GUIDE TO COAL MINES

Mines Served by BNSF Railway

The information included in this *Guide to Coal Mines* includes general information about coal and the mine facilities, ranging from coal specifications to loading characteristics. Requests for further information regarding these mines should be addressed to the appropriate producer marketing contact.

Coal Business Unit BNSF Railway <u>Coal.Marketing@BNSF.com</u> August 1, 2018

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Coal Mine Guide

The United States has the largest coal reserves in the world. The abundant suppy of coal has made it a reliable and economical fuel source for steam-generated electricity.

Click on the regions below to find more information of mines.



Powder River Basin

The Powder River Basin (PRB) of Wyoming and Montanta is the largest low sulfur coal source in the nation. Eight of the ten largest mines in the United States are located in the PRB.



| Montana | | |
|----------------------|--|----------------|
| Type of Mine | Sub-Bituminous - Surface | |
| Loading Station | Kuehn, Montana (Big Horn County) | |
| | 60 miles southwest of Forsyth, Montana | |
| Marketing Contact | Westmoreland Coal Sales Company | (303) 922-6463 |
| Warketing Contact | sales@westmoreland.com | (303) 322-0403 |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,550 |
| | Sulfur | 0.7% |
| | Ash | 9.7% |
| | Sodium as % of Ash | 0.6% |
| Recoverable Reserves | 357 million tons | |
| Annual Production | 201763 Million tons | |
| | 201665 Million tons | |
| | 201576 Million tons | |
| Storage Capacity | 44,000 tons (trough-type storage barn) | |
| Loading & Weighing | Flood loading with belt scale | |
| Train Capacity | Capable of loading unit trains of 125 cars | |
| | Multiple rail sidings on site | |

Absaloka Mine - Westmoreland Coal Co.

Antelope Mine - Cloud Peak Energy

| • | ••• | |
|----------------------|---|---------|
| Wyoming | | |
| Type of Mine | Surface | |
| Loading Station | Converse Jct, Wyoming (Converse County) | |
| | 70 miles southeast of Gillette, Wyoming | |
| Marketing Contact | http://cloudpeakenergy.com/operations/243 | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,850 |
| | Sulfur | 0.25% |
| | Ash | 5.42% |
| | Sodium as % of Ash | 1.52% |
| Recoverable Reserves | 547 million tons | |
| Annual Production | 2017 - 5.88 Million tons | |
| | 2016 - 5.38 Million tons | |
| | 2015 - 6.02 Million tons | |
| Storage Capacity | 27,500 tons (2 silos) | |
| Train Capacity | Holds 4 unit trains on site | |

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Belle Ayr Mine - Contura Energy

| Wyoming | | |
|----------------------|--|---------|
| Type of Mine | Surface | |
| Loading Station | Belle Ayr Jct, Wyoming (Campbell County) | |
| Marketing Contact | allen.childress@javelincommodities.com | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,600 |
| | Sulfur | 0.27% |
| | Ash | 4.40% |
| | Sodium as % of Ash | 1.50% |
| Recoverable Reserves | 300 million tons | |
| Annual Production | 2017-15.8 Million tons | |
| | 2016 - 14.9 Million tons | |
| | 2015 - 18.3 Million tons | |
| Storage Capacity | 48,000 tons (4 silos) | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion track scale | |
| | Flood loading backup | |
| Train Capacity | Holds 4 unit trains on site | |

Black Thunder Mine - Arch Coal, Inc.

Wyoming

| Type of Mine | Surface | |
|----------------------|--|---------|
| Loading Stations | Black Thunder | |
| | Thunder Jct, Wyoming (Campbell County) | |
| | 45 miles southeast of Gillette, Wyoming | |
| | Black Thunder West | |
| | Thunder Jct. West, Wyoming (Campbell County) | |
| | 41 miles southeast of Gillette, Wyoming | |
| | Black Thunder East | |
| | Thunder Jct East, Wyoming (Campbell County) | |
| | 50 miles southeast of Gillette, Wyoming | |
| Marketing Contact | http://www.archcoal.com/aboutus/blackthunder.aspx | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,800 |
| | Sulfur | 29.00% |
| | Ash | 5.20% |
| | Sodium as % of Ash | 1.13% |
| Recoverable Reserves | 1.2 billion tons | |
| Annual Production | Permitted for 190 million tons/year | |
| | 2017 – 70.5 MM | |
| | 2016 –67.9 Million tons | |
| | 2015 – 100.7 Million tons | |
| Storage Capacity | Black Thunder | |
| | 125,000 tons (2 silos plus barn storage) | |
| | Black Thunder West | |
| | 35,000 tons (2 silos) | |
| | Black Thunder East | |
| | 98,000 tons (7 silos) | |
| Loading & Weighing | Black Thunder and Black Thunder West | |
| | Batch weigh bin coupled with weigh-in-motion track scale | |
| | Black Thunder East | |
| | Flood layer loading coupled with weigh-in-motion track scale and | |
| | batch weigh bin top-off system | |
| Train Capacity | Black Thunder | |
| | Holds 5 unit trains on site, plus 4 in Arch's Reno Yard | |
| | Black Thunder West | |
| | Holds 5 unit trains on site | |
| | Black Thunder East | |
| | Holds 5 unit trains on site, plus shares Arch's Reno Yard | |

