Summary of coal production entered on entity worksheets

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28-Jul-20

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Coal

		1850s										1860s											
		1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871
1	Alliance Resource Partners, USA																						
2	Anglo American, UK																						
3	Arch Coal Company, USA																						
4	British Coal Corporation																						
5	BP Coal, UK																						
6	BHP Billiton, Australia																						
7	Chevron Mining																						
8	China, Peoples Republic																						
9	Cloud Peak, USA																						
10	Coal India, India																						
11	CONSOL Energy, USA															0.03	0.05	0.1	0.1	0.1	0.2	0	0
12	Contura Energy / ANR, USA																						
13	Cyprus Amax, USA																						
14	Czechoslovakia																						
15	Czech Republic + Slovakia																						
16	Exxon Mobil																						
17	Exxaro, South Africa																						
18	FSU (Former Soviet Union)																						
19	Glencore, Switzerland																						
20	Kazakhstan																						
21	Kerr-McGee Coal (Anadarko), USA																						
22	Kiewit Mining Group, USA																						
23	Murray Coal Corporation, USA																						
24	North American Coal Corp., USA																						
25	North Korea																						
26	Occidental, USA																						
27	Peabody Energy, USA																						
28	Poland																						
29	Rio Tinto, Australia																						
30	Ruhrkohle AG (RAG), Germany																						
31	Russian Federation (not including FSU)																						
32	RWE, Germany																						
33	Sasol, South Africa																						
34	Shell Coal (1979-1999)																						
35	Singareni Collieries Company, India																						
36	Teck Resources, Canada																						
37	UK Coal, UK																						
38	Ukraine																						
39	Vale, Brazil																						
40	Vistra Energy, USA																						
41	Westmoreland Coal, USA					0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4
42	Whitehaven Coal, Australia																						
	Annual coal prod'n by identified entities:					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	Annual world coal prod'n 1960-2010																182						
	Percent identified prod'n of global prod'n																						

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	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
8	1870s								1880s										1890s						
9	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896
34	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
94	0.5	0.6	0.7	0.8	0.9	1.0	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3
100	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4
102																433			511						

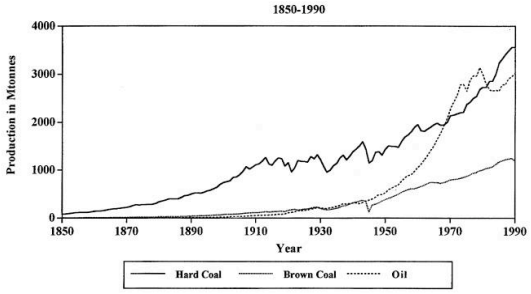

Fig. 1. Comparison of global production of anthracite and bituminous hard coal, brown coal, and oil.

Lefohn A.S., Husar J.D., and Husar R.B. (1999). Estimating Historical Anthropogenic Global Sulfur Emission Patterns for the Period 1850-1990. Atmospheric Environment. 33(21):3435-3444.

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	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI
8				1900s										1910s											
9	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
16													0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.9
34	1	1	1	1	3	5	7	7	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	11
48				16	16	15	15	14	14	13	13	12	12	11	11	10	10	9	9	8	8	7	7	6	9
68																	30	29	29	29	29	28	28	28	28
94	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
100	4	4	4	20	22	24	25	25	25	25	24	24	24	24	24	24	53	53	52	51	51	50	49	49	53
102				767																				1,319	
104				2.6%																				3.7%	

Summary of coal production entered on entity worksheets

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	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH
	1920s								1930s										1940s						
	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
16	1.2	1.5	1.8	2.1	2.4	2.7	3	3	3	3	4	4	4	4	5	5	5	5	6	6	7	8	8	9	9
28																								6	15
34	11	11	11	11	12	12	11	10	9	8	7	6	8	7	8	9	10	11	12	13	14	15	16	17	18
40																	32	31	30	29	28	26	25	24	23
48	13	16	20	23	26	30	33	37	40	50	71	87	111	109	126	127	133	165	197	222	247	139	127	147	161
56																							3	3	3
64																								2	3
66																								0.4	2
68	29	30	30	31	32	32	33	33	34	35	35	36	36	37	37	38	38	42	45	48	52	55	59	62	66
80																									
94	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5
100	57	62	66	71	75	79	83	86	89	99	119	136	162	160	179	182	222	258	293	322	351	247	243	275	304
102																			1,799						
104																			16.3%						
106										get data										get data					

