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Mines Branch Information Circular IC 275

ANALYSES OF COAL DURING 1970

by

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

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 tenth of an annual series, tabulates the analyses of coal samples analyzed by the Centre during 1970.

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
DPW	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 275

ANALYSES DE CHARBON EN 1970

par

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

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 deuxième d'une série qui doit paraître annuellement, traite des analyses d'échantillons de charbon analysés par le Centre au cours de 1970.

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
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	Grible 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	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Approximate 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)								
				NEW LINGAN MINE								
3399-70	Bulk Channel	M	FRC	5.4	4.3	37.5	52.8	3.1	13480	14240		
3468-70	Bulk Channel	M	FRC	5.0	5.0	37.2	52.8	2.6	13750	14470		
				COLLIERY: NUMBER 12								
2152-70	Screen	T	FRC	0.9	5.8	36.2	57.1	2.0	14650	14780		
3283-70	Screened + 2 sq	T	FRC	0.9	7.2	35.7	56.2	1.40	14210	14330		
3285-70	Regular Slack -2	T	FRC	0.8	5.3	35.5	58.4	2.4	14660	14780		
3284-70	Special Slack -2	T	FRC	0.8	8.2	34.3	56.7	3.4	14220	14330		
2424-70	N/S -2	D	DND	2.0	8.5	33.8	55.7	2.4	13920	14200	1052	
2577-70	N/S -2	D	DND	2.3	9.0	33.6	55.1	2.9	13780	14090	472	
3428-70	N/S -2	D	DND	2.1	7.4	34.4	56.1	2.4	14010	14310	1031	
2153-70	Slack	T	FRC	1.7	9.3	34.4	54.6	2.4	13660	13900		
2384-70	Fines - 1/4	T	FRC	1.0	6.1	34.6	58.3	2.5	14460	14610		
3286-70	Fines - 1/4	T	FRC	0.9	5.4	35.1	58.6	2.7	14540	14670		
3297-70	Fines - 1/4	T	FRC	0.8	9.0	33.9	56.3	2.5	13890	14010		
				COLLIERY: NUMBER 20								
2020-70	Slack - 1 1/2	T	FRC	0.9	3.9	37.0	58.2	2.9	14670	14800		
2210-70	Slack - 1 1/2	D	DFW	8.5	4.9	37.6	49.0	2.6	12300	13450		
2251-70	Slack - 1 1/2	T	FRC	0.9	4.2	36.8	58.1	3.0	14620	14760		
2383-70	Slack - 1 1/2	T	FRC	1.0	4.4	32.5	62.1	2.9	14580	14740		
3282-70	Slack - 1 1/2	T	FRC	1.0	6.1	36.2	56.7	3.1	14310	14450		
3296-70	Slack - 1 1/2	T	FRC	0.8	6.4	36.3	56.5	2.9	14290	14400		
				COLLIERY: NUMBER 26								
3279-70	Screened + 4	T	FRC	1.1	2.7	36.6	59.6	0.8	14980	15160		
3361-70	Egg + 1 3/4	T	FRC	0.6	2.8	36.4	60.2	1.0	14940	15020		
3362-70	Nut 1 3/4 to 3/4	T	FRC	0.5	2.6	35.9	61.1	1.1	14970	15040		
2014-70	Nut & Fines	T	FRC	1.0	5.7	33.5	59.8	1.2	14390	14540		
3365-70	Fines - 1/4	T	FRC	0.9	3.6	35.4	60.1	1.2	14740	14860		
2013-70	Pea 3/4 to 5/16 slot	T	FRC	1.0	3.5	36.4	59.1	2.1	14780	14940		
2254-70	Pea 3/4 to 5/16 slot	T	FRC	1.1	4.1	34.0	60.8	1.0	14650	14810		
3281-70	Pea 3/4 to 5/16	T	FRC	1.2	6.7	34.5	57.6	1.0	14150	14320		
3364-70	Pea 3/4 to 1/4	T	FRC	0.8	2.3	35.6	61.3	0.8	14990	15120		
3280-70	Slack - 4	T	FRC	1.2	2.8	35.8	60.2	0.8	14870	15050		
2011-70	Screen + 1 1/4 slot	T	FRC	1.0	4.9	36.1	58.0	2.1	14590	14740		
2252-70	Screen + 1 1/4 slot	T	FRC	1.1	3.8	34.2	60.9	1.8	14730	14890		
3363-70	Coarse Slack - 1 3/4	T	FRC	0.8	3.3	35.0	60.9	0.8	14830	14950		
2012-70	Slack - 1 1/4	T	FRC	1.1	3.2	35.8	59.9	1.8	14750	14920		
2253-70	Slack - 1 1/4	T	FRC	1.6	5.3	32.8	60.3	1.1	14370	14590		