Buckskin Mine - Kiewit Mining Group

| Wyoming | | |
|----------------------|--|-------|
| Type of Mine | Surface | |
| Loading Station | Buckskin Jct, Wyoming (Campbell County) | |
| | 10 miles northeast of Gillette, Wyoming | |
| Marketing Contact | http://www.kiewit.com/markets/mining | |
| Coal Specifications | Proximate Analysis (as received) | |
| | Btu/lb. | 8,400 |
| | Sulfur | 0.34% |
| | Ash | 4.80% |
| | Sodium as % of Ash | 1.80% |
| Recoverable Reserves | 250 million tons | |
| Annual Production | 2017 – 14.6million tons | |
| | 2016 –7 million tons | |
| | 2015 – 13.6 million tons | |
| Storage Capacity | 61,500 tons (5 silos) | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion track scale | |
| | Flood loading backup | |
| Train Capacity | Holds 4 unit trains on site | |

Caballo Mine - Peabody Energy

| Wyoming | | |
|----------------------|--|--------------------------------|
| Type of Mine | Surface | |
| Loading Station | Caballo Jct, Wyoming (Campbell County) | |
| | 20 miles southeast of Gillette, Wyoming | |
| Marketing Contact | https://www.peabodyenergy.com/Operations/U-S-Mir | ning/Powder-River-Basin-Mining |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,400 |
| | Sulfur | 0.36% |
| | Ash | 5.7% |
| | Sodium as % of Ash | 1.5% |
| Recoverable Reserves | 629 Million Tons | |
| Annual Production | Permitted for 50 million tons/year | |
| | 2017 - 11.1 Million tons | |
| | 2016 - 11.2 Million tons | |
| | 2015 - 14.2 Million Tons | |
| Storage Capacity | 46,000 tons (4 silos) | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion t | rack scale and |
| | Precision top-off system | |
| Train Capacity | Holds 5 unit trains on site (3 empties, 2 loads) | |

Coal Creek Mine - Arch Coal, Inc.

| Wyoming | | | |
|----------------------|--|------------|--|
| Type of Mine | Surface | | |
| Loading Station | Coal Creek Jct, Wyoming (Campbell County) | | |
| Marketing Contact | http://www.archcoal.com/aboutus/coalcreek.aspx | | |
| Coal Specifications | Proximate Analysis (as received) | Typical | |
| | Btu/lb. | 8,400 | |
| | Sulfur | 0.32% | |
| | Ash | 6.12% | |
| Recoverable Reserves | 179.4 million tons | | |
| Annual Production | Permitted for 50 million tons/year | | |
| | 2017 – 9 Million tons | | |
| | 2016 – 8.2 Million tons | | |
| | 2015 – 7.8 Million tons | | |
| Storage Capacity | 25,000 tons (2 silos) | | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion t | rack scale | |
| Train Capacity | Holds 2 unit trains on site | | |
| | | | |