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	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG
8	1940s			1950s										1960s											
9	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
11				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
16	10	11	11	11	11	11	12	12	12	13	13	14	14	14	15	15	15	15	19	18	17	15	12	13	14
20	200	207	213	220	221	222	223	224	225	220	214	208	202	197	195	192	190	188	186	178	169	161	153	145	141
22														4	3	4	4	5	6	9	9	9	11	11	10
24									2	3	3	3	3	4	4	4	4	5	5	6	6	6	7	7	6
26																			7	8	8	8	7	7	6
28	23	32	41	49	58	66	110	154	198	242	131	329	373	417	249	249	272	290	299	327	227	299	361	466	469
34	19	20	21	22	23	24	26	27	29	31	33	35	37	39	41	43	45	47	49	50	52	54	55	58	50
38																							10	13	12
40	22	21	20	22	28	34	41	47	53	60	66	72	78	85	92	97	102	104	101	101	97	100	106	110	113
44																								1	3
48	175	205	236	274	281	300	353	403	431	473	511	547	558	566	563	571	587	611	637	646	657	656	590	585	603
56	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6
60				2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	8	8	9	8
62																18	17	16	16	16	16	17	17	18	19
64	4	5	5	6	7	5	5	6	8	9	10	11	12	14	15	16	17	19	20	21	22	24	28	27	21
66	3	5	6	7	12	10	7	8	10	20	21	20	23	26	27	30	36	42	44	49	51	52	54	62	51
68	69	73	76	81	84	87	90	94	97	100	104	107	110	114	117	121	128	138	141	146	148	156	166	173	180
70															2	2	2	2	2	2	3	3	3	3	3
76																			80	84	83	90	93	94	91
78							0.0	0.3	1.1	1	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4
80	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	6	6	6	6	6	6	6
94	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	11	10	8
100	536	587	641	705	738	774	882	991	1,083	1,187	1,124	1,366	1,433	1,500	1,343	1,383	1,441	1,504	1,636	1,686	1,592	1,681	1,707	1,826	1,823
102				1,805	1,914	2,024	2,133	2,243	2,352	2,462	2,571	2,680	2,790	2,899	2,736	2,810	2,923	3,031	3,079	3,114	2,997	3,092	2,990	3,065	3,035
104				39.0%	38.5%	38.3%	41.4%	44.2%	46.1%	48.2%	43.7%	51.0%	51.4%	51.7%	49.1%	49.2%	49.3%	49.6%	53.1%	54.1%	53.1%	54.4%	57.1%	59.6%	60.1%
106					get data																				

