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- I. Canadian Coals
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Mines Branch Information Circular IC 249

ANALYSES OF COAL DURING 1969

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 encompassed by this publication. This information circular, issued as the ninth of an annual series, tabulates the analyses of coal samples analysed by the Centre during 1969.

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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\* Head, Solid Fuels Laboratory, and \*\* Technician, Fuels Research Centre, Mines Branch, Department of Energy, Mines and Resources, Ottawa, Canada.

GLOSSARY OF ABBREVIATED TERMS

DND	Department of National Defence
DFW	Department of Public Works
FRC	Fuels Research Centre
Justice	Department of Justice
D	Delivered
Med	Medium
N/S	Nut Slack
M	Mine
P/S	Prepared Stoker
sq	Square-Hole Screen
T	Tipple

NOTE: Unless otherwise designated, all screens are round-hole

Direction des mines  
Circulaire d'information IC 249

ANALYSES DE CHARBON EN 1969

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 mentionnés par la présente publication. Cette circulaire d'information, la neuvième d'une série qui doit paraître annuellement, traite des analyses d'échantillons de charbon analysés par le Centre au cours de 1969.

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 recus" et aussi "à sec". Pour les fins de référence, les analyses sont classées par province et par état.

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\* Chef du Laboratoire des combustibles solides, et \*\* technicien, Centre de recherches des combustibles, Direction des mines, ministère de l'Energie, des Mines et des Ressources, Ottawa, Canada.

GLOSSAIRE DES ABRÉVIATIONS

DND	Ministère de la Défense nationale
DPW	Ministère des Travaux publics
FRC	Centre de recherches des combustibles
Justice	Ministère de la Justice
D	Livré
Med	Medium
N/S	Mixtes noisettes-fines
M	Mine
P/S	Braissettes pour foyer mécanique
sq	Crible à trous carrés
T	Criblage

NOTE: A moins d'être désigné autrement tous les  
cribles sont à trous ronds

I. CANADIAN COALS

PROVINCE OF NOVA SCOTIA  
CAPE BRETON COAL FIELDS

BITUMINOUS COAL

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									BTU/lb Gross	BTU/lb Gross	
SYDNEY COAL FIELD				OPERATOR: CAPE BRETON DEVELOPMENT CORPORATION (DEVCO)							
				COLLIERY: OLD SYDNEY							
2917-69	Egg + 1 3/4	T	FRC	1.2	5.0	39.7	54.1	2.9	14450	14620	
2918-69	Nut 1 3/4 x 3/4	T	FRC	1.1	6.9	39.4	52.6	2.6	14020	14170	
2920-69	Pea 3/4 x 1/4	T	FRC	1.4	4.5	39.7	54.4	2.6	14350	14550	
2919-69	Coarse Slack 1 3/4 x 0	T	FRC	0.8	5.0	38.9	55.3	2.7	14380	14500	
3487-69	Slack 3/4 x 0	D	DND	4.0	8.0	33.9	54.1	2.4	13590	14150	982
3536-69	Slack 3/4 x 0	D	DND	3.7	5.5	34.6	56.2	2.7	13990	14530	997
2921-69	Fines 1/4 x 0	T	FRC	1.6	15.9	33.6	48.9	2.9	12390	12590	
				COLLIERY: NUMBER 12							
2922-69	Screened + 2 sq	T	FRC	0.8	4.3	36.8	58.1	2.3	14750	14860	
3357-69	Screened + 2 sq	T	FRC	0.7	4.4	36.6	58.3	2.7	14790	14890	
2923-69	Special Slack 2 x 0	T	FRC	0.7	9.5	34.2	55.6	3.4	13910	14000	
3358-69	Slack -2 sq	T	FRC	0.8	6.4	35.7	57.1	2.8	14440	14550	
3370-69	Slack	T	FRC	1.0	8.0	34.0	57.0	3.0	14120	14270	
3371-69	Fines	T	FRC	1.1	12.0	32.7	54.2	2.1	13350	13500	
2924-69	Fines 1/4 x 0	T	FRC	1.1	2.4	36.1	60.4	0.9	14840	15010	
				COLLIERY: NUMBER 20							
2925-69	Slack 1 1/2 x 0	T	FRC	1.0	5.0	38.4	55.6	2.7	14530	14670	
3359-69	Slack 1 1/2 x 0	T	FRC	1.0	6.1	36.9	56.0	3.4	14240	14380	
				COLLIERY: NUMBER 26							
2926-69	Screened + 1 1/4	T	FRC	1.0	4.4	36.2	58.4	1.7	14570	14720	
2928-69	Pea 3/4 x 5/16	T	FRC	1.0	3.8	35.3	59.9	1.2	14610	14760	
2927-69	Slack 1 1/4 x 0	T	FRC	1.4	7.4	34.5	56.7	1.8	13900	14090	
2983-69	Fines 1/4 x 0	T	FRC	1.3	6.6	36.1	56.0	1.9	14090	14270	
				COLLIERY: VARIOUS COLLIERIES OPERATED BY DEVCO IN THE SYDNEY COAL FIELD							
3262-69	P/S 1 1/4 x 1/4	D	DND	3.3	3.8	38.6	54.3	2.6	14330	14820	
3261-69	P/S 3/4 x 1/2	D	DND	3.0	5.0	35.4	56.6	1.1	14080	14520	54
3366-69	P/S 3/4 x 1/2	D	DND	4.1	5.7	33.9	56.3	1.1	13920	14510	31