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

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Approximate 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 (CONT'D) (DEVCO)								
				COLLIERY: PRINCESS								
2015-70	Egg + 1 3/4	T	FRC	0.8	6.0	39.1	54.1	4.1	14330	14450		
2341-70	Egg + 1 3/4	T	FRC	0.9	6.8	37.8	54.5	3.5	14130	14260		
3413-70	Egg + 1 3/4	T	FRC	1.0	3.8	38.4	56.8	2.2	14630	14780		
2016-70	Nut 1 3/4 to 1/4 slot	T	FRC	1.0	5.3	37.4	56.3	3.0	14400	14540		
2342-70	Nut 1 3/4 to 3/4	T	FRC	1.0	5.5	38.0	55.5	3.2	14390	14530		
3518-70	Nut 1 3/4 to 3/4	D	DND	3.3	3.8	36.6	56.3	1.9	14310	14800	63	
3530-70	Nut 1 3/4 to 3/4	D	DND	1.6	4.2	35.6	58.6	1.8	14530	14760	71	
2017-70	Pea 3/4 to 1/4	T	FRC	1.0	4.6	38.6	55.8	3.2	14500	14640		
2344-70	Pea 3/4 to 1/4	T	FRC	1.2	14.5	33.7	50.6	2.8	12800	12950		
3415-70	Pea 3/4 to 1/4	T	FRC	1.2	3.0	38.4	57.4	1.8	14710	14890		
2343-70	Coarse Slack - 1 3/4	T	FRC	1.2	14.3	34.8	49.7	3.2	12890	13040		
3270-70	N/S - 2	D	DND	1.4	6.9	35.8	55.9	3.4	14190	14390	69	
2029-70	Slack - 3/4	D	DND	3.5	11.3	33.6	51.6	2.5	13090	13570	992	
2123-70	Slack - 3/4	D	DND	2.6	17.6	32.3	47.5	2.9	12040	12360	990	
2137-70	Slack - 3/4	D	DND	4.8	7.5	31.9	55.8	1.7	13540	14220	968	
2188-70	Slack - 3/4	D	DND	4.1	20.0	30.9	45.0	2.8	11560	12060	977	
2189-70	Slack - 3/4	D	DND	4.3	25.2	29.0	41.5	2.4	10530	11000	964	
2194-70	Slack - 3/4	D	DND	2.5	13.0	33.7	50.8	2.6	12950	13280	989	
2212-70	Slack - 3/4	D	DND	3.5	20.4	31.5	44.6	3.1	11520	11940	984	
2018-70	Slack - 3/4	T	FRC	1.3	6.9	37.1	54.7	3.3	14000	14170		
2136-70	Slack - 3/4	D	DND	4.2	14.1	32.9	48.8	2.7	12240	12780	940	
2234-70	Slack - 3/4	D	DND	4.4	17.5	31.4	46.7	2.8	11890	12440	925	
2280-70	Slack - 3/4	D	DND	3.4	14.4	33.6	48.6	2.9	12570	13010	973	
2335-70	Slack - 3/4	D	DND	4.1	14.8	33.1	48.0	2.8	12460	12990	958	
2356-70	Slack - 3/4	D	DND	3.2	11.4	33.6	51.8	2.8	13130	13560	1003	
2408-70	Slack - 3/4	D	DND	3.5	18.0	33.0	45.5	2.7	12100	12530	962	
2454-70	Slack - 3/4	D	DND	3.7	12.2	32.1	52.0	2.5	12910	13410	985	
2511-70	Slack - 3/4	D	DND	3.8	12.4	33.8	50.0	2.9	12820	13330	990	
2538-70	Slack - 3/4	D	DND	3.0	13.0	33.4	50.6	2.2	12890	13290	948	
2573-70	Slack - 3/4	D	DND	3.1	7.0	32.8	57.1	2.7	13400	13820	642	
3382-70	Slack - 3/4	D	DND	4.3	13.1	32.6	50.0	2.9	12670	13230	995	
3425-70	Slack - 3/4	D	DND	5.2	15.4	31.6	47.8	2.3	12090	12750	970	
3472-70	Slack - 3/4	D	DND	4.6	9.6	32.9	52.9	1.7	13050	13680	938	
3523-70	Slack - 3/4	D	DND	4.8	12.7	31.5	51.0	2.1	12710	13350	1000	
3591-70	Slack - 3/4	D	DND	4.8	9.7	34.1	51.4	2.0	12990	13650	985	
3598-70	Slack - 3/4	D	DND	4.8	12.9	32.2	50.1	1.6	12520	13150	949	
				COLLIERY: PRINCESS AND DOMINION								
2337-70	Egg + 1 3/4	T	FRC	0.8	7.6	36.1	55.5	3.1	14140	14250		

