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Price subject to change without notice

ROGER DUHAMEL, F.R.S.C.

Queen's Printer and Controller of Stationery
Ottawa, Canada

1963

CANMET
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Mines Branch Information Circular IC 161

ANALYSES OF COAL AND COKE DURING 1963

by

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

INTRODUCTION

The Solid Fuels Laboratory of the Fuels and Mining Practice Division is responsible for all analytical work on coal and coke, including that reported in the official "Analysis Directory of Canadian Coals", which is published by the Mines Branch (but only at intervals of five or more years). This information circular, issued as the fourth of an annual series, tabulates the analyses of commercial and special samples of coal and coke received by the Division during 1963.

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

Proximate analysis and sulphur values are reported on the "as received" basis only, whereas calorific values are reported on the "dry" basis. Ash fusibility determinations, where made, are reported in most instances using the four-point fusion system following the latest ASTM revision. Free Swelling Index and Grindability Index (Hardgrove) are reported on a number of samples. The authors gratefully acknowledge the assistance of C.H. Glaude in supplying the ASTM Free Swelling Index data reported. As an easy reference, the analyses are arranged by province and state.

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Glossary of Abbreviated Terms

| | |
|---------|---|
| Ch. | Channel |
| Comm. | Commercial |
| C/S | Coarse Stoker |
| DND | Department of National Defence |
| DOT | Department of Transport |
| DVA | Department of Veterans Affairs |
| DPW | Department of Public Works |
| DRB | Defence Research Board |
| D | Delivered |
| FMP | Fuels and Mining Practice Division |
| Geo.S | Geological Survey |
| Justice | Department of Justice |
| ND | Not designated |
| NHW | Department of National Health and Welfare |
| N/S | Nut Slack |
| P/S | Prepared Stoker |
| rd | Round hole screen |
| ROM | Run of Mine |
| Sc | Screened |
| S | Special |
| S/N | Stoker Nut |
| S/P | Stoker Pea |
| sq | Square hole screen |
| T | Tipple |

Direction des mines
Circulaire d'Information IC 161

ANALYSES DE HOUILLE ET DE COKE EN 1963

par

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

INTRODUCTION

Le Laboratoire des combustibles solides, à la Division des combustibles et du génie minier, s'occupe de tous les travaux analytiques sur la houille et le coke, y inclus les travaux dont il est fait rapport dans la publication officielle de la Direction des mines intitulée: "Analysis Directory of Canadian Coals", qui paraît à intervalles de cinq ans ou plus. La présente circulaire d'information, la quatrième d'une série qui doit paraître annuellement, traite des analyses d'échantillons commerciaux de houille et de coke reçus par la Division au cours de 1963.

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

On indique l'analyse approximative et les teneurs en soufre des échantillons "tels qu'ils nous sont parvenus", tandis qu'on mentionne les valeurs calorifiques des échantillons "tels qu'ils nous sont parvenus" aussi bien que des échantillons "à sec". Quand il en est fait mention, la fusibilité des cendres a été déterminée, à l'aide du procédé de fusion en quatre points, d'après la plus récente révision de l'ASTM. L'indice de gonflement libre et l'indice de broyabilité (Hardgrove) sont indiqués dans le cas d'un bon nombre d'échantillons. Les auteurs sont très reconnaissants à C.H. Glaude de leur avoir fourni les données relatives à l'indice de gonflement d'après l'ASTM. Pour les fins de référence, les analyses sont classées par province et par état.

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Glossaire des Abréviations

| | |
|---------|--|
| Ch. | Echantillon en place |
| Comm. | Commerciel |
| C/S | Stoker, gros |
| DND | Ministère de la Défense nationale |
| DOT | Ministère des transports |
| DVA | Ministère des Affaires des anciens combattants |
| DPW | Ministère des Travaux publics |
| DRB | Conseil de Recherche pour la défense |
| D | Livré |
| FMP | Division des combustibles et du génie minier |
| Geo.S. | Commission Géologique |
| Justice | Ministère de la Justice |
| ND | Non désigné |
| NHW | Ministère de la Santé nationale et du Bien-être social |
| N/S | Menus gailletin |
| P/S | Foyer mécanique préparé |
| rd | Rond |
| Sc | Charbon criblé |
| S/N | Stoker, nut |
| S/P | Stoker, pea |
| sq | Carré |
| T | Culbuteur |

I. CANADIAN COALS

PROVINCE: NOVA SCOTIA

CAPE BRETON COAL FIELDS

AREA: SYDNEY COAL FIELD

OPERATOR: DOMINION COAL CO., LTD.

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hartgrove | Free Swelling Index |
|---------------|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 2913-63 | Lump 1 x 6 | D | DND | 2.5 | 5.3 | 39.2 | 53.0 | 2.8 | 14,050 | 14,410 | | | | | | |
| 2249-63 | Nut 2 x 1 | D | DVA | 1.6 | 5.7 | 37.6 | 55.1 | 1.8 | 14,210 | 14,440 | | | | | | |
| 2569-63 | Nut 2 x 1 | D | DVA | 2.4 | 4.1 | 39.1 | 54.4 | 2.7 | 14,330 | 14,670 | | | | | | |
| 3123-63 | Nut 2 x 1 | D | DVA | 1.7 | 5.5 | 35.0 | 57.8 | 1.3 | 14,210 | 14,450 | | | | | | |
| 2202-63 | S/N 2 x 3/4 | D | Justice | 1.2 | 11.0 | 35.7 | 52.1 | 4.1 | 13,520 | 13,680 | | | | | | |
| 2205-63 | Nut 2 x 1 | D | DRB | 2.9 | 9.6 | 35.3 | 52.2 | - | 13,200 | 13,590 | | | | | | |
| 2489-63 | Nut 2 x 1 | D | DRB | 5.2 | 9.9 | 33.8 | 51.1 | 3.3 | 12,990 | 13,700 | | | | | | |
| 2572-63 | Nut 2 x 1 | D | DRB | 1.5 | 5.8 | 37.3 | 55.4 | 2.9 | 14,190 | 14,410 | | | | | | |
| 2746-63 | Nut 2 x 1 | D | DRB | 1.6 | 8.8 | 36.1 | 53.5 | 3.6 | 13,670 | 13,890 | | | | | | |
| 2918-63 | F/S 2 x 1/8 | D | DND | 2.6 | 7.2 | 37.1 | 53.1 | 4.7 | 13,860 | 14,240 | | | | | | |
| 2066-63 | F/S 1 1/4 x 1/8 | D | Justice | 2.8 | 5.4 | 37.3 | 54.5 | 2.6 | 13,980 | 14,380 | 2,000 | 2,410 | 2,460 | 2,580 | | |
| 2206-63 | F/S 1 1/4 x 1/8 | D | Justice | 2.8 | 7.7 | 36.8 | 52.7 | 3.2 | 13,450 | 13,840 | | | | | | |
| 2599-63 | F/S 1 1/4 x 1/4 | D | DND | 3.0 | 6.6 | 39.3 | 51.1 | 2.6 | 13,700 | 14,130 | | | | | | |
| 2124-63 | F/S 1 1/4 x 5/8 | D | DVA | 3.2 | 8.1 | 35.7 | 53.0 | 3.7 | 13,660 | 14,120 | | | | | | |
| 3050-63 | F/S 1 1/4 x 5/8 | D | DVA | 3.3 | 6.6 | 36.0 | 54.1 | 2.8 | 13,810 | 14,270 | | | | | | |
| 2603-63 | F/S 1 1/4 x 1/4 | D | DND | 4.4 | 7.0 | 36.8 | 51.8 | 2.8 | 13,290 | 13,900 | | | | | | |
| 2709-63 | F/S 1 1/4 x 1/4 | D | DND | 4.7 | 7.3 | 36.5 | 51.5 | - | 13,300 | 13,950 | | | | | | |
| 2917-63 | F/S 1 1/4 x 1/4 | D | DND | 4.2 | 3.1 | 37.2 | 55.5 | 1.7 | 14,200 | 14,820 | | | | | | |
| 2925-63 | F/S 1 1/4 x 1/4 | D | DND | 2.8 | 6.3 | 38.1 | 52.8 | 2.9 | 13,690 | 14,080 | | | | | | |
| 2029-63 | F/S 1 1/4 x 1/8 | D | DND | 2.5 | 5.8 | 36.6 | 55.1 | 2.8 | 13,860 | 14,220 | | | | | | |
| 2837-63 | F/S 1 x 1/8 | D | DND | 2.1 | 7.0 | 38.3 | 52.6 | 2.7 | 13,730 | 14,020 | | | | | | |
| 3129-63 | F/S 3/4 x 1/8 | D | DND | 1.9 | 5.3 | 37.4 | 55.4 | 2.4 | 14,040 | 14,320 | | | | | | |
| 2002-63 | N/S 2 x 0 | D | DND | 3.5 | 6.7 | 35.2 | 54.6 | 2.9 | 13,730 | 14,230 | | | | | | |
| 2013-63 | N/S 2 x 0 | D | DND | 4.6 | 7.1 | 34.6 | 53.7 | - | 13,560 | 14,220 | | | | | | |
| 2055-63 | N/S 2 x 0 | D | DND | 2.4 | 5.3 | 35.4 | 56.9 | 2.0 | 14,300 | 14,650 | | | | | | |
| 2056-63 | N/S 2 x 0 | D | DND | 3.4 | 6.7 | 34.5 | 55.4 | 2.5 | 13,740 | 14,230 | | | | | | |
| 2057-63 | N/S 2 x 0 | D | DND | 4.3 | 7.2 | 35.9 | 52.6 | 3.1 | 13,650 | 14,260 | | | | | | |
| 2063-63 | N/S 2 x 0 | D | DND | 1.5 | 12.1 | 34.4 | 52.0 | 2.5 | 12,940 | 13,140 | | | | | | |
| 2067-63 | N/S 2 x 0 | D | DND | 4.9 | 6.9 | 35.3 | 52.9 | 2.7 | 13,550 | 14,250 | | | | | | |
| 2068-63 | N/S 2 x 0 | D | DND | 4.3 | 7.1 | 36.3 | 52.3 | 3.7 | 13,490 | 14,090 | | | | | | |
| 2069-63 | N/S 2 x 0 | D | DND | 3.6 | 6.9 | 34.5 | 55.0 | 2.8 | 13,670 | 14,180 | | | | | | |
| 2070-63 | N/S 2 x 0 | D | DND | 5.2 | 7.1 | 34.8 | 52.9 | 2.8 | 13,540 | 14,290 | | | | | | |
| 2082-63 | N/S 2 x 0 | D | DND | 1.5 | 5.7 | 34.5 | 58.3 | 1.9 | 14,270 | 14,480 | | | | | | |
| 2093-63 | N/S 2 x 0 | D | DND | 3.5 | 7.4 | 33.8 | 55.3 | 2.6 | 13,700 | 14,200 | | | | | | |
| 2104-63 | N/S 2 x 0 | D | DND | 2.5 | 6.3 | 36.8 | 54.4 | 3.0 | 13,890 | 14,240 | | | | | | |
| 2105-63 | N/S 2 x 0 | D | DND | 3.8 | 7.1 | 34.8 | 54.3 | 2.5 | 13,670 | 14,210 | | | | | | |
| 2125-63 | N/S 2 x 0 | D | DND | 5.9 | 8.5 | 33.5 | 52.1 | 2.7 | 13,290 | 14,060 | | | | | | |
| 2132-63 | N/S 2 x 0 | D | DND | 3.2 | 5.8 | 35.3 | 55.7 | 2.1 | 14,030 | 14,500 | | | | | | |
| 2133-63 | N/S 2 x 0 | D | DND | 1.2 | 6.8 | 35.8 | 56.2 | 2.4 | 14,160 | 14,320 | | | | | | |
| 2174-63 | N/S 2 x 0 | D | DND | 5.1 | 5.6 | 34.8 | 54.5 | 2.1 | 13,610 | 14,340 | | | | | | |
| 2175-63 | N/S 2 x 0 | D | DND | 3.8 | 6.6 | 35.0 | 54.6 | 2.7 | 13,750 | 14,290 | | | | | | |
| 2179-63 | N/S 2 x 0 | D | DND | 2.5 | 7.0 | 35.4 | 55.1 | 2.0 | 14,000 | 14,360 | | | | | | |
| 2198-63 | N/S 2 x 0 | D | DND | 7.5 | 5.3 | 33.4 | 53.8 | - | 13,370 | 14,450 | | | | | | |
| 2199-63 | N/S 2 x 0 | D | DND | 4.3 | 6.0 | 36.3 | 53.4 | 2.3 | 13,740 | 14,360 | | | | | | |
| 2200-63 | N/S 2 x 0 | D | DND | 4.5 | 7.1 | 34.9 | 53.5 | 2.3 | 13,620 | 14,270 | | | | | | |
| 2201-63 | N/S 2 x 0 | D | DND | 3.7 | 4.9 | 35.1 | 56.3 | 1.8 | 14,060 | 14,600 | | | | | | |
| 2221-63 | N/S 2 x 0 | D | DND | 2.1 | 6.8 | 36.1 | 55.0 | 2.9 | 13,770 | 14,070 | | | | | | |
| 2272-63 | N/S 2 x 0 | D | DND | 3.6 | 7.7 | 34.4 | 54.3 | 3.3 | 13,760 | 14,270 | | | | | | |
| 2289-63 | N/S 2 x 0 | D | DND | 1.2 | 8.8 | 36.0 | 54.0 | 3.7 | 13,680 | 13,840 | | | | | | |
| 2293-63 | N/S 2 x 0 | D | DND | 1.2 | 5.7 | 37.4 | 55.7 | 2.4 | 14,120 | 14,290 | | | | | | |
| 2299-63 | N/S 2 x 0 | D | DND | 1.3 | 6.3 | 37.0 | 55.4 | 3.4 | 14,210 | 14,390 | | | | | | |
| 2301-63 | N/S 2 x 0 | D | DND | 5.3 | 10.3 | 32.6 | 51.8 | 4.3 | 12,800 | 13,520 | | | | | | |
| 2302-63 | N/S 2 x 0 | D | DND | 1.6 | 3.1 | 37.5 | 57.8 | 2.6 | 14,610 | 14,850 | | | | | | |
| 2313-63 | N/S 2 x 0 | D | DND | 3.7 | 4.5 | 35.9 | 55.9 | 2.8 | 14,030 | 14,570 | | | | | | |
| 2314-63 | N/S 2 x 0 | D | DND | 4.4 | 5.6 | 35.2 | 54.8 | 2.8 | 13,910 | 14,550 | | | | | | |
| 2315-63 | N/S 2 x 0 | D | DND | 3.9 | 3.7 | 37.2 | 55.2 | 2.4 | 14,200 | 14,780 | | | | | | |
| 2316-63 | N/S 2 x 0 | D | DND | 4.4 | 8.2 | 34.2 | 53.2 | 2.6 | 13,380 | 14,000 | | | | | | |
| 2319-63 | N/S 2 x 0 | D | DND | 3.3 | 6.2 | 36.8 | 53.7 | 3.6 | 13,640 | 14,090 | | | | | | |
| 2320-63 | N/S 2 x 0 | D | DND | 4.3 | 4.1 | 35.5 | 56.1 | 2.0 | 14,000 | 14,630 | | | | | | |
| 2343-63 | N/S 2 x 0 | D | DND | 3.4 | 6.2 | 35.4 | 55.0 | 1.8 | 13,860 | 14,350 | | | | | | |
| 2345-63 | N/S 2 x 0 | D | DND | 2.4 | 6.1 | 38.1 | 53.4 | - | 13,590 | 13,930 | | | | | | |
| 2373-63 | N/S 2 x 0 | D | DND | 4.7 | 6.1 | 34.9 | 54.3 | 2.1 | 13,670 | 14,340 | | | | | | |
| 2398-63 | N/S 2 x 0 | D | DND | 3.7 | 5.5 | 36.9 | 53.9 | 3.5 | 13,720 | 14,250 | | | | | | |
| 2406-63 | N/S 2 x 0 | D | DND | 3.8 | 5.1 | 35.2 | 55.9 | 2.5 | 14,110 | 14,660 | | | | | | |
| 2414-63 | N/S 2 x 0 | D | DND | 4.3 | 6.2 | 35.8 | 53.7 | 3.4 | 13,510 | 14,110 | | | | | | |
| 2428-63 | N/S 2 x 0 | D | DND | 4.2 | 7.3 | 34.2 | 54.3 | 3.1 | 13,510 | 14,110 | | | | | | |
| 2432-63 | N/S 2 x 0 | D | DND | 4.9 | 5.9 | 36.6 | 52.6 | 3.1 | 13,460 | 14,150 | | | | | | |
| 2433-63 | N/S 2 x 0 | D | DND | 3.2 | 3.6 | 35.6 | 57.6 | 1.8 | 14,310 | 14,790 | | | | | | |
| 2434-63 | N/S 2 x 0 | D | DND | 4.7 | 6.2 | 34.1 | 55.0 | 3.3 | 13,690 | 14,360 | | | | | | |
| 2435-63 | N/S 2 x 0 | D | DND | 3.5 | 6.0 | 34.5 | 56.0 | 2.6 | 13,940 | 14,440 | | | | | | |
| 2442-63 | N/S 2 x 0 | D | DND | 4.4 | 6.1 | 37.3 | 52.2 | 4.0 | 13,470 | 14,090 | | | | | | |
| 2450-63 | N/S 2 x 0 | D | DND | 5.6 | 6.8 | 34.5 | 53.1 | 2.6 | 13,490 | 14,290 | | | | | | |
| 2452-63 | N/S 2 x 0 | D | DND | 4.6 | 7.1 | 36.9 | 51.4 | 3.0 | 13,410 | 14,060 | | | | | | |
| 2459-63 | N/S 2 x 0 | D | DND | 3.1 | 9.4 | 32.7 | 54.8 | - | 13,650 | 14,080 | | | | | | |
| 2460-63 | N/S 2 x 0 | D | DND | 4.1 | 3.7 | 36.5 | 55.7 | 2.1 | 14,160 | 14,770 | | | | | | |
| 2487-63 | N/S 2 x 0 | D | DND | 2.6 | 6.8 | 37.0 | 53.6 | 2.8 | 13,640 | 13,990 | | | | | | |

