

Coal extraction data

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CONSOL Energy, USA

www.consolenegy.com Pittsburgh

yellow column indicates original reported units

Production / Extraction data

Year	Misc. & metallurgical		Bituminous		Total Coal	
	Net production	Net production	Net production	Net production	Net production	Net production
	Million tons/yr	Million tonnes/yr	Million tons/yr	Million tonnes/yr	Million tons/yr	Million tonnes/yr
	Consolidation Coal / Conoco / CONSOL		Consolidation Coal / Conoco / CONSOL		Consolidation Coal / Conoco / CONSOL	
	Mined by CONSOL		Mined by lessees			

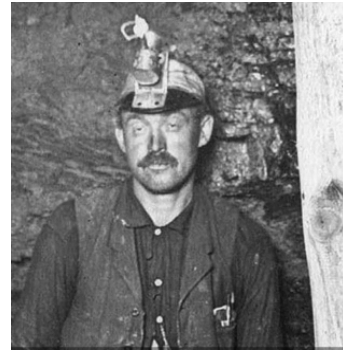
Natural Gs	
Net production	Net production
Bcf/yr	Bcf/yr

STATISTICS OF THE CUMBERLAND COAL TRADE FROM ITS COMMENCEMENT.
 Compiled from Official Sources, by G. Swan, *Mount Savage, Md.*
 TABLE No. 1.—DETAILS OF 1865.

NAME OF COMPANY.	1865.			Consolidated with 1865.		
	TONS.	TONS.	TOTAL.	TOTAL.	TOTAL.	TOTAL.
American Coal Company.....	12,750	64,800	77,550	77,550	77,550	77,550
Central C. M. & M. Coal Co.....	47,774	59,437	107,211	107,211	107,211	107,211
Edwards Coal and Iron Co.....	37,750	.....	37,750	37,750	37,750	37,750
Parsons Mining Company.....	34,415	3,597	38,012	38,012	38,012	38,012
Princeton Coal Company.....	32,452	.....	32,452	32,452	32,452	32,452
George's Creek C. & I. Co.....	44,256	111	44,367	44,367	44,367	44,367
Hamshire of Baltimore C. Co.	8,200	.....	8,200	8,200	8,200	8,200
Steff Bros Coal Company.....	750	3,961	4,711	4,711	4,711	4,711
Frederick Coal Company.....	15,440	24,800	40,240	40,240	40,240	40,240
Consolidation Coal Company.....	17,512	116	17,628	17,628	17,628	17,628
Northon Mining Company.....	8,922	24,000	32,922	32,922	32,922	32,922
New Hope Mines.....	5,382	14,802	20,184	20,184	20,184	20,184
Millbrook Coal Company.....	8,800	.....	8,800	8,800	8,800	8,800
Arden Coal Company.....	36,319	8,197	44,516	44,516	44,516	44,516
Arden & G. C. C. Company.....	8,700	.....	8,700	8,700	8,700	8,700
Arden & G. C. C. Company.....	36,319	8,197	44,516	44,516	44,516	44,516
George's Creek Mining Co.....	16,872	.....	16,872	16,872	16,872	16,872
Northon Coal Company.....	41,250	.....	41,250	41,250	41,250	41,250
Consolidated Iron & Coal Co.....	44,000	1,100	45,100	45,100	45,100	45,100
Northon Coal Company.....	18,000	100	18,100	18,100	18,100	18,100
Princeton Coal Company.....	32,452	.....	32,452	32,452	32,452	32,452
George's Hill Coal Company.....	32,300	.....	32,300	32,300	32,300	32,300
Hamshire of Baltimore C. Co.	8,200	.....	8,200	8,200	8,200	8,200
Total	580,116	243,201	823,317	823,317	823,317	823,317

Cumberland (Md) coal trade table from 1865 showing Consolidated Coal prodn of 58,098 tons Source: wikipedia

straight interpolation		
for example only		
7.54		
9.13		
10.71		
12.30		
13.88		
15.47		
17.06		
18.64		



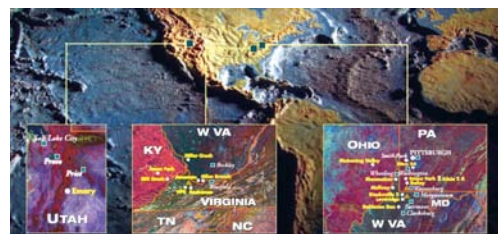
CONSOL history in films "The Great Expansion"



CONSOL history in films "The Great Expansion"



CONSOL history in films "The Great Expansion" www.consolenegy.com/AboutUs/History.aspx



CONSOL Annual Report 2004, page 26.