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

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Approximate 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 (CONT'D) (DEVCO)								
				COLLIERY: PRINCESS AND DOMINION (CONT'D)								
2338-70	Nut 1 3/4 to 3/4	T	FRC	0.9	6.2	36.2	56.7	3.1	14310	14440		
2339-70	Pea 3/4 to 1/4	T	FRC	1.0	4.5	38.2	56.3	3.0	14560	14710		
2340-70	Fines - 1/4	T	FRC	1.3	13.3	34.9	50.5	3.0	13190	13360		
2019-70	Fines - 1/4	T	FRC	2.1	8.8	35.8	53.3	3.2	13470	13760		
2345-70	Fines - 1/4	T	FRC	1.0	3.5	36.8	58.7	3.0	14580	14730		
3416-70	Fines - 1/4	T	FRC	1.0	12.3	34.1	52.6	1.8	12640	12760		
				OPERATOR: CAPE BRETON DEVELOPMENT CORPORATION (DEVCO)								
				COLLIERY: VARIOUS COLLIERIES OPERATED BY DEVCO IN THE SYDNEY COAL FIELD								
2030-70	N/S - 2	D	DND	2.3	11.5	33.3	52.9	2.8	13360	13660	1004	
2031-70	N/S - 2	D	DND	4.2	8.6	33.0	54.2	2.4	13470	14050	798	
2040-70	N/S - 2	D	DND	3.0	6.2	33.9	56.9	1.7	14010	14450	1000	
2041-70	N/S - 2	D	DND	3.2	7.6	33.1	56.1	2.1	13780	14240	188	
2042-70	N/S - 2	D	DND	2.8	7.1	33.3	56.8	2.0	13940	14340	742	
2043-70	N/S - 2	D	DND	3.3	7.7	33.5	55.5	2.1	13780	14250	186	
2044-70	N/S - 2	D	DND	1.0	8.0	34.4	56.6	2.4	14090	14230	278	
2062-70	N/S - 2	D	DND	4.2	6.7	32.4	56.7	1.4	13700	14300	1032	
2064-70	N/S - 2	D	DND	4.6	6.9	33.1	55.4	1.9	13770	14430	994	
2157-70	N/S - 2	D	DND	2.7	8.9	33.5	54.9	2.7	13680	14070	946	
2161-70	N/S - 2	D	DND	3.3	6.5	33.8	56.4	1.6	13950	14420	676	
2165-70	N/S - 2	D	DND	3.3	5.5	33.9	57.3	1.9	14100	14590	824	
2166-70	N/S - 2	D	DND	5.4	5.1	33.2	56.3	1.8	13840	14630	351	
2167-70	N/S - 2	D	DND	2.0	7.3	34.0	56.7	2.1	13980	14270	247	
2168-70	N/S - 2	D	DND	3.4	6.3	33.6	56.7	1.9	13950	14440	209	
2187-70	N/S - 2	D	DND	2.2	7.4	33.4	57.0	1.8	13990	14300	910	
2215-70	N/S - 2	D	DND	10.7	6.5	30.7	52.1	2.1	12820	14360	829	
2228-70	N/S - 2	D	DND	2.1	6.0	33.6	58.3	2.0	14170	14470	216	
2230-70	N/S - 2	D	DND	2.5	6.4	33.1	58.0	1.9	14050	14410	1024	
2231-70	N/S - 2	D	DND	3.1	8.1	33.1	55.7	2.4	13760	14190	827	
2236-70	N/S - 2	D	DND	1.7	5.9	34.6	57.8	2.2	14290	14540	650	
2258-70	N/S - 2	D	DND	3.0	6.3	32.7	58.0	1.8	14040	14470	1062	
2283-70	N/S - 2	D	DND	2.5	6.8	33.3	57.4	2.0	14030	14390	804	
2333-70	N/S - 2	D	DND	2.2	8.7	33.3	55.8	2.4	13850	14160	973	
2334-70	N/S - 2	D	DND	1.7	7.1	33.2	58.0	1.9	14090	14340	216	
2357-70	N/S - 2	D	DND	4.8	6.9	33.2	55.1	1.9	13670	14360	192	
2358-70	N/S - 2	D	DND	4.6	8.3	33.3	53.8	2.5	13550	14200	194	
2414-70	N/S - 2	D	DND	2.8	7.4	33.2	56.6	2.0	13990	14380	654	
2420-70	N/S - 2	D	DND	3.4	8.3	34.0	54.3	2.5	13750	14240	818	

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

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received							Dry		Approximate 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 (CONT'D) (DEVCO)									
				COLLIERY: VARIOUS COLLIERIES OPERATED BY DEVCO IN THE SYDNEY COAL FIELD (CONT'D)									
2421-70	N/S - 2	D	DND	6.1	7.2	31.6	55.1	2.3	13490	14370	747		
2426-70	N/S - 2	D	DND	1.6	8.1	32.8	57.5	2.4	13960	14190	661		
2446-70	N/S - 2	D	DND	6.0	8.0	31.6	54.4	2.1	13360	14210	953		
2453-70	N/S - 2	D	DND	2.8	8.0	32.9	56.3	2.0	13820	14220	186		
2456-70	N/S - 2	D	DND	2.6	7.9	33.8	55.7	2.5	13880	14250	668		
2457-70	N/S - 2	D	DND	2.3	8.1	33.8	55.8	2.4	13870	14190	168		
2505-70	N/S - 2	D	DND	1.2	6.6	34.5	57.7	2.4	14330	14510	718		
2506-70	N/S - 2	D	DND	1.9	9.6	34.1	54.4	2.6	13750	14010	1020		
2546-70	N/S - 2	D	DND	3.6	9.0	31.9	55.5	2.3	13350	13840	689		
2567-70	N/S - 2	D	DND	1.6	8.5	33.4	56.5	3.0	13910	14130	110		
2568-70	N/S - 2	D	DND	1.1	8.5	30.4	60.0	3.0	13920	14080	505		
2575-70	N/S - 2	D	DND	2.5	8.0	30.5	59.0	2.4	13870	14220	161		
2576-70	N/S - 2	D	DND	1.9	7.3	34.4	56.4	2.5	14030	14310	809		
2578-70	N/S - 2	D	DND	3.5	9.7	33.4	53.4	3.0	13380	13870	649		
2633-70	N/S - 2	D	DND	2.6	9.2	33.8	54.4	2.5	13610	13980	766		
2917-70	N/S - 2	D	DND	1.8	10.6	34.1	53.5	2.4	13560	13810	417		
2954-70	N/S - 2	D	DND	2.7	8.5	34.0	54.8	2.4	13680	14060	523		
3170-70	N/S - 2	D	DND	2.5	8.7	33.2	55.6	3.0	13550	13890	300		
3255-70	N/S - 2	D	DND	4.1	10.0	32.6	53.3	4.1	13130	13690	68		
3268-70	N/S - 2	D	DND	2.6	7.3	34.4	55.7	1.8	13900	14260	680		
3269-70	N/S - 2	D	DND	2.8	9.9	33.3	54.0	2.9	13400	13780	904		
3354-70	N/S - 2	D	DND	2.0	8.2	33.7	56.1	2.3	13850	14130	998		
3371-70	N/S - 2	D	DND	2.0	10.2	33.6	54.2	3.3	13680	13950	510		
3424-70	N/S - 2	D	DND	2.2	7.7	34.1	56.0	2.5	13820	14130	887		
3436-70	N/S - 2	D	DND	2.4	9.9	32.9	54.8	2.5	13490	13830	609		
3437-70	N/S - 2	D	DND	3.6	10.0	33.0	53.4	2.3	13390	13880	398		
3440-70	N/S - 2	D	DND	1.5	10.0	34.1	54.4	2.1	13680	13890	97		
3471-70	N/S - 2	D	DND	2.2	9.7	33.9	54.2	2.0	13580	13880	895		
3514-70	N/S - 2	D	DND	4.3	11.6	30.1	54.0	1.1	12870	13450	300		
3516-70	N/S - 2	D	DND	1.8	8.8	33.6	55.8	2.5	13740	14000	710		
3522-70	N/S - 2	D	DND	2.8	7.2	33.5	56.5	2.1	13890	14290	207		
3525-70	N/S - 2	D	DND	6.1	8.1	31.0	54.8	1.9	13240	14100	682		
3526-70	N/S - 2	D	DND	1.6	8.3	34.2	55.9	2.5	13960	14190	762		
3528-70	N/S - 2	D	DND	2.5	9.2	32.5	55.8	2.0	13550	13900	135		
3595-70	N/S - 2	D	DND	4.3	9.3	33.3	53.2	2.3	13340	13930	426		
3596-70	N/S - 2	D	DND	2.6	11.7	32.7	53.0	2.2	13360	13710	691		
3414-70	Nut 1 3/4 to 3/4	T	FRC	1.0	3.3	38.5	57.2	2.2	14590	14750			
3372-70	Pea 3/4 to 1/4	D	DND	1.9	10.4	32.6	55.1	1.0	13480	13750	301		
3373-70	Pea 3/4 to 1/4	D	DND	2.2	9.8	32.4	55.6	1.0	13470	13770	310		
3597-70	Pea 3/4 to 1/4	D	DND	2.8	3.2	37.1	56.9	1.7	14500	14920	272		
3250-70	P/S 1 1/4 to 1/4	D	DND	2.6	4.2	38.1	55.1	2.9	14350	14730	938		