PROVINCE: NOVA SCOTIA

AREA: SYDNEY COAL FIELD (Continued)

OPERATOR: DOMINION COAL CO., LTD.

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index | Hardgrove | Free Swelling Index |
|---------------|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|--------------------|-----------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | | |
| 2488-63 | N/S 2 x 0 | D | DND | 0.8 | 14.3 | 32.6 | 52.3 | - | 12,860 | 12,960 | | | | | | | |
| 2493-63 | N/S 2 x 0 | D | DND | 2.5 | 4.5 | 38.3 | 54.7 | 2.6 | 14,090 | 14,450 | | | | | | | |
| 2495-63 | N/S 2 x 0 | D | DND | 3.6 | 3.5 | 37.3 | 55.6 | 2.2 | 14,180 | 14,700 | | | | | | | |
| 2497-63 | N/S 2 x 0 | D | DND | 6.0 | 5.8 | 34.8 | 53.4 | 2.7 | 13,540 | 14,400 | | | | | | | |
| 2498-63 | N/S 2 x 0 | D | DND | 5.4 | 4.1 | 37.5 | 53.0 | 2.1 | 13,770 | 14,560 | | | | | | | |
| 2499-63 | N/S 2 x 0 | D | DND | 4.1 | 4.5 | 37.3 | 54.1 | 2.5 | 13,750 | 14,340 | | | | | | | |
| 2500-63 | N/S 2 x 0 | D | DND | 5.3 | 4.4 | 38.1 | 52.2 | 2.8 | 13,830 | 14,600 | | | | | | | |
| 2531-63 | N/S 2 x 0 | D | DND | 4.3 | 7.3 | 34.3 | 54.1 | 3.1 | 13,600 | 14,220 | | | | | | | |
| 2541-63 | N/S 2 x 0 | D | DND | 2.8 | 6.8 | 37.6 | 52.8 | 2.7 | 13,560 | 13,960 | | | | | | | |
| 2547-63 | N/S 2 x 0 | D | DND | 2.9 | 5.2 | 39.3 | 52.6 | 2.9 | 13,980 | 14,410 | | | | | | | |
| 2548-63 | N/S 2 x 0 | D | DND | 3.8 | 9.6 | 36.2 | 50.4 | 2.8 | 13,140 | 13,660 | | | | | | | |
| 2554-63 | N/S 2 x 0 | D | DND | 3.1 | 5.4 | 38.1 | 53.4 | 2.7 | 13,820 | 14,260 | | | | | | | |
| 2555-63 | N/S 2 x 0 | D | DND | 2.9 | 3.6 | 39.9 | 53.6 | 2.2 | 14,100 | 14,520 | | | | | | | |
| 2557-63 | N/S 2 x 0 | D | DND | 2.8 | 4.7 | 38.6 | 53.9 | 2.5 | 14,070 | 14,490 | | | | | | | |
| 2562-63 | N/S 2 x 0 | D | DND | 4.0 | 6.6 | 36.5 | 52.9 | 2.6 | 13,730 | 14,310 | | | | | | | |
| 2563-63 | N/S 2 x 0 | D | DND | 3.8 | 5.5 | 35.0 | 55.7 | 2.6 | 13,900 | 14,450 | | | | | | | |
| 2564-63 | N/S 2 x 0 | D | DND | 4.8 | 4.8 | 37.3 | 53.1 | 2.8 | 13,750 | 14,440 | | | | | | | |
| 2595-63 | N/S 2 x 0 | D | DND | 3.9 | 6.2 | 37.3 | 52.6 | 3.2 | 13,490 | 14,040 | | | | | | | |
| 2597-63 | N/S 2 x 0 | D | DND | 4.5 | 7.5 | 36.3 | 51.7 | 3.2 | 13,240 | 13,860 | | | | | | | |
| 2604-63 | N/S 2 x 0 | D | DND | 4.0 | 7.6 | 34.6 | 53.8 | 2.0 | 13,550 | 14,110 | | | | | | | |
| 2605-63 | N/S 2 x 0 | D | DND | 3.5 | 5.3 | 36.3 | 54.9 | 2.7 | 13,910 | 14,420 | | | | | | | |
| 2606-63 | N/S 2 x 0 | D | DND | 4.4 | 7.8 | 34.9 | 52.9 | 2.7 | 13,400 | 14,020 | | | | | | | |
| 2619-63 | N/S 2 x 0 | D | DND | 4.3 | 6.5 | 37.0 | 52.2 | 2.8 | 13,280 | 13,880 | | | | | | | |
| 2636-63 | N/S 2 x 0 | D | DND | 6.2 | 8.2 | 35.9 | 49.7 | 3.4 | 12,760 | 13,600 | | | | | | | |
| 2647-63 | N/S 2 x 0 | D | DND | 1.1 | 5.5 | 38.6 | 54.8 | 2.8 | 14,410 | 14,570 | | | | | | | |
| 2661-63 | N/S 2 x 0 | D | DND | 3.2 | 6.1 | 36.1 | 54.6 | 2.8 | 14,050 | 14,510 | | | | | | | |
| 2715-63 | N/S 2 x 0 | D | DND | 3.0 | 5.4 | 37.6 | 54.0 | 2.7 | 13,820 | 14,250 | | | | | | | |
| 2719-63 | N/S 2 x 0 | D | DND | 4.9 | 4.6 | 36.9 | 53.6 | 2.5 | 13,610 | 14,300 | | | | | | | |
| 2720-63 | N/S 2 x 0 | D | DND | 4.5 | 9.2 | 35.8 | 50.5 | 3.8 | 12,920 | 13,530 | | | | | | | |
| 2721-63 | N/S 2 x 0 | D | DND | 2.6 | 9.0 | 36.4 | 52.0 | 2.5 | 13,220 | 13,570 | | | | | | | |
| 2731-63 | N/S 2 x 0 | D | DND | 2.6 | 6.0 | 36.1 | 55.3 | 4.2 | 13,860 | 14,230 | | | | | | | |
| 2744-63 | N/S 2 x 0 | D | DND | 1.8 | 6.5 | 36.6 | 55.1 | 2.4 | 14,060 | 14,310 | | | | | | | |
| 2827-63 | N/S 2 x 0 | D | DND | 1.4 | 8.8 | 36.8 | 53.0 | 2.7 | 13,650 | 13,850 | | | | | | | |
| 2839-63 | N/S 2 x 0 | D | DND | 4.0 | 6.3 | 37.5 | 52.2 | 2.6 | 13,560 | 14,130 | | | | | | | |
| 2840-63 | N/S 2 x 0 | D | DND | 5.2 | 8.2 | 33.9 | 52.7 | 2.5 | 13,010 | 13,730 | | | | | | | |
| 2841-63 | N/S 2 x 0 | D | DND | 4.2 | 6.1 | 35.8 | 53.9 | 2.5 | 13,550 | 14,140 | | | | | | | |
| 2842-63 | N/S 2 x 0 | D | DND | 6.0 | 8.3 | 35.1 | 50.6 | 3.9 | 12,850 | 13,670 | | | | | | | |
| 2857-63 | N/S 2 x 0 | D | DND | 7.0 | 6.6 | 36.8 | 49.6 | 2.7 | 13,030 | 13,990 | | | | | | | |
| 2891-63 | N/S 2 x 0 | D | DND | 4.3 | 6.6 | 37.3 | 51.8 | 3.2 | 13,450 | 14,050 | | | | | | | |
| 2929-63 | N/S 2 x 0 | D | DND | 5.1 | 4.3 | 37.4 | 53.2 | 2.7 | 13,770 | 14,510 | | | | | | | |
| 2933-63 | N/S 2 x 0 | D | DND | 4.7 | 5.3 | 35.6 | 54.4 | 3.1 | 13,610 | 14,280 | | | | | | | |
| 2934-63 | N/S 2 x 0 | D | DND | 3.9 | 5.3 | 37.8 | 53.0 | 2.8 | 13,770 | 14,330 | | | | | | | |
| 2943-63 | N/S 2 x 0 | D | DND | 2.7 | 5.7 | 38.6 | 53.0 | 3.1 | 13,820 | 14,210 | | | | | | | |
| 2944-63 | N/S 2 x 0 | D | DND | 3.4 | 7.6 | 36.2 | 52.8 | 3.5 | 13,760 | 14,250 | | | | | | | |
| 2945-63 | N/S 2 x 0 | D | DND | 5.9 | 7.8 | 35.3 | 52.0 | 3.2 | 13,120 | 13,940 | | | | | | | |
| 2967-63 | N/S 2 x 0 | D | DND | 2.3 | 5.6 | 40.3 | 51.8 | 2.6 | 13,970 | 14,290 | | | | | | | |
| 3017-63 | N/S 2 x 0 | D | DND | 3.2 | 6.8 | 37.3 | 52.7 | 2.9 | 13,430 | 13,880 | | | | | | | |
| 3037-63 | N/S 2 x 0 | D | DND | 4.5 | 3.9 | 36.7 | 54.9 | 1.9 | 13,940 | 14,600 | | | | | | | |
| 3052-63 | N/S 2 x 0 | D | DND | 2.4 | 7.0 | 35.4 | 55.2 | 3.2 | 13,750 | 14,100 | | | | | | | |
| 3053-63 | N/S 2 x 0 | D | DND | 3.6 | 7.0 | 35.7 | 53.7 | 2.7 | 13,690 | 14,200 | | | | | | | |
| 3054-63 | N/S 2 x 0 | D | DND | 3.1 | 6.4 | 35.3 | 55.2 | 2.8 | 13,840 | 14,280 | | | | | | | |
| 3055-63 | N/S 2 x 0 | D | DND | 3.1 | 7.0 | 35.5 | 54.4 | 2.7 | 13,650 | 14,080 | | | | | | | |
| 3056-63 | N/S 2 x 0 | D | DND | 1.8 | 8.4 | 34.2 | 55.6 | 3.2 | 13,740 | 14,000 | | | | | | | |
| 3057-63 | N/S 2 x 0 | D | DND | 3.9 | 6.7 | 36.0 | 53.4 | 2.9 | 13,620 | 14,180 | | | | | | | |
| 3063-63 | N/S 2 x 0 | D | DND | 1.3 | 8.7 | 34.2 | 55.8 | 3.3 | 13,840 | 14,020 | | | | | | | |
| 3098-63 | N/S 2 x 0 | D | DND | 4.9 | 3.0 | 38.6 | 53.5 | 2.2 | 13,900 | 14,610 | | | | | | | |
| 3115-63 | N/S 2 x 0 | D | DND | 5.9 | 7.8 | 35.3 | 51.0 | 3.3 | 13,010 | 13,830 | | | | | | | |
| 3134-63 | N/S 2 x 0 | D | DND | 5.3 | 8.1 | 36.3 | 50.3 | 3.1 | 13,000 | 13,730 | | | | | | | |
| 3135-63 | N/S 2 x 0 | D | DND | 3.0 | 6.6 | 35.8 | 54.6 | 2.8 | 13,740 | 14,170 | | | | | | | |
| 3136-63 | N/S 2 x 0 | D | DND | 4.3 | 8.0 | 35.2 | 52.5 | 3.4 | 13,310 | 13,900 | | | | | | | |
| 3137-63 | N/S 2 x 0 | D | DND | 4.3 | 7.3 | 35.4 | 53.0 | 2.2 | 13,400 | 14,000 | | | | | | | |
| 3138-63 | N/S 2 x 0 | D | DND | 4.0 | 9.9 | 34.3 | 51.8 | 3.6 | 13,120 | 13,670 | | | | | | | |
| 3139-63 | N/S 2 x 0 | D | DND | 4.9 | 7.9 | 34.4 | 52.8 | 2.9 | 13,210 | 13,890 | | | | | | | |
| 3140-63 | N/S 2 x 0 | D | DND | 2.6 | 6.9 | 36.7 | 53.8 | 3.1 | 13,680 | 14,040 | | | | | | | |
| 3154-63 | N/S 2 x 0 | D | DND | 5.1 | 3.8 | 39.0 | 52.1 | 2.8 | 13,800 | 14,550 | | | | | | | |
| 3009-63 | N/S 1 3/4 x 0 | D | DFW | 3.2 | 5.6 | 36.3 | 54.9 | - | 14,030 | 14,490 | | | | | | | |
| 2348-63 | N/S 1 1/2 x 0 | D | DVA | 5.9 | 6.8 | 33.4 | 53.9 | 2.6 | 13,370 | 14,200 | | | | | | | |
| 2617-63 | N/S 1 1/2 x 0 | D | DND | 2.3 | 5.4 | 39.0 | 53.3 | 2.3 | 14,020 | 14,340 | | | | | | | |
| 2014-63 | N/S 1 1/4 x 0 | D | DVA | 5.9 | 7.8 | 32.9 | 53.4 | 2.6 | 13,170 | 14,000 | | | | | | | |
| 2076-63 | N/S 1 1/4 x 0 | D | Justice | 5.6 | 7.4 | 33.9 | 53.1 | 2.4 | 13,640 | 14,450 | | | | | | | |
| 2091-63 | N/S 1 1/4 x 0 | D | DND | 1.6 | 6.9 | 36.5 | 55.0 | 2.1 | 14,240 | 14,460 | | | | | | | |
| 2103-63 | N/S 1 1/4 x 0 | D | DOT | 3.6 | 9.3 | 32.4 | 54.7 | 1.9 | 13,510 | 14,010 | | | | | | | |
| 2127-63 | N/S 1 1/4 x 0 | D | Justice | 4.5 | 6.4 | 34.3 | 54.8 | 2.6 | 13,620 | 14,250 | | | | | | | |
| 2213-63 | N/S 1 1/4 x 0 | D | DVA | 6.1 | 12.3 | 32.7 | 48.9 | 2.3 | 12,510 | 13,320 | | | | | | | |
| 2375-63 | N/S 1 1/4 x 0 | D | FMP | 5.4 | 3.2 | 37.0 | 54.4 | 2.5 | 13,800 | 14,580 | | | | | | | |
| 2393-63 | N/S 1 1/4 x 0 | D | FMP | 1.5 | 3.6 | 39.2 | 55.7 | 2.9 | 14,420 | 14,640 | | | | | | | |

