3	6.7	32.1	58.9	1.6	13970	14310	849	
2729-68	N/S 2 x 0	T	FRC	1.8	5.4	36.9	55.9	2.1	14260	14520		12
2730-68	N/S 2 x 0	T	FRC	1.0	5.3	37.7	56.0	1.6	14370	14510		12
2758-68	N/S 2 x 0	D	DND	2.4	7.3	35.4	54.9	1.8	13890	14240	839	
2763-68	N/S 2 x 0	D	DND	1.2	6.8	35.6	56.5	1.4	14130	14290	430	
2775-68	N/S 2 x 0	D	DND	0.7	5.8	37.0	56.5	1.8	14390	14490	1091	
2805-68	N/S 2 x 0	D	DND	1.7	6.1	34.7	57.5	1.7	14130	14370	240	
2806-68	N/S 2 x 0	D	DND	1.8	7.2	34.2	56.8	1.7	13890	14150	788	
2848-68	N/S 2 x 0	D	DND	3.0	6.0	34.8	56.2	1.6	13950	14390	170	
2849-68	N/S 2 x 0	D	DND	2.1	6.4	35.2	56.3	1.7	14050	14350	305	

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 PROVINCE OF NOVA SCOTIA
 CAPE BRETON COAL FIELDS
 BITUMINOUS COAL (CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D						Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									Btu/lb Gross	Btu/lb Gross			
AREA Sydney Coal Field				OPERATOR Dosco Industries Limited, Dominion Coal Co. Ltd. and Devco Corporation									
2854-68	N/S 2 x 0	D	DND	1.2	8.1	34.5	56.2	1.4	13890	14050	277		
2892-68	N/S 2 x 0	D	DND	1.6	6.0	35.4	57.0	1.3	14220	14450	585		
2893-68	N/S 2 x 0	D	DND	1.6	5.8	35.3	57.3	1.4	14260	14490	282		
2929-68	N/S 2 x 0	D	DND	0.9	6.7	35.7	56.7	1.8	14130	14260	568		
3058-68	N/S 2 x 0	D	DND	1.0	6.5	35.5	57.0	1.6	14220	14360	60		
3063-68	N/S 2 x 0	D	DND	1.1	7.1	34.2	57.6	1.5	14020	14180	404		
3092-68	N/S 2 x 0	D	DND	1.3	10.4	35.5	52.8	1.6	13270	13450	202		
3109-68	N/S 2 x 0	D	DND	1.0	7.9	32.8	58.3	2.4	14160	14310	754		
3222-68	N/S 2 x 0	D	DND	0.7	9.7	35.3	54.3	2.3	13830	13920	939		
3227-68	N/S 2 x 0	D	DND	0.8	9.8	33.9	55.5	2.0	13750	13870	321		
3231-68	N/S 2 x 0	D	DND	0.8	7.3	35.2	56.7	2.0	14120	14230	351		
3245-68	N/S 2 x 0	D	DND	1.3	7.3	34.6	56.8	1.1	14070	14250	986		
2724-68	G/S 1 3/4 x 0	T	FRC	1.4	5.3	37.4	55.9	2.1	14350	14550		08	
2771-68	N/S 1 3/4 x 0	D	DND	3.3	4.9	37.7	54.1	2.2	14100	14570	724		
2772-68	N/S 1 3/4 x 0	D	DND	1.5	7.1	38.2	53.2	2.6	14110	14330	701		
3382-68	N/S 1 1/4 x 0	D	DPW	3.2	7.5	33.3	56.0	1.3	13770	14220			
3100-68	Slack 1 1/2 x 0	T	FRC	2.0	6.7	37.4	53.9	3.1	14030	14320		20	
2733-68	Slack - 1 1/4	T	FRC	1.3	3.7	35.2	59.8	0.9	14640	14830		20	
2116-68	Slack 3/4 x 0	D	DND	4.4	3.6	35.2	56.8	1.3	14220	14880	950		
2109-68	Slack	D	DVA	3.1	7.9	35.1	53.9	1.1	13720	14150	105		
2731-68	Slack	T	FRC	3.8	6.4	36.3	53.5	3.6	13740	14280		20	
2323-68	Fines 1/4 x 0	T	FRC	2.2	4.7	34.0	59.1	1.6	14320	14640		12	
2726-68	Fines 1/4 x 0	T	FRC	3.6	7.1	35.7	53.6	3.4	13610	14110		08	
3179-68	Fines 1/4 x 0	T	FRC	3.4	8.8	33.5	54.3	2.2	13530	14010		12	
2343-68	N/S	D	Justice	3.5	6.4	34.5	55.6	1.2	13700	14190	495	08	
2980-68	Fines	T	FRC	2.6	9.6	34.7	53.1	2.3	13270	13630		08	
				OPERATOR Bras d'Or Coal Co. Ltd. (Four Star Mine)									
2727-68	Mine Run	T	FRC	2.3	10.1	35.4	52.2	5.8	12810	13110			
2118-68	P/S 1 1/4 x 1/4	D	DND	2.4	13.1	35.2	49.3	6.1	12350	12650	22		
2544-68	P/S 1 1/4 x 1/4	D	DND	3.1	12.1	34.4	50.4	6.0	12440	12830	21		
2548-68	P/S 1 1/4 x 1/4	D	DND	5.5	11.7	33.2	49.6	5.9	12140	12850	27		
2429-68	Slack	T	FRC	1.7	13.0	34.9	50.4	5.6	12330	12550			
3112-68	Not Designated	Special	Operator	3.2	13.4	32.8	50.6	7.3	12060	12470			