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: G20**Comment:** Rick Heede:

Wikipedia: "The Consolidation Coal Company was established in 1864 and headquartered in the city of Cumberland, Maryland for the first 85 years (1864-1945) where the company became the largest bituminous coal company in the eastern United States.

Western Maryland's coal production rose about 1 million short tons in 1865, exceeded 4 million short tons by the turn of the century, and reached an all time high of about 6 million short tons in 1907. A small amount of the coal production in the early 1900s was premium smithing coal (as in blacksmith) that was specially processed and delivered in boxcars to customers throughout the United States and Canada.

Sharp declines in coal demand after 1920, reflecting downturns in the economy, recurrent labor problems and the extensive replacement of coal by petroleum, led to further consolidations and mergers in the coal industry. In 1945, Consolidated Coal Company merged with the Pittsburgh Coal Company, and the corporate headquarters was moved from Cumberland to Pittsburgh. In 1966 the Continental Oil Company (Conoco) purchased the assets of Consolidation Coal Company, and in 1981 DuPont purchased Conoco. The Consolidation Coal Company continued to exist as a subsidiary of Dupont until 1998 when the subsidiary was purchased from Dupont by Rheinbraun. As of 1999 the company has renamed itself to Consol Energy, reflecting the diversification of the business into other forms of energy."

1860 Consolidation Coal Company is formed with the merger of several smaller coal mining firms in the Georges Creek Valley.

1864 Consolidation Coal Company is formally incorporated in Cumberland, Maryland.

1878 Offices moved from New York to Baltimore.

1921 Moved offices back to New York.

1925 Consolidation Coal Company becomes largest bituminous coal producer in the United States, a distinction it retains today.

1945 Consolidation Coal merges with Pittsburgh Coal Company.

1958 Renamed Consolidation Coal Company.

1964 One hundred year anniversary.

1966 Continental Oil Company (Conoco) acquires Consolidation Coal Company.

1981 Conoco, along with subsidiary Consolidation Coal Company, is acquired by DuPont.

1991 RWE A.G, through its direct and indirect wholly owned subsidiaries Rheinbraun A.G. and Rheinbraun U.S.A. GmbH, purchases 50 percent of Consolidation Coal. CONSOL Energy Inc. is formed as a subsidiary of DuPont Energy Company and Rheinbraun affiliates.

1998 CONSOL Energy purchases shares of its common stock from DuPont Energy. After this transaction, Rheinbraun A.G. and Rheinbraun U.S. GmbH together own about 94 percent and DuPont Energy 6 percent of outstanding shares of common stock.

1999 CONSOL Energy stock begins trading on NYSE under the symbol "CNX," with the public offering of 20.6 million shares of its total 80.3 million shares.

2000 CONSOL Energy purchases extensive coalbed methane reserves and facilities in southwestern Virginia from MCN Energy Group Inc.

2001 CNX Ventures announces agreement on joint venture with Allegheny Energy to construct 88-megawatt, coalbed-methane-fueled electricity generating facility in southwestern Virginia, which begins operating in 2002. Acquires coalbed methane gas production and gathering pipeline facilities in southwest Virginia from Conoco.

2002 Through subsidiary CNX Marine Terminal Inc., begins operation as a break bulk and general cargo and warehouse provider at facilities in Baltimore.

2003 Completes sale of Canadian coal assets and port facilities to Fording Inc.

Cell: H55**Comment:** Rick Heede:

CONSOL website: Our History in video clips: "Expansion."

Source: www.consolenergy.com/AboutUs/History.aspx

Cell: H82**Comment:** Rick Heede:

CONSOL website: Our History in video clips: "Expansion." Consolidation Coal Company had become the largest coal producer in the United States by 1927, and produced 27 million tons.