PROVINCE: NOVA SCOTIA

AREA: SYDNEY COAL FIELD (Continued)

OPERATOR: DOMINION COAL CO., LTD.

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|---------------|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 2422-63 | N/S 1 1/4 x 0 | D | FMP | 4.9 | 6.2 | 34.2 | 54.7 | 2.6 | 13,730 | 14,430 | | | | | | |
| 2660-63 | N/S 1 1/4 x 0 | D | DND | 2.7 | 6.0 | 36.5 | 54.8 | 2.4 | 13,840 | 14,230 | | | | | | |
| 3084-63 | N/S 1 1/4 x 0 | D | DND | 1.5 | 7.7 | 35.7 | 55.1 | 2.8 | 13,970 | 14,180 | | | | | | |
| 2568-63 | N/S — | D | DND | 4.5 | 6.1 | 35.2 | 54.2 | 2.6 | 13,710 | 14,360 | | | | | | |
| 2369-63 | Slack 1 x 0 | D | Justice | 4.2 | 7.2 | 34.3 | 54.3 | 2.4 | 13,510 | 14,100 | | | | | | |
| 2449-63 | Slack 1 x 0 | D | Justice | 4.9 | 6.0 | 34.2 | 54.9 | 2.8 | 13,410 | 14,100 | | | | | | |
| 2598-63 | Slack 1 x 0 | D | Justice | 2.7 | 5.7 | 36.4 | 55.2 | 2.4 | 13,940 | 14,340 | | | | | | |
| 2702-63 | Slack 1 x 0 | D | Justice | 2.4 | 7.9 | 35.4 | 54.3 | 2.3 | 13,780 | 14,130 | | | | | | |
| 2855-63 | Slack 1 x 0 | D | Justice | 4.0 | 8.8 | 35.4 | 53.8 | 2.4 | 13,260 | 13,810 | | | | | | |
| 2952-63 | Slack 1 x 0 | D | Justice | 2.5 | 6.8 | 36.0 | 54.7 | 2.3 | 13,890 | 14,240 | | | | | | |
| 3046-63 | Slack 1 x 0 | D | Justice | 1.7 | 6.4 | 36.4 | 55.5 | 2.2 | 14,120 | 14,370 | | | | | | |
| 3116-63 | Slack 1 x 0 | D | Justice | 2.0 | 6.6 | 35.7 | 55.7 | 2.4 | 13,980 | 14,270 | | | | | | |
| 2305-63 | Slack 3/4 x 0 | D | FMP | 2.6 | 5.4 | 36.1 | 55.9 | 3.4 | 14,100 | 14,480 | | | | | | |
| 2306-63 | Slack 3/4 x 0 | D | FMP | 1.3 | 5.2 | 36.5 | 57.0 | 3.3 | 14,390 | 14,580 | | | | | | |
| 2461-63 | Slack 3/4 x 0 | D | Justice | 8.0 | 6.5 | 32.0 | 53.5 | 2.3 | 12,850 | 13,970 | | | | | | |
| 2698-63 | Slack 3/4 x 0 | D | Justice | 4.2 | 6.0 | 34.4 | 55.4 | 2.3 | 13,530 | 14,130 | | | | | | |
| 2884-63 | Slack 3/4 x 0 | D | Justice | 6.5 | 5.2 | 33.7 | 54.6 | 2.5 | 13,600 | 14,540 | | | | | | |
| 3033-63 | Slack 3/4 x 0 | D | Justice | 4.5 | 6.2 | 34.5 | 54.8 | 2.4 | 13,480 | 14,120 | | | | | | |
| 3153-63 | Slack 3/4 x 0 | D | Justice | 8.4 | 5.3 | 34.1 | 52.2 | 2.5 | 13,220 | 14,430 | | | | | | |
| 2123-63 | Slack — | D | DVA | 4.3 | 6.7 | 34.4 | 54.6 | 2.4 | 13,660 | 14,270 | | | | | | |
| 2458-63 | Slack — | D | DVA | 5.2 | 5.9 | 35.6 | 53.3 | 2.8 | 13,500 | 14,230 | | | | | | |
| 2811-63 | Slack — | D | DVA | 4.5 | 7.4 | 35.3 | 52.8 | 3.1 | 13,280 | 13,910 | | | | | | |

OPERATOR: BRAS D'OR COAL CO., LTD. (Four Star Mine)

| | | | | | | | | | | | | | | | |
|---------|-----------------|---------|-----|-----|------|------|------|-----|--------|--------|-------|-------|-------|-------|--|
| 2178-63 | Lump 1 x 6 | D | DND | 2.3 | 10.0 | 35.5 | 52.2 | 5.5 | 13,160 | 13,470 | | | | | |
| 2264-63 | Lump 1 x 6 | D | DND | 3.8 | 9.8 | 34.5 | 51.9 | 5.9 | 12,830 | 13,330 | | | | | |
| 2265-63 | Lump 1 x 6 | D | DND | 2.4 | 16.8 | 31.7 | 49.1 | 5.0 | 11,770 | 12,060 | | | | | |
| 2492-63 | Lump 1 x 6 | D | DND | 2.1 | 12.1 | 34.5 | 51.3 | 6.9 | 12,640 | 12,910 | | | | | |
| 2526-63 | Lump 1 x 6 | D | DND | 2.0 | 13.2 | 35.2 | 49.6 | 6.7 | 12,270 | 12,520 | | | | | |
| 2968-63 | Lump 1 x 6 | D | DND | 1.2 | 9.6 | 34.7 | 54.5 | 6.3 | 13,100 | 13,260 | | | | | |
| 3018-63 | Lump 1 x 6 | S | FMP | 1.1 | 9.6 | 33.6 | 55.7 | 6.4 | 13,150 | 13,290 | | | | | |
| 2587-63 | F/S 2 x 1/8 | D | DND | 4.0 | 13.0 | 33.6 | 49.4 | 7.3 | 12,230 | 12,740 | | | | | |
| 2061-63 | F/S 1 1/4 x 1/4 | D | DND | 1.5 | 11.8 | 34.3 | 52.4 | 6.2 | 13,000 | 13,190 | | | | | |
| 2172-63 | F/S 1 1/4 x 1/4 | D | DND | 2.5 | 9.3 | 35.0 | 53.2 | 6.0 | 12,990 | 13,320 | | | | | |
| 2304-63 | F/S 1 1/4 x 1/4 | D | DND | 4.9 | 9.9 | 33.9 | 51.3 | 5.6 | 12,560 | 13,210 | | | | | |
| 2389-63 | F/S 1 1/4 x 1/4 | D | DND | 1.7 | 10.4 | 35.1 | 52.8 | 6.6 | 13,050 | 13,270 | | | | | |
| 2209-63 | F/S 1 1/4 x 1/8 | D | DND | 5.2 | 10.2 | 33.9 | 50.7 | 5.9 | 12,400 | 13,090 | | | | | |
| 2567-63 | F/S 3/4 x 1/4 | D | DND | 3.3 | 8.6 | 36.3 | 51.8 | 5.8 | 13,220 | 13,680 | | | | | |
| 2637-63 | Slack 3/4 x 0 | D | DND | 4.0 | 11.2 | 34.4 | 50.4 | 5.8 | 12,320 | 12,830 | | | | | |
| 2716-63 | Slack 3/4 x 0 | D | DND | 2.3 | 8.9 | 36.9 | 51.9 | 5.2 | 13,130 | 13,440 | | | | | |
| 2996-63 | Slack 3/4 x 0 | D | DND | 1.8 | 11.0 | 36.5 | 50.7 | 5.7 | 12,720 | 12,950 | | | | | |
| 3071-63 | Slack 3/4 x 0 | D | DND | 3.4 | 10.1 | 35.1 | 51.4 | 5.1 | 12,840 | 13,300 | | | | | |
| 3109-63 | Slack 3/4 x 0 | D | DND | 4.0 | 12.8 | 33.0 | 50.2 | 5.9 | 12,160 | 12,660 | | | | | |
| 3147-63 | Slack 3/4 x 0 | D | DND | 3.3 | 7.3 | 35.7 | 53.7 | 5.2 | 13,230 | 13,680 | | | | | |
| 2972-63 | Not designated | Special | FMP | 1.2 | 11.0 | 36.9 | 50.9 | 5.8 | 12,950 | 13,100 | 2,160 | 2,320 | 2,410 | 2,540 | |