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 PROVINCE OF NOVA SCOTIA
 CAPE BRETON COAL FIELDS
 BITUMINOUS COAL (CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	AS RECEIVED					Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
AREA Inverness Coal Field				OPERATOR Evans Coal Mines Limited								
2316-68	Med. Lump 4 x 2	T	FRC	4.9	9.4	35.2	50.5	6.7	12240	12870		
2717-68	Med. Lump 4 x 2	T	FRC	4.0	8.9	35.9	51.2	6.3	12450	12980		
2317-68	Egg 2 x 1	T	FRC	5.5	8.8	35.1	50.6	6.2	12190	12900		
2718-68	Egg 2 x 1	T	FRC	3.7	8.7	36.7	50.9	6.4	12500	12980		
2318-68	Nut 1 x 3/4	T	FRC	4.8	9.9	35.9	49.4	6.6	12140	12760		
2719-68	Nut 1 x 3/4	T	FRC	3.5	8.5	36.7	51.3	6.2	12510	12970		
2319-68	Stoker 3/4 x 1/2	T	FRC	5.1	8.4	36.6	49.9	6.0	12350	13010		
2720-68	Stoker 3/4 x 1/2	T	FRC	5.7	8.0	35.5	50.8	6.0	12340	13080		
2320-68	Fines 1/2 x 0	T	FRC	6.8	10.2	36.2	46.8	5.9	11790	12650		
2721-68	Fines 1/2 x 0	T	FRC	8.3	10.8	33.3	47.6	5.9	11480	12520		
AREA Pictou Coal Field				MAINLAND COAL FIELDS								
				OPERATOR Dosco Industries Limited, Acadia Coal Company Division								
2968-68	Egg + 1 3/4	T	FRC	2.0	11.7	28.3	58.0	0.5	12850	13120		
2969-68	Nut 1 3/4 x 3/4	T	FRC	1.6	11.4	27.5	59.5	0.9	13020	13240		
2970-68	Stoker 3/4 x 3/16	T	FRC	2.8	11.9	27.1	58.2	0.8	12780	13140		
2687-68	N/S 1 3/4 x 0	D	DND	3.3	13.9	27.0	55.8	0.7	12410	12830	1170	
2847-68	N/S 1 3/4 x 0	D	DND	1.6	11.6	28.5	58.3	0.5	13010	13230	974	
2855-68	N/S 1 3/4 x 0	D	DND	1.6	10.6	28.4	59.4	0.5	13150	13370	1007	
2856-68	N/S 1 3/4 x 0	D	DND	1.8	10.2	28.0	60.0	0.5	13190	13420	937	
2877-68	N/S 1 3/4 x 0	D	DND	1.6	11.5	28.1	58.8	0.7	13030	13240	988	
2891-68	N/S 1 3/4 x 0	D	DND	1.7	10.6	28.3	59.4	0.4	13240	13470	483	
2932-68	N/S 1 3/4 x 0	D	DND	1.5	10.3	28.2	60.0	0.8	13250	13450	984	
2949-68	N/S 1 3/4 x 0	D	DND	1.4	12.0	27.7	58.9	0.7	12960	13140	910	
2997-68	N/S 1 3/4 x 0	D	DND	3.2	11.4	27.0	58.4	0.6	12850	13280	977	
3016-68	N/S 1 3/4 x 0	D	DND	4.1	10.8	27.1	58.0	0.7	12800	13350	978	
3040-68	N/S 1 3/4 x 0	D	DND	1.8	11.4	28.0	58.8	0.5	13030	13270	993	
3100-68	N/S 1 3/4 x 0	D	DND	1.7	10.4	28.1	59.8	0.4	13140	13370	991	
3114-68	N/S 1 3/4 x 0	D	DND	5.0	10.8	27.0	57.2	0.4	12700	13370	997	
3199-68	N/S 1 3/4 x 0	D	DND	3.2	12.2	27.7	56.9	0.5	12700	13120	992	
3255-68	N/S 1 3/4 x 0	D	DND	5.6	11.4	26.2	56.8	0.5	12460	13190	1002	
3264-68	N/S 1 3/4 x 0	D	DND	4.0	11.2	26.8	58.0	0.5	12790	13330	982	
2904-68	N/S	D	DND	3.4	12.7	29.4	54.5	0.7	12440	12880	142	
3068-68	N/S	D	DND	3.9	10.9	27.4	57.8	0.6	12790	13310	365	
3259-68	N/S	D	DND	5.0	10.0	25.9	59.1	0.6	12810	13480	360	
2971-68	Splint 1 1/2 x 0	T	FRC	2.6	25.0	28.3	44.1	0.9	10260	10530		
2972-68	Fines 3/16 x 0	T	FRC	1.6	17.8	26.1	54.5	0.9	11980	12180		

