

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
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	North Amer. Coal, Historical Financial Data		27.2
1995			26.8
1996	North Amer Coal		26.3
1997	million tons lignite		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>
<b>Coal Types:</b>			1950-2010 total: 997 million tons
Lignite	100%	Bituminous	0%
		Metallurgical	0%
			100.00%

**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