OPERATOR: INDIAN COVE COAL CO., LTD. (Tomson and Greener Mines)

| | | | | | | | | | | | | | | | |
|---------|---------------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|
| 2028-63 | Slack 3/4 x 0 | D | DND | 6.9 | 11.7 | 32.2 | 48.2 | 5.4 | 11,690 | 12,690 | | | | | |
| 2084-63 | Slack 3/4 x 0 | D | DND | 7.2 | 10.7 | 33.3 | 48.8 | 5.2 | 12,200 | 13,150 | | | | | |
| 2129-63 | Slack 3/4 x 0 | D | DND | 2.7 | 11.0 | 34.6 | 51.7 | 5.7 | 12,670 | 13,010 | | | | | |
| 2229-63 | Slack 3/4 x 0 | D | DND | 4.3 | 9.3 | 35.2 | 51.2 | 4.6 | 12,680 | 13,250 | | | | | |
| 2287-63 | Slack 3/4 x 0 | D | DND | 3.2 | 9.4 | 36.8 | 50.6 | 5.8 | 12,790 | 13,210 | | | | | |
| 2405-63 | Slack 3/4 x 0 | D | DND | 3.0 | 12.1 | 34.7 | 50.2 | 6.4 | 12,370 | 12,750 | | | | | |
| 2457-63 | Slack 3/4 x 0 | D | DND | 6.6 | 4.3 | 37.2 | 51.9 | 2.8 | 13,210 | 14,140 | | | | | |
| 2505-63 | Slack 3/4 x 0 | D | DND | 3.8 | 10.1 | 35.1 | 51.0 | 5.1 | 12,620 | 13,120 | | | | | |

AREA: INVERNESS COAL FIELD

OPERATOR: CHESTICO MINING CORP., LTD.

| | | | | | | | | | | | | | | | |
|---------|----------------|---|-----|-----|------|------|------|-----|--------|--------|-------|-------|-------|-------|--|
| 2421-63 | N/S 1 1/4 x 0 | D | FMP | 3.8 | 10.8 | 35.8 | 49.6 | 6.6 | 12,250 | 12,740 | | | | | |
| 3126-63 | Not designated | D | DOT | 6.6 | 15.3 | 32.3 | 45.8 | 7.4 | 11,040 | 11,810 | 1,970 | 2,105 | 2,185 | 2,310 | |

MAINLAND COAL FIELDS

AREA: PICTOU COAL FIELD

OPERATOR: ACADIA COAL COMPANY LTD.

| | | | | | | | | | | | | | | | |
|---------|--------------------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|
| 2180-63 | Slack 1 1/2 x 1/32 | D | DND | 6.3 | 10.8 | 26.2 | 56.7 | 0.4 | 12,620 | 13,460 | | | | | |
| 2621-63 | Slack 1 1/2 x 1/32 | D | DND | 4.3 | 13.3 | 28.3 | 54.1 | 0.5 | 12,270 | 12,820 | | | | | |
| 2653-63 | Slack 1 1/2 x 1/32 | D | DND | 3.5 | 10.8 | 30.2 | 55.5 | 0.7 | 12,930 | 13,410 | | | | | |
| 2654-63 | Slack 1 1/2 x 1/32 | D | DND | 4.5 | 10.9 | 28.8 | 55.8 | 0.7 | 12,680 | 13,270 | | | | | |
| 2655-63 | Slack 1 1/2 x 1/32 | D | DND | 4.4 | 11.0 | 29.4 | 55.2 | 1.0 | 12,900 | 13,490 | | | | | |
| 2656-63 | Slack 1 1/2 x 1/32 | D | DND | 3.4 | 10.0 | 28.3 | 58.3 | 0.8 | 13,050 | 13,500 | | | | | |
| 2657-63 | Slack 1 1/2 x 1/32 | D | DND | 4.1 | 10.7 | 29.2 | 56.0 | 0.6 | 12,910 | 13,460 | | | | | |
| 2676-63 | Slack 1 1/2 x 1/32 | D | DND | 2.1 | 11.9 | 28.5 | 57.5 | 0.5 | 12,890 | 13,160 | | | | | |
| 2696-63 | Slack 1 1/2 x 1/32 | D | DND | 2.7 | 10.9 | 31.0 | 55.4 | 0.6 | 13,090 | 13,440 | | | | | |
| 2733-63 | Slack 1 1/2 x 1/32 | D | DND | 3.6 | 10.7 | 28.4 | 57.3 | 0.7 | 12,790 | 13,260 | | | | | |
| 2734-63 | Slack 1 1/2 x 1/32 | D | DND | 3.3 | 10.8 | 28.9 | 57.0 | 0.6 | 12,890 | 13,340 | | | | | |

PROVINCE: NOVA SCOTIA

AREA: PICTOU COAL FIELD (Continued)

OPERATOR: ACADIA COAL COMPANY LTD.

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|---------------|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 3061-63 | Slack 1 1/2 x 1/32 | D | DND | 3.7 | 13.8 | 27.2 | 55.3 | 0.8 | 12,370 | 12,850 | | | | | | |
| 3102-63 | Slack 1 1/2 x 1/32 | D | DND | 4.9 | 11.5 | 29.8 | 53.8 | 0.7 | 13,130 | 13,800 | | | | | | |
| 3133-63 | Slack 1 1/2 x 1/32 | D | DND | 5.2 | 12.1 | 27.1 | 55.6 | 0.8 | 12,360 | 13,180 | | | | | | |
| 2953-63 | Slack 1 1/2 x 1/32 | D | DND | 2.7 | 11.7 | 28.4 | 57.2 | 0.7 | 12,830 | 13,040 | | | | | | |
| 3008-63 | Slack 1 1/2 x 1/32 | D | DND | 3.3 | 10.5 | 27.7 | 58.5 | 0.5 | 13,080 | 13,530 | | | | | | |

AREA: CUMBERLAND COAL FIELD

OPERATOR: SPRINGHILL COAL MINES LTD.

| | | | | | | | | | | | | | | | | |
|---------|-----------------|---|---------|-----|------|------|------|-----|--------|--------|--|--|--|--|--|--|
| 2089-63 | Nut 1 3/4 x 2 | D | Justice | 5.9 | 19.5 | 27.8 | 46.8 | 2.4 | 10,820 | 11,500 | | | | | | |
| 2429-63 | Nut 1 3/4 x 2 | D | Justice | 3.0 | 18.6 | 29.6 | 48.8 | 2.4 | 11,970 | 12,340 | | | | | | |
| 2810-63 | Nut 1 3/4 x 2 | D | Justice | 3.4 | 22.8 | 29.2 | 44.6 | 2.5 | 10,610 | 10,980 | | | | | | |
| 2962-63 | Nut 1 3/4 x 2 | D | Justice | 2.7 | 19.6 | 30.9 | 46.8 | 2.6 | 11,160 | 11,460 | | | | | | |
| 2843-63 | P/S 1 1/4 x 1/8 | D | DND | 6.5 | 19.2 | 29.2 | 45.1 | 2.3 | 10,790 | 11,530 | | | | | | |
| 2088-63 | P/S 1 x 1/4 | D | Justice | 7.5 | 16.7 | 28.2 | 47.6 | 2.7 | 10,950 | 11,840 | | | | | | |
| 2065-63 | P/S 3/4 x 1/4 | D | Justice | 5.2 | 15.5 | 29.9 | 49.4 | 2.7 | 11,620 | 12,260 | | | | | | |
| 2303-63 | P/S 3/4 x 1/4 | D | Justice | 5.2 | 15.2 | 29.7 | 49.9 | 2.6 | 11,740 | 12,390 | | | | | | |
| 2537-63 | P/S 3/4 x 1/4 | D | Justice | 5.8 | 18.8 | 28.9 | 46.5 | 2.5 | 11,020 | 11,700 | | | | | | |
| 2616-63 | P/S 3/4 x 1/4 | D | Justice | 5.1 | 18.6 | 29.5 | 46.8 | 2.7 | 11,030 | 11,630 | | | | | | |
| 2844-63 | P/S 3/4 x 1/4 | D | Justice | 4.7 | 19.5 | 29.7 | 46.1 | 2.5 | 11,070 | 11,620 | | | | | | |
| 2538-63 | Slack 3/4 x 0 | D | Justice | 7.3 | 15.4 | 29.1 | 48.2 | 2.3 | 11,310 | 12,210 | | | | | | |

NEW BRUNSWICK

MINTO COAL FIELD

AREA: MINTO AND CHIPMAN

OPERATOR: AVON COAL CO., LTD.

| | | | | | | | | | | | | | | | | |
|---------|-------------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|--|
| 2058-63 | Slack 1 x 0 | D | DND | 4.0 | 18.1 | 30.4 | 47.5 | 7.2 | 11,880 | 12,380 | | | | | | |
| 2078-63 | Slack 1 x 0 | D | DND | 5.0 | 16.6 | 31.2 | 47.2 | 7.1 | 11,930 | 12,560 | | | | | | |
| 2085-63 | Slack 1 x 0 | D | DND | 4.5 | 15.1 | 31.9 | 48.5 | 7.4 | 12,270 | 12,850 | | | | | | |
| 2107-63 | Slack 1 x 0 | D | DND | 4.4 | 17.1 | 30.7 | 47.8 | 6.9 | 11,820 | 12,370 | | | | | | |
| 2176-63 | Slack 1 x 0 | D | DND | 4.2 | 15.6 | 31.6 | 48.6 | 7.1 | 12,170 | 12,710 | | | | | | |
| 2217-63 | Slack 1 x 0 | D | DND | 5.6 | 15.2 | 30.9 | 48.3 | 7.0 | 12,100 | 12,810 | | | | | | |
| 2288-63 | Slack 1 x 0 | D | DND | 4.7 | 16.3 | 31.8 | 47.2 | 6.6 | 11,920 | 12,500 | | | | | | |
| 2310-63 | Slack 1 x 0 | D | DND | 5.0 | 15.6 | 32.0 | 47.4 | 6.8 | 12,120 | 12,760 | | | | | | |
| 2333-63 | Slack 1 x 0 | D | DND | 7.1 | 17.8 | 29.6 | 45.5 | 6.6 | 11,280 | 12,140 | | | | | | |
| 2341-63 | Slack 1 x 0 | D | DND | 5.3 | 16.2 | 30.8 | 47.7 | 6.6 | 11,860 | 12,520 | | | | | | |
| 2368-63 | Slack 1 x 0 | D | DND | 5.0 | 19.3 | 30.0 | 45.7 | 7.3 | 11,540 | 12,150 | | | | | | |
| 2417-63 | Slack 1 x 0 | D | DND | 3.7 | 22.8 | 29.0 | 44.5 | 7.2 | 11,090 | 11,520 | | | | | | |
| 2593-63 | Slack 1 x 0 | D | DND | 3.2 | 16.3 | 31.8 | 48.7 | 7.0 | 12,130 | 12,520 | | | | | | |
| 2700-63 | Slack 1 x 0 | D | DND | 3.0 | 17.2 | 32.0 | 47.8 | 6.9 | 11,840 | 12,200 | | | | | | |
| 2829-63 | Slack 1 x 0 | D | DND | 9.8 | 16.1 | 30.4 | 43.7 | 7.1 | 11,150 | 12,360 | | | | | | |
| 3070-63 | Slack 1 x 0 | D | DND | 4.1 | 17.3 | 32.6 | 46.0 | 7.1 | 11,680 | 12,180 | | | | | | |
| 3125-63 | Slack 1 x 0 | D | DND | 3.3 | 16.4 | 32.7 | 47.6 | 7.1 | 12,060 | 12,470 | | | | | | |
| 3148-63 | Slack 1 x 0 | D | DND | 4.7 | 15.6 | 31.0 | 48.7 | 7.4 | 12,120 | 12,720 | | | | | | |

OPERATOR: MILLS, D.W. & R.A., LTD.

| | | | | | | | | | | | | | | | | |
|---------|-----------------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|--|
| 3081-63 | P/S 1 1/2 x 1/2 | D | DND | 1.7 | 15.8 | 33.4 | 49.1 | 6.5 | 12,620 | 12,840 | | | | | | |
| 2602-63 | P/S 1 1/2 x 3/8 | D | DND | 1.1 | 14.1 | 34.8 | 50.0 | 7.0 | 12,900 | 13,040 | | | | | | |
| 2085-63 | P/S 1 1/4 x 1/4 | D | DND | 4.5 | 15.1 | 31.9 | 48.5 | 7.4 | 12,270 | 12,850 | | | | | | |
| 2446-63 | P/S 1 1/4 x 1/4 | D | DND | 1.0 | 14.3 | 33.7 | 51.0 | 7.0 | 12,920 | 13,050 | | | | | | |
| 2961-63 | P/S 1 1/4 x 1/4 | D | DND | 1.3 | 12.9 | 34.4 | 51.4 | 6.7 | 13,120 | 13,290 | | | | | | |
| 3086-63 | P/S 1 1/4 x 1/4 | D | DND | 1.0 | 11.1 | 35.9 | 52.0 | 6.0 | 13,470 | 13,600 | | | | | | |
| 3152-63 | P/S 1 1/4 x 1/4 | D | DND | 0.8 | 12.3 | 35.0 | 51.9 | 6.1 | 13,370 | 13,480 | | | | | | |
| 2697-63 | S/P 3/4 x 1/4 | D | DFW | 1.3 | 13.3 | 34.4 | 51.0 | 6.6 | 12,990 | 13,160 | | | | | | |
| 3122-63 | S/P 3/4 x 1/4 | D | DFW | 2.5 | 12.8 | 33.9 | 50.8 | 6.2 | 12,850 | 13,190 | | | | | | |
| 2336-63 | Pea Stoker | D | DFW | 0.8 | 17.3 | 33.2 | 48.7 | 5.7 | 12,520 | 12,620 | | | | | | |
| 2674-63 | P/S 2 x 0 | D | DND | 1.0 | 9.4 | 36.9 | 52.7 | 5.4 | 13,770 | 13,920 | | | | | | |

OPERATOR: NEWCASTLE COAL CO., LTD.

| | | | | | | | | | | | | | | | | |
|---------|-----------------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|--|
| 2330-63 | P/S 1 1/4 x 1/8 | D | DND | 0.5 | 18.2 | 32.4 | 48.9 | 6.9 | 12,490 | 12,560 | | | | | | |
| 3016-63 | P/S 1 1/4 x 1/8 | D | DND | 0.7 | 18.2 | 32.0 | 49.1 | 9.6 | 12,320 | 12,410 | | | | | | |

SASKATCHEWAN

SOURIS VALLEY DISTRICT

AREA: ESTEVAN

OPERATOR: GREAT WEST COAL CO., LTD.

| | | | | | | | | | | | | | | | | |
|---------|---------------------|---|---------|------|-----|------|------|-----|-------|--------|-------|-------|-------|-------|--|--|
| 2754-63 | Booker 2 x 1 1/2 sq | T | FMP | 34.7 | 6.0 | 31.4 | 27.9 | 0.5 | 7,180 | 11,000 | 1,900 | 2,210 | 2,280 | 2,330 | | |
| 2003-63 | P/S 1 x 1 1/2 | D | Justice | 33.0 | 6.8 | 27.8 | 32.4 | 0.6 | 7,640 | 11,400 | | | | | | |
| 2032-63 | P/S 1 x 1 1/2 | D | Justice | 33.9 | 6.8 | 27.1 | 32.2 | 0.9 | 7,510 | 11,360 | | | | | | |
| 2094-63 | P/S 1 x 1 1/2 | D | Justice | 33.8 | 7.3 | 28.2 | 30.7 | 0.6 | 7,440 | 11,240 | | | | | | |
| 2128-63 | P/S 1 x 1 1/2 | D | Justice | 37.1 | 6.5 | 25.4 | 31.0 | 0.5 | 7,100 | 11,280 | | | | | | |

PROVINCE: SASKATCHEWAN
SOURIS VALLEY DISTRICT

AREA: ESTEVAN (Continued)

OPERATOR: GREAT WEST COAL CO., LTD.