PROVINCE OF NOVA SCOTIA
MAINLAND COAL FIELDS
BITUMINOUS COAL (CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D					Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
AREA Pictou Coal Field				OPERATOR Drummond Coal Co. Ltd.								
2964-68	Lump + 1 1/2 sq	T	FRC	3.9	10.6	27.9	57.6	1.1	12590	13100		
2965-68	Nut 1 1/2 x 3/4	T	FRC	3.7	14.2	27.1	55.0	1.1	11980	12440		1
2966-68	Slack 3/4 x 0	T	FRC	4.5	16.3	25.5	53.7	1.0	11470	12010		1
2967-68	Screen + 3/4	T	FRC	2.8	21.6	25.8	49.8	1.2	11020	11340		2
CUMBERLAND COAL FIELDS												
AREA Springhill Coal Field				OPERATOR Springhill Coal Mines Ltd.								
2311-68	Mine Run	T	FRC	4.9	23.4	28.4	43.3	2.2	10360	10890		Rogers Field
2308-68	Lump 6 x 1 1/2	T	FRC	4.2	21.8	27.1	46.9	2.2	10740	11210		Syndicate Mine
2957-68	Lump 6 x 1 1/2	T	FRC	2.9	22.7	28.7	45.7	2.1	10810	11130		
2774-68	Lump 2 1/4 x 1/2	D	Justice	3.5	33.9	24.9	37.7	2.4	8900	9220	233	
3069-68	Lump 2 1/4 x 1 1/2	D	Justice	2.0	30.4	27.4	40.2	2.2	9700	9900	281	
2309-68	Stoker 1 1/2 x 3/8	T	FRC	4.4	18.4	29.9	47.3	2.5	11300	11820		
2958-68	Stoker 1 1/2 x 3/8	T	FRC	2.8	23.8	28.4	45.0	2.3	10650	10950		
2287-68	P/S 1 1/4 x 1/4	D	DND	9.1	20.2	27.4	43.3	2.4	10200	11230	9	
2090-68	P/S 3/4 x 1/4	D	Justice	3.6	24.5	28.7	43.2	2.4	10330	10720	432	
2092-68	P/S 3/4 x 1/4	D	Justice	7.9	20.7	31.3	40.1	2.2	10370	11260	933	
2136-68	P/S 3/4 x 1/4	D	Justice	12.2	22.1	26.4	39.3	2.1	9480	10790	73	
2236-68	P/S 3/4 x 1/4	D	Justice	4.2	24.9	27.1	43.8	2.5	10260	10700	487	
2388-68	P/S 3/4 x 1/4	D	Justice	4.8	32.9	25.1	37.2	2.0	8890	9340	1030	
2493-68	P/S 3/4 x 1/4	D	Justice	5.7	35.4	27.8	31.1	1.9	8200	8700	177	
2549-68	P/S 3/4 x 1/4	D	Justice	2.8	23.5	29.0	44.7	2.6	10710	11020	815	
2550-68	P/S 3/4 x 1/4	D	Justice	4.1	22.5	29.3	44.1	2.3	10740	11200	423	
2582-68	P/S 3/4 x 1/4	D	Justice	5.8	34.6	25.6	34.0	1.8	8400	8920	177	
2622-68	P/S 3/4 x 1/4	D	Justice	4.9	19.4	29.2	46.5	2.1	10910	11470	339	
2683-68	P/S 3/4 x 1/4	D	Justice	4.4	25.1	27.1	43.4	2.0	10140	10600	975	
2735-68	P/S 3/4 x 1/4	D	Justice	3.7	24.6	27.6	44.1	2.3	10310	10710	428	
2762-68	P/S 3/4 x 1/4	D	Justice	5.2	31.3	24.7	38.8	2.1	9140	9640	367	
3226-68	P/S 3/4 x 1/4	D	Justice	4.0	22.5	28.8	44.7	2.5	10580	11020	132	
2863-68	N/S 1 1/4 x 0	D	Justice	2.5	22.8	29.0	45.7	2.5	10770	11040	238	
2310-68	Fines	T	FRC	5.1	21.4	28.4	45.1	2.6	10500	11060		
3190-68	Fines	T	FRC	5.3	20.9	28.4	45.4	2.2	10660	11250		
AREA Joggins Coal Field				OPERATOR River Hebert Coal Co. Ltd.								
2312-68	Lump + 1 1/8	T	FRC	2.0	15.1	34.7	48.2	4.9	12290	12530		

PROVINCE OF NOVA SCOTIA
CUMBERLAND COAL FIELDS
BITUMINOUS COAL (CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S RECEIVED					Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value Btu/lb Gross	Calorific Value Btu/lb Gross		
AREA Joggins Coal Field				OPERATOR River Hebert Coal Co. Ltd.								
2314-68	Lump + 1 1/8	T	FRC	2.3	17.0	33.4	47.3	5.0	11970	12260		
2960-68	Lump + 1 1/8	T	FRC	1.4	19.0	32.6	47.0	5.4	11720	11890		
2962-68	Lump + 1 1/8	T	FRC	1.1	23.5	31.2	44.2	6.1	11080	11210		
2961-68	Slack 1 1/2 x 0	T	FRC	1.2	24.1	31.1	43.6	5.1	10930	11070		
2313-68	Slack 1 1/8 x 0	T	FRC	2.2	19.9	32.1	45.8	4.7	11410	11660		
2315-68	Slack 1 1/8 x 0	T	FRC	1.9	16.0	34.2	47.9	5.1	12320	12550		
2963-68	Slack 1 1/8 x 0	T	FRC	1.2	24.4	30.9	43.6	5.9	10940	11070		
PROVINCE OF NEW BRUNSWICK MIRRO COAL FIELD				OPERATOR Avon Coal Co. Ltd.								
AREA Minto and Chipman				OPERATOR Avon Coal Co. Ltd.								
2021-68	Run of Mine	T	FRC	6.7	21.7	29.2	42.4	7.6	10580	11340		
2943-68	Run of Mine	T	FRC	3.7	18.3	30.7	47.3	8.1	11590	12020		
2015-68	Lump + 3	T	FRC	2.5	17.1	32.3	48.1	8.6	12090	12390		
2937-68	Lump + 3	T	FRC	0.8	13.4	36.6	49.2	7.2	13000	13110		
2016-68	Nut 3 x 1 1/4	T	FRC	1.6	16.6	33.7	48.1	7.6	12360	12570		
2938-68	Nut 3 x 1 1/4	T	FRC	0.8	12.3	35.7	51.2	6.6	13020	13120		
2017-68	Stoker 1 1/4 x 1/4	T	FRC	5.3	14.1	32.6	48.0	6.7	12110	12790		
2939-68	Stoker 1 1/4 x 1/4	T	FRC	0.9	15.4	33.8	49.9	6.9	12460	12570		
2018-68	N/S 1 1/4 x 0	T	FRC	2.8	14.6	35.2	47.4	7.3	12450	12810		
2940-68	N/S 1 1/4 x 0	T	FRC	0.9	14.3	35.6	49.2	6.6	12810	12920		
2019-68	Slack 3/4 x 0	T	FRC	7.1	12.8	33.1	47.0	6.0	12120	13040		
2941-68	Slack 3/4 x 0	T	FRC	2.1	14.6	33.1	50.2	6.6	12450	12720		
2020-68	Fines 1/4 x 0	T	FRC	7.6	12.5	32.8	47.1	5.9	12050	13040		
2942-68	Fines 1/4 x 0	T	FRC	4.0	12.0	34.8	49.2	5.8	12560	13090		
				OPERATOR Dufferin Mining Ltd.								
2044-68	Screen	T	FRC	1.8	16.7	34.4	47.1	5.7	12360	12580		
2045-68	Slack	T	FRC	1.5	19.6	34.3	44.6	6.4	11910	12090		
				OPERATOR McMann V.C. Ltd.								
2041-68	Run of Mine	T	FRC	1.1	16.2	34.0	48.7	7.1	12490	12630		
2042-68	Run of Mine	T	FRC	1.7	16.1	33.8	48.4	7.4	12340	12560		
2043-68	Run of Mine	T	FRC	2.0	23.5	31.2	43.3	6.1	11030	11250		
2913-68	Run of Mine	T	FRC	1.2	22.5	31.7	44.6	6.7	11480	11620		
2914-68	Run of Mine	T	FRC	1.2	20.4	32.1	46.3	6.4	11830	11970		
				OPERATOR Midland Mining Company								
2046-68	Run of Mine	T	FRC	1.6	15.1	35.9	47.4	8.3	12530	12740		
2915-68	Run of Mine	T	FRC	1.4	20.6	30.3	47.7	10.0	11570	11730		
2916-68	Run of Mine	T	FRC	1.5	19.9	30.5	48.1	9.3	11620	11790		