Cordero Rojo Mine - Cloud Peak Energy

| Type of Mine | Surface | |
|----------------------|--|------------|
| Loading Station | North Facility | |
| U | Rojo Jct, Wyoming (Campbell County) | |
| | 20 miles southeast of Gillette, Wyoming | |
| | South Facility | |
| | Cordero Jct, Wyoming (Campbell County) | |
| | 30 miles southeast of Gillette, Wyoming | |
| Marketing Contact | http://cloudpeakenergy.com/operations/cordero-rojo-mir | <u>ne/</u> |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,425 |
| | Sulfur | 0.29% |
| | Ash | 5.17% |
| | Sodium as % of Ash | 1.31% |
| Recoverable Reserves | 320 million tons | |
| Annual Production | 2017 - 16.4 Million tons | |
| | 2016 - 18.3 Million tons | |
| | 2015 - 22.9 Million tons | |
| Storage Capacity | North Facility | |
| | 28,000 tons (2 silos) | |
| | South Facility | |
| | 144,000 tons (4 silos plus barn storage) | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion tra | ck scale |
| Train Capacity | North Facility | |
| | Holds 4 unit trains on site | |
| | South Facility | |
| | Holds 3 unit trains on site | |

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| Montana | | |
|----------------------|---|------------------|
| Type of Mine | Surface | |
| Loading Station | Decker, Montana (Big Horn County) | |
| | 23 miles northeast of Sheridan, Wyoming | |
| Marketing Contact | j.russell@lhr-inc.com | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 9,500 |
| | Sulfur | 0.37% |
| | Ash | 4.30% |
| | Sodium as % of Ash | 1.00-8.00% |
| Recoverable Reserves | 200 million tons | |
| Annual Production | 2017 - 4.2 Million tons | |
| | 2016 - 3.2 Million tons | |
| | 2015 - 3 Million tons | |
| Storage Capacity | East: 122,000 tons total (silo and stockpile) | |
| | West: 87,000 tons total (silo and stockpile) | |
| Loading & Weighing | Flood loading with belt scale | |
| Train Capacity | East: Holds 1 unit train on site | |
| | West: Holds 1 unit train on site plus1 unit train o | on Decker Siding |

Decker Mine – Lighthouse Resources, Inc.

Dry Fork Mine - Western Fuels-Wyoming, Inc.

| Wyoming | | |
|----------------------|--|--------------|
| Type of Mine | Surface - truck/loader operation | |
| Loading Station | Dry Fork Jct, Wyoming (Campbell County) | |
| | 7 miles northeast of Gillette, Wyoming | |
| Marketing Contact | http://www.westernfuels.org/ | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,050 - 8200 |
| | Sulfur | .2142% |
| | Ash | 3.8-5.1% |
| | Sodium as % of Ash | 1.8% |
| Recoverable Reserves | 294 million tons | |
| Annual Production | 2017 - 6 Million tons | |
| | 2016 - 6.1 Million tons | |
| | 2015 - 6.4 Million tons | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion | track scale |
| Train Capacity | Holds 1 unit train on site | |

| Eagle Dutte Mine - Diackjew | | |
|-----------------------------|---|-----------------------------|
| Wyoming | | |
| Type of Mine | Surface | |
| Loading Station | Eagle Butte Jct, Wyoming (Campbell County) | |
| | 8 miles northeast of Gillette, Wyoming | |
| Marketing Contact | allen.childress@javelincommodities.com | |
| | | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,350 |
| | Sulfur | 0.00% |
| | Ash | 4.8% |
| | Sodium as % of Ash | 1.5% |
| Recoverable Reserves | 345 million tons | |
| Annual Production | 2017 - 17.3 Million tons | |
| | 2016 - 19 Million tons | |
| | 2015 - 19.7 Million tons | |
| Storage Capacity | 48,000 tons total (4 silos) | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion trace | ck scale |
| | Flood loading backup | |
| Train Capacity | Holds 5 unit trains on site | |
| | | |
| North Antelope Rochelle M | ine - Peabody Energy | |
| Wyoming | | |
| Type of Mine | Surface | |
| | North Antelope Rochelle | |
| Loading Station | Nacco Jct, Wyoming (Campbell County) | |
| | 60 miles southeast of Gillette, Wyoming | |
| | NARM North | |
| | NARM North, Wyoming (Campbell County) | |
| | 50 miles southeast of Gillette, Wyoming | |
| Marketing Contact | https://www.peabodyenergy.com/Operations/U-S-Mining | g/Powder-River-Basin-Mining |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,800 |
| | Sulfur | 0.21% |
| | Ash | 4.6% |
| | Sodium as % of Ash | 1.7% |
| Recoverable Reserves | 2,018 million tons | |
| Annual Production | 2017 - 101.6 Million tons | |
| | 2016 - 92.8 Million tons | |
| | 2015 - 109.3 Million tons | |
| Storage Capacity | North Antelope Rochelle: 125,000 tons (5 silos an | d 1 barn) |
| | NARM North: 40,000 tons (barn storage) | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion trad | ck scale |
| Train Capacity | North Antelope Rochelle | |
| | Holds 11 unit trains on site | |
| | | |
| | NARM North | |