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

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
SYDNEY COAL FIELD				OPERATOR: CAPE BRETON DEVELOPMENT CORPORATION (DEVCO)								
				COLLIERY: VARIOUS COLLIERIES OPERATED BY DEVCO IN THE SYDNEY COAL FIELD								
2069-69	P/S 3/4 x 1/4	D	DND	2.0	7.3	35.0	55.7	1.3	13910	14190	18	
2074-69	P/S 3/4 x 1/4	D	DND	3.7	6.6	34.6	55.1	1.5	13800	14340	18	
3356-69	P/S 3/4 x 1/4	D	DND	3.3	5.3	34.5	56.9	1.4	14130	14610	23	
3382-69	P/S 3/4 x 1/4	D	DND	1.4	5.8	33.7	59.1	1.2	14290	14490	54	
2021-69	N/S 2 x 0	D	DND	5.6	6.4	32.9	55.1	1.2	13560	14370	437	
2023-69	N/S 2 x 0	D	DND	4.6	8.2	33.0	54.2	1.7	13490	14140	765	
2026-69	N/S 2 x 0	D	DND	1.2	9.8	34.0	55.0	2.2	13700	13870	445	
2073-69	N/S 2 x 0	D	DND	3.5	7.3	33.7	55.5	2.0	13850	14350	670	
2102-69	N/S 2 x 0	D	DND	4.4	8.3	32.7	54.6	1.9	13460	14080	408	
2110-69	N/S 2 x 0	D	DND	1.0	9.1	34.4	55.5	1.8	14010	14150	997	
2163-69	N/S 2 x 0	D	DND	1.1	14.6	32.5	51.8	3.5	13040	13190	661	
2164-69	N/S 2 x 0	D	DND	7.4	8.5	30.2	53.9	1.9	12980	14010	511	
2167-69	N/S 2 x 0	D	DND	1.3	10.6	33.1	55.0	2.2	13630	13800	57	
2267-69	N/S 2 x 0	D	DND	0.5	7.4	34.4	57.7	2.5	14300	14370	741	
2316-69	N/S 2 x 0	D	DND	3.5	7.4	33.5	55.6	1.8	13880	14380	802	
2330-69	N/S 2 x 0	D	DND	3.9	9.1	33.2	53.8	2.1	13550	14090	84	
2335-69	N/S 2 x 0	D	DND	3.0	7.3	33.8	55.9	2.2	13950	14380	660	
2360-69	N/S 2 x 0	D	DND	4.4	8.3	33.0	54.3	1.9	13530	14150	788	
2463-69	N/S 2 x 0	D	DND	3.3	7.3	34.2	55.2	1.3	13830	14290	716	
2498-69	N/S 2 x 0	D	DND	3.9	7.7	34.2	54.2	2.0	13650	14200	889	
2521-69	N/S 2 x 0	D	DND	3.3	11.3	32.1	53.3	2.1	13190	13630	844	
2523-69	N/S 2 x 0	D	DND	3.1	10.0	32.7	54.2	2.2	13370	13790	60	
2596-69	N/S 2 x 0	D	DND	3.1	9.4	33.5	54.0	1.8	13450	13880	949	
2633-69	N/S 2 x 0	D	DND	1.9	8.3	34.0	55.8	1.9	13940	14210	660	
2660-69	N/S 2 x 0	D	DND	2.9	11.6	32.9	52.6	2.3	13150	13540	981	
2729-69	N/S 2 x 0	D	DND	2.4	8.7	33.8	55.1	1.8	13720	14070	905	
2850-69	N/S 2 x 0	D	DND	1.0	10.6	34.3	54.1	2.0	13620	13760	631	
2880-69	N/S 2 x 0	D	DND	1.3	9.3	33.4	56.0	2.0	13770	13960	912	
3005-69	N/S 2 x 0	D	DND	1.1	8.9	34.8	55.2	1.9	13850	14000	655	

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

Sample Number	Size Designation (r.) or Location	Kind of Sample	Sampled By	As Received							Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									BTU/lb Gross	BTU/lb Gross			
SYDNEY COAL FIELD				OPERATOR: CAPE BRETON DEVELOPMENT CORPORATION (DEVCO)									
				COLLIERY: VARIOUS COLLIERIES OPERATED BY DEVCO IN THE SYDNEY COAL FIELD									
3057-69	N/S 2 x 0	D	DND	2.3	10.1	34.1	53.5	2.1	13420	13730	655		
3132-69	N/S 2 x 0	D	DND	1.0	10.0	35.5	53.5	2.1	13540	13670	439		
3214-69	N/S 2 x 0	D	DND	1.4	10.4	34.3	53.9	2.4	13540	13730	21		
3232-69	N/S 2 x 0	D	DND	1.2	7.5	35.0	56.3	1.6	14010	14170	533		
3254-69	N/S 2 x 0	D	DND	7.0	8.2	32.7	52.1	1.7	12920	13900	41		
3263-69	N/S 2 x 0	D	DND	1.8	9.2	34.5	54.5	2.3	13730	13980	413		
3282-69	N/S 2 x 0	D	DND	2.1	9.3	35.1	53.5	2.0	13690	13980	186		
3283-69	N/S 2 x 0	D	DND	2.5	10.4	33.3	53.8	1.9	13410	13750	947		
3298-69	N/S 2 x 0	D	DND	1.2	9.0	31.0	58.8	1.9	13840	14000	395		
3333-69	N/S 2 x 0	D	DND	1.1	8.7	34.3	55.9	2.3	13900	14050	629		
3398-69	N/S 2 x 0	D	DND	3.2	10.8	32.1	53.9	2.3	13210	13640	824		
3384-69	N/S 2 x 0	D	DND	1.2	11.0	33.1	54.7	2.3	13550	13710	652		
3385-69	N/S 2 x 0	D	DND	1.9	10.7	32.7	54.7	2.5	13450	13720	225		
3386-69	N/S 2 x 0	D	DND	1.1	12.7	32.6	53.6	2.4	13270	13420	380		
3389-69	N/S 2 x 0	D	DND	5.3	11.1	31.8	51.8	1.9	12890	13620	419		
3472-69	N/S 2 x 0	D	DND	4.1	9.2	32.3	54.4	2.4	13390	13960	700		
3473-69	N/S 2 x 0	D	DND	2.7	11.4	32.1	53.8	2.6	13250	13620	504		
3488-69	N/S 2 x 0	D	DND	1.9	12.0	32.8	53.3	2.5	13310	13570	923		
3515-69	N/S 2 x 0	D	DND	0.9	12.1	32.5	54.5	2.9	13420	13540	129		
3516-69	N/S 2 x 0	D	DND	3.4	12.6	31.5	52.5	2.6	13010	13480	632		
3517-69	N/S 2 x 0	D	DND	0.8	13.2	32.1	53.9	3.4	13230	13330	371		
3523-69	N/S 2 x 0	D	DND	2.6	13.9	30.8	52.7	3.3	12870	13210	626		
3535-69	N/S 2 x 0	D	DND	2.1	8.7	32.4	56.8	1.8	13660	13950	1080		
				OPERATOR: BRAS D'OR COAL CO., LTD.									
				FOUR STAR MINE									
2984-69	Mine Run		NSPC	2.4	10.5	34.7	52.4	5.9	12580	12890			
3360-69	Mine Run	T	FRC	1.5	9.2	35.4	53.9	5.5	13230	13430			
2929-69	Lump + 2	T	FRC	1.6	11.8	34.5	52.1	5.8	12540	12740			
2930-69	Nut 2 x 3/4	T	FRC	1.8	14.2	33.9	50.1	5.9	12110	12330			
2931-69	Pea 3/4 x 5/16	T	FRC	1.7	10.1	35.1	53.1	5.4	12830	13050			
2932-69	Fines 5/16 x 0	T	FRC	1.8	11.5	34.4	52.3	6.0	12540	12780			