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|---------------|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 134-63 | Pea 1 x 1/4 | D | Justice | 28.8 | 9.5 | 28.6 | 33.1 | 0.6 | 7,580 | 10,640 | | | | | | |
| 456-63 | Pea 1 x 1/4 | D | Justice | 36.6 | 6.2 | 25.1 | 32.1 | 0.3 | 7,160 | 11,300 | | | | | | |
| 756-63 | Pea 1 x 1/4 sq | T | FMP | 34.3 | 7.1 | 27.0 | 31.5 | 0.5 | 7,290 | 11,100 | 1,920 | 2,220 | 2,270 | 2,350 | 30 | |
| 607-63 | N/S 1 1/4 x 0 | D | Justice | 30.0 | 6.5 | 29.5 | 34.0 | 0.6 | 8,030 | 11,480 | | | | | | |
| 703-63 | N/S 1 1/4 x 0 | D | Justice | 22.7 | 9.6 | 30.5 | 37.2 | 1.0 | 8,400 | 10,870 | | | | | | |
| 856-63 | N/S 1 1/4 x 0 | D | Justice | 35.7 | 6.6 | 28.7 | 29.0 | 0.7 | 7,340 | 11,410 | | | | | | |
| 966-63 | N/S 1 1/4 x 0 | D | Justice | 30.0 | 6.7 | 28.4 | 34.9 | 0.5 | 7,830 | 11,180 | | | | | | |
| 113-63 | N/S 1 1/4 x 0 | D | Justice | 34.1 | 7.2 | 26.3 | 32.4 | 0.6 | 7,290 | 11,070 | | | | | | |
| 121-63 | N/S 1 1/4 x 0 | D | Justice | 34.7 | 8.2 | 25.5 | 31.6 | 1.1 | 7,180 | 11,000 | | | | | | |
| 496-63 | N/S 1 1/4 x 0 | D | Justice | 34.8 | 6.8 | 29.9 | 32.5 | 0.9 | 7,280 | 11,160 | | | | | | |
| 546-63 | N/S 1 1/4 x 0 | D | Justice | 33.3 | 6.7 | 28.1 | 31.9 | 0.4 | 7,400 | 11,090 | | | | | | |
| 755-63 | N/S 1 1/4 x 0 | T | FMP | 36.1 | 6.2 | 28.7 | 29.0 | 0.6 | 7,020 | 10,990 | 1,940 | 2,260 | 2,310 | 2,330 | 34 | |
| 757-63 | Bug Dust - 1/2 sq | T | FMP | 35.7 | 6.6 | 28.8 | 28.9 | 0.5 | 7,080 | 11,010 | 1,920 | 2,270 | 2,300 | 2,360 | 37 | |

OPERATOR: UTILITY COALS LTD.

| | | | | | | | | | | | | | | | | |
|--------|----------------|------|-----|------|-----|------|------|-----|-------|--------|-------|-------|-------|-------|--|--|
| 753-63 | Channel Sample | Mine | FMP | 34.5 | 8.6 | 31.4 | 25.5 | 0.4 | 6,770 | 10,340 | 1,870 | 2,150 | 2,240 | 2,300 | | |
|--------|----------------|------|-----|------|-----|------|------|-----|-------|--------|-------|-------|-------|-------|--|--|

AREA: BIENFAIT

OPERATOR: MANITOBA & SASKATCHEWAN COAL CO., LTD.

| | | | | | | | | | | | | | | | | |
|--------|---------------------|---|-----|------|-----|------|------|-----|-------|--------|-------|-------|-------|-------|----|--|
| 790-63 | Stove 4 x 2 sq | T | FMP | 35.6 | 5.8 | 29.9 | 28.7 | 0.5 | 7,240 | 11,250 | 1,910 | 2,120 | 2,230 | 2,490 | 41 | |
| 787-63 | Booker 2 x 1 1/4 sq | T | FMP | 33.7 | 7.2 | 27.4 | 31.7 | 0.7 | 7,360 | 11,110 | 1,880 | 2,100 | 2,200 | 2,470 | 42 | |
| 699-63 | Stoker 1 x 1/4 | D | DND | 31.4 | 6.5 | 29.7 | 32.4 | 0.4 | 7,740 | 11,280 | | | | | | |
| 758-63 | Stoker 1 x 1/4 | D | DND | 31.8 | 6.5 | 29.1 | 32.6 | 0.5 | 7,560 | 11,080 | | | | | | |
| 814-63 | Stoker 1 x 1/4 | D | DND | 30.2 | 7.3 | 31.9 | 30.6 | 0.6 | 7,890 | 11,300 | | | | | | |
| 899-63 | Stoker 1 x 1/4 | D | DND | 31.5 | 7.0 | 29.9 | 31.6 | 0.6 | 7,790 | 11,370 | | | | | | |
| 923-63 | Stoker 1 x 1/4 | D | DND | 30.7 | 7.2 | 28.3 | 33.8 | 0.6 | 7,700 | 11,120 | | | | | | |
| 007-63 | Stoker 1 x 1/4 | D | DND | 29.1 | 6.4 | 25.1 | 29.4 | 0.4 | 6,730 | 11,040 | | | | | | |
| 060-63 | Stoker 1 x 1/4 | D | DND | 31.4 | 7.3 | 28.2 | 33.1 | 0.5 | 7,660 | 11,170 | | | | | | |
| 097-63 | Stoker 1 x 1/4 | D | DND | 32.9 | 6.9 | 28.0 | 32.2 | 0.5 | 7,470 | 11,140 | | | | | | |
| 103-63 | Stoker 1 x 1/4 | D | DND | 32.3 | 7.0 | 27.7 | 33.0 | 0.5 | 7,510 | 11,100 | | | | | | |
| 131-63 | Stoker 1 x 1/4 | D | DND | 32.4 | 7.1 | 28.8 | 31.7 | 0.6 | 7,560 | 11,190 | | | | | | |
| 132-63 | Stoker 1 x 1/4 | D | DND | 32.0 | 6.4 | 28.7 | 32.9 | 0.5 | 7,790 | 11,460 | | | | | | |
| 155-63 | Stoker 1 x 1/4 | D | DND | 30.1 | 5.5 | 30.0 | 34.4 | 0.4 | 7,770 | 11,110 | | | | | | |
| 156-63 | Stoker 1 x 1/4 | D | DND | 34.0 | 6.0 | 27.0 | 33.0 | 0.4 | 7,220 | 10,940 | | | | | | |
| 788-63 | Pea 1 1/4 x 1/2 sq | T | FMP | 35.1 | 7.3 | 27.7 | 29.9 | 0.5 | 7,150 | 11,010 | 1,920 | 2,130 | 2,250 | 2,540 | 49 | |
| 789-63 | Fines - 1/2 sq | T | FMP | 32.7 | 8.0 | 27.8 | 31.5 | 0.6 | 7,320 | 10,880 | 1,940 | 2,100 | 2,230 | 2,510 | 54 | |

ALBERTA

BITUMINOUS COAL

AREA: CASCADE

OPERATOR: CANMORE MINES LTD., Wilson & Stewart Seams

| | | | | | | | | | | | | | | | | |
|--------|------------|---|-----|-----|-----|------|------|-----|--------|--------|--------|-------|-------|-------|----|--|
| 851-63 | R/M Wilson | T | FMP | 3.2 | 9.1 | 12.8 | 74.9 | 0.9 | 13,400 | 13,850 | 2,330 | 2,460 | 2,670 | 2,740 | 88 | |
| 852-63 | R/M Stuart | T | FMP | 2.0 | 9.8 | 16.6 | 71.6 | 0.8 | 13,670 | 13,940 | 2,750+ | + | + | + | 97 | |

OPERATOR: CANMORE MINES LTD., Mine No. 3

| | | | | | | | | | | | | | | | | |
|---------|--------------------------|---|------|-----|-----|------|------|-----|--------|--------|--------|---|---|---|-----|--|
| 345-63 | Cobble 5 rdx 2 1/2 sq | T | FMP | 2.8 | 5.3 | 14.1 | 77.8 | 0.7 | 14,510 | 14,920 | 2,750+ | + | + | + | | |
| 346-63 | Stove 2 1/2 x 1 1/4 | T | FMP | 3.8 | 6.5 | 14.2 | 75.5 | 0.8 | 14,110 | 14,670 | 2,750+ | + | + | + | | |
| 347-63 | Chestnut 2 rd x 1 1/4 sq | T | FMP | 4.2 | 9.7 | 14.0 | 72.1 | 0.7 | 13,370 | 13,960 | 2,750+ | + | + | + | 84 | |
| 639-63 | P/S 2 x 1/4 | D | DND | 3.0 | 8.5 | 14.6 | 73.9 | 0.8 | 13,720 | 14,140 | | | | | | |
| 659-63 | P/S 2 x 1/4 | D | DND | 2.1 | 8.3 | 14.6 | 75.0 | 0.9 | 14,040 | 14,340 | | | | | | |
| 348-63 | Stoker 1 1/4 x 1/4 sq | T | FMP | 6.6 | 4.7 | 14.1 | 74.6 | 0.7 | 13,850 | 14,830 | 2,750+ | + | + | + | 105 | |
| 097-63 | P/S 1 1/4 x 1/4 | D | NHW | 1.1 | 8.2 | 14.6 | 76.1 | 1.0 | 14,100 | 14,250 | | | | | | |
| 126-63 | P/S 1 1/4 x 1/4 | D | NHW | 1.3 | 7.5 | 14.3 | 76.9 | 0.9 | 14,370 | 14,550 | | | | | | |
| 131-63 | P/S 1 1/4 x 1/4 | D | DND | 3.5 | 7.3 | 13.0 | 76.2 | 1.0 | 13,900 | 14,400 | | | | | | |
| 135-63 | P/S 1 1/4 x 1/4 | D | Comm | 4.9 | 6.8 | 13.2 | 75.1 | 0.8 | 13,680 | 14,380 | | | | | | |
| 207-63 | P/S 1 1/4 x 1/4 | D | NHW | 0.8 | 9.0 | 14.1 | 76.1 | 0.9 | 14,230 | 14,340 | | | | | | |
| 208-63 | P/S 1 1/4 x 1/4 | D | NHW | 0.9 | 7.9 | 13.8 | 77.4 | 0.9 | 14,300 | 14,430 | | | | | | |
| 248-63 | P/S 1 1/4 x 1/4 | D | NHW | 0.9 | 8.3 | 14.3 | 76.5 | 0.8 | 14,320 | 14,460 | | | | | | |
| 528-63 | P/S 1 1/4 x 1/4 | D | NHW | 2.2 | 5.2 | 14.2 | 78.4 | 0.9 | 14,400 | 14,720 | | | | | | |
| 536-63 | P/S 1 1/4 x 1/4 | D | NHW | 1.5 | 8.7 | 15.0 | 74.8 | 0.9 | 13,820 | 14,030 | | | | | | |
| 545-63 | P/S 1 1/4 x 1/4 | D | NHW | 0.9 | 6.8 | 14.5 | 77.8 | 0.8 | 14,360 | 14,490 | | | | | | |
| 558-63 | P/S 1 1/4 x 1/4 | D | NHW | 1.5 | 6.5 | 13.7 | 78.3 | 1.3 | 14,480 | 14,700 | | | | | | |
| 326-63 | P/S 1 1/4 x 1/4 | D | DND | 3.5 | 7.1 | 15.4 | 74.0 | 0.9 | 14,180 | 14,690 | | | | | | |
| 196-63 | Buckwheat | D | FMP | 0.9 | 8.5 | 13.9 | 76.7 | 0.9 | 14,230 | 14,360 | | | | | | |
| 349-63* | Buckwheat 3/16 slot | T | FMP | 5.1 | 6.8 | 12.9 | 75.2 | 0.7 | 13,690 | 14,430 | 2,750+ | + | + | + | 61 | |

PROVINCE: ALBERTA

AREA: CASCADE (Continued)