interpolated (autofill) 1951-1959

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	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH
	1970s								1980s										1990s							1990s	
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
																									8	10	12
	16	17	19	20	23	27	33	34	36	36	34	34	37	37	41	43	46	43	43	42	42	45	46	46	48	53	64
		11	13	12	12	11	12	11	24	26	29	29	36	39	37	41	46	53	56	55	54	57	56	63	65	66	96
	137	133	130	126	121	121	120	123	127	124	121	105	43	105	103	100	104	94	92	91	77	56	32	see UK Coal			
	10	10	9	8	9	9	7	28	21	21	21	21	27	27	28	27	26	26					no data 1990–2001; see BP worksheet				
	7	7	7	7	8	9	10	9	7	9	11	13	18	35	40	39	37	40	39	43	47	54	56	62	48	51	56
	7	7	7	7	7	7	8	8	9	15	13	11	12	12	12	11	12	14	14	14	15	18	18	16	14	14	20
	476	472	497	517	532	550	618	633	620	622	666	715	789	872	894	928	980	1,054	1,080	1,087	1,116	1,151	1,240	1,361	1,397	1,388	1,332
		73	77	89	92	88	89	91	96	107	112	118	128	132	143	157	166	176	180	207	217	216	221	231	250	258	260
	59	55	47	50	51	44	38	45	44	38	43	38	42	39	38	48	50	49	50	50	51	41	64	63	64	66	66
										13	17	17	21	22	21	16	15	15	17	15	16	20	23	26	29	31	34
	15	15	18	20	22	26	27	31	37	32	35	36	38	35	32	45	46	48	55	56	54	24	69	69	68	74	23
	108	109	111	115	118	121	124	124	135	133	135	139	142	139	138	138	136	130	116	108	100						
																						89	81	79	81	78	71
	4	6	7	8	10	11	13	14	15	17	18	21	23	27	29	33	35	40	43	43	34	33	33	15	14	14	14
																											17
	670	668	684	701	712	722	724	719	716	701	713	707	712	726	751	760	772	740	800	637							
																											44
																					127	107	100	81	74	70	69
								5	10	11	12	14	15	14	14	14	16	16	18	20	19	21	25	28	28		
	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	9	16	14	15	15	18	14	14	13	14	14	14
																	1	2	3	4	5	7	8	9	10	11	12
	10	10	9	9	10	8	7	10	12	11	13	13	17	20	22	19	20	20	20	21	22	24	25	24	24	26	29
	21	23	24	26	28	29	31	33	30	32	33	33	34	27	27	27	32	25	33	31	29	27	25	24	21	21	19
	21	21	19	18	16	15	12	18	18	18	19	13	11	13	15	17	18	18	17	16	15						
	65	63	62	66	64	59	48	58	54	47	52	48	58	56	61	76	78	83	89	100	111	121	132	141	146	155	162
	196	196	202	211	219	227	234	239	230	199	227	234	242	249	259	266	266	249	215	209	198	198	200	200	201	200	178
	3	3	3	13	14	14	14	18	19	22	18	18	19	24	35	38	39	43	52	54	41	46	66	68	69	84	114
																		51	49	46	54	47	42	43	39	37	39
																					316	286	255	246	240	229	219
	94	104	110	108	110	110	108	117	117	119	116	116	120	115	112	106	103	104	103	106	109	101	100	100	102	98	94
	5	5	5	5	5	6	7	8	13	17	28	33	35	35	35	35	35	37	37	37	39	40	41	43	44	48	49
	6	7	7	7	8	8	9	9	9	10	11	11	12	13	14	15	16	17	17	19	20	21	22	23	25	26	26
								9	12	15	18	20	23	23	28	27	30	33	31	29	27	25	23	18	19	20	14
																											5
																					see British Coal			37	35	32	26
																					123	106	87	76	57	59	60
						8	16	23	25	27	25	26	26	27	27	26	26	27	28	26	27	25	23	24	26	26	26
	8	8	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	9	10	9	11	11	11	6	4	6	6
	1,943	2,028	2,079	2,157	2,202	2,246	2,320	2,433	2,450	2,434	2,554	2,596	2,696	2,878	2,970	3,066	3,176	3,269	3,321	3,191	3,137	3,032	3,134	3,234	3,264	3,264	3,268
	3,118	3,127	3,180	3,325	3,414	3,478	3,549	3,725	3,792	3,917	4,055	4,064	4,261	4,463	4,579	4,669	4,777	4,867	4,764	4,590	4,557	4,425	4,512	4,639	4,704	4,741	4,647
										BP data 1981-2015																	
	62.3%	64.9%	65.4%	64.9%	64.5%	64.6%	65.4%	65.3%	64.6%	62.2%	63.0%	63.9%	63.3%	64.5%	64.9%	65.7%	66.5%	67.2%	69.7%	69.5%	68.8%	68.5%	69.5%	69.7%	69.4%	68.8%	70.3%

Summary of coal production entered on entity worksheets

dataset marker

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Climate Accountability Institute
28-Jul-20

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V sums checked and auto-linked to entity coal production worksheets
date of last verification: July 2019

