

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Coal extraction data														
2	Richard Heede														
3	<i>Climate Mitigation Services</i>														
4	File started: 11 January 2005														
5	Last modified: June 2006														
6															
7															
8															
9	Cyprus Minerals Company										yellow column indicates original reported units				
10	www. location														
11	Production / Extraction data														
12	Year	Steam Coal				Hard Coal				Total Coal					
13		Gross production	Gross production		Gross production	Gross production		Gross production	Gross production		Gross production	Gross production			
14		Million tons/yr	Million tons/yr		Million tons/yr	Million tonnes/yr		Million tons/yr	Million tonnes/yr		Million tons/yr	Million tonnes/yr			
15		Ayshire, AMAX & Cyprus Amax	Cyprus												
16															
17	1950														
18	1951														
19	1952														
20	1953														
21	1954														
22	1955														
23	1956														
24	1957														
25	1958														
26	1959														
27	1960														
28	1961														
29	1962														
30	1963														
31	1964														
32	1965														
33	1966														
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65	1998														
66	1999														
67	2000														
68	2001														
69	2002														
70	2003														
71	2004														
72	2005														
73	2006														
74	2007														
75	2008														
76	2009														
77	2010														
78															
79	Total														
80															
81															
82	Coal Types:														
83															



assumed bituminous assumed bituminous

Ayshire Collieries		
1969	11.28	Keystone Manual
1970	14.43	
1971	13.34	
1972	16.38	
1973	16.66	
1974	19.95	
1975	21.84	
1976	24.18	
1977	28.13	
1978	29.79	
1979	34.56	
1980	40.55	
1981	35.46	
1982	38.93	
1983	40.02	
1984	41.35	
1985	38.26	
1986	35.42	Cyprus
1987	37.73	11.60
1988	36.95	13.21
1989	38.40	14.20
1990	44.00	16.20
1991	44.80	16.80
1992	41.10	18.70
1993	26.90	
1994	76.19	EIA Coal Annual
1995	76.03	
1996	74.74	
1997	81.22	
1998	25.80	

	11.3	10.2
	14.4	13.1
	13.3	12.1
	16.4	14.9
	16.7	15.1
	19.9	18.1
	21.8	19.8
	24.2	21.9
	28.1	25.5
	29.8	27.0
	34.6	31.4
	40.5	36.8
	35.5	32.2
	38.9	35.3
	40.0	36.3
	41.4	37.5
	38.3	34.7
	35.4	32.1
	49.3	44.8
	50.2	45.5
	52.6	47.7
	60.2	54.6
	61.6	55.9
	59.8	54.3
	26.9	24.4
	76.2	69.1
	76.0	69.0
	74.7	67.8
	81.2	73.7
	25.8	23.4

RAG acq Cyprus Amax Coal Co (~1999)

Acq by PhelpsDodge
Then RAG Intern'!

1967-2004 total: 1,195 -

Lignite:	0.00%	Assume thermal	100.00%	Metallurg./Anthrac.	0.00%	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: D15

Comment: Rick Heede:

"In 1957, Climax Molybdenum Company merged with the American Metal Trading Company to form AMAX. In 1993, AMAX merged with the Cyprus Minerals Company to form Cyprus Amax Minerals Company. Following the acquisition of Cyprus Amax by Phelps Dodge in 1999, Climax Molybdenum became a subsidiary of Phelps Dodge Corporation."

Quoted from: www.climaxmolybdenum.com/AboutUs/CompanyInformation/History.htm

Cell: D36

Comment: Rick Heede:

Based on the Keystone data set alone, Ayshire in 1969 becomes AMAX in 1970.

Cell: D56

Comment: Rick Heede:

Keystone Coal Industry Manual for 1991, p. 657, with 1989 data from National Coal Association. CMS adds AMAX (38.4 million tons) and Cyprus Coal Company (14.2 million tons).

Cell: D57

Comment: Rick Heede:

Keystone Coal Industry Manual for 1992, p. 632, with 1990 data from National Coal Association. CMS adds AMAX Coal Industries (44.0 million tons) and Cyprus Coal Company (16.2 million tons).

Cell: D58

Comment: Rick Heede:

Keystone Coal Industry Manual for 1993, p. 372, with 1991 data from National Coal Association. CMS adds AMAX Coal Industries (44.8 million tons) and Cyprus Coal Company (16.8 million tons).

Cell: D59

Comment: Rick Heede:

Keystone Coal Industry Manual for 1994, p. 358, with 1992 data from National Coal Association. CMS adds AMAX Coal Industries (41.1 million tons) and Cyprus Coal Company (18.7 million tons).

Cell: D60

Comment: Rick Heede:

Keystone Coal Industry Manual for 1995, with 1993 data from national Coal Association. Listed as "Cyprus Amax Coal Company."

Cell: D61

Comment: Rick Heede:

U.S. Energy Information Administration, Coal Industry Annual, various years.

Cell: D65

Comment: Rick Heede:

EIA Coal Industry Annual 1998, p. 23. Cyprus is not mentioned in 1999.

Cell: H66

Comment: Rick Heede:

Keystone Coal Industry Manual (2000), p. 22: Ruhrkohle AG bought Cyprus Amax and renamed it RAG American Coal Company.