Eagle Butte Mine - Blackjewel

Rawhide Mine - Peabody Energy

| Wyoming | | |
|----------------------|--|--------------------------------|
| Type of Mine | Surface | |
| Loading Station | Rawhide Jct, Wyoming (Campbell County) | |
| | 10 miles northeast of Gillette, Wyoming | |
| Marketing Contact | https://www.peabodyenergy.com/Operations/U-S-Mir | ning/Powder-River-Basin-Mining |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 8,300 |
| | Sulfur | 0.36% |
| | Ash | 5.4% |
| | Sodium as % of Ash | 1.6% |
| Recoverable Reserves | 313 Million tons | |
| Annual Production | 2017 - 10.4 Million tons | |
| | 2016 - 8.1 Million tons | |
| | 2015 - 15.2 Million tons | |
| Storage Capacity | 71,000 tons (6 silos), plus 10,000 surge silo | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion t | track scale and |
| | precision top-off system | |
| Train Capacity | Holds 2 unit trains on site | |

Signal Peak Mine - Boich Group/Gunvor/First Energy

| Montana | | |
|----------------------|---|--------------|
| Type of Mine | Underground - longwall | |
| Loading Station | Peaks, Montana (Musselshell County) | |
| | 35 miles north of Billings, MT | |
| Marketing Contact | http://globalcoalsales.com/mine-operations/ | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 10,300 |
| | Sulfur | 0.42% |
| | Ash | 5.70% |
| Recoverable Reserves | 500 million tons | |
| Annual Production | 2017 - 5.9 Million tons | |
| | 2016 – 5.6 Million tons | |
| | 2015 - 6.5 Million tons | |
| Storage Capacity | 800,000 tons | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion t | rack scale |
| Train Capacity | Holds 2 unit trains on site, plus 1 unit train on W | alter siding |

| Montana | | |
|----------------------|---|------------|
| Type of Mine | Surface | |
| Loading Station | Nerco Jct., Montana (Big Horn County) | |
| | 30 miles northeast of Sheridan, Wyoming | |
| Marketing Contact | http://cloudpeakenergy.com/operations/spring-creek- | mine |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 9,350 |
| | Sulfur | 0.3% |
| | Ash | 4.3% |
| | Sodium | 8.5% |
| Recoverable Reserves | 290 million tons | |
| Annual Production | 2017 - 12.7 Million tons | |
| | 2016 - 5.6 Million tons | |
| | 2015 - 6.5 Million tons | |
| Storage Capacity | 30,000 tons (barn storage) | |
| Loading & Weighing | Batch weigh bin coupled with weigh-in-motion t | rack scale |
| Train Capacity | Holds 4 unit trains on site | |
| | | |

Spring Creek Mine - Cloud Peak Energy

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NEW MEXICO

BNSF serves two mines in northwest New Mexico -- El Sugundo and Lee Ranch. The high-quality coal deposits are characterized by high BTU, low-sulfur, low ash, and low moisture content.



Lee Ranch Mine - Peabody Energy

| ty) | |
|--|--|
| | |
| | |
| https://www.peabodyenergy.com/Operations/U-S-Mining/Western-Mining | |
| Typical | |
| 9,300 | |
| 0.9% | |
| 17.8% | |
| 0.4% | |
| | |
| | |
| | |
| | |
| | |
| | |
| ing | |
| | |

El Sugundo Mine - Peabody Energy

| Type of Mine | Surface | |
|---------------------|---|---------------------|
| Loading Station | El Segundo Jct, New Mecico (Cibola County) | |
| | 40 miles north of Grants, New Mexico | |
| Marketing Contact | https://www.peabodyenergy.com/Operations/U-S-Mi | ning/Western-Mining |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 9,100 |
| | Sulfur | 1.03% |
| | Ash | 16.10% |
| | Sodium as % of Ash | |
| Annual Production | 2017 - 5.88 Million tons | |
| | 2016 - 5.38 Million tons | |
| | 2015 - 6.02 Million tons | |
| | | |
| Loading & Weighing | Batch weigh bin | |
| Train Capacity | Holds 2 unit trains on site | |

NORTH DAKOTA

Lignite is available from BNSF-served surface mines in North Dakota. This lignite field is part of the Great Plains coal area. Heat values of the deposits in this area range from 6,500 to 7,000 BTU/lb. The lignite is primarily burned by local power plants, but can be used by any properly designed stokers, coal-fired units and cyclone furnaces.