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

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Approximate 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								
3226-70	Med. Lump	T	FRC	4.6	8.2	36.9	50.3	6.5	12280	12870		
3227-70	Nut	T	FRC	4.4	10.4	35.2	50.0	6.5	12130	12680		
3229-70	Stoker	T	FRC	4.4	10.5	35.1	50.0	6.1	12150	12700		
3231-70	Fines	T	FRC	5.0	10.8	35.8	48.4	5.2	12020	12650		
MAINLAND COAL FIELDS				OPERATOR: DRUMMOND COAL CO. LTD								
PICTOU COUNTY COAL FIELD				OPERATOR: THORBURN MINING LIMITED								
				MCBAIN MINE								
3243-70	Lump + 1 1/2 sq	T	FRC	4.9	19.1	24.1	51.9	0.7	11250	11830		
3244-70	Nut 1 1/2 to 3/4	T	FRC	3.1	20.7	24.6	51.6	0.8	11200	11550		
3246-70	Stoker 3/4 to 1/4	T	FRC	4.5	21.1	24.5	49.9	1.2	10920	11440		
3248-70	Fines	T	FRC	4.2	19.0	24.2	52.6	0.9	11290	11780		
3233-70	Egg + 1 3/4 sq	T	FRC	2.7	21.3	27.7	48.3	0.4	11310	11630		
2004-70	N/S - 2	D	DND	5.4	17.8	25.5	51.3	0.7	11450	12100	1002	
2005-70	N/S - 2	D	DND	4.7	18.2	25.9	51.2	0.7	11500	12070	1006	
2045-70	N/S - 2	D	DND	4.7	19.0	25.8	50.5	0.7	11380	11940	700	
2121-70	N/S - 2	D	DND	4.5	18.6	25.9	51.0	0.7	11430	11970	1022	
2135-70	N/S - 2	D	DND	4.3	18.0	26.2	51.5	0.6	11570	12090	613	
2163-70	N/S - 2	D	DND	4.5	19.6	25.8	50.1	0.8	11300	11840	985	
2193-70	N/S - 2	D	DND	4.7	18.9	25.6	50.8	0.6	11340	11910	983	
2198-70	N/S - 2	D	DND	3.8	18.9	26.0	51.3	0.5	11570	12020	771	
2237-70	N/S - 2	D	DND	4.1	19.4	25.5	51.0	0.7	11460	11940	700	
2239-70	N/S - 2	D	DND	4.4	18.2	25.6	51.8	0.6	11550	12080	965	
2259-70	N/S - 2	D	DND	4.9	17.3	25.2	52.6	0.7	11610	12210	965	
2276-70	N/S - 2	D	DND	3.4	19.0	26.7	50.9	1.5	11620	12030		
2332-70	N/S - 2	D	DND	4.3	16.4	27.0	52.3	1.2	11930	12460	639	
2361-70	N/S - 2	D	DND	4.7	18.7	25.7	50.9	0.7	11360	11920	973	
2362-70	N/S - 2	D	DND	5.5	18.9	26.4	49.2	0.4	11270	11930	981	
2396-70	N/S - 2	D	DND	3.8	20.0	25.3	50.9	0.4	11350	11790	999	
2397-70	N/S - 2	D	DND	4.1	20.0	24.8	50.9	0.5	11280	11760	620	
2398-70	N/S - 2	D	DND	2.4	19.7	26.2	51.7	0.6	11620	11910	332	
2542-70	N/S - 2	D	DND	4.6	19.3	25.6	50.5	0.9	11290	11830	774	
2574-70	N/S - 2	D	DND	3.4	17.4	25.2	54.0	0.2	11910	12320	527	
2613-70	N/S - 2	D	DND	2.8	17.6	24.9	54.7	0.8	11930	12270	859	
2614-70	N/S - 2	D	DND	4.1	18.4	23.1	54.4	0.9	11580	12070	886	
2616-70	N/S - 2	D	DND	4.7	18.3	23.5	53.5	0.6	11440	12010	923	
2631-70	N/S - 2	D	DND	2.8	19.5	26.8	50.9	0.5	11520	11850	998	
2632-70	N/S - 2	D	DND	3.5	19.3	26.6	50.6	0.4	11440	11850	1007	
3224-70	N/S - 2	D	DND	5.5	20.1	26.1	48.3	0.8	11030	11680	1013	
3521-70	N/S - 2	D	DND	3.4	20.0	27.2	49.4	0.6	11340	11740	1014	
3585-70	N/S - 2	D	DND	5.1	20.9	26.2	47.8	0.8	10940	11520	1020	
3592-70	N/S - 2	D	DND	6.1	18.00	26.7	49.2	0.8	11190	11910	194	

