

Coal extraction data

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 Climate Mitigation Services
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North American Coal Corp.

www.nacco.com Dallas

yellow column indicates original reported units

Investor-owned

Production / Extraction data

Year	Lignite		Lignite		Total Coal	
	Gross production	Gross production	Gross production	Gross production	Gross production	Gross production
	Million tons/yr	Million tonnes/yr	Million tons/yr	Million tonnes/yr	Million tons/yr	Million tonnes/yr

Founded in 1913 Cleveland & Western Coal Company, renamed North American Coal in 1925

Company's Powhatan mine #1 & 3 only 2.07 Keystone Manual

founded in 1913



Company's Powhatan mine #1 & 3 only 4.09 Keystone Manual

	Q1	Q2	Q3	Q4	FY
1998	6.7	5.8	7.2	7.5	27.2
1999	6.6	6.1	7.1	7.4	27.2
2000	7.4	5.8	7.0	7.2	27.4
2001	6.8	5.8	6.9	7.1	26.6
2002	7.1	5.8	7.2	7.3	27.4
2003	7.3	6.1	7.3	7.1	28.1
2004	7.2	5.8	7.2	6.9	27.1
2005	6.7	6.0	7.3	7.2	27.2
2006	6.4	6.3	7.2	7.3	27.4
2007	6.7	6.2	7.0	7.0	26.9
2008	5.9	6.5	6.8	7.1	26.3
2009	6.8	6.1	6.9		

	Q1	Q2	Q3	Q4	FY
1998	1.0	1.3	1.0	1.2	4.5
1999	0.9	1.3	1.2	0.9	4.1
2000	0.7	1.2	1.2	1.1	4.2
2001	1.0	1.3	1.4	1.1	4.8
2002	1.2	1.9	1.7	2.0	6.8
2003	1.9	1.7	1.8	2.0	7.4
2004	1.8	1.5	2.0	1.9	7.2
2005	1.8	1.8	1.9	2.0	7.5
2006	1.8	2.0	2.1	2.1	8.0
2007	1.6	1.8	1.9	1.7	6.9
2008	1.6	1.8	2.1	1.4	6.7
2009	1.9	1.9	2.1		

North Amer. Coal, Historical Financial Data

North American Coal
million tons lignite

1998	31.7	company data 98-08	31.7	28.8
1999	31.3		31.3	28.4
2000	31.6		31.6	28.7
2001	31.4		31.4	28.5
2002	34.2		34.2	31.0
2003	35.5		35.5	32.2
2004	34.4		34.4	31.2
2005	34.7		34.7	31.5
2006	35.4		35.4	32.1
2007	33.7		33.7	30.6
2008	33.6		33.6	30.5
2009	34.2		34.2	31.0
2010	34.1		34.1	30.9
2011	27.9		27.9	25.3
2012	28.4		28.4	25.8
2013	29.9		29.9	27.1
2014	29.3		29.3	26.6
2015	30.2		30.2	27.4
2016	32.5		32.5	29.5
2017	37.2		37.2	33.7
2018	38.5		38.5	34.9

Total na 522 1,251 na 1,251 1,135

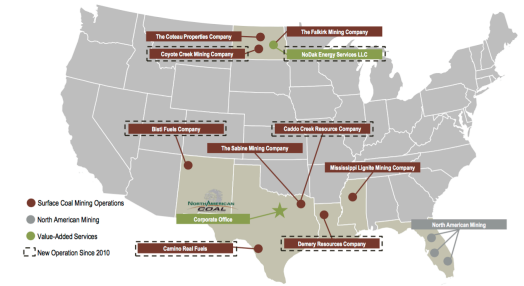
NACCO has only recently acquired sub-bituminous mines (~2017) 1950-2018 total: 1,251 million tons

Coal Types:	Lignite	100%	Bituminous	0%	Metallurgical	0%
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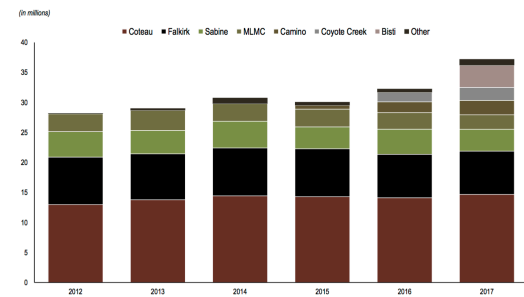
NACCO AnnRpt 2012, page 11. Mississippi Lignite Mining Company's Red Hills Mine