Beulah Mine - Westmoreland Coal Co.

| Type of Mine | Lignite - Surface | |
|----------------------|---|----------------|
| Loading Station | Beulah Mine, North Dakota (Mercer Cou | unty) |
| | 2 miles south of Beulah, North Dakota | |
| Marketing Contact | Westmoreland Coal Sales Company | (303) 922-6463 |
| | sales@westmoreland.com | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 7,000 |
| | Sulfur | 0.6% |
| | Ash | 6.5% |
| | Sodium as % of Ash | 6.0% |
| Recoverable Reserves | 43 million tons | |
| Annual Production | 201744 Million tons | |
| | 201688 Million tons | |
| | 2015 - 2.9 Million tons | |
| Storage Capacity | 50,000 tons | |
| Loading & Weighing | Tipple with chutes to handle 1,600 tons | per |
| Track Configuration | Capable of loading unit trains | |
| | Beulah Mine supplies lignite to electric | |
| Information | generating stations via rail haul. Highes | t |
| | quality lignite available. | |
| | | |

Freedom Mine - North American Coal Corp.

| Type of Mine | Lignite surface | |
|----------------------|--|------------|
| Loading Station | Antelope Valley, North Dakota | |
| | 8 miles northwest of Beulah, North Dak | ota |
| Marketing Contact | http://www.nacoal.com/operations/coteau.ht | <u>tml</u> |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 6,775 |
| | Sulfur | 0 |
| | Ash | 7.2% |
| | Sodium as % of Ash | 5.5% |
| Recoverable Reserves | 550 million tons | |
| Annual Production | 2017 - 14.7 Million tons | |
| | 2016 - 14.1 Million tons | |
| | 2015 - 14.3 million tons | |
| Storage Capacity | 450,000 tons (two stockpiles) | |
| Loading & Weighing | Discharge belt to 50-car train | |
| Track Configuration | Single track holds 60 cars on site | |
| | Freedom Mine delivers lignite to two | |
| | facilities via mine mouth conveyor and | |
| Information | others via railroad | |
| B 10 | | |

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UTAH

BNSF Railway has access to Utah coal mines through Utah Railway, a connecting carrier. Mines are accessed by Utah Railway through two loadout facilities, Wildcat and Savage Coal Terminal. Utah Railway interchanges coal trains with BNSF at Provo, Utah (westbound) and Grand Junction, Colorado (eastbound).



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Dugout Canyon Mine - Bowie Resources

| Type of Mine | Underground - continuous miner operation | |
|----------------------|--|---------|
| Loading Station | Savage Energy Coal Terminal, Utah (Carbon Co | ounty) |
| | 6 miles southeast of Price, Utah | |
| Marketing Contact | JHood@bowieresources.com | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 11,800 |
| | Sulfur | 1.0% |
| | Ash | 11.5% |
| | Sodium as % of Ash | 0.7% |
| Recoverable Reserves | 9.1 million tons | |
| Annual Production | 201763 Million tons | |
| | 201665 Million tons | |
| | 201576 Million tons | |
| Loading & Weighing | Flood loading with belt scale | |
| Track Configuration | Loop track holds one unit train | |

SUFCO Mine - Bowie Resources

| Type of Mine | Underground longwall operation | |
|----------------------|--|---------|
| Loading Station | Savage Coal Terminal, Utah (Carbon County) | |
| | 6 miles southeast of Price, Utah | |
| Marketing Contact | JHood@bowieresources.com | |
| Coal Specifications | Proximate Analysis (as received) | Typical |
| | Btu/lb. | 11,000 |
| | Sulfur | 45.0% |
| | Ash | 11.0% |
| | Sodium as % of Ash | 2.2% |
| Recoverable Reserves | 83.4 million tons | |
| Annual Production | 2017 - 5.88 Million tons | |
| | 2016 - 5.38 Million tons | |
| | 2015 - 6.02 Million tons | |
| Storage Capacity | 500,000 tons (stockpile), Approx 4,000 tons per hour | |
| Loading & Weighing | Flood loading with weigh in motion scale | |
| Track Configuration | Loop track holds one unit train | _ |

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