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

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Approximate Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
PICTOU COUNTY COAL FIELD				OPERATOR: THORBURN MINING LIMITED MGBAIN MINE								
2063-70	N/S - 1 3/4	D	DND	4.7	18.3	25.9	51.1	0.7	11500	12070	341	
2213-70	N/S - 1 3/4	D	DND	4.3	18.4	24.6	52.7	0.7	11530	12050	997	
2249-70	N/S - 1 3/4	D	DND	3.9	18.6	27.5	50.0	0.6	11540	12010	987	
2370-70	N/S - 1 3/4	D	DND	4.9	16.6	26.7	51.8	1.1	11880	12490	977	
2410-70	N/S - 1 3/4	D	DND	4.1	15.2	28.7	52.0	1.9	12300	12830	970	
2492-70	N/S - 1 3/4	D	DND	4.5	14.5	28.7	52.3	1.6	12280	12850	984	
2543-70	N/S - 1 3/4	D	DND	3.8	17.7	26.9	51.6	1.1	11730	12200	982	
2557-70	N/S - 1 3/4	D	DND	3.8	18.1	26.8	51.3	0.6	11450	11900	446	
2587-70	N/S - 1 3/4	D	DND	2.5	13.8	27.3	56.4	3.1	12640	12960	223	
2641-70	N/S - 1 3/4	D	DND	2.4	20.9	26.4	50.3	0.6	11370	11640	1036	
2642-70	N/S - 1 3/4	D	DND	2.1	20.2	26.2	51.5	0.6	11540	11790	1023	
2918-70	N/S - 1 3/4	D	DND	1.9	20.1	27.4	50.6	0.6	11650	11880	1020	
2930-70	N/S - 1 3/4	D	DND	2.1	20.0	27.6	50.3	0.6	11580	11830	1019	
3131-70	N/S - 1 3/4	D	DND	4.1	19.6	26.4	49.9	0.7	11340	11830	1169	
3204-70	N/S - 1 3/4	D	DND	4.3	18.6	27.0	50.1	0.7	11360	11870	1018	
3205-70	N/S - 1 3/4	D	DND	4.6	19.3	26.6	49.5	0.6	11220	11760	1015	
3298-70	N/S - 1 3/4	D	DND	5.2	20.6	27.2	47.0	0.6	10990	11590	1013	
3381-70	N/S - 1 3/4	D	DND	4.2	20.6	26.4	48.8	0.7	11170	11660	848	
3427-70	N/S - 1 3/4	D	DND	5.3	18.8	25.9	50.0	0.7	11250	11880	996	
3446-70	N/S - 1 3/4	D	DND	3.0	20.4	27.4	49.2	0.6	11420	11770	854	
3457-70	N/S - 1 3/4	D	DND	3.9	19.9	26.3	49.9	0.6	11270	11730	1005	
3527-70	N/S - 1 3/4	D	DND	3.4	18.8	27.1	50.7	1.2	11530	11940	934	
3531-70	N/S - 1 3/4	D	DND	4.6	19.6	26.5	49.3	0.7	11190	11730	1012	
3234-70	Nut 1 3/4 to 3/4 sq	T	FRC	2.6	20.6	27.0	49.8	0.5	11430	11740		
3236-70	Stoker 3/4 to 3/16	T	FRC	1.7	21.4	27.3	49.6	0.7	11420	11620		
3238-70	Washed Splint	T	FRC	2.4	28.1	28.5	41.0	0.5	10180	10430		
3239-70	Fines - 3/16	T	FRC	2.8	21.9	27.1	48.2	0.6	11050	11370		
CUMBERLAND COUNTY COAL FIELDS JOGGINS COAL FIELD				OPERATOR: RIVER HEBERT COAL CO. LTD.								
3567-70	Lump + 1 1/2	T	FRC	3.1	10.6	35.1	51.2	5.4	12770	13190		
3570-70	Lump + 1 1/2	T	FRC	2.5	10.8	34.8	51.9	5.1	12900	13240		
3568-70	Slack - 1 1/2	T	FRC	1.0	15.5	33.7	49.8	4.8	12380	12500		
3571-70	Slack - 1 1/2	T	FRC	3.5	14.8	33.0	48.7	4.9	12100	12530		
3241-70	Slack - 1 1/8	T	FRC	1.4	20.8	31.4	46.4	5.6	11400	11560		
SPRINGHILL COAL FIELD				OPERATOR: SPRINGHILL COAL MINES LTD.								
2003-70	P/S 3/4 to 1/4	D	Justice	2.9	21.8	28.2	47.1	2.5	10850	11170	411	
2196-70	P/S 3/4 to 1/4	D	Justice	3.8	22.5	27.3	46.4	2.9	10770	11190	990	
2282-70	P/S 3/4 to 1/4	D	Justice	2.6	26.4	26.9	44.1	2.8	10230	10510	288	
2371-70	P/S 3/4 to 1/4	D	Justice	4.0	23.6	27.7	44.7	2.6	10510	10950	552	
2431-70	P/S 3/4 to 1/4	D	Justice	3.3	24.8	27.0	44.9	2.5	10390	10750	566	
2581-70	P/S 3/4 to 1/4	D	Justice	4.0	23.2	28.0	44.8	2.5	10490	10930	289	
2630-70	P/S 3/4 to 1/4	D	Justice	3.6	24.8	27.2	44.4	2.5	10330	10720	127	
				NEW MINE NUMBER 1 SEAM								
3573-70	Channel Sample	M	FRC	6.7	9.4	32.7	51.2	2.7	12200	13070		