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

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received					Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value		
									BTU/lb Gross	BTU/lb Gross	
INVERNESS COAL FIELD				OPERATOR: EVANS COAL MINES LIMITED							
2205-69	Med. Lump 4 x 2	T	FRC	5.1	7.9	35.4	51.6	5.6	12380	13040	
2993-69	Med. Lump 4 x 2	T	FRC	3.0	8.3	36.5	52.2	5.6	12570	12960	
3339-69	Med. Lump 4 x 2	T	FRC	3.3	10.3	35.7	50.7	7.0	12300	12730	
2206-69	Egg 2 x 1	T	FRC	4.5	9.7	34.4	51.4	6.6	12130	12690	
2994-69	Egg 2 x 1	T	FRC	2.8	8.1	36.7	52.4	5.6	12670	13040	
3340-69	Egg 2 x 1	T	FRC	3.3	8.6	36.7	51.4	5.7	12630	13070	
2207-69	Nut 1 x 3/4	T	FRC	5.6	9.6	34.0	50.8	6.1	12140	12860	
2995-69	Nut 1 x 3/4	T	FRC	2.9	7.9	36.8	52.4	5.7	12650	13030	
3341-69	Nut 1 x 3/4	T	FRC	3.3	10.2	36.0	50.5	6.2	12310	12730	
2208-69	Stoker 3/4 x 1/2	T	FRC	5.6	8.6	34.4	51.4	6.0	12190	12920	
2996-69	Stoker 3/4 x 1/2	T	FRC	2.8	9.3	35.7	52.2	5.9	12500	12870	
3343-69	Stoker 3/4 x 1/2	T	FRC	2.6	10.8	35.9	50.7	6.4	12330	12660	
2209-69	Fines 1/2 x 0	T	FRC	4.8	10.0	35.3	49.9	7.0	12160	12770	
2997-69	Fines 1/2 x 0	T	FRC	2.9	9.0	36.1	52.0	5.6	12490	12870	
3345-69	Fines 1/2 x 0	T	FRC	4.2	10.6	35.4	49.8	6.0	12120	12650	
MAINLAND COAL FIELDS											
PICTOU COUNTY COAL FIELD				OPERATOR: DRUMMOND COAL CO., LTD.							
				NUMBER 1 MINE							
2978-69	Lump + 1 1/2 sq	T	FRC	1.0	11.3	28.6	59.1	1.4	12810	12940	
2979-69	Nut 1 1/2 x 3/4	T	FRC	0.9	10.5	30.3	58.3	0.7	12930	13040	
2980-69	Slack 3/4 x 0	T	FRC	0.9	11.4	28.3	59.4	0.5	12780	12890	
				NUMBER 2 MINE							
2981-69	Screened + 1 1/2 sq	T	FRC	0.6	17.3	27.5	54.6	1.2	11820	11890	
2982-69	Fines 3/4 x 0	T	FRC	0.8	21.1	26.6	51.5	1.0	11270	11360	
				OPERATOR: CAPE BRETON DEVELOPMENT CORPORATION (DEVCO)							
				THORBURN MINING LTD.							
2998-69	Egg + 1 3/4 sq	T	FRC	2.1	17.8	27.6	52.5	0.6	11780	12040	
3167-69	Egg + 1 3/4 sq	T	FRC	1.9	15.3	27.6	55.2	0.6	12360	12600	
2971-69	Egg + 1 3/4 sq	T	FRC	1.9	17.7	27.4	53.0	0.5	11910	12140	

PROVINCE OF NOVA SCOTIA  
MAINLAND COAL FIELDS (CONTINUED)