PROVINCE OF NEW BRUNSWICK
MINTO COAL FIELDS
BITUMINOUS COAL (CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D					Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
AREA Minto and Chipman				OPERATOR Nichols C.H. Ltd.								
2912-68	Mine Run	T	FRC	1.2	23.2	30.9	44.7	6.1	11260	11400		
2022-68	Lump + 1 1/4	T	FRC	2.0	21.4	31.7	44.9	6.0	11530	11760		
2910-68	Lump + 1 1/4	T	FRC	1.1	20.7	31.4	46.8	5.5	11690	11820		
2023-68	Slack 1 1/4 x 0	T	FRC	4.2	28.4	29.1	38.3	5.5	9990	10430		
2911-68	Slack 1 1/4 x 0	T	FRC	3.9	33.5	26.2	36.4	5.7	9270	9650		
2053-68	Mix	T	FRC	2.1	22.1	32.1	43.7	5.9	11430	11670		
				OPERATOR Miramichi Lumber Co. Ltd.								
2024-68	Screen + 2	T	FRC	1.6	10.9	36.7	50.8	6.4	13350	13570		
2026-68	Screen + 2	T	FRC	1.0	14.2	35.7	49.1	9.2	12880	13010		
2922-68	Screen	T	FRC	0.7	15.6	33.6	50.1	9.9	12540	12630		
2028-68	Screen + 1 1/4	T	FRC	1.3	18.5	32.0	48.2	7.7	12070	12230		
2025-68	Nut 2 x 1/4	T	FRC	1.1	15.8	35.6	47.5	7.6	12610	12750		
2027-68	Slack 2 x 0	T	FRC	3.1	32.9	26.9	37.1	9.1	9310	9610		
2047-68	Slack 1 1/4 x 0	T	FRC	2.9	18.0	33.4	45.7	7.4	12010	12370		
2923-68	Slack	T	FRC	0.7	21.3	31.9	46.1	8.2	11720	11790		
2047-68	Fines 1/4 x 0	T	FRC	2.9	18.0	33.4	45.7	7.4	12010	12370		
				OPERATOR D.W. and R.A. Mills, Ltd.								
2052-68	Run of Mine	T	FRC	4.7	15.7	32.8	46.8	7.0	12010	12600		
2921-68	Run of Mine	T	FRC	1.2	13.8	35.6	49.4	6.4	12800	12950		
2048-68	Nut 2 x 3/4	T	FRC	2.2	11.2	36.2	50.4	5.6	13210	13510		
2917-68	Nut 2 x 1	T	FRC	0.7	14.7	35.1	49.5	7.5	12910	13000		
2117-68	P/S 2 x 1/8	D	DND	3.4	18.0	33.4	45.2	6.9	11920	12350		22
3349-68	P/S 2 x 1/8	D	DND	1.8	14.2	34.8	49.2	6.8	12770	13000		46
2087-68	P/S 1 1/2 x 1/2	D	DND	8.6	11.9	31.7	47.8	4.3	12240	13390		286
2377-68	P/S 1 1/2 x 1/2	D	DND	1.5	13.3	34.4	50.8	6.5	13010	13210		284
2491-68	P/S 1 1/2 x 1/2	D	DND	0.7	14.8	27.4	57.1	6.9	12890	12970		435
3173-68	P/S 1 1/2 x 3/8	D	DND	1.5	12.8	36.2	49.5	6.2	13090	13280		68
3015-68	P/S 1 1/2 x 1/4	D	DND	2.0	11.7	34.2	52.1	5.9	13170	13440		67
3067-68	P/S 1 1/2 x 1/4	D	DND	1.4	10.7	35.4	52.5	4.8	13420	13600		67
3210-68	P/S 1 1/4 x 3/4	D	DND	0.9	14.6	35.5	49.0	6.4	12930	13060		
2050-68	Stoker 3/4 x 1/4	T	FRC	2.3	12.5	35.2	50.0	6.5	12910	13220		
2919-68	Stoker 3/4 x 1/4	T	FRC	0.9	11.4	36.7	51.0	6.4	13360	13490		
2049-68	C/S 2 x 0	T	FRC	3.4	19.8	31.9	44.9	6.0	11510	11920		
2918-68	C/S	T	FRC	0.9	21.6	32.8	44.7	11.3	11380	11490		
2903-68	N/S	D	DND	0.8	15.2	35.1	48.9	7.6	12690	12790		141
2051-68	Fines 1/4 x 0	T	FRC	6.0	15.7	32.5	45.8	6.6	11670	12420		
2920-68	Fines	T	FRC	5.8	11.7	33.8	48.7	6.7	12570	13340		