PROVINCE OF NEW BRUNSWICK
MINTO COAL FIELDS
BITUMINOUS COAL

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Approximate Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
MINTO AND CHIPMAN				OPERATOR: N. B. COAL LIMITED FORMERLY D.W. AND R.A. MILLS LTD.								
2006-70	P/S 1 1/2 to 1/2	D	DND	1.1	15.6	32.9	50.4	7.1	12640	12780	240	
2138-70	P/S 1 1/2 to 1/2	D	DND	1.3	14.3	33.9	50.5	6.5	12930	13100	209	
2422-70	P/S 1 1/2 to 1/2	D	DND	1.2	15.0	32.9	50.9	6.8	12850	13000		
2122-70	P/S 1 1/2 to 3/8	D	DND	1.3	14.7	33.6	50.4	7.8	12770	12940	93	
2160-70	P/S 1 1/2 to 3/8	D	DND	1.5	15.6	33.2	49.7	6.7	12640	12840	95	
2195-70	P/S 1 1/2 to 3/8	D	DND	1.0	15.1	33.0	50.9	6.6	12900	13030	94	
2360-70	P/S 1 1/2 to 3/8	D	DND	1.4	14.9	33.5	50.2	6.5	12840	13020	94	
2413-70	P/S 1 1/2 to 3/8	D	DND	1.2	16.5	32.3	50.0	6.4	12580	12740	91	
2617-70	P/S 1 1/2 to 3/8	D	DND	1.5	12.4	30.8	55.3	5.6	13250	13450	100	
2636-70	P/S 1 1/2 to 3/8	D	DND	1.2	17.0	32.1	49.7	6.8	12420	12570	603	
2644-70	P/S 1 1/2 to 3/8	D	DND	1.9	17.1	30.9	50.1	4.9	12190	12430	579	
2958-70	P/S 1 1/2 to 3/8	D	DND	0.6	17.1	32.8	49.5	6.4	12430	12510	329	
3520-70	P/S 1 1/2 to 3/8	D	DND	1.2	13.9	32.7	52.2	6.7	12960	13120	94	
3225-70	P/S 1 1/4 to 1/4	D	DND	1.9	21.1	30.1	46.9	6.7	11530	11760	42	
3444-70	P/S 1 1/4 to 1/4	D	DND	2.3	19.2	30.4	48.1	6.0	11930	12210	51	
3529-70	P/S 1 1/4 to 1/4	D	DND	2.5	12.9	33.0	51.6	5.7	12920	13250	45	
3426-70	P/S 3/4 to 1/4	D	Justice	1.5	15.2	33.1	50.2	6.3	12660	12850	250	

PROVINCE OF SASKATCHEWAN
SOURIS VALLEY DISTRICT
LIGNITE

BIENFAIT				OPERATOR: MANITOBA AND SASKATCHEWAN COAL COMPANY							
3299-70	P/S 1 to 1/2	D	DND	33.6	6.8	26.6	33.0	0.4	7400	11140	379
3337-70	P/S 1 to 1/2	D	DND	33.1	12.0	26.3	29.6	0.4	6900	10160	149
3517-70	P/S 1 to 1/2	D	DND	31.3	8.0	27.2	33.5	0.5	7530	10960	379

PROVINCE OF ALBERTA
MEDIUM-VOLATILE BITUMINOUS

GROWSNEST				OPERATOR: COLEMAN COLLIERIES LTD.							
3450-70	Export - 2	T	FRC	4.0	9.8	22.2	64.0	0.6	13330	13890	

CASCADE

OPERATOR: THE CANMORE MINES LIMITED

LOW-VOLATILE BITUMINOUS - SEMI-ANTHRACITE

3474-70	Lump 5 to 2	D	DND	1.3	9.4	12.8	76.5	0.6	14000	14170	29
2131-70	P/S 1 1/4 to 1/4	D	DND	2.2	6.1	12.4	79.3	0.9	14230	14550	228
2211-70	P/S 1 1/4 to 1/4	D	DND	3.7	6.4	11.4	78.5	0.9	14000	14530	190
2260-70	P/S 1 1/4 to 1/4	D	DND	1.2	6.2	11.7	80.9	0.8	14410	14580	155
2416-70	P/S 1 1/4 to 1/4	D	DND	3.0	6.5	11.4	79.1	1.0	14140	14570	160
2555-70	P/S 1 1/4 to 1/4	D	DND	1.8	6.1	12.5	79.5	0.7	14250	14500	151
2612-70	P/S 1 1/4 to 1/4	D	DND	3.1	5.4	11.3	80.2	0.7	14220	14680	94
2637-70	P/S 1 1/4 to 1/4	D	DND	1.0	7.0	12.0	80.0	0.8	14280	14420	158
2638-70	P/S 1 1/4 to 1/4	D	DND	1.1	6.2	12.5	80.2	0.8	14460	14610	38