Sample Number	Size Designation(in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
PICTOU COUNTY COAL FIELD				OPERATOR: CAPE BRETON DEVELOPMENT CORPORATION (DEVCO)								
				THORBURN MINING LTD.								
2999-69	Nut 1 3/4 x 3/4	T	FRC	2.0	17.3	27.8	52.9	0.5	11920	12160		
3168-69	Nut 1 3/4 x 3/4	T	FRC	1.7	14.8	27.9	55.6	0.6	12420	12640		
2972-69	Nut 1 3/4 x 3/4	T	FRC	2.0	16.9	27.4	53.7	0.5	12060	12300		
2973-69	Stoker 3/4 x 3/16	T	FRC	1.8	16.5	27.8	53.9	0.6	12070	12290		
3000-69	Stoker 3/4 x 3/16	T	FRC	2.1	17.6	27.4	52.9	0.5	11910	12160		
3169-69	Stoker 3/4 x 3/16	T	FRC	1.6	13.5	28.4	56.5	0.6	12640	12850		
2974-69	Washed Splint 1 1/2 x 0	T	FRC	1.5	32.0	24.7	41.8	0.6	9520	9670		
2977-69	Washed Splint 1 1/2 x 0	T	FRC	0.6	29.0	26.8	43.6	0.6	10020	10080		
3001-69	Washed Splint 1 1/2 x 0	T	FRC	2.0	20.5	26.9	50.6	0.5	11420	11650		
3209-69	N/S 2 x 0	D	DND	2.0	17.8	27.5	52.7	0.7	11890	12130	978	
3297-69	N/S 2 x 0	D	DND	5.3	17.4	25.9	51.4	0.6	11490	12130	353	
3299-69	N/S 2 x 0	D	DND	3.7	18.2	25.1	53.0	0.7	11610	12060	1038	
3314-69	N/S 2 x 0	D	DND	3.5	18.9	26.9	50.7	0.6	11480	11900	600	
3315-69	N/S 2 x 0	D	DND	5.7	18.6	26.1	49.6	0.6	11250	11920	603	
3337-69	N/S 2 x 0	D	DND	2.2	18.4	27.3	52.1	0.6	11810	12070	995	
3338-69	N/S 2 x 0	D	DND	2.0	18.6	27.0	52.4	0.7	11750	11990	997	
3368-69	N/S 2 x 0	D	DND	5.0	17.6	26.3	51.1	0.6	11490	12090	688	
3369-69	N/S 2 x 0	D	DND	4.3	18.2	26.0	51.5	0.6	11530	12050	1016	
3451-69	N/S 2 x 0	D	DND	4.0	18.1	26.2	51.7	0.7	11570	12050	1021	
3471-69	N/S 2 x 0	D	DND	4.4	18.6	26.1	50.9	0.5	11440	11970	933	
3552-69	N/S 2 x 0	D	DND	4.2	18.6	25.8	51.4	0.8	11480	11980	947	
2031-69	N/S 1 3/4 x 0	D	DND	5.0	13.1	27.7	54.2	0.5	12360	13010	973	
2169-69	N/S 1 3/4 x 0	D	DND	5.2	12.1	27.1	55.6	0.6	12540	13230	689	
2185-69	N/S 1 3/4 x 0	D	DND	4.3	11.8	27.0	56.9	0.7	12720	13290	303	
2202-69	N/S 1 3/4 x 0	D	DND	4.5	12.1	26.0	57.4	0.6	12660	13260	1001	
2315-69	N/S 1 3/4 x 0	D	DND	5.2	11.9	26.7	56.2	0.6	12500	13190	993	
2348-69	N/S 1 3/4 x 0	D	DND	2.4	13.9	27.5	56.2	0.8	12630	12950	944	
2459-69	N/S 1 3/4 x 0	D	DND	4.0	17.1	26.9	52.0	0.7	11800	12280	984	
2465-69	N/S 1 3/4 x 0	D	DND	4.1	13.9	26.8	55.2	0.5	12350	12880	359	

PROVINCE OF NOVA SCOTIA  
MAINLAND COAL FIELDS (CONTINUED)

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
PICTOU COUNTY COAL FIELD				OPERATOR: CAPE BRETON DEVELOPMENT CORPORATION (DEVCO)								
				THORBURN MINING LTD.								
2465-69	N/S 1 3/4 x 0	D	DND	4.1	13.9	26.8	55.2	0.5	12350	12880	359	
2476-69	N/S 1 3/4 x 0	D	DND	4.0	17.2	26.8	52.0	0.6	11760	12250	1016	
2558-69	N/S 1 3/4 x 0	D	DND	3.7	17.0	26.5	52.8	0.5	11850	12300	414	
2559-69	N/S 1 3/4 x 0	D	DND	4.1	17.9	26.8	51.2	0.5	11570	12070	1029	
2611-69	N/S 1 3/4 x 0	D	DND	4.2	16.6	27.0	52.2	0.6	11770	12290	1024	
2631-69	N/S 1 3/4 x 0	D	DND	3.9	17.4	27.0	51.7	0.5	11720	12200	884	
2632-69	N/S 1 3/4 x 0	D	DND	3.6	17.4	27.2	51.8	0.5	11810	12250	1017	
2635-69	N/S 1 3/4 x 0	D	DND	3.9	17.4	27.1	51.6	0.6	11710	12180	1041	
2681-69	N/S 1 3/4 x 0	D	DND	4.3	17.5	26.6	51.6	0.7	11670	12200	1026	
2734-69	N/S 1 3/4 x 0	D	DND	2.8	18.3	27.3	51.6	0.6	11760	12090	969	
2747-69	N/S 1 3/4 x 0	D	DND	4.1	17.1	27.2	51.6	0.6	11790	12290	901	
2848-69	N/S 1 3/4 x 0	D	DND	5.3	17.0	26.7	51.0	0.7	11640	12280	964	
3083-69	N/S 1 3/4 x 0	D	DND	4.2	17.1	27.1	51.6	0.6	11700	12220	971	
3084-69	N/S 1 3/4 x 0	D	DND	3.6	16.5	27.2	52.7	0.5	11870	12310	959	
3085-69	N/S 1 3/4 x 0	D	DND	2.3	17.5	26.9	53.3	0.6	12000	12280	994	
3137-69	N/S 1 3/4 x 0	D	DND	2.3	17.9	27.3	52.5	0.6	11860	12140	930	
3142-69	N/S 1 3/4 x 0	D	DND	3.5	17.8	27.2	51.5	0.6	11710	12140	980	
3159-69	N/S 1 3/4 x 0	D	DND	2.1	18.6	28.2	51.1	0.5	11760	12010	983	
3235-69	N/S 1 3/4 x 0	D	DND	3.8	19.4	25.9	50.9	0.7	11390	11840	1158	
3255-69	N/S 1 3/4 x 0	D	DND	3.5	18.4	26.6	51.5	0.7	11650	12070	1053	
3305-69	N/S 1 3/4 x 0	D	DND	5.0	18.2	25.9	50.9	0.7	11450	12060	984	
3474-69	N/S 1 3/4 x 0	D	DND	5.0	18.0	26.2	50.7	0.9	11430	12040	1002	
3495-69	N/S 1 3/4 x 0	D	DND	5.0	17.9	24.8	52.3	0.7	11460	12060	945	
3554-69	N/S 1 3/4 x 0	D	DND	5.0	17.0	26.3	51.7	0.7	11570	12170	1008	
2976-69	N/S 1 1/4 x 0	T	FRC	0.6	17.8	28.5	53.1	0.6	11860	11930		
3022-69	N/S 1 1/4 x 0	D	DND	1.9	17.8	27.5	52.8	0.7	11860	12090	958	
3023-69	N/S 1 1/4 x 0	D	DND	2.0	17.5	27.7	52.8	0.5	11940	12180	972	
3047-69	N/S 1 1/4 x 0	D	DND	2.2	17.8	27.8	52.2	0.5	11830	12100	963	
1048-69	N/S 1 1/4 x 0	D	DND	3.6	17.1	27.2	52.1	0.4	11760	12200	993	
2975-69	Fines 3/16 x 0	T	FRC	0.5	17.6	28.5	53.4	0.6	11850	11920		
3002-69	Fines 3/16 x 0	T	FRC	2.2	16.7	27.6	53.5	0.5	11970	12240		
3170-69	Fines 3/16 x 0	T	FRC	2.0	10.4	29.6	58.0	0.7	13030	13300		