PROVINCE OF ONTARIO
ONAKAWANA DISTRICT
LIGHTE

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D						Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									Btu/lb Gross	Btu/lb Gross			
OPERATOR Battle River Coal Company Ltd.													
2239-68		Special	FRC	48.1	6.8	21.4	23.7	0.4	5340	10300			
2615-68		Special	FRC	10.8	24.3	31.8	33.1	1.0	7380	8270			

PROVINCE OF SASKATCHEWAN
SOURIS VALLEY DISTRICT
LIGHTE

OPERATOR Manitoba and Saskatchewan Coal Company Limited												
AREA Bienfait												
3072-68	Stove 4 x 2 sq	T	FRC	35.4	6.2	25.7	32.7	0.4	7290	11280		
3073-68	Booker 2 x 1 1/4 sq	T	FRC	33.8	6.1	27.0	33.1	0.4	7430	11220		
3074-68	Pea 1 1/4 x 1/2	T	FRC	33.9	6.7	27.1	32.3	0.3	7340	11110		
3045-68	P/S 1 x 1/2	D	DND	29.1	7.6	28.3	35.0	0.6	7910	11160	736	
3176-68	P/S 1 x 1/2	D	DND	31.3	9.6	27.7	31.4	0.3	7350	10710	932	
3075-68	Bug Dust - 1/2	T	FRC	33.7	7.9	26.4	32.0	0.4	7240	10920		
OPERATOR Battle River Coal Company Ltd. Klimax Mine												
AREA Estevan												
2907-68	P/S 1 x 1/2	D	DND	30.6	6.2	27.8	35.4	0.7	7670	11050	125	
3076-68	Booker 2 x 1 1/8	T	FRC	35.7	5.5	26.8	32.0	0.3	7150	11110		
3077-68	Pea 1 1/8 x 1/2	T	FRC	35.2	5.6	27.2	32.0	0.3	7280	11230		
3034-68	P/S 1 x 1/2	D	DND	31.8	6.4	25.5	36.3	0.6	7870	11540	1045	
3078-68	Bug Dust - 1/2	T	FRC	35.0	6.8	26.4	31.8	0.5	7150	11000		
OPERATOR Utility Coals Limited												
3083-68	Not Designated	T	FRC	32.3	9.8	26.3	31.6	0.3	7070	10440		

PROVINCE OF ALBERTA
SEMIANTHRACITE - LOW VOLATILE BITUMINOUS

OPERATOR The Canmore Mines Ltd.												
AREA Cascade												
3084-68	Cobble 5 x 3rd	T	FRC	1.6	4.4	11.2	82.8	0.7	14600	14830		
2006-68	Lump 5 x 2	D	DND	0.8	7.2	14.4	77.6	0.8	14200	14310	107	
2367-68	Lump 5 x 2	D	DND	2.1	7.0	13.2	77.7	0.7	14060	14370	78	
2514-68	Lump 5 x 2	D	DND	2.1	5.5	13.1	79.3	0.7	14330	14640	85	
2606-68	Lump 5 x 2	D	DND	1.2	9.9	18.9	70.0	0.3	13840	14010	58	
2761-68	Lump 5 x 2	D	DND	0.9	11.0	17.2	70.9	0.5	13700	13820	64	
3107-68	Lump 5 x 2	D	DND	1.2	11.7	20.6	66.5	0.6	13460	13630	34	
3085-68	Stove 3 x 2rd	T	FRC	2.1	7.8	11.8	78.3	0.7	13960	14250		
3009-68	Stove	D	DND	14.3	8.8	25.0	51.9	0.5	10480	12230	11	
3225-68	Stove	D	DND	9.7	6.9	21.2	62.2	0.4	11920	13200	12	
3086-68	Chestnut 2 sl x 1 1/4 sq	T	FRC	3.4	9.0	10.8	76.8	0.7	13570	14040		
2811-68	P/S 2 x 1/4	D	DND	2.5	6.0	13.2	78.3	0.7	14200	14570	123	
2899-68	P/S 2 x 1/4	D	DND	1.4	8.4	14.3	75.9	0.9	13900	14090	333	