	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH
8		2000s										2010s											Cumulative			
9	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		Million tonnes		Coal	#
11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								
																							CMEs summed to 2018			
14	13	12	14	16	17	18	21	22	22	24	23	26	28	32	35	37	37	33	34	37		V	533		Alliance Resource Partners, USA	1
16	66	73	78	80	87	90	91	92	93	99	97	99	95	99	99	100	95	72	49	50		V	3,162		Anglo American, UK	2
18	120	129	145	139	135	112	127	122	122	127	114	148	132	120	122	122	116	88	89	87		V	3,425		Arch Coal Company, USA	3
20																						V	7,275		British Coal Corporation	4
22				6	7																	V	431		BP Coal, UK	5
24	90	125	127	115	118	124	125	121	125	116	103	104	102	104	111	81	84	77	69	72		V	2,940		BHP Billiton, Australia	6
26	14	12	15	13	11	9	9	11	11	10	9	7	4	2								V	510		Chevron Mining / Pittsburgh & Midway	7
28	1,364	1,384	1,472	1,550	1,835	2,123	2,365	2,570	2,760	2,903	3,115	3,428	3,764	3,945	3,974	3,874	3,747	3,411	3,524	3,698		V	86,145		China, Peoples Republic	8
30											83	85	87	82	78	78	68	53	52	45			711		Cloud Peak, USA	9
32	261	268	280	291	306	324	343	361	379	404	431	431	436	452	462	494	539	554	567	607		V	12,165		Coal India, India	10
34	63	63	67	60	55	61	63	61	59	59	52	57	29	25	26	29	26	22	24	6		V	3,643		CONSOL Energy, USA	11
36	89	95	100	104	119	110	117	123	123	121	110	108	110	99	79	73	64	11	10	16		V	2,152		Contura Energy / ANR, USA	12
38																						V	1,084		Cyprus Amax, USA	13
40																						V	4,637		Czechoslovakia	14
42	63	69	70	67	67	67	65	65	65	63	59	58	60	58	51	49	48	47	47	44		V	1,660		Czech Republic + Slovakia	15
44	15	15	11	3																		V	619		Exxon Mobil	16
46	15	16	17	18	19	19	20	42	41	45	46	44	40	41	40	41	44	43	46	48		V	704		Exxaro, South Africa	17
48																						V	29,051		FSU (Former Soviet Union)	18
50	41	41	41	71	60	60	62	77	83	86	85	80	85	132	138	146	132	125	121	129		V	1,837		Glencore, Switzerland	19
52	58	75	77	71	81	83	83	97	98	99	101	111	116	121	120	114	107	BP stats 103	BP stats 112	118		V	2,571		Kazakhstan	20
54																						V	299		Kerr-McGee Coal (Anadarko), USA	21
56	14	14	14	14	12	28	26	21	34	32	30	30	27	21	18	16	15	11	18	17		V	813		Kiewit Mining Group, USA	22
58	13	15	14	18	18	20	18	19	25	24	23	22	24	27	59	57	50	42	42	42		V	643		Murray Coal Corporation, USA	23
60	28	29	28	31	32	31	31	32	31	30	31	31	25	26	27	27	27	29	34	35		V	1,135		North American Coal Corp., USA	24
62	21	23	23	22	22	23	24	25	24	25	26	32	30	30	30	31	27	31	22	22		V	1,426		North Korea	25
64																						V	688		Occidental, USA	26
66	168	160	176	180	184	206	218	225	214	232	221	223	208	208	202	208	194	163	172	165		V	6,860		Peabody Energy, USA	27
68	170	162	163	161	163	162	159	155	145	143	135	133	139	144	142	136	135	131	127	BP stats 122		V	13,032		Poland	28
70	139	132	149	149	149	157	154	162	156	161	140	73	31	32	35	33	30	29	24	7	divested 2018	V	2,918		Rio Tinto, Australia	29
72	39	38	37	35	34																	V	631		Ruhrkohle AG (RAG), Germany	30
74	235	240	248	238	257	259	283	285	289	305	276	299	296	329	350	357	372	384	408	BP stats 441		V	7,942		Russian Federation (not including FSU)	31
76	93	94	96	98	98	100	99	98	100	95	92	91	95	101	96	94	94	95	95	88		V	5,427		RWE, Germany	32
78	51	51	52	51	52	48	46	43	43	39	39	43	39	40	40	40	41	42	38	37		V	1,646		Sasol, South Africa	33
80	26	30	31	33	34	35	36	38	41	45	50	51	52	53	50	53	60	61	62	64		V	1,398		Singareni Collieries, India	34
82	17																						460		Shell Coal, The Netherlands	35
84	4	5	8	7	10	11	11	10	11	14	19	23	23	25	26	27	25	28	27	26		V	342		Teck Resources, Canada	36
86	23	21	22	22	19	14	10	10	8	8	7	7	8	6	5	4	2		BP stats	BP stats		V	325		UK Coal, UK (defunct Dec2015)	37
88	63	62	62	62	64	60	60	62	64	64	60	58	63	66	64	46	34	36	34	34		V	1,685		Ukraine	38
90								2	4	6	7	8	7	9	9	7	10	12				V	92		Vale, Brazil	39
92	26	24	21	21	22	22	22	21	20	21	21	25	29	28	26	27	27	22	23	13		V	998		Vistra Energy, USA	40
94	5	24	18	23	25	26	27	27	27	26	22	27	20	20	38	41	48	50	36	30		V	1,161		Westmoreland Coal, USA	41
96								2	3	2	3	4	5	5	7	9	12	16	18	18		V	103		Whitehaven Coal, Australia	42
100	3,408	3,500	3,673	3,769	4,111	4,401	4,715	4,996	5,218	5,426	5,629	5,964	6,210	6,478	6,561	6,452	6,309	5,819	5,931	6,131			215,275	Y	Coal prod'n by identified entities 1865-2015	
																							CMEs summed to 2018			
102	4,654	4,708	4,921	4,966	5,321	5,729	6,087	6,420	6,673	6,933	7,051	7,460	7,957	8,184	8,255	8,178	7,947	7,478	7,701	8,091			310,405	Y	World coal prod'n 1950-2018, million tonnes	
																							BP data 1981-2019			
104	73.2%	74.3%	74.6%	75.9%	77.3%	76.8%	77.5%	77.8%	78.2%	78.3%	79.8%	79.9%	78.1%	79.2%	79.5%	78.9%	79.4%	77.8%	77.0%	75.8%			67.8%	Y	% identified of global coal prod'n 1960-2010	