PROVINCE OF NOVA SCOTIA  
MAINLAND GOAL FIELDS (CONTINUED)

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
CUMBERLAND COUNTY COAL FIELD				OPERATOR: SPRINGHILL COAL MINES LIMITED								
3275-69	Lump 6 x 1 1/2 slot	T	FRC	1.3	32.5	26.9	39.3	2.7	9230	9350		
3276-69	Stoker 1 1/2 x 3/8	T	FRC	1.6	23.6	28.9	45.9	2.6	10820	10990		
2015-69	P/S 3/4 x 1/4	D	Justice	2.4	23.5	29.0	45.1	2.9	10740	11000	612	
2101-69	P/S 3/4 x 1/4	D	Justice	2.0	20.8	28.1	49.1	2.2	11380	11610	439	
2237-69	P/S 3/4 x 1/4	D	Justice	4.8	19.8	28.3	47.1	2.4	10990	11550	661	
2350-69	P/S 3/4 x 1/4	D	Justice	2.7	16.8	30.1	50.4	2.3	11880	12200	368	
2499-69	P/S 3/4 x 1/4	D	Justice	3.0	20.1	29.7	47.2	2.3	11190	11540	611	
2661-69	P/S 3/4 x 1/4	D	Justice	1.8	21.7	29.0	47.5	2.3	11120	11320	606	
2865-69	P/S 3/4 x 1/4	D	Justice	2.4	24.8	28.3	44.5	2.6	10490	10750	318	
3388-69	P/S 3/4 x 1/4	D	Justice	2.3	23.6	28.1	46.0	2.7	10690	10940	125	
2034-69	N/S 1 1/4 x 0	D	Justice	6.6	23.5	26.6	43.3	2.5	10120	10840	262	
2447-69	N/S 1 1/4 x 0	D	Justice	4.7	23.7	27.6	44.0	2.6	10430	10940	300	
3277-69	Fines 3/8 slot x 0	T	FRC	2.3	20.8	29.5	47.4	2.6	10970	11230		
				RIVER HEBERT COAL CO., LTD.								
3271-69	Lump + 1 1/8	T	FRC	1.3	8.9	39.5	50.3	4.9	13300	13470		
3273-69	Lump + 1 1/8	Special	FRC	1.0	10.7	37.6	50.7	5.9	12950	13090		
3272-69	Slack 1 1/8 x 0	T	FRC	1.3	10.5	35.9	52.3	4.3	13080	13250		
3274-69	Slack 1 1/8 x 0	Special	FRC	1.1	12.3	35.0	51.6	4.4	12770	12910		
				PROVINCE OF NEW BRUNSWICK MINTO COAL FIELD BITUMINOUS								
				OPERATOR: N. B. COAL COMPANY LITTLE RIVER & NEW ENGLAND STRIP MINES FORMERLY OPERATED BY AVON COAL CO. LTD.								
3450-69	Mine Run	T	FRC	3.3	28.0	27.2	41.5	6.1	10270	10620		
				OPERATOR: N. B. COAL COMPANY FORMERLY OPERATED BY D.W. & R.A. MILLS LTD.								
2028-69	P/S 1 1/2 x 1/2	D	DND	1.6	13.7	34.2	50.5	6.5	12920	13140	130	
2189-69	P/S 1 1/2 x 3/8	D	DND	1.8	13.9	34.5	49.8	7.3	12940	13170	111	
2351-69	P/S 1 1/2 x 3/8	D	DND	1.4	13.8	34.2	50.6	6.4	12990	13170	93	
2593-69	P/S 1 1/2 x 3/8	D	DND	0.8	12.5	36.8	49.9	6.2	13310	13420	100	

PROVINCE OF NEW BRUNSWICK  
MINTO COAL FIELD  
BITUMINOUS (CONTINUED)

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		

OPERATOR: N.B. COAL COMPANY  
FORMERLY OPERATED BY D.W. & R.A. MILLS LTD.

3539-69	P/S 1 1/2 x 3/8	D	DND	1.4	14.6	33.9	50.1	7.2	12850	13030	94
2457-69	P/S 1 1/4 x 3/4	D	DND	1.5	11.6	12.6	74.3	0.7	13380	13580	71
2019-69	Pea	D	DPW	0.8	14.3	33.9	51.0	7.3	12900	13000	
2181-69	Pea	D	DPW	2.6	13.1	34.4	49.9	6.6	12890	13230	
3136-69	N/S 2 x 0	D	DND	1.0	16.5	33.7	48.8	6.6	12510	12640	142

OPERATOR: N.B. COAL COMPANY  
COAL CREEK MINE  
FORMERLY OPERATED BY MIDLAND MINING COMPANY

3449-69	Mine Run	T	FRC	4.2	24.4	27.7	43.7	8.7	10670	11140	
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PROVINCE OF SASKATCHEWAN  
SOURIS VALLEY DISTRICT