PROVINCE OF ALBERTA
SEMANTHRACITE - LOW VOLATILE BITUMINOUS
(CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D					Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatiles Matter %	Fixed Carbon %	Sulphur %	Calorific Value Btu/lb Gross	Btu/lb Gross		
AREA Cascade				OPERATOR The Canmore Mines Ltd.								
2954-68	P/S 2 x 1/4	D	DND	4.7	8.5	12.9	73.9	0.9	13250	13900	695	
2996-68	P/S 2 x 1/4	D	DND	2.1	7.9	13.2	76.8	0.8	13910	14200	70	
3087-68	P/S 1 1/4 x 3/8	T	FRC	3.9	7.4	11.5	77.2	0.7	13700	14260		
2007-68	P/S 1 1/4 x 1/4	D	DND	1.8	8.3	13.9	76.0	0.7	14010	14260	56	
2106-68	P/S 1 1/4 x 1/4	D	DND	3.1	6.3	13.9	76.7	0.9	14110	14560	174	
2115-68	P/S 1 1/4 x 1/4	D	DND	1.8	9.2	13.2	75.8	1.0	13690	13940	21	
2232-68	P/S 1 1/4 x 1/4	D	DND	4.6	12.5	19.1	63.8	0.3	12820	13440	51	
2233-68	P/S 1 1/4 x 1/4	D	DND	3.1	6.0	12.2	78.7	0.7	14150	14600	99	
2234-68	P/S 1 1/4 x 1/4	D	DND	1.7	6.6	14.9	76.8	0.7	14230	14480	64	
2243-68	P/S 1 1/4 x 1/4	D	DND	6.0	7.3	15.2	71.5	0.9	13260	14110	123	
2288-68	P/S 1 1/4 x 1/4	D	DND	5.1	7.4	15.4	72.1	0.9	13260	13970	29	
2371-68	P/S 1 1/4 x 1/4	D	DND	1.6	7.2	12.7	78.5	0.7	14110	14330	538	
2401-68	P/S 1 1/4 x 1/4	D	DND	4.3	6.9	14.2	74.6	0.9	13790	14410	210	
2402-68	P/S 1 1/4 x 1/4	D	DND	3.2	7.5	14.4	74.9	0.8	13750	14210	184	
2492-68	P/S 1 1/4 x 1/4	D	DND	4.4	7.1	13.2	75.3	0.8	13720	14350	29	
2495-68	P/S 1 1/4 x 1/4	D	DND	3.5	8.5	14.0	74.0	0.9	13540	14020	108	
2515-68	P/S 1 1/4 x 1/4	D	DND	3.8	7.3	12.7	76.2	0.7	13720	14270	452	
2561-68	P/S 1 1/4 x 1/4	D	DND	2.7	7.6	14.1	75.6	0.9	13950	14340	94	
2581-68	P/S 1 1/4 x 1/4	D	DND	3.9	9.1	13.2	73.8	0.8	13390	13930	22	
2605-68	P/S 1 1/4 x 1/4	D	DND	2.8	5.0	13.3	78.9	0.9	14340	14760	116	
2647-68	P/S 1 1/4 x 1/4	D	DND	2.2	6.9	13.5	77.4	0.8	14110	14420	133	
2684-68	P/S 1 1/4 x 1/4	D	DND	4.0	7.7	12.6	75.7	0.8	13640	14200	29	
2736-68	P/S 1 1/4 x 1/4	D	DND	1.9	7.5	12.4	78.2	0.9	13930	14200	28	
2750-68	P/S 1 1/4 x 1/4	D	DND	0.8	7.6	12.3	79.3	0.9	14180	14300	98	
2760-68	P/S 1 1/4 x 1/4	D	DND	1.6	7.1	12.3	79.0	0.8	14130	14360	455	
3010-68	P/S 1 1/4 x 1/4	D	DND	23.2	6.4	28.6	41.8	0.4	8960	11680	83	
3011-68	P/S 1 1/4 x 1/4	D	DND	2.9	7.0	11.9	78.2	0.8	13910	14330	156	
3012-68	P/S 1 1/4 x 1/4	D	DND	3.0	7.8	12.0	77.2	0.8	13680	14090	41	
3013-68	P/S 1.1/4 x 1/4	D	DND	0.8	7.2	11.9	80.1	0.8	14220	14340	7	
3014-68	P/S 1 1/4 x 1/4	D	DND	1.9	8.4	12.0	77.7	0.8	13830	14100	7	
3224-68	P/S 1 1/4 x 1/4	D	DND	23.3	6.5	29.2	41.0	0.4	9000	11710	83	
3262-68	P/S 1 1/4 x 1/4	D	DND	8.1	9.2	16.7	66.0	0.9	12500	13610	1/2	
3088-68	Buckwheat 9/16 x 5/16	T	FRC	4.9	5.6	11.1	78.4	0.7	13870	14580		
3089-68	Slack 1/4 x 0	T	FRC	8.2	7.3	10.5	74.0	0.7	13100	14270		
AREA Crowsnest				OPERATOR Coleman Collieries Limited Vicary Creek								
3133-68	P/S 2 x 1/4	T	FRC	1.8	8.4	22.8	67.0	0.8	13780	14040		
3134-68	1/4 x 0	T	FRC	3.1	9.4	21.7	65.8	0.4	13450	13870		

* - Mixed with subbituminous or lignite.

PROVINCE OF ALBERTA
SEMIANTHRACITE - LOW-VOLATILE BITUMINOUS
(CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D						Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									Btu/lb Gross	Btu/lb Gross			
AREA Crownest				OPERATOR Coleman Collieries Limited Tent Mountain									
3135-68	Stoker 1 1/4 x 1/4	T	FRC	4.3	10.7	22.8	62.2	0.4	12980	13570			
SUBBITUMINOUS													
AREA Brooks				OPERATOR The Kleenbirn Collieries									
3079-68	Lump + 2	T	FRC	17.3	9.2	31.1	42.4	0.7	9600	11600			
3080-68	Nut 2 x 1 1/2	T	FRC	16.3	11.8	29.7	42.2	0.8	9390	11220			
3081-68	Stoker 1 1/2 x 5/16	T	FRC	16.8	11.7	30.6	40.9	0.8	9310	11190			
3082-68	Slack 5/16 x 0	T	FRC	17.4	12.0	29.8	40.8	0.7	9160	11090			
AREA Drumheller				OPERATOR Charter Coals Ltd.									
3124-68	Lump + 4 1/2	T	FRC	19.6	7.0	29.9	43.5	0.3	9490	11810			
3125-68	Egg 4 1/2 x 2	T	FRC	17.0	7.8	31.0	44.2	0.4	9660	11640			
3126-68	Nut 2 x 1 1/4	T	FRC	17.8	10.0	30.9	41.3	0.4	9300	11320			
3127-68	Stoker 1 1/4 x 5/8	T	FRC	19.2	8.8	29.2	42.8	0.3	9210	11410			
3128-68	Slack 5/8 x 0	T	FRC	19.8	10.7	28.7	40.8	0.5	8940	11150			
				OPERATOR Subway Coal Company									
3122-68	Special #1 Up Seam	Channel	FRC	19.2	15.8	28.1	36.9	1.0	8490	10510		1 Upper Seam	
3123-68	Special #2 Low Seam	Channel	FRC	17.7	10.9	28.0	43.4	0.7	9410	11430		2 Lower Seam	
AREA Lethbridge				OPERATOR OR TRADE NAME Diamond									
2132-68	P/S 2 x 1/8	D	DND	15.8	11.7	31.0	41.5	0.6	9210	10940		6	
AREA Sheerness				OPERATOR Battle River Coal Company Roselyn Mine No. 443									
3118-68	Egg 4 1/2 x 2	T	FRC	27.7	5.9	29.8	36.6	0.2	8220	11360			
3119-68	Nut 2 x 1 1/4	T	FRC	25.2	6.5	30.9	37.4	0.3	8380	11200			
3120-68	Stoker 1 1/4 x 5/8	T	FRC	24.7	6.4	28.8	40.1	0.4	8580	11390			
3121-68	Slack 5/8 x 0	T	FRC	27.0	7.1	28.7	37.2	0.3	8230	11280			
PROVINCE OF BRITISH COLUMBIA BITUMINOUS													
AREA East Kootenay				OPERATOR Kaiser Coal Limited									
3129-68	Cobble 7 x 1 5/8	T	FRC	2.0	13.3	18.4	66.3	0.2	13120	13390			
3130-68	Stoker 1 5/8 x 3/8	T	FRC	1.9	11.5	18.1	68.5	0.2	13440	13690			
3131-68	Export 2 x 0	T	FRC	1.8	8.7	19.4	70.1	0.3	13900	14160			
3132-68	2 x 0	T	FRC	5.1	7.4	26.2	61.3	0.3	13490	14210			
AREA Ashcroft				OPERATOR Northern Coal Mines Ltd. Garraway Mine									
2009-68	Special	Mine	Operator	5.5	13.0	38.6	42.9	1.0	10980	11620			
2010-68	Special	Mine	Operator	6.2	2.9	38.3	52.6	0.9	12600	13430			