NACoal Operations



NACCO 2018

Annual Coal Production from Current Operations



NACCO Industries Full Year 2017 Investor Presentation

Tons of coal delivered by NACoal's operating mines ending December 31 (in millions):

	2018	2017
Coteau	14.2	14.7
Falkirk	8.4	7.2
Sabine	3.8	3.6
Bisti	4.1	3.7
Camino Real	2.1	2.4
Coyote Creek	2.5	2.2
Other	0.4	1.0
Unconsolidated mines	35.5	34.8
MLMC	3.0	2.4
Consolidated mines	3.0	2.4
Total tons delivered	38.5	37.2

NACCO / NACCO Form 10-K for 2018, page 34.



https://www.nacco.com/operations
 Coal type (2017)
 sub-bituminous: Bisti & Camino mines, approx 6.0 Mt (sh)

NorthAmer

Cell: I9

Comment: Rick Heede:

North American Coal Corporation (NACC) is an American coal mining and mining services company. The company, now held as the main subsidiary of NACCO, is headquartered in Dallas, Texas and operates coal mines in North Dakota, Louisiana, Mississippi, and Texas. The company also contracts to provide dragline mining services to limestone quarries in Florida. North American Coal Corporation's coal mines are all surface mines producing lignite coal. At 35 million tons of annual production, NACC is the largest lignite coal producer in the United States, and also ranks among the top ten of all coal producers.
https://en.wikipedia.org/wiki/North_American_Coal_Corporation
NACCO's history dates back to 1913. "The Cleveland & Western Coal Company is founded in Cleveland, Ohio as a coal brokerage firm."
1916: First underground coal mines are purchased in southern Ohio.
1925: The Company's name is changed to North American Coal Company.
1957: first lignite coal mine in North Dakota.
<https://nacco.com/history>

Cell: K11

Comment: Rick Heede:

Coal production by coal mining companies and state-owned enterprises, including subsidiaries of oil and gas companies. Coal types produced are not ordinarily reported by coal operators (except for metallurgical coal). We distinguish, where possible and reasonably well known, between hard (bituminous and subbituminous) and soft (lignite or peat) coals, especially for the larger companies operating in regions such as Australia and India where soft coals are predominant. Soft coals have lower carbon content per tonne than do hard coals.

Cell: G24

Comment: Rick Heede:

CMS has two data points on North American's coal production from Keystone Coal Industry Manual for 1968, p. 194, listing two of the company's mines in a list of "The 50 Biggest Bituminous Mines in 1968." While North American probably operated other mines during this period of time, CMS estimates the company's minimum production from 1950-1967 (and interpolates for 1951-1966).

Cell: G45

Comment: Rick Heede:

North American annual reports.

Cell: E72

Comment: Rick Heede:

NAC Historial

Cell: J83

Comment: Rick Heede:

NMA Coal Producers Survey 2009 and 2010 pdfs, pg 10 table 1 in both, million short tons; confirmed in AR 2010 pg 30, all production is lignite; AR 2010 reports 30.2 million tons delivered for both 2009 and 2010

Cell: E85

Comment: Rick Heede:

North American Coal, NACCO Industries Form 10-K for 2013, page 40. Shows tons sold; no data on annual production.

Cell: G92

Comment: Rick Heede:

NACoal / NACCO Form 10-K for 2018, page 34. Table below of production by mine. Page 33: "Coal is surface mined from NACoal's mines in North Dakota, Texas, Mississippi, Louisiana and on the Navajo Nation in New Mexico." Reserves total 1.9 billion short tons. CAI did not find heating values or information on coal rank, except for several references to surface mining and lignite. Verify that Navajo Nation coal production is bituminous (characteristic of region, with heat content ~10,800 Btu/lb), whereas lignite is more typically in the 5,000 to 7,500 Btu/lb range.

Cell: D96

Comment: Rick Heede:

CAI estimates Camino and Bisti mines totaled 6 Mt (sh) in 2017; CAI does not modify coal type percentage, since company has been a lignite producer for most of its history. May be modified in the future, if NACCO increases its sub-bit production.

Cell: O96

Comment: Rick Heede:

Coteau, Coyote, Falkirk, MLMC and Sabine supply lignite coal for power generation. Bisti and Camino Real supply sub-bituminous coal for power generation. Caddo Creek and Demery supply lignite coal for the production of activated carbon. Each of these mines are mine-mouth operations that deliver their coal production to adjacent or nearby power plants, synfuels plants or activated carbon processing facilities under long-term supply contracts. With the exception of Camino Real, each mine is the exclusive supplier to its customers' facilities.
NACCO Form 10-K, 2017, p. 2.