BIENFAIT AREA

OPERATOR: BATTLE RIVER COAL COMPANY LTD.  
KLIMAX MINE

3207-69	P/S 1 x 1/2	D	DND	32.6	6.2	27.2	34.0	0.4	7790	11550	59
3278-69	P/S 1 x 1/2	D	DND	32.5	7.6	27.6	32.3	0.6	7480	11070	63

PROVINCE OF ALBERTA  
SEMI ANTHRACITE--LOW VOLATILE BITUMINOUS

CASCADE AREA

OPERATOR: THE CANMORE MINES LTD.  
MINE NUMBER 2

2039-69	Lump 5 x 2	D	DND	2.9	6.7	12.0	78.4	0.7	14080	14500	685
2172-69	Lump 5 x 2	D	DND	8.0	8.2	12.2	71.6	0.8	13030	14170	41
2035-69	Stove	D	DND	1.4	4.8	11.3	82.5	0.9	14600	14820	26
2556-69	Stove	D	DND	1.7	6.5	15.1	76.7	0.9	14150	14400	19
2016-69	P/S 1 1/4 x 1/4	D	DND	3.5	6.0	12.5	78.0	0.8	14090	14600	362
2036-69	P/S 1 1/4 x 1/4	D	DND	4.1	7.1	12.0	76.8	0.7	13760	14350	151
2037-69	P/S 1 1/4 x 1/4	D	DND	4.1	7.2	13.9	74.8	0.8	13780	14360	45
2038-69	P/S 1 1/4 x 1/4	D	DND	4.9	6.6	13.2	75.3	0.7	13630	14330	77
2170-69	P/S 1 1/4 x 1/4	D	DND	4.1	7.9	14.7	73.3	0.8	13810	14400	353
2171-69	P/S 1 1/4 x 1/4	D	DND	3.1	8.7	13.6	74.6	0.9	13820	14270	130
2033-69	P/S 1 1/4 x 1/4	D	DND	4.8	6.5	12.9	75.8	0.7	13820	14520	1/2
2240-69	P/S 1 1/4 x 1/4	D	DND	3.3	7.5	13.2	76.0	0.8	13950	14430	49

PROVINCE OF ALBERTA  
SEMI ANTHRACITE--LOW VOLATILE BITUMINOUS

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
CASCADE AREA				OPERATOR: THE CANMORE MINES LTD. MINE NUMBER 2								
2260-69	P/S 1 1/4 x 1/4	D	DND	4.5	6.8	13.8	74.9	0.7	13830	14480	98	
2271-69	P/S 1 1/4 x 1/4	D	DND	6.3	7.4	15.5	70.9	0.7	13180	14060	71	
2357-69	P/S 1 1/4 x 1/4	D	DND	5.2	8.5	15.4	70.9	0.7	13300	14030	84	
2362-69	P/S 1 1/4 x 1/4	D	DND	0.7	7.7	12.6	79.0	0.8	14360	14460	139	
2363-69	P/S 1 1/4 x 1/4	D	DND	0.4	6.4	13.6	79.6	0.8	14640	14690	37	
2364-69	P/S 1 1/4 x 1/4	D	DND	0.9	8.1	14.1	76.9	0.9	14290	14410	229	
2365-69	P/S 1 1/4 x 1/4	D	DND	0.4	7.9	15.1	76.6	0.8	14370	14430	58	
2366-69	P/S 1 1/4 x 1/4	D	DND	0.9	8.2	12.6	78.3	0.9	14160	14280	462	
2367-69	P/S 1 1/4 x 1/4	D	DND	0.6	6.7	12.9	79.8	0.9	14470	14560	204	
2550-69	P/S 1 1/4 x 1/4	D	DND	3.6	8.1	13.7	74.6	0.8	13660	14170	71	
2551-69	P/S 1 1/4 x 1/4	D	DND	2.2	10.0	12.2	75.6	0.8	13670	13980	159	
2552-69	P/S 1 1/4 x 1/4	D	DND	2.2	8.7	13.6	75.5	0.9	13800	14110	23	
2553-69	P/S 1 1/4 x 1/4	D	DND	1.4	9.0	12.8	76.8	0.8	13900	14090	61	
2555-69	P/S 1 1/4 x 1/4	D	DND	4.7	9.2	14.7	71.4	0.8	13110	13760	83	
2557-69	P/S 1 1/4 x 1/4	D	DND	1.5	11.6	12.6	74.3	0.7	13380	13580	331	
2663-69	P/S 1 1/4 x 1/4	D	DND	1.2	8.6	13.1	77.1	0.8	13930	14090	48	
2664-69	P/S 1 1/4 x 1/4	D	DND	8.5	9.0	19.4	63.1	0.7	12200	13340	103	
2679-69	P/S 1 1/4 x 1/4	D	DND	4.7	8.7	13.4	73.2	0.8	13410	14060	49	
2881-69	P/S 1 1/4 x 1/4	D	DND	1.5	8.5	13.5	76.5	0.8	13950	14160	70	
2891-69	P/S 1 1/4 x 1/4	D	DND	2.8	8.3	14.3	74.6	0.8	13630	14030	94	
3173-69	P/S 1 1/4 x 1/4	D	DND	1.2	6.6	12.7	79.5	0.9	14260	14430	15	
3174-69	P/S 1 1/4 x 1/4	D	DND	0.9	10.1	12.3	76.7	0.8	13720	13850	7	
3175-69	P/S 1 1/4 x 1/4	D	DND	0.7	8.4	13.1	77.8	0.8	14010	14120	7	
3176-69	P/S 1 1/4 x 1/4	D	DND	0.6	7.9	12.7	78.8	0.9	14100	14190	61	
3236-69	P/S 1 1/4 x 1/4	D	DND	0.6	7.9	12.7	78.8	0.6	11290	12930	36	
3237-69	P/S 1 1/4 x 1/4	D	DND	1.6	7.2	13.7	77.5	0.9	14060	14300	108	
3336-69	P/S 1 1/4 x 1/4	D	DND	2.4	7.0	12.6	78.0	0.9	14050	14390	36	
3429-69	P/S 1 1/4 x 1/4	D	DND	3.5	6.6	11.7	78.2	0.8	13970	14480	138	
3551-69	P/S 1 1/4 x 1/4	D	DND	4.4	9.9	12.2	73.5	0.8	13330	13950	155	
3006-69	P/S 2 x 1/4	D	DND	2.5	6.7	12.9	77.9	0.6	14060	14420	121	
3145-69	P/S 2 x 1/4	D	DND	1.1	8.5	13.0	77.4	0.7	13980	14130	107	