PROVINCE OF BRITISH COLUMBIA
BITUMINOUS
(CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D					Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									Btu/lb Gross	Btu/lb Gross		
AREA Ashcroft				OPERATOR Northern Coal Mines Ltd. Garraway Mine								
2011-68	Special	Mine	Operator	6.7	8.6	37.2	47.5	0.7	11710	12550		
2012-68	Special	Mine	Operator	5.7	9.5	41.2	43.6	1.0	11530	12220		
2013-68	Special	Mine	Operator	5.6	19.6	34.6	40.2	2.1	10220	10830		
2014-68	Special	Mine	Operator	5.6	11.3	38.7	44.4	2.1	11330	12000		
II. IMPORTED COALS												
UNITED STATES												
It has been drawn to the attention of this Division that the analyses of some imported coals are not typical of the mines from which they are said to originate. The Fuels Research Centre takes no responsibility for the sampling or designation of coals unless they are carried out by divisional (FRC) officers as indicated in "Sampled by" column.												
STATE West Kentucky				OPERATOR OR TRADE NAME Mission Bell, Paradise Mine								
2094-68	P/S 1 1/4 x 1	Special	Commercial	1.3	7.4	42.4	48.9	3.1	13490	13670		
STATE Pennsylvania				OPERATOR OR TRADE NAME Allison								
2031-68	N/S 2 x 0	D	DND	8.2	9.7	37.5	44.6	2.3	12160	13240		506
				OPERATOR OR TRADE NAME Apex, Ponderosa Mine								
3261-68	N/S 2 x 0	D	DND	4.2	11.2	36.3	48.3	2.7	12670	13230		
3090-68	Modified Stoker	D	DND	3.7	11.9	35.8	48.6	2.4	12610	13090		387
				OPERATOR OR TRADE NAME Cadogan								
3346-68	N/S 2 x 0	D	DND	3.3	9.3	36.3	51.1	2.3	13270	13730		880
				OPERATOR OR TRADE NAME Callaghan								
3347-68	N/S 2 x 0	D	DND	4.3	11.1	33.1	51.5	2.4	12630	13200		926
				Butler County OPERATOR OR TRADE NAME Dell #3 Mine								
2139-68	N/S 2 x 0	D	DND	4.5	8.3	36.3	50.9	1.2	13070	13680		613
2140-68	N/S 2 x 0	D	DND	3.6	7.0	36.1	53.3	1.1	13440	13940		160
2283-68	N/S 2 x 0	D	DND	3.9	8.4	33.7	54.0	1.0	13180	13710		691
2500-68	N/S 2 x 0	D	DND	2.7	8.1	34.3	54.9	1.1	13350	13710		669
2501-68	N/S 2 x 0	D	DND	4.4	8.0	33.5	54.1	1.0	13230	13840		177
2569-68	N/S 2 x 0	D	DND	4.7	7.8	34.5	53.0	1.1	13230	13890		575
2570-68	N/S 2 x 0	D	DND	6.7	8.6	33.6	51.1	1.0	12760	13680		142
3137-68	N/S 2 x 0	D	DND	12.7	5.9	31.8	49.6	0.5	11530	13200		37
3138-68	N/S 2 x 0	D	DND	11.3	6.0	32.7	50.0	0.6	11840	13350		181
3139-68	N/S 2 x 0	D	DND	14.4	5.8	31.4	48.4	0.4	11280	13190		126