OPERATOR: CANMORE MINES LTD., MINE NO. 3

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|--------------------------------------|--------------------------|----------------|------------|---|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 2850-63 | Slack -3/16 slot | T | FMP | 4.2 | 7.9 | 13.3 | 74.6 | 0.7 | 13,680 | 14,290 | 2,750+ | + | + | + | 77 | |
| 2883-63 | Briquettes | D | DND | 1.7 | 9.3 | 19.0 | 70.0 | 0.9 | 13,910 | 14,150 | | | | | | |
| AREA: CROWSNEST | | | | OPERATOR: COLEMAN COLLIERIES LTD., Vicary Cre Mine | | | | | | | | | | | | |
| 2853-63 | Export 2x1/4 | T | FMP | 4.2 | 8.3 | 21.9 | 65.6 | 0.7 | 13,570 | 14,160 | 2,750+ | + | + | + | 78 | 6.0 |
| 2854-63 | Export 1/4x0 | T | FMP | 3.5 | 7.7 | 22.5 | 66.3 | 0.6 | 13,760 | 14,260 | 2,750+ | + | + | + | 81 | 6.0 |
| 2589-63 | Export Coal | S | Mine | 1.1 | 8.4 | 22.7 | 67.8 | 0.8 | 14,110 | 14,270 | | | | | | |
| AREA: WEST CANADIAN COLLIERIES LTD. | | | | OPERATOR: WEST CANADIAN COLLIERIES LTD. | | | | | | | | | | | | |
| 2901-63 | Ch. Sample top | Mine | FMP | 1.0 | 18.5 | 21.4 | 59.1 | 0.5 | 12,020 | 12,150 | 2,750+ | + | + | + | 72 | |
| 2902-63 | Ch. Sample bottom | Mine | FMP | 1.2 | 22.1 | 21.8 | 54.9 | 0.6 | 11,300 | 11,440 | 2,750+ | + | + | + | 70 | |
| SUBBITUMINOUS COALS | | | | OPERATOR: LYNASS COAL CO., Mine #1734 | | | | | | | | | | | | |
| 2629-63 | Channel | S | Geo. S | 17.2 | 14.6 | 30.4 | 37.8 | 0.5 | 8,630 | 10,410 | | | | | | |
| AREA: CASTOR | | | | OPERATOR: BATTLE RIVER COAL CO., LTD., Mine # | | | | | | | | | | | | |
| 2630-63 | Channel | S | Geo. S | 23.7 | 6.8 | 31.0 | 38.5 | 0.5 | 8,750 | 11,470 | | | | | | |
| AREA: DRUMHELLER | | | | OPERATOR: FORRESTBURG COLLIERIES LTD., Mine # | | | | | | | | | | | | |
| 3064-63 | Nut 2x3/4 | D | DND | 21.7 | 6.7 | 31.2 | 40.4 | 0.6 | 9,260 | 11,830 | | | | | | |
| AREA: DRUMHELLER | | | | OPERATOR: AMALGAMATED COALS LTD., Mine #1573 | | | | | | | | | | | | |
| 2627-63 | Channel | S | Geo. S | 17.3 | 9.4 | 32.2 | 41.1 | 0.6 | 9,250 | 11,180 | | | | | | |
| AREA: CENTURY COALS LTD., Mine #1742 | | | | OPERATOR: CENTURY COALS LTD., Mine #1742 | | | | | | | | | | | | |
| 2871-63 | Nut 2x3/4 | D | DND | 16.2 | 11.5 | 31.0 | 41.3 | 0.7 | 9,430 | 11,250 | | | | | | |
| AREA: COZY COAL MINES, Mine #1655 | | | | OPERATOR: COZY COAL MINES, Mine #1655 | | | | | | | | | | | | |
| 2628-63 | Channel | S | Geo. S | 16.8 | 12.2 | 31.0 | 40.0 | 0.7 | 9,050 | 10,880 | | | | | | |
| AREA: DRUMHELLER COAL OPERATORS | | | | OPERATOR: DRUMHELLER COAL OPERATORS | | | | | | | | | | | | |
| 2561-63 | Slack 3/4x0 | D | Justice | 16.3 | 14.0 | 31.8 | 37.9 | 1.3 | 8,990 | 10,740 | | | | | | |
| 2701-63 | Slack 3/4x0 | D | Justice | 16.8 | 9.7 | 31.3 | 42.2 | 0.8 | 9,540 | 11,460 | | | | | | |
| 3099-63 | Slack 3/4x0 | D | Justice | 18.3 | 11.3 | 30.1 | 40.4 | 0.4 | 8,910 | 10,900 | | | | | | |
| AREA: TABER | | | | OPERATOR: ALBERTA COAL SALES LTD., Mine #1604 | | | | | | | | | | | | |
| 2270-63 | Stoker 2x1/4 | D | DND | 11.4 | 10.4 | 32.1 | 46.1 | 1.3 | 10,590 | 11,960 | | | | | | |
| 2337-63 | Stoker 2x1/4 | D | DND | 11.9 | 8.9 | 32.7 | 46.5 | 1.0 | 10,530 | 11,940 | | | | | | |
| 2494-63 | Stoker 2x1/4 | D | DND | 11.8 | 11.7 | 33.5 | 43.0 | 1.1 | 10,090 | 11,440 | | | | | | |
| 3124-63 | Stoker 2x1/4 | D | DND | 11.4 | 11.1 | 32.4 | 45.1 | 1.4 | 10,390 | 11,730 | | | | | | |
| BRITISH COLUMBIA | | | | OPERATOR: COMOX MINING CO., LTD. | | | | | | | | | | | | |
| VANCOUVER ISLAND DISTRICT | | | | OPERATOR: COMOX MINING CO., LTD. | | | | | | | | | | | | |
| AREA: T'SABLE RIVER | | | | OPERATOR: COMOX MINING CO., LTD. | | | | | | | | | | | | |
| 3112-63 | Lump 4 x 1 | D | DND | 0.9 | 19.6 | 30.2 | 49.3 | 2.6 | 11,610 | 11,720 | | | | | | |
| 2098-63 | P/S 1 1/4x1/4 | D | DND | 5.5 | 16.2 | 31.2 | 47.1 | 1.3 | 11,420 | 12,080 | | | | | | |
| 2130-63 | P/S 1 1/4x1/4 | D | DND | 3.2 | 11.7 | 32.7 | 52.4 | 1.0 | 12,740 | 13,150 | | | | | | |
| 2242-63 | P/S 1 1/4x1/4 | D | DND | 4.3 | 11.3 | 28.8 | 55.6 | 1.9 | 12,560 | 13,130 | | | | | | |
| 2243-63 | P/S 1 1/4x1/4 | D | DND | 4.2 | 15.3 | 29.6 | 50.9 | 1.9 | 11,920 | 12,440 | | | | | | |
| 2266-63 | P/S 1 1/4x1/4 | D | DND | 1.2 | 11.7 | 32.8 | 54.3 | 1.2 | 13,070 | 13,230 | | | | | | |
| 2267-63 | P/S 1 1/4x1/4 | D | DND | 3.9 | 14.2 | 28.4 | 53.5 | 1.2 | 12,190 | 12,690 | | | | | | |
| 2268-63 | P/S 1 1/4x1/4 | D | DND | 4.8 | 13.3 | 31.1 | 50.8 | 1.1 | 12,190 | 12,800 | | | | | | |
| 2269-63 | P/S 1 1/4x1/4 | D | DND | 4.2 | 13.8 | 31.8 | 50.2 | 1.2 | 12,160 | 12,690 | | | | | | |
| 2270-63 | P/S 1 1/4x1/4 | D | DND | 11.4 | 10.4 | 32.1 | 46.1 | 1.3 | 10,590 | 11,960 | | | | | | |
| 2412-63 | P/S 1 1/4x1/4 | D | DND | 3.2 | 9.9 | 32.2 | 54.7 | 1.1 | 13,050 | 13,480 | | | | | | |
| 2413-63 | P/S 1 1/4x1/4 | D | DND | 3.7 | 13.0 | 31.6 | 51.7 | 1.1 | 12,440 | 12,910 | | | | | | |
| 2416-63 | P/S 1 1/4x1/4 | D | DND | 5.8 | 12.8 | 31.1 | 50.3 | 1.3 | 12,080 | 12,830 | | | | | | |

PROVINCE BRITISH COLUMBIA
VANCOUVER ISLAND DISTRICT

AREA: T'SABLE RIVER (Continued)

OPERATOR: COMOX MINING CO., LTD.

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|---------------|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 483-63 | F/S 1 1/4 x 1/4 | D | DND | 5.3 | 9.1 | 35.7 | 49.9 | - | 12,830 | 13,540 | | | | | | |
| 501-63 | F/S 1 1/4 x 1/4 | D | DND | 1.6 | 10.9 | 32.4 | 55.1 | 1.4 | 13,280 | 13,500 | | | | | | |
| 502-63 | F/S 1 1/4 x 1/4 | D | DND | 9.9 | 6.5 | 14.4 | 69.2 | - | 13,060 | 14,490 | | | | | | |
| 542-63 | F/S 1 1/4 x 1/4 | D | DND | 1.5 | 12.5 | 32.5 | 53.5 | 1.4 | 13,060 | 13,250 | | | | | | |
| 892-63 | F/S 1 1/4 x 1/4 | D | DND | 2.9 | 14.8 | 30.4 | 51.9 | 2.5 | 12,410 | 12,780 | | | | | | |
| 927-63 | F/S 1 1/4 x 1/4 | D | DND | 2.0 | 12.4 | 32.9 | 52.7 | 1.0 | 12,940 | 13,190 | | | | | | |
| 928-63 | F/S 1 1/4 x 1/4 | D | DND | 1.5 | 10.5 | 26.1 | 61.9 | 1.2 | 13,260 | 13,460 | | | | | | |
| 001-63 | F/S 1 1/4 x 1/4 | D | DND | 3.1 | 15.5 | 30.5 | 50.9 | 2.8 | 12,100 | 12,490 | | | | | | |
| 034-63 | F/S 1 1/4 x 1/4 | D | DND | 0.7 | 23.9 | 29.9 | 45.5 | 3.8 | 11,060 | 11,140 | | | | | | |
| 035-63 | F/S 1 1/4 x 1/4 | D | DND | 4.7 | 15.3 | 29.1 | 50.9 | 2.1 | 12,010 | 12,600 | | | | | | |
| 036-63 | F/S 1 1/4 x 1/4 | D | DND | 3.6 | 21.0 | 28.3 | 47.1 | 2.9 | 11,210 | 11,630 | | | | | | |
| 085-63 | F/S 1 1/4 x 1/4 | D | DND | 1.1 | 21.2 | 29.6 | 48.1 | 3.5 | 11,530 | 11,660 | | | | | | |
| 110-63 | F/S 1 1/4 x 1/4 | D | DND | 3.9 | 23.2 | 28.1 | 44.8 | 3.6 | 10,750 | 11,180 | | | | | | |
| 111-63 | F/S 1 1/4 x 1/4 | D | DND | 3.3 | 21.1 | 28.8 | 46.8 | 3.6 | 11,130 | 11,510 | | | | | | |
| 739-63 | F/S 1 x 1/4 | D | DND | 1.6 | 11.6 | 32.1 | 54.7 | 1.9 | 13,110 | 13,330 | | | | | | |
| 120-63 | F/S 1 x 1/4 | D | DND | 1.1 | 21.5 | 29.3 | 48.1 | 3.6 | 11,420 | 11,540 | | | | | | |
| 151-63 | F/S 1 x 1/4 | D | DND | 1.2 | 17.4 | 31.2 | 50.2 | 2.9 | 12,110 | 12,260 | | | | | | |
| 590-63 | Prep. Stoker | D | DND | 1.7 | 15.2 | 31.7 | 51.4 | 2.0 | 12,430 | 12,640 | | | | | | |
| 591-63 | Prep. Stoker | D | DND | 1.8 | 13.2 | 32.3 | 52.7 | 1.9 | 12,810 | 13,050 | | | | | | |

EAST KOOTENAY DISTRICT

OPERATOR: CROW'S NEST PASS COAL CO., LTD., 'A' Seam

| | | | | | | | | | | | | | | | | |
|--------|--------------------|---|-----|-----|-----|------|------|-----|--------|--------|--------|--------|---|---|-----|-----|
| 815-63 | Cobble 7 x 1 5/8 | T | FMP | 5.6 | 9.9 | 23.2 | 61.3 | 0.4 | 13,380 | 14,250 | 2,320 | 2,750+ | + | + | | 8.5 |
| 816-63 | Stoker 1 5/8 x 3/8 | T | FMP | 3.8 | 8.3 | 24.2 | 63.7 | 0.4 | 13,720 | 14,250 | 2,750+ | + | + | + | 104 | 8.5 |
| 817-63 | Fines -1/4 | T | FMP | 7.5 | 6.8 | 23.2 | 62.5 | 0.4 | 13,360 | 14,450 | 2,750+ | + | + | + | 103 | 9 |
| 818-63 | Export 2 x 0 | T | FMP | 2.9 | 9.5 | 24.1 | 63.5 | 0.4 | 13,680 | 14,090 | 2,750+ | + | + | + | 108 | 8.5 |

II. IMPORTED COALS

ANTHRACITE

AMERICAN PENNSYLVANIA

OPERATOR OR TRADE NAME: GLEN-BURN

| | | | | | | | | | | | | | | | | |
|--------|-----|---|-----|-----|------|-----|------|-----|--------|--------|--|--|--|--|--|--|
| 058-63 | Nut | D | DND | 2.7 | 12.4 | 6.9 | 78.0 | 0.8 | 12,660 | 13,010 | | | | | | |
|--------|-----|---|-----|-----|------|-----|------|-----|--------|--------|--|--|--|--|--|--|