PROVINCE OF ALBERTA  
SUBBITUMINOUS

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
ARDLEY AREA				OPERATOR: SISSONS R.C. MINE NUMBER 809								
2212-69	West Pit	M	FRC	7.1	10.5	31.3	51.1	0.4	10430	11230		
2213-69	East Pit	M	FRC	18.8	11.5	27.1	42.6	0.5	8930	11000		
CAMROSE AREA				OPERATOR: BURNSTAD COAL LTD. MINE NUMBER 1724								
2226-69	Channel Sample	M	FRC	28.7	5.4	27.4	38.5	0.4	8070	11310		
CASTOR AREA				OPERATOR: FORESTBURG COLLIERIES LIMITED MINE NUMBER 1578								
2220-69	Lump + 4 1/2	T	FRC	24.5	5.6	29.2	40.7	0.4	8800	11670		
2221-69	Egg 4 1/2 x 2	T	FRC	23.7	5.2	29.3	41.8	0.5	9110	11950		
2990-69	Egg or Stove 4 1/2 x 1	D	DND	21.6	6.6	30.4	41.4	0.5	9200	11740	41	
2222-69	Nut 2 x 1	T	FRC	25.4	5.6	29.4	39.6	0.4	8770	11750		
2223-69	Stoker 1 x 1/2	T	FRC	25.1	5.4	26.9	42.6	0.5	9250	12340		
2224-69	Slack 1/2 x 0	T	FRC	35.2	5.2	24.6	35.0	0.3	7530	11620		
				OPERATOR: STETTLER COAL COMPANY MINE NUMBER 1614								
2219-69	Channel Sample	M	FRC	23.5	7.5	30.0	39.0	0.4	8850	11580		
PEMBINA AREA				OPERATOR: ALBERTA COAL LTD. MINE NUMBER 1757								
2228-69	Feed to Calgary Pwr	T	FRC	21.5	13.3	25.2	40.0	0.3	8120	10340		
SHEERNESS AREA				OPERATOR: BATTLE RIVER COAL COMPANY MINE NUMBER 443								
2214-69	Lump + 4 1/2	T	FRC	27.1	6.1	27.8	39.0	0.3	8670	11900		
2215-69	Egg 4 1/2 x 2	T	FRC	21.8	7.2	29.5	41.5	0.4	9110	11660		
2217-69	Stoker 1 1/4 x 5/8	T	FRC	24.7	7.2	28.4	39.7	0.4	8780	11660		
2216-69	Nut 2 x 1 1/4	T	FRC	22.8	7.1	29.6	40.5	0.4	8990	11650		
2218-69	Slack 5/8 x 0	T	FRC	22.8	9.5	28.7	39.0	0.5	8680	11240		
TOFIELD AREA				OPERATOR: JET CONSTRUCTION LTD. MINE NUMBER 215								
2225-69	Channel Sample	M	FRC	23.9	8.0	27.3	40.8	0.4	8750	11490		
WESTLOCK AREA				OPERATOR: NORTH POINT COAL COMPANY LIMITED MINE NUMBER 1562								
2227-69	Channel Sample	M	FRC	30.1	5.4	28.0	36.5	0.3	7930	11340		

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.

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
STATE OF KENTUCKY												
MINE, BED, OR TRADE NAME: ELKHORN NO. 3 BED												
3503-69	P/S 1 x 1/8	D	DND	2.2	4.5	36.5	56.7	0.8	14020	14340	6	
MINE, BED, OR TRADE NAME: LEATHERWOOD												
3502-69	Egg 5 x 2	D	DND	2.1	3.1	34.9	59.9	0.7	14190	14490	66	
3548-69	P/S 1 1/4 x 1/4	D	DPW	2.1	5.9	37.2	54.8	0.9	13840	14130	40	
3549-69	P/S 1 1/4 x 1/4	D	DPW	2.1	5.4	36.6	55.9	0.8	13890	14200	40	
MINE, BED, OR TRADE NAME: OAK LEAF												
3233-69	P/S 2 x 1/4	D	DND	2.9	12.4	30.8	53.9	1.1	12680	13060	386	
3234-69	P/S 2 x 1/4	D	DND	2.8	12.1	32.0	53.1	1.0	12670	13040	275	
3144-69	P/S 3/4 x 1/4	D	DND	3.4	12.4	31.3	52.9	1.3	12570	13000	386	
3301-69	N/S 2 x 0	D	DND	2.6	11.6	30.2	55.6	1.2	12830	13170	275	
3306-69	N/S 2 x 0	D	DND	4.9	9.7	35.8	49.6	1.6	12580	13220	823	
STATE OF PENNSYLVANIA												
MINE, BED, OR TRADE NAME: APEX												
COUNTY OR TOWN: REESDALE												
2032-69	N/S 2 x 0	D	DND	4.8	11.0	34.8	49.4	2.6	12560	13200	241	
2105-69	N/S 2 x 0	D	DND	5.5	9.1	36.5	48.9	2.7	12800	13550	776	
2262-69	N/S 2 x 0	D	DND	5.9	8.9	35.3	49.9	2.6	12670	13460	870	
2356-69	N/S 2 x 0	D	DND	5.4	8.9	35.9	49.8	2.7	12940	13680	637	
2554-69	N/S 2 x 0	D	DND	4.8	9.6	36.4	49.2	2.6	12850	13500	654	
2844-69	N/S 2 x 0	D	DND	4.3	9.8	37.4	48.5	2.3	12730	13300	398	
3307-69	N/S 2 x 0	D	DND	4.8	10.1	36.1	49.0	2.8	12710	13350	580	
MINE, BED, OR TRADE NAME: CADOGAN												
2155-69	N/S 2 x 0	D	DND	4.1	9.0	36.3	50.6	2.5	13190	13750	1082	
2332-69	N/S 2 x 0	D	DND	6.1	12.7	30.2	51.0	1.9	12220	13010	929	
2460-69	N/S 2 x 0	D	DND	3.9	9.0	34.2	52.9	2.0	13090	13620	1005	
2612-69	N/S 2 x 0	D	DND	6.0	10.2	33.8	50.0	1.8	12600	13410	1010	
2868-69	N/S 2 x 0	D	DND	6.0	11.8	32.4	49.8	2.6	12230	13010	841	