Cell: G88**Comment:** Rick Heede:

CONSOLIDATION COAL COMPANY

1st annual report, 1935

"Consolidation Coal Company was incorporated in Delaware on November 1, 1935 and as of that date it succeeded to the business and acquired substantially all of the properties and assets of The Consolidation Coal Company, a Maryland corporation, pursuant to the Plan of Reorganization of the latter Company confirmed in proceedings for its reorganization by the United States District Court for the District of Maryland. The predecessor Company was incorporated in 1860 and its business has been in active operation for the past seventy-five years....."

"Production of coal for the past three years from properties now owned by this Company" has been as listed here for 1933-1935. CMS enters only the quantities for "Net tons mined by the Company and its predecessor Company," and excludes "Net tons mined by lessees" (although these tonnages are listed in column H), but not included.

Cell: G122**Comment:** Rick Heede:

Keystone Coal Industry Manual does not list coal production by major producers prior to 1969. Instead, a list of the "50 Biggest Bituminous Mines" is included, p. 186. The ten mines listed and owned by Consolidation Coal Company produced 24.38 million tons in 1967, or roughly half of the total tonnage in 1968. Clearly, Consolidated's many other mines are not accounted for.

Cell: G123**Comment:** Rick Heede:

Keystone Coal Industry Manuals prior to 1969 do not list coal production by the largest coal producers. The 1969 edition, however, does list Consolidation Group production in 1969 as 1.7 percent higher than 1968, which we calculate here.

Cell: G124**Comment:** Rick Heede:

Data from 1969-1993 from Keystone Coal Industry Manual (various years).

Cell: G155**Comment:** Rick Heede:

Coal production 2000-2004 from CONSOL (2005) Annual Report 2004, p. 8 and 16.

Cell: P155**Comment:** Rick Heede:

"Gas sales (net)" 2000-2004 from CONSOL (2005) Annual Report 2004, p. 11. This gas is derived from coal bed methane production systems at several of CONSOL's mines. Gross production is ~10 percent higher. Royalty holders' one-eighth interest is also deducted. 1,801 producing wells are located chiefly in Virginia; small amounts of conventional gas is also produced in PA and TN.

Annual Report (2005), p. 10: "CONSOL Energy produces gas entirely in Appalachia. Our primary producing property is our 178,000-acre tract in southwestern Virginia. We produce gas from this tract in four different ways. First, we drill wells from the surface into the coal seam. These wells, called "frac" wells, liberate the gas from the coal seam before we mine the coal. Second, from inside our Buchanan Mine, we drill horizontally into the coal seam to liberate more gas immediately prior to mining. Third, after we have mined the coal, we drill additional wells from the surface into the rubble, called "gob," left by mining, preventing the gas released in this process from seeping back into the active mining area. Fourth, we have begun drilling long holes horizontally into the coal seam from the mine's perimeter. All of these efforts have the additional benefit of enhancing mine safety."

Cell: D163**Comment:** Rick Heede:

Consol

CONSOL has been a coking coal producer since the 1956 acquisition of Pocahantas Coal Company, although CONSOL's coking coal production levels are difficult to find. These results are from the 2010 Form-K filed with SEC.

Cell: G163

Comment: Rick Heede:

CONSOL Energy (2009) SEC Form 10-K for 2008, page 5. Proved reserves of coal 1.683 billion tons.

Cell: P163

Comment: Rick Heede:

CONSOL Energy (2009) SEC Form 10-K, page 5: Approx 246 million cf per day in Dec08 (= 89.8 Bcf if annualized); CONSOL does not provide annual production data. 1.4 Tcf of proved reserves (97 percent CBM).

Cell: G164

Comment: Rick Heede:

CONSOL Energy AR 2010 html, pgs 71-75; produced steam tons sold+produced high vol met tons sold+produced low vol met tons sold

Cell: P164

Comment: Rick Heede:

CONSOL 2010 10K pg 78,
coalbed methane, produced gas CBM sales volumes bcf, 2009-2010, data for 2009 and 2010 include CBM+conventional gas+marcellus gas, in that order