IMPORTED COALS
(CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D						Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									Btu/lb Gross	Btu/lb Gross			
STATE Pennsylvania		Butler County		OPERATOR OR TRADE NAME Dell, #3 Mine									
3141-68	N/B 2 x 0	D	DND	13.5	5.6	31.3	49.6	0.5	11440	13230	53		
		District #8		OPERATOR OR TRADE NAME Greer-Ellison									
2141-68	N/B 2 x 0	D	DND	5.2	7.7	35.5	51.6	1.3	12960	13660	529		
2285-68	N/B 2 x 0	D	DND	9.7	8.1	33.3	48.9	1.2	12140	13450	725		
2502-68	N/B 2 x 0	D	DND	6.5	9.3	33.5	50.7	1.4	12390	13260	691		
2571-68	N/B 2 x 0	D	DND	6.6	9.8	33.6	50.0	1.5	12320	13190	583		
3136-68	N/B 2 x 0	D	DND	4.5	10.0	32.6	52.9	0.8	12760	13350	122		
		Knoxdale		OPERATOR OR TRADE NAME Kniseley									
2246-68	N/B 2 x 0	D	DND	5.7	7.4	31.5	55.4	1.4	13220	14010	316		
		Armstrong County		OPERATOR OR TRADE NAME Margaret									
2033-68	N/B 2 x 0	D	DND	11.2	7.4	30.3	51.1	1.7	12260	13800	734		
2261-68	N/B 2 x 0	D	DND	4.4	7.3	32.3	56.0	1.2	13290	13900	861		
2393-68	N/B 2 x 0	D	DND	5.4	7.3	31.6	55.7	1.2	13120	13870	780		
2560-68	N/B 2 x 0	D	DND	7.0	6.9	30.8	55.3	1.0	13100	14080	479		
2686-68	N/B 2 x 0	D	DND	6.0	7.8	31.3	54.9	1.3	12840	13680	506		
				OPERATOR OR TRADE NAME Mohican									
2122-68	N/B 2 x 0	D	DND	7.3	9.2	32.4	51.1	2.3	12280	13250	495		
2366-68	N/B 2 x 0	D	DND	3.9	6.1	31.9	58.1	0.9	12730	13250	731		
2403-68	N/B 2 x 0	D	DND	8.1	8.7	31.2	52.0	2.5	12290	13380	752		
2580-68	N/B 2 x 0	D	DND	8.1	8.7	31.3	51.9	2.4	12300	13400	535		
2630-68	N/B 2 x 0	D	DND	8.2	8.5	31.2	52.1	2.1	12100	13180	346		
STATE West Virginia				OPERATOR OR TRADE NAME Algoma Mine									
3113-68	P/B 1 x 1/8	D	DND	3.8	6.5	29.9	59.8	0.9	13760	14310	60		
3258-68	P/B 1 x 1/8	D	DND	5.0	7.7	20.1	67.2	0.8	13150	13840	59		
				OPERATOR OR TRADE NAME Compass-Dola									
3094-68	Black 1 1/4 x 0	Commercial		1.5	7.9	40.1	50.5	3.0	13620	13820			
3095-68	Black 1 1/4 x 0	Commercial		4.6	7.3	39.0	49.1	2.9	13230	13870			
				OPERATOR OR TRADE NAME Elm Grove									
2032-68	P/B 2 x 1/8	D	DND	2.7	6.5	42.2	48.6	3.2	13500	13870	592		
2879-68	P/B 2 x 1/8	D	DND	2.3	7.2	39.3	51.2	3.0	13390	13690	229		
3377-68	P/B 2 x 1/8	D	DND	3.3	7.2	39.4	50.1	2.6	13380	13830	178		
3174-68	P/B	D	DND	5.9	10.7	37.2	46.2	2.1	12450	13230	36		
3376-68	P/B	D	DND	7.2	9.8	34.2	48.8	1.8	12410	13370	39		

IMPORTED COALS
(CONTINUED)

Sample Number	Size Designation, Inches	Kind of Sample	Sampled By	A S R E C E I V E D						Dry		Tonnage Represented by Sample	Colliery
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									Btu/lb Gross	Btu/lb Gross			
STATE West Virginia		Hiton		OPERATOR OR TRADE NAME Bell Creek									
2876-68	N/S 1 3/4 x 0	D	DND	2.1	8.9	37.6	51.4	1.5	13250	13530	359		
2946-68	N/S 1 3/4 x 0	D	DND	1.4	8.5	37.0	53.1	1.6	13540	13730	327		
3066-68	N/S 1 3/4 x 0	D	DND	0.9	11.5	32.2	55.4	1.5	13460	13580	495		
		Four States		OPERATOR OR TRADE NAME O'Donnell Mine									
2034-68	P/S 1 1/4 x 1/8	D	DND	2.6	7.3	39.6	50.5	2.7	13610	13980	101		
2108-68	P/S 1 1/4 x 1/8	D	DND	11.9	7.0	35.6	45.5	0.5	12400	14070			
2235-68	P/S 1 1/4 x 1/8	D	DND	3.2	7.8	39.5	49.5	2.8	13420	13860	525		
2380-68	P/S 1 1/4 x 1/8	D	DND	5.7	6.9	36.8	50.6	2.4	13190	13990	481		
2516-68	P/S 1 1/4 x 1/8	D	DND	3.0	8.1	37.6	51.3	2.5	13610	14020	71		
3237-68	P/S 1 1/4 x 1/8	D	DND	2.1	7.7	40.9	49.3	2.4	13660	13950	87		
2121-68	P/S 1 x 1/8	D	DND	1.6	7.9	39.3	51.2	2.8	13660	13880	118		
				OPERATOR OR TRADE NAME Omar									
3243-68	P/S 2 x 1/4	D	DND	1.5	5.1	36.0	57.4	0.7	14370	14590			
3369-68	P/S 2 x 1/4	D	DND	3.0	4.6	36.3	56.1	0.8	14190	14630			
				OPERATOR OR TRADE NAME Pathfinder									
3091-68	P/B 1 1/4 x 1/4	D	DND	3.5	7.2	37.2	52.1	2.4	13480	13980	25		
		Logan County		OPERATOR OR TRADE NAME McGregor									
2142-68	Egg 5 x 2	D	DND	1.3	6.5	36.7	55.5	0.9	14020	14210	136		
2286-68	Egg 5 x 2	D	DND	1.1	6.0	36.5	56.4	0.9	14210	14360	151		
2503-68	Egg 5 x 2	D	DND	1.1	7.3	36.1	55.5	0.9	13940	14090	325		
2572-68	Egg 5 x 2	D	DND	1.0	6.5	36.4	56.1	1.0	14220	14360	115		
3140-68	Egg 5 x 2	D	DND	1.6	7.6	37.0	53.8	0.7	13900	14130	54		
STATE Ohio		Jefferson County		OPERATOR OR TRADE NAME Jensie									
2030-68	P/S 2 x 1/4	D	DND	6.3	4.6	43.1	46.0	2.9	12790	13650	92		

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