WELSH

OPERATOR OR TRADE NAME: NOT KNOWN

| | | | | | | | | | | | | | | | | |
|--------|-------|---|-----|-----|-----|-----|-----|-----|--------|--------|--|--|--|--|--|--|
| 893-63 | Fines | S | FMP | 1.5 | 6.6 | 9.9 | 8.2 | 1.0 | 14,180 | 14,400 | | | | | | |
|--------|-------|---|-----|-----|-----|-----|-----|-----|--------|--------|--|--|--|--|--|--|

AMERICAN BITUMINOUS

STATE: KENTUCKY, EMMONS

OPERATOR OR TRADE NAME: CADET

| | | | | | | | | | | | | | | | | |
|--------|-----|---|-----|-----|-----|------|------|-----|--------|--------|--|--|--|--|--|--|
| 772-63 | N/S | D | DVA | 3.9 | 8.3 | 36.3 | 51.5 | 1.4 | 13,100 | 13,630 | | | | | | |
| 42-63 | N/S | D | DVA | 5.1 | 8.0 | 35.2 | 51.7 | 1.1 | 12,940 | 13,630 | | | | | | |

OPERATOR OR TRADE NAME: KENTLAND COAL & COKE CO.

| | | | | | | | | | | | | | | | | |
|-------|----------------|---|------|-----|-----|------|------|-----|--------|--------|--|--|--|--|--|--|
| 46-63 | Not Designated | S | Mine | 1.0 | 4.2 | 32.5 | 62.3 | 1.2 | 14,610 | 14,760 | | | | | | |
| 72-63 | " | S | Mine | 0.8 | 4.8 | 32.4 | 62.0 | 0.9 | 14,560 | 14,690 | | | | | | |
| 91-63 | " | S | Mine | 1.1 | 4.8 | 33.3 | 60.8 | 1.9 | 14,440 | 14,610 | | | | | | |
| 19-63 | " | S | Mine | 0.8 | 4.8 | 32.7 | 61.7 | 0.7 | 14,560 | 14,680 | | | | | | |
| 04-63 | " | S | Mine | 1.1 | 4.9 | 33.0 | 61.0 | 0.6 | 14,490 | 14,660 | | | | | | |
| 05-63 | " | S | Mine | 1.1 | 5.3 | 30.8 | 62.8 | 1.0 | 14,530 | 14,690 | | | | | | |

OPERATOR OR TRADE NAME: LOTHIER

| | | | | | | | | | | | | | | | | |
|-------|-----|---|-----|-----|-----|------|------|-----|--------|--------|--|--|--|--|--|--|
| 62-63 | N/S | D | DVA | 7.0 | 6.8 | 33.5 | 52.7 | 1.0 | 12,790 | 13,760 | | | | | | |
| 73-63 | N/S | D | DVA | 9.5 | 6.3 | 32.0 | 52.2 | 0.8 | 12,500 | 13,820 | | | | | | |
| 11-63 | N/S | D | DVA | 5.4 | 7.3 | 34.9 | 52.4 | 1.3 | 13,010 | 13,750 | | | | | | |
| 15-63 | N/S | D | DVA | 8.8 | 7.1 | 32.7 | 51.4 | 1.2 | 12,490 | 13,690 | | | | | | |
| 24-63 | N/S | D | DVA | 7.4 | 7.0 | 33.6 | 52.0 | 1.2 | 12,650 | 13,660 | | | | | | |

STATE: PENNSYLVANIA

OPERATOR OR TRADE NAME: ALLISON

| | | | | | | | | | | | | | | | | |
|-------|-----------|---|-----|-----|-----|------|------|-----|--------|--------|--|--|--|--|--|--|
| 97-63 | N/S 2 x 0 | D | DND | 5.0 | 9.3 | 31.8 | 53.9 | 1.0 | 12,650 | 13,310 | | | | | | |
| 00-63 | N/S 2 x 0 | D | DND | 6.8 | 8.4 | 31.0 | 53.8 | 1.2 | 12,630 | 13,540 | | | | | | |

IMPORTED COALS (Continued)

STATE: PENNSYLVANIA, HILLIARD, FAIRWALL DIST. #2

OPERATOR OR TRADE NAME: AMOS #8

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|---|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|---|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 2828-63 | P/S 2 x 1 | D | DND | 4.7 | 8.1 | 39.8 | 47.4 | 2.8 | 12,730 | 13,370 | | | | | | |
| 2718-63 | P/S 2 x 1/8 | D | DND | 4.4 | 5.9 | 37.2 | 52.5 | 2.5 | 13,330 | 13,950 | | | | | | |
| STATE: PENNSYLVANIA, DISTRICT 1 | | | | | | | | | | OPERATOR OR TRADE NAME: CALLAGHAN | | | | | | |
| 3106-63 | N/S 1 1/4 x 0 | D | DFW | 7.4 | 9.3 | 31.2 | 52.1 | 1.7 | 12,960 | 13,990 | | | | | | |
| STATE: PENNSYLVANIA, REYNOLDSVILLE | | | | | | | | | | OPERATOR OR TRADE NAME: CONVAIR | | | | | | |
| 2050-63 | N/S 2 x 0 | D | DND | 4.6 | 10.0 | 31.6 | 53.8 | 2.1 | 13,010 | 13,640 | | | | | | |
| 2087-63 | N/S 2 x 0 | D | DND | 4.5 | 9.7 | 32.0 | 53.8 | 1.4 | 13,000 | 13,610 | | | | | | |
| 2726-63 | N/S 2 x 0 | D | DND | 2.7 | 8.0 | 33.6 | 55.7 | 1.8 | 13,460 | 13,830 | | | | | | |
| STATE: WESTERN PENNSYLVANIA | | | | | | | | | | OPERATOR OR TRADE NAME: DELL #3 Mine. | | | | | | |
| 2031-63 | P/S 2 x 1/8 | D | DND | 3.9 | 8.8 | 37.9 | 49.4 | 2.9 | 13,010 | 13,530 | | | | | | |
| 2090-63 | P/S 2 x 1/8 | D | DND | 4.2 | 10.0 | 36.7 | 49.1 | 2.9 | 12,730 | 13,290 | | | | | | |
| 2197-63 | P/S 2 x 1/8 | D | DND | 3.5 | 9.1 | 38.3 | 49.1 | 3.2 | 13,070 | 13,540 | | | | | | |
| 2298-63 | P/S 2 x 1/8 | D | DND | 3.6 | 8.0 | 39.7 | 48.7 | 4.2 | 13,200 | 13,690 | | | | | | |
| 2340-63 | P/S 2 x 1/8 | D | DND | 3.7 | 5.5 | 39.8 | 51.0 | 3.2 | 13,560 | 14,080 | | | | | | |
| 2411-63 | P/S 2 x 1/8 | D | DND | 5.2 | 10.3 | 37.0 | 47.5 | 3.3 | 12,560 | 13,250 | | | | | | |
| 2462-63 | P/S 2 x 1/8 | D | DND | 3.4 | 8.8 | 39.5 | 48.3 | 2.3 | 13,270 | 13,730 | | | | | | |
| 2503-63 | P/S 2 x 1/8 | D | DND | 5.9 | 14.7 | 37.2 | 42.2 | 2.0 | 11,840 | 12,590 | | | | | | |
| 3051-63 | P/S 1 3/4 x 1/4 | D | DFW | 3.5 | 6.7 | 39.4 | 50.4 | 2.4 | 13,140 | 13,620 | | | | | | |
| 3068-63 | P/S 1 3/4 x 1/4 | D | DFW | 2.1 | 7.3 | 40.0 | 50.6 | 2.9 | 13,570 | 13,860 | | | | | | |
| 3089-63 | P/S 1 3/4 x 1/4 | D | DFW | 4.7 | 6.7 | 39.4 | 49.2 | 1.7 | 13,400 | 14,060 | | | | | | |
| 2027-63 | P/S 1 1/4 x 1/4 | D | DND | 3.6 | 8.3 | 38.3 | 49.8 | 2.6 | 13,080 | 13,570 | | | | | | |
| 2374-63 | P/S 1 1/4 x 1/4 | D | DND | 5.2 | 5.9 | 41.1 | 47.8 | 2.2 | 13,100 | 13,810 | | | | | | |
| STATE: PENNSYLVANIA, BUTLER COUNTY | | | | | | | | | | OPERATOR OR TRADE NAME: DEVON | | | | | | |
| 2001-63 | P/S 1 1/4 x 5/8 | D | DND | 4.3 | 10.0 | 37.1 | 48.6 | 4.0 | 12,920 | 13,500 | | | | | | |
| 2279-63 | P/S 1 1/4 x 5/8 | D | DND | 4.1 | 7.3 | 40.7 | 47.9 | 3.4 | 13,440 | 14,010 | | | | | | |
| 2280-63 | P/S 1 1/4 x 5/8 | D | DND | 4.7 | 8.9 | 36.4 | 50.0 | 3.0 | 12,880 | 13,510 | | | | | | |
| 2292-63 | P/S 1 1/4 x 5/8 | D | DND | 1.7 | 8.0 | 39.6 | 50.7 | 3.8 | 13,610 | 13,850 | | | | | | |
| 2338-63 | N/S 1 1/4 x 0 | D | DND | 6.1 | 5.6 | 35.0 | 53.3 | 0.8 | 13,150 | 14,010 | | | | | | |
| 2631-63 | N/S 1 1/4 x 0 | D | DVA | 3.5 | 6.9 | 37.0 | 52.6 | 1.1 | 13,440 | 13,930 | | | | | | |
| 2995-63 | N/S 1 1/4 x 0 | D | DVA | 4.5 | 6.8 | 36.4 | 52.3 | 2.1 | 13,130 | 13,750 | | | | | | |
| STATE: PENNSYLVANIA, BROOKVILLE | | | | | | | | | | OPERATOR OR TRADE NAME: GROVE CITY | | | | | | |
| 2912-63 | N/S 2 x 0 | D | DND | 3.5 | 14.7 | 33.9 | 47.9 | 0.8 | 11,950 | 12,390 | | | | | | |
| 3045-63 | N/S 2 x 0 | D | DND | 4.9 | 6.0 | 36.8 | 52.3 | 0.6 | 13,560 | 14,260 | | | | | | |
| 3127-63 | N/S 2 x 0 | D | DND | 6.4 | 7.7 | 35.9 | 50.0 | 0.8 | 12,700 | 13,570 | | | | | | |
| STATE: PENNSYLVANIA, WEST REYNOLDSVILLE | | | | | | | | | | OPERATOR OR TRADE NAME: HARLAN (Callaghan Mine) | | | | | | |
| 2675-63 | N/S 2 x 0 | D | DND | 4.3 | 9.3 | 33.3 | 53.1 | 1.7 | 13,030 | 13,610 | | | | | | |
| 2791-63 | N/S 2 x 0 | D | DND | 5.3 | 10.9 | 31.2 | 52.6 | 3.3 | 12,660 | 13,370 | | | | | | |
| 2930-63 | N/S 2 x 0 | D | DND | 3.1 | 8.9 | 35.0 | 53.0 | 2.3 | 13,430 | 13,850 | | | | | | |
| 3062-63 | N/S 2 x 0 | D | DND | 3.1 | 12.0 | 30.1 | 54.8 | 2.3 | 12,750 | 13,160 | | | | | | |
| 3141-63 | N/S 2 x 0 | D | DND | 2.8 | 10.3 | 33.3 | 53.6 | 2.2 | 13,180 | 13,560 | | | | | | |
| STATE: PENNSYLVANIA, CLARION COUNTY | | | | | | | | | | OPERATOR OR TRADE NAME: HAWTHORNE | | | | | | |
| 2935-63 | N/S 2 x 0 | D | DND | 10.5 | 11.6 | 26.8 | 51.1 | 1.7 | 11,600 | 12,960 | | | | | | |
| 2946-63 | N/S 2 x 0 | D | DND | 6.1 | 9.1 | 29.6 | 55.2 | 1.5 | 12,590 | 13,410 | | | | | | |
| 3002-63 | N/S 2 x 0 | D | DND | 9.1 | 6.7 | 30.2 | 54.0 | 1.1 | 12,160 | 13,380 | | | | | | |
| 3130-63 | N/S 2 x 0 | D | DND | 6.1 | 7.5 | 33.4 | 53.0 | 2.0 | 12,920 | 13,750 | | | | | | |
| STATE: PENNSYLVANIA, CLARION COUNTY, DISTRICT 1 | | | | | | | | | | OPERATOR OR TRADE NAME: MAYS | | | | | | |
| 2650-63 | N/S 1 1/2 x 0 | D | DND | 2.4 | 8.1 | 36.3 | 53.2 | 2.2 | 13,420 | 13,760 | | | | | | |
| 2651-63 | N/S 1 1/2 x 0 | D | DND | 2.4 | 7.2 | 35.2 | 55.2 | 1.9 | 13,420 | 13,750 | | | | | | |
| 2652-63 | N/S 1 1/2 x 0 | D | DND | 4.6 | 8.3 | 36.3 | 50.8 | 2.3 | 13,070 | 13,690 | | | | | | |

IMPORTED COALS (Continued)