PROVINCE OF ALBERTA
LOW-VOLATILE BITUMINOUS - SEMI-ANTHRACITE (CONTINUED)

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received						Dry		Approximate Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value			
									BTU/lb Gross	BTU/lb Gross		
CASCADE				OPERATOR: THE CANMORE MINES LIMITED (CONT'D)								
2639-70	P/S 1 1/4 to 1/4	D	DND	4.9	5.4	11.8	77.9	0.7	13920	14640	42	
3166-70	P/S 1 1/4 to 1/4	D	DND	1.3	6.2	12.3	80.2	0.7	14300	14490	18	
3168-70	P/S 1 1/4 to 1/4	D	DND	2.0	6.5	12.9	78.6	0.6	14030	14310	91	
3201-70	P/S 1 1/4 to 1/4	D	DND	1.1	5.4	12.2	81.3	0.8	14550	14700	28	
3202-70	P/S 1 1/4 to 1/4	D	DND	2.1	5.1	12.3	80.5	0.7	14410	14720	110	
3203-70	P/S 1 1/4 to 1/4	D	DND	4.6	5.0	12.4	78.0	0.8	14080	14760	35	
3357-70	P/S 1 1/4 to 1/4	D	DND	2.4	8.6	11.7	77.3	0.7	13750	14080	151	
3358-70	P/S 1 1/4 to 1/4	D	DND	1.7	5.1	12.2	81.0	0.8	14450	14700	27	
3359-70	P/S 1 1/4 to 1/4	D	DND	3.2	12.2	12.3	72.3	0.7	13050	13480	70	
3360-70	P/S 1 1/4 to 1/4	D	DND	1.5	12.6	12.6	73.3	0.4	13220	13430	87	
3473-70	P/S 1 1/4 to 1/4	D	DND	0.5	9.1	12.5	77.9	0.8	14010	14080	94	
3475-70	P/S 1 1/4 to 1/4	D	DND	4.4	9.5	14.7	71.4	0.5	13160	13760	71	
3447-70	Stoker 1 1/4 to 5/16 Tyrod	T	FRC	6.8	8.0	11.3	73.9	0.7	13240	14210		
3448-70	Slack 5/16 to 0	T	FRC	7.9	7.7	11.6	72.8	0.7	13110	14250		
MOUNTAIN PARK				OPERATOR: CARDINAL RIVER COAL CO.								
				MEDIUM-VOLATILE BITUMINOUS								
3338-70	Slack 1 3/4 to 0	T	FRC	1.2	9.3	21.6	67.9	0.2	13880	14040		
ARDLEY				OPERATOR: SISSONS' MINE MINE NUMBER 809								
				SUBBITUMINOUS								
3401-70	Crusher Pit	Channel	FRC	20.2	9.2	28.0	42.6	0.2	8900	11150		
3402-70	Main Pit	Channel	FRC	21.1	7.8	28.2	42.9	0.3	8960	11360		
CASTOR				OPERATOR: BATTLE RIVER COAL, A DIVISION OF ALBERTA COAL LTD. MINE NUMBER 1046								
3340-70	Lump + 4 1/2 sq	T	FRC	26.1	6.3	30.9	38.7	0.4	8870	11680		
3341-70	Egg 4 1/2 to 2 sq	T	FRC	23.5	7.4	31.2	37.9	0.4	8770	11460		
3342-70	Nut 2 to 1 1/4 sq	T	FRC	23.8	7.0	29.3	39.9	0.4	8710	11430		
3343-70	Stoker 1 1/4 to 5/8 sq	T	FRC	24.4	7.2	32.7	35.7	0.3	8670	11460		
3344-70	Slack - 5/8 sq	T	FRC	25.0	8.3	29.9	36.8	0.6	8390	11180		
				OPERATOR: FORESTBURG COLLIERIES LIMITED MINE NUMBER 1578								
3345-70	Lump + 4 1/2 sq	T	FRC	24.9	4.8	33.8	36.5	0.4	8890	11830		
3346-70	Egg 4 1/2 to 2 sq	T	FRC	24.1	5.2	31.2	39.5	0.5	8890	11710		
3347-70	Nut 2 to 1 sq	T	FRC	25.4	6.5	31.9	36.2	0.5	8570	11500		
3348-70	Stoker 1 to 1/2 sq	T	FRC	24.7	6.3	30.0	39.0	0.4	8770	11650		
3349-70	Slack - 1/2 sq	T	FRC	23.9	8.0	29.7	38.4	0.5	8630	11340		

PROVINCE OF ALBERTA
SUBBITUMINOUS (CONTINUED)