IMPORTED COAL (CONTINUED)

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
MINE, BED, OR TRADE NAME: CALLAGHAN												
2156-69	N/S 2 x 0	D	DND	7.3	11.5	30.5	50.7	1.6	11950	12900	840	
2333-69	N/S 2 x 0	D	DND	4.9	10.3	33.6	51.2	2.3	12740	13400	984	
2461-69	N/S 2 x 0	D	DND	7.1	11.0	31.4	50.5	1.4	11980	12890	898	
2613-69	N/S 2 x 0	D	DND	10.3	10.5	30.8	48.4	1.0	11380	12700	972	
2869-69	N/S 2 x 0	D	DND	8.4	11.6	30.7	49.3	1.3	11660	12730	808	
MINE, BED, OR TRADE NAME: DELL												
2294-69	N/S 2 x 0	D	DND	9.0	7.7	31.7	51.6	1.0	12250	13470	208	
MINE, BED, OR TRADE NAME: GRIER-ELLISON												
2293-69	N/S 2 x 0	D	DND	4.0	9.2	33.1	53.7	0.9	13100	13640	193	
3499-69	N/S 2 x 0	D	DND	5.4	8.9	32.9	52.8	1.0	12540	13260	147	
MINE, BED, OR TRADE NAME: MARGARET												
3432-69	N/S 2 x 0	D	DND	6.7	10.7	32.4	50.2	2.0	12390	13280	531	
3496-69	N/S 2 x 0	D	DND	5.3	16.0	28.2	50.5	1.2	11900	12570	415	
MINE, BED, OR TRADE NAME: MINNS												
2165-69	N/S 2 x 0	D	DND	4.3	11.5	32.4	51.8	3.2	12720	13290	343	
2201-69	N/S 2 x 0	D	DND	5.3	12.0	33.3	49.4	3.7	12420	13110	433	
MINE, BED, OR TRADE NAME: PILGRIM												
3500-69	N/S 2 x 0	D	DND	5.3	13.9	29.5	51.3	1.5	11730	12380	108	
3501-69	N/S 2 x 0	D	DND	5.8	12.4	31.1	50.7	1.9	11840	12570	235	
MINE, BED, OR TRADE NAME: RED RANGER												
3316-69	P/S 1 x 1/8	D	DND	2.9	5.6	38.6	52.9	1.3	13780	14200	8	
3317-69	P/S 1 x 1/8	D	DND	2.7	6.6	39.3	51.4	1.8	13630	14000	6	
STATE OF WEST VIRGINIA												
COUNTY OR TOWN: McDOWELL						MINE, BED, OR TRADE NAME: ALGOMA						
2068-69	P/S 1 x 1/8	D	DND	1.7	6.8	31.6	59.9	1.3	14170	14410	93	
3253-69	P/S 1 x 1/8	D	DND	1.7	7.4	33.0	57.9	1.0	13800	14040	69	

IMPORTED COAL (CONTINUED)

Sample Number	Size Designation (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
STATE OF WEST VIRGINIA												
MINE, BED, OR TRADE NAME: BADGER												
3430-69	P/S 1 1/4 x 3/4	D	DND	1.4	9.2	31.6	57.8	1.4	13850	14050	178	
2682-69	P/S 3/4 x 1/4	D	DND	3.4	7.0	32.7	56.9	1.1	13920	14400	10	
MINE, BED, OR TRADE NAME: ELM GROVE												
2183-69	P/S 2 x 1/8	D	DND	3.8	6.9	39.0	50.3	2.9	13400	13920	589	
MINE, BED, OR TRADE NAME: MCGREGOR												
2292-69	Egg	D	DND	0.9	6.0	37.0	56.1	0.9	14400	14520	69	
MINE, BED, OR TRADE NAME: OMAR												
2017-69	P/S 2 x 1/4	D	DND	3.2	4.7	35.4	56.7	0.9	14120	14590	18	
2104-69	P/S 2 x 1/4	D	DND	2.7	4.8	35.6	56.9	0.9	14250	14640	51	
2231-69	P/S 2 x 1/4	D	DND	2.7	4.6	35.1	57.6	0.8	14290	14690	24	
2313-69	P/S 2 x 1/4	D	DND	3.7	5.1	35.7	55.5	1.0	14010	14550	46	
2477-69	P/S 2 x 1/4	D	DND	4.3	5.0	34.8	55.9	0.8	13930	14550	28	
3231-69	P/S 2 x 1/4	D	DND	3.0	4.6	38.3	54.1	1.1	13840	14270	32	
MINE, BED, OR TRADE NAME: O'DONNELL												
3396-69	P/S 1 1/4 x 1/4	D	DND	3.4	6.8	39.3	50.5	2.7	13690	14170	47	
2070-69	P/S 1 1/4 x 1/8	D	DND	2.8	7.0	39.6	50.6	2.8	13800	14200	331	
2263-69	P/S 1 1/4 x 1/8	D	DND	1.9	7.6	39.7	50.8	3.1	13730	14000	458	
2200-69	P/S 1 x 1/8	D	DND	1.8	7.0	37.0	54.2	2.3	13930	14180	129	
2452-69	P/S 1 x 1/8	D	DND	2.5	8.3	36.9	52.3	2.0	13470	13820	62	

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