STATE: PENNSYLVANIA, JEFFERSON COUNTY

OPERATOR OR TRADE NAME: MINNA, FALLS CREEK

| Sample Number | Size Designation, Inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|---------------|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 2571-63 | P/S 2 x 1/8 | D | DND | 3.1 | 12.0 | 35.9 | 49.0 | 1.7 | 12,840 | 13,250 | | | | | | |
| 2577-63 | P/S 2 x 1/8 | D | DND | 4.2 | 8.9 | 37.9 | 49.0 | 2.5 | 12,920 | 13,480 | | | | | | |
| 2588-63 | P/S 2 x 1/8 | D | DND | 5.4 | 10.6 | 35.8 | 48.2 | 2.6 | 12,310 | 13,010 | | | | | | |
| 2596-63 | P/S 2 x 1/8 | D | DND | 4.2 | 11.4 | 35.8 | 48.6 | 2.5 | 12,430 | 12,980 | | | | | | |
| 2622-63 | P/S 2 x 1/8 | D | DND | 1.9 | 16.4 | 34.0 | 47.7 | 4.4 | 12,230 | 12,460 | | | | | | |
| 2632-63 | P/S 2 x 1/8 | D | DND | 3.6 | 14.6 | 32.1 | 49.7 | 4.0 | 12,280 | 12,730 | | | | | | |
| 2633-63 | P/S 2 x 1/8 | D | DND | 3.7 | 11.5 | 33.4 | 51.4 | 2.0 | 12,820 | 13,320 | | | | | | |
| 2706-63 | P/S 2 x 1/8 | D | DND | 3.8 | 10.4 | 33.2 | 52.6 | 0.6 | 13,120 | 13,650 | | | | | | |
| 2707-63 | P/S 2 x 1/8 | D | DND | 3.6 | 10.9 | 33.3 | 52.2 | 0.4 | 13,050 | 13,530 | | | | | | |
| 2729-63 | P/S 2 x 1/8 | D | DND | 5.0 | 9.4 | 34.5 | 51.1 | 2.0 | 12,850 | 13,520 | | | | | | |
| 2730-63 | P/S 2 x 1/8 | D | DND | 3.9 | 11.0 | 32.0 | 53.1 | 1.9 | 12,850 | 13,380 | | | | | | |
| 2738-63 | P/S 2 x 1/8 | D | DND | 4.6 | 10.6 | 33.0 | 51.8 | 2.5 | 12,870 | 13,490 | | | | | | |
| 2747-63 | P/S 2 x 1/8 | D | DND | 5.4 | 12.1 | 31.7 | 50.8 | 2.0 | 12,450 | 13,160 | | | | | | |
| 2812-63 | P/S 2 x 1/8 | D | DND | 4.0 | 12.2 | 33.6 | 50.2 | 3.1 | 12,480 | 13,010 | | | | | | |
| 3024-63 | P/S 2 x 1/8 | D | DND | 3.2 | 12.7 | 33.1 | 51.0 | 3.3 | 12,550 | 12,970 | | | | | | |
| 3047-63 | P/S 2 x 1/8 | D | DND | 2.0 | 10.4 | 34.9 | 52.7 | 2.9 | 13,200 | 13,470 | | | | | | |

PENNSYLVANIA, PITTSBURGH #8 SEAM

OPERATOR OR TRADE NAME: NORTON

| | | | | | | | | | | | | | | | |
|---------|-----------------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|
| 2324-63 | P/S 1 1/4 x 5/8 | D | DND | 2.5 | 10.0 | 41.7 | 45.8 | 4.6 | 12,910 | 13,240 | | | | | |
| 2903-63 | P/S 1 1/4 x 1/4 | D | DND | 2.2 | 8.3 | 42.9 | 46.6 | 4.3 | 13,230 | 13,530 | | | | | |
| 3080-63 | P/S 1 1/4 x 1/4 | D | DND | 2.7 | 7.7 | 42.8 | 46.8 | 4.3 | 13,280 | 13,640 | | | | | |

PENNSYLVANIA, KITTANING SEAM

OPERATOR OR TRADE NAME: PILGRIM

| | | | | | | | | | | | | | | | |
|---------|-----------------|---|-----|-----|-----|------|------|-----|--------|--------|--|--|--|--|--|
| 2027-63 | P/S 1 1/4 x 1/4 | D | DND | 3.6 | 8.3 | 38.3 | 49.8 | 2.6 | 13,080 | 13,570 | | | | | |
|---------|-----------------|---|-----|-----|-----|------|------|-----|--------|--------|--|--|--|--|--|

STATE: WESTERN PENNSYLVANIA

OPERATOR OR TRADE NAME: TURNER

| | | | | | | | | | | | | | | | |
|---------|-------------|---|-----|-----|------|------|------|-----|--------|--------|-------|-------|-------|-------|--|
| 2030-63 | P/S 2 x 1/8 | D | DND | 8.3 | 7.5 | 33.0 | 51.2 | 1.1 | 12,520 | 13,660 | | | | | |
| 2077-63 | P/S 2 x 1/8 | D | DND | 5.8 | 7.5 | 34.2 | 52.5 | 1.2 | 13,030 | 13,830 | | | | | |
| 2099-63 | P/S 2 x 1/8 | D | DND | 6.2 | 6.2 | 35.2 | 52.4 | 1.0 | 12,980 | 13,840 | | | | | |
| 2177-63 | P/S 2 x 1/8 | D | DND | 7.3 | 8.8 | 33.2 | 50.7 | 1.0 | 12,420 | 13,390 | 2,150 | 2,350 | 2,460 | 2,580 | |
| 2241-63 | P/S 2 x 1/8 | D | DND | 6.9 | 6.1 | 34.6 | 52.4 | 2.3 | 13,050 | 14,020 | | | | | |
| 2312-63 | P/S 2 x 1/8 | D | DND | 5.5 | 10.2 | 34.2 | 50.1 | 1.5 | 12,420 | 13,140 | | | | | |
| 2339-63 | P/S 2 x 1/8 | D | DND | 4.9 | 9.3 | 34.5 | 51.3 | 1.8 | 12,600 | 13,250 | | | | | |
| 2439-63 | P/S 2 x 1/8 | D | DND | 1.4 | 12.7 | 34.2 | 51.7 | 2.6 | 12,710 | 12,890 | | | | | |
| 2485-63 | P/S 2 x 1/8 | D | DND | 5.8 | 10.3 | 34.0 | 49.9 | 2.3 | 12,520 | 13,290 | | | | | |
| 2523-63 | P/S 2 x 1/8 | D | DND | 6.7 | 10.0 | 34.1 | 49.2 | 2.2 | 12,440 | 13,340 | | | | | |
| 2914-63 | P/S 2 x 1/8 | D | DND | 4.3 | 9.3 | 35.7 | 50.7 | 2.3 | 12,860 | 13,430 | | | | | |
| 3096-63 | P/S 2 x 1/8 | D | DND | 4.2 | 7.6 | 36.7 | 51.5 | 2.4 | 13,170 | 13,740 | | | | | |
| 3149-63 | P/S 2 x 1/8 | D | DND | 3.6 | 10.8 | 34.0 | 51.6 | 3.1 | 12,610 | 13,080 | 2,210 | 2,480 | 2,520 | 2,610 | |
| 3150-63 | P/S 2 x 1/8 | D | DND | 5.5 | 7.2 | 36.4 | 50.9 | 1.5 | 13,060 | 13,830 | | | | | |

STATE: PENNSYLVANIA, LOWER FREEPORT SEAM

OPERATOR OR TRADE NAME: WEST FREEDOM

| | | | | | | | | | | | | | | | |
|---------|-----------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|
| 2623-63 | N/S 2 x 0 | D | DND | 3.3 | 14.0 | 34.1 | 48.6 | 2.7 | 12,340 | 12,750 | | | | | |
| 2812-63 | N/S 2 x 0 | D | DND | 4.0 | 12.2 | 33.6 | 50.2 | 3.1 | 12,480 | 13,010 | | | | | |
| 2911-63 | N/S 2 x 0 | D | DND | 2.5 | 8.1 | 37.0 | 52.4 | 2.4 | 13,370 | 13,720 | | | | | |
| 3044-63 | N/S 2 x 0 | D | DND | 3.1 | 11.3 | 35.8 | 49.8 | 2.6 | 12,830 | 13,230 | | | | | |
| 3128-63 | N/S 2 x 0 | D | DND | 3.4 | 9.5 | 35.5 | 51.6 | 2.1 | 13,060 | 13,520 | | | | | |

STATE: WEST VIRGINIA

OPERATOR OR TRADE NAME: COMPASS DOLA

| | | | | | | | | | | | | | | | |
|---------|-------------|---|---------|-----|-----|------|------|-----|--------|--------|--|--|--|--|--|
| 2620-63 | S/N 2 x 1 | D | Justice | 1.6 | 7.8 | 36.5 | 54.1 | 2.1 | 13,790 | 14,000 | | | | | |
| 2836-63 | S/N 2 x 1 | D | Justice | 1.4 | 8.4 | 37.1 | 53.1 | 1.9 | 13,700 | 13,890 | | | | | |
| 2965-63 | S/N 2 x 1 | D | Justice | 0.7 | 8.5 | 35.7 | 55.1 | 1.6 | 13,890 | 13,990 | | | | | |
| 2885-63 | P/S 1 x 1/8 | D | DND | 2.4 | 6.0 | 42.3 | 49.3 | 2.5 | 13,930 | 14,260 | | | | | |

OPERATOR OR TRADE NAME: ELM GROVE

| | | | | | | | | | | | | | | | |
|---------|-------------|---|-----|-----|------|------|------|-----|--------|--------|--|--|--|--|--|
| 2081-63 | P/S 2 x 1/8 | D | DND | 5.1 | 10.0 | 35.3 | 49.6 | 3.2 | 12,610 | 13,280 | | | | | |
| 2203-63 | P/S 2 x 1/8 | D | DND | 5.7 | 6.7 | 38.3 | 49.3 | 3.1 | 13,040 | 13,820 | | | | | |
| 2204-63 | P/S 2 x 1/8 | D | DND | 6.8 | 8.8 | 36.3 | 48.1 | 4.3 | 12,620 | 13,550 | | | | | |
| 2271-63 | P/S 2 x 1/8 | D | DND | 4.7 | 6.1 | 38.5 | 50.7 | 2.0 | 13,360 | 14,030 | | | | | |

IMPORTED COALS (Continued)

STATE: WEST VIRGINIA, FAIRMONT

OPERATOR OR TRADE NAME: FOX

| Sample Number | Size Designation, inches | Kind of Sample | Sampled By | As Received | | | | | Dry | | Ash Fusion Temperature, °F | | | | Grindability Index Hardgrove | Free Swelling Index |
|---|--------------------------|----------------|------------|-------------|-------|-------------------|----------------|-----------|-----------------|--------------|----------------------------|-----------|----------------|-------|------------------------------|---------------------|
| | | | | Moisture % | Ash % | Volatile Matter % | Fixed Carbon % | Sulphur % | Calorific Value | | Initial | Spherical | Hemi-Spherical | Fluid | | |
| | | | | | | | | | Btu/lb Gross | Btu/lb Gross | | | | | | |
| 2049-63 | N/S 2 x 0 | D | DND | 5.2 | 11.6 | 29.3 | 53.9 | 1.4 | 12,420 | 13,100 | | | | | | |
| 2100-63 | N/S 2 x 0 | D | DND | 5.5 | 10.6 | 30.3 | 53.6 | 1.6 | 12,600 | 13,320 | | | | | | |
| 2240-63 | N/S 2 x 0 | D | DND | 8.7 | 11.3 | 29.8 | 50.2 | 2.3 | 11,580 | 12,690 | | | | | | |
| 2342-63 | N/S 2 x 0 | D | DND | 4.3 | 11.3 | 28.8 | 55.6 | 1.9 | 12,560 | 13,130 | | | | | | |
| 2448-63 | N/S 2 x 0 | D | DND | 5.5 | 8.9 | 31.9 | 53.7 | 1.3 | 12,850 | 13,590 | | | | | | |
| 2484-63 | N/S 2 x 0 | D | DND | 2.9 | 8.9 | 33.6 | 54.6 | 1.4 | 13,140 | 13,520 | | | | | | |
| OPERATOR OR TRADE NAME: O'DONNELL MINE | | | | | | | | | | | | | | | | |
| 3079-63 | P/S 1 1/4 x 1/4 | D | Justice | 2.3 | 7.0 | 40.2 | 50.5 | 1.3 | 13,630 | 13,960 | | | | | | |
| STATE: OHIO | | | | | | | | | | | | | | | | |
| OPERATOR OR TRADE NAME: ST. CLAIRSVILLE | | | | | | | | | | | | | | | | |
| 2323-63 | P/S 1 x 1/4 | D | DFW | 1.0 | 7.1 | 20.8 | 71.1 | 1.7 | 14,230 | 14,370 | | | | | | |
| STATE: WYOMING, ROCK SPRINGS | | | | | | | | | | | | | | | | |
| OPERATOR OR TRADE NAME: RAINBOW | | | | | | | | | | | | | | | | |
| 3077-63 | P/S 1 5/8 x 3/16 | S | FMP | 9.9 | 1.6 | 38.5 | 50.0 | 0.9 | 12,480 | 13,840 | | | | | | |
| U.S. EXACT LOCATION UNKNOWN | | | | | | | | | | | | | | | | |
| OPERATOR OR TRADE NAME: SUNGLD (Valley Camp Coal Co.) | | | | | | | | | | | | | | | | |
| 3144-63 | Stoker 1 x 3/8 | D | DFW | 6.8 | 6.6 | 38.6 | 48.0 | 2.4 | 12,520 | 13,430 | | | | | | |
| OPERATOR OR TRADE NAME: POWER KING (Valley Camp Coal Co.) | | | | | | | | | | | | | | | | |
| 2710-63 | Slack 1 x 0 | D | Comm | 2.4 | 5.6 | - | - | 0.8 | 13,710 | 14,050 | | | | | | |
| 2711-63 | Slack 1 x 0 | D | Comm | 2.3 | 5.1 | - | - | 0.8 | 13,690 | 14,010 | | | | | | |
| 2712-63 | Slack 1 x 0 | D | Comm | 2.2 | 5.1 | - | - | 0.8 | 13,610 | 13,930 | | | | | | |

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