

Year	Lignite	Lignite	Total Coal
Gross production	Gross production	Gross production	Gross production
Million tons/yr	Million tonnes/yr	Million tons/yr	Million tonnes/yr
1950	Company's Powhatan mine #1 & 3 only		2.07 Keystone Manual
1951		2.19	interpolated
1952		2.30	interpolated
1953		2.42	interpolated
1954		2.54	interpolated
1955		2.66	interpolated
1956		2.78	interpolated
1957		2.90	interpolated
1958		3.02	interpolated
1959		3.14	interpolated
1960		3.26	interpolated
1961		3.38	interpolated
1962		3.49	interpolated
1963		3.61	interpolated
1964		3.73	interpolated
1965		3.85	interpolated
1966		3.97	interpolated
1967	Company's Powhatan mine #1 & 3 only		4.09 Keystone Manual
1968		8.7	Keystone Manual
1969		8.9	Keystone Manual
1970		9.7	Keystone Manual
1971		8.4	NorthAmCoal AnnRpts
1972		11.5	
1973		10.8	
1974		9.9	
1975		9.8	
1976		10.9	NorthAmCoal AnnRpts
1977		9.1	
1978		7.9	
1979		11.5	
1980		12.9	
1981		11.7	NorthAmCoal AnnRpts
1982		14.1	
1983		14.9	
1984		19.1	
1985		22.3	
1986		24.0	Keystone Manual
1987		20.7	
1988		22.5	
1989		22.5	
1990		22.0	
1991		22.8	
1992		24.4	
1993		26.5	
1994		27.2	
1995		26.8	
1996		26.3	
1997		28.3	
1998		31.7	company data 98-08
1999		31.3	
2000		31.6	
2001		31.4	
2002		34.2	
2003		35.5	
2004		34.4	
2005		34.7	
2006		35.4	
2007		33.7	
2008		33.6	
2009		34.2	
2010		34.1	
<b>Total</b>	<b>na</b>	<b>436</b>	<b>997 na 997 905</b>

# Coal extraction data

Richard Heede  
 Climate Mitigation Services  
 File started: 11 January 2005  
 Last modified: August 2011

North American Coal Corp.  
 www.nacco.com Dallas

yellow column indicates original reported units

## Production / Extraction data

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

1950	Company's Powhatan mine #1 & 3 only		2.07	Keystone Manual	2.1	1.9
1951		2.19	interpolated		2.2	2.0
1952		2.30	interpolated		2.3	2.1
1953		2.42	interpolated		2.4	2.2
1954		2.54	interpolated		2.5	2.3
1955		2.66	interpolated		2.7	2.4
1956		2.78	interpolated		2.8	2.5
1957		2.90	interpolated		2.9	2.6
1958		3.02	interpolated		3.0	2.7
1959		3.14	interpolated		3.1	2.8
1960		3.26	interpolated		3.3	3.0
1961		3.38	interpolated		3.4	3.1
1962		3.49	interpolated		3.5	3.2
1963		3.61	interpolated		3.6	3.3
1964		3.73	interpolated		3.7	3.4
1965		3.85	interpolated		3.9	3.5
1966		3.97	interpolated		4.0	3.6
1967	Company's Powhatan mine #1 & 3 only		4.09	Keystone Manual	4.1	3.7
1968		8.7	Keystone Manual		8.7	7.9
1969		8.9	Keystone Manual		8.9	8.1
1970		9.7	Keystone Manual		9.7	8.8
1971		8.4	NorthAmCoal AnnRpts		8.4	7.6
1972		11.5			11.5	10.4
1973		10.8			10.8	9.8
1974		9.9			9.9	9.0
1975		9.8			9.8	8.9
1976		10.9	NorthAmCoal AnnRpts		10.9	9.9
1977		9.1			9.1	8.3
1978		7.9			7.9	7.2
1979		11.5			11.5	10.4
1980		12.9			12.9	11.7
1981		11.7	NorthAmCoal AnnRpts		11.7	10.6
1982		14.1			14.1	12.8
1983		14.9			14.9	13.5
1984		19.1			19.1	17.3
1985		22.3			22.3	20.2
1986		24.0	Keystone Manual		24.0	21.7
1987		20.7			20.7	18.8
1988		22.5			22.5	20.4
1989		22.5			22.5	20.4
1990		22.0			22.0	20.0
1991		22.8			22.8	20.7
1992		24.4			24.4	22.1
1993		26.5			26.5	24.0
1994		27.2			27.2	24.6
1995		26.8			26.8	24.3
1996		26.3			26.3	23.8
1997		28.3			28.3	25.7
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

North Amer. Coal, Historical Financial Data

North Amer Coal

Year	million tons lignite
1998	31.7
1999	31.3
2000	31.6
2001	31.4
2002	34.2
2003	35.5
2004	34.4
2005	34.7
2006	35.4
2007	33.7
2008	33.6
2009	34.2
2010	34.1

Coal Types:	Lignite	100%	Bituminous	0%	Metallurgical	0%	100.00%
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**Cell:** D11

**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:** G17

**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:** G38

**Comment:** Rick Heede:

North American annual reports.

**Cell:** E65

**Comment:** Rick Heede:

NAC Historial

**Cell:** J76

**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