Sample Number	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received							Dry		Approximate Tonnage Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									BTU/lb Gross	BTU/lb Gross			
DRUMHELLER				OPERATOR: CENTURY GOALS LTD. MINE NUMBER 1742									
3408-70	Lump + 4 1/2	T	FRC	18.7	5.7	30.4	45.2	0.5	9580	11790			
3409-70	Egg 4 1/2 to 2	T	FRC	18.4	7.9	32.2	41.5	0.4	9430	11550			
3410-70	Nut 2 to 1 1/4	T	FRC	18.6	7.7	31.4	42.3	0.4	9480	11640			
3411-70	Stoker 1 1/4 to 5/8	T	FRC	18.6	10.6	30.5	40.3	0.5	9020	11080			
3412-70	Slack - 5/8	T	FRC	19.1	10.3	30.1	40.5	0.5	8930	11030			
EDMONTON				OPERATOR: STAR-KEY MINES LTD. MINE NUMBER 1626									
3429-70	Lump + 4 1/2	T	FRC	23.0	9.1	29.5	38.4	0.3	8520	11070			
3430-70	Egg 4 1/2 to 1 3/4 sq	T	FRC	24.6	7.9	27.8	39.7	0.3	8470	11230			
3431-70	Nut 1 3/4 to 1 1/4 sq	T	FRC	22.2	8.8	27.6	41.4	0.2	8680	11160			
3432-70	Stoker 1 1/4 to 7/16 sq	T	FRC	23.9	8.6	28.1	39.4	0.3	8470	11140			
3433-70	Slack - 7/16 sq	T	FRC	25.4	11.8	26.5	36.3	0.2	7790	10440			
PEMBINA				OPERATOR: ALBERTA COAL LTD. HIGHVALE MINE MINE NUMBER 1769									
3435-70	Slack - 1	T	FRC	21.3	14.2	25.4	39.1	0.3	8030	10190			
				WHITEWOOD MINE MINE NUMBER 1757									
3434-70	Not designated	Stockpile	FRC	21.7	13.1	26.6	38.6	0.4	7980	10190			
SHEERNESS				OPERATOR: BATTLE RIVER COAL, A DIVISION OF ALBERTA COAL LTD. MINE NUMBER 443									
3404-70	Egg 4 1/2 to 2	T	FRC	17.5	6.1	42.8	33.6	0.2	8410	10200			
3405-70	Nut 2 to 1 1/4	T	FRC	26.4	6.8	29.8	37.0	0.4	8300	11270			
3406-70	Stoker 1 1/4 to 5/8 sq	T	FRC	26.6	6.3	33.1	34.0	0.4	8270	11260			
3407-70	Slack - 5/8 sq	T	FRC	26.8	8.1	28.7	36.4	0.4	8010	10940			
SMOKY RIVER				OPERATOR: MacINTYRE PORCUPINE COAL MINES LIMITED MINE NUMBER 1765									
LOW-VOLATILE BITUMINOUS													
3339-70	Slack -1 1/2	T	FRC	2.5	6.1	19.4	72.0	0.4	14270	14640			

II. IMPORTED COALS

UNITED STATES

It has been drawn to the attention of this Centre 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	Designation Size (in.) or Location	Kind of Sample	Sampled By	As Received							Dry		Approximate Weight Represented By Sample
				Moisture %	Ash %	Volatile Matter %	Fixed Carbon %	Sulphur %	Calorific Value				
									BTU/lb Gross	BTU/lb Gross			
STATE OF OHIO													
TRADE NAME: ARROW MINE: BROKEN ARO													
3575-70	P/S 1 1/4 to 1/4	D	DND	7.6	6.5	41.1	44.8	3.9	12320	13330			
STATE OF PENNSYLVANIA													
TRADE NAME: BOSTONIA													
2318-70	N/S -2	D	DND	8.0	10.0	33.6	48.4	2.2	11990	13030	901		
TRADE NAME: CADOGAN													
3291-70	N/S -2	D	DND	4.2	10.8	34.7	50.3	2.6	12840	13400	596		
3515-70	N/S -2	D	DND	4.5	9.4	34.9	51.2	2.8	12940	13550	607		
TRADE NAME: GRIER-ELLISON													
2277-70	N/S -2	D	DND	5.8	8.7	33.5	52.0	1.1	12650	13430	98		
TRADE NAME: MARGARET													
2039-70	N/S -2	D	DND	4.8	14.6	29.6	51.0	1.5	12080	12690	1092		
2134-70	N/S -2	D	DND	6.2	16.0	31.3	46.5	2.1	11570	12330	923		
2162-70	N/S -2	D	DND	5.0	23.1	26.6	45.3	1.6	10680	11240	415		
2219-70	N/S -2	D	DND	8.5	13.9	28.3	49.3	1.9	11580	12650	855		
TRADE NAME: PILGRIM													
2278-70	N/S -2	D	DND	7.3	7.0	32.8	52.9	1.0	12900	13910	73		
2279-70	N/S -2	D	DND	9.0	7.9	31.5	51.6	1.0	12470	13710	50		
TRADE NAME: WALKER #4													
2510-70	N/S -2	D	DND	9.9	4.7	37.6	47.8	2.5	12080	13410	632		
STATE OF VIRGINIA													
TRADE NAME: JEWELL													
3355-70	P/S 1 to 1/8	D	DND	4.4	7.4	27.6	60.6	0.6	13610	14240	59		
STATE OF WEST VIRGINIA													
TRADE NAME: ELM GROVE													
2028-70	P/S 2 to 1/8	D	DND	1.5	7.1	40.8	50.6	3.2	13650	13860	174		
2037-70	P/S 2 to 1/8	D	DND	3.2	6.7	39.8	50.3	3.2	13460	13910	780		
2192-70	P/S 2 to 1/8	D	DND	3.3	6.7	39.1	50.9	3.0	13430	13890	935		
TRADE NAME: O'DONNELL													
3397-70	P/S 1 1/2 to 1/2	D	Justice	5.4	9.8	36.8	48.0	3.3	12790	13520	400		
STATE: UNKNOWN													
OPERATOR: VALLEY CAMP COAL CO. TRADE NAME: PENTAGON													
2133-70	Stoker	D	NGPC	3.5	4.8	38.1	53.6	1.3	13920	14410	5000		

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