Total coal production by identified entities (million tonnes)	215,275	Y

Cell: FW16
Comment: Rick Heede:
24Apr15: revised AngloAmerican coal production in Colombia and South Africa

Cell: GG22
Comment: Rick Heede:
BP's share of the acquired ARCO coal interests are allocated to Arch Coal, which acquired ARCO's coal operations in 1998. CSM has attributed Sohio (Amoco) coal production from 1960 to 1979 and BP coal from 1979 to 1989 (partial production histories).

Cell: FT26
Comment: Rick Heede:
Chevron selling coal interests in 2011

Cell: GG32
Comment: Rick Heede:
Preliminary estimate based on attributing 88 percent of India's total coal production to Coal India Ltd (CIL) and 8 percent to Singareni Collieries. See each worksheet for details.

Cell: GG34
Comment: Rick Heede (Feb10):
CONSOL Energy produces bituminous coal and coal-bed methane (CBM). CONSOL Energy has its roots in Consolidation Coal Company (established in 1864 in Cumberland, MD). Consolidation Coal merged with Pittsburgh Coal in 1945, and was acquired by Continental Oil Company (Conoco) in 1966, which was itself acquired by DuPont in 1981. Sold to Rheinbraun/RWE in 1998. Renamed CONSOL Energy in 1999.

CMS attributes all historical production to CONSOL Energy, and removes attribution to Conoco and DuPont 1966-1998.

Note: CONSOL Energy estimates total coal production 1864-1964 at ~ 1 billion tons, whereas our estimate for the same period is 1.19 billion tons -- due to necessity of interpolating between known production in years 1864-1865, 1900, 1903, 1927, 1933-1935, 1952, and 1968. See CONSOL worksheet for details.

Cell: GG50
Comment: Rick Heede:
Xstrata plc's acquisition of Glencore International AG's Australian and South African coal business in March 2002 and its acquisition of M.I.M. Holdings in June 2003. Today Xstrata Coal has interests in over thirty coal mines located in Australia and South Africa and employs around 10,000 people, including contractors.

Cell: B102
Comment: Rick Heede:
Energy Information Administration (2005) International Energy Annual 2003, Table 2.5 World Coal Production (data converted from short tons to metric tonnes), US DOE, Washington, DC; www.eia.doe.gov

Cell: AE102
Comment: Rick Heede:
Data for 1865, 1900, 1920, 1940, and 1950 from Peach and Constantin (1972) Zimmerman's World Industries and Resources, 3rd edition, page 364. In million tonnes per year.

Data: 1865: 182 million tonnes; 1900: 767 million tonnes; 1200: 1,319 million tonnes; 1940: 1,799 million tonnes; 1950: 1,805 million tonnes.

Cell: DB102
Comment: Rick Heede:
Data for 1865, 1900, 1920, 1940, and 1950 from Peach and Constantin (1972) Zimmerman's World Industries and Resources, 3rd edition, page 364. In million tonnes per year.

Cell: DL102
Comment: Rick Heede:
Data for 1865, 1900, 1920, 1940, and 1950 from Peach and Constantin (1972) Zimmerman's World Industries and Resources, 3rd edition, page 364. In million tonnes per year.

Cell: EO102
Comment: Rick Heede:
1970-1979 global coal production data from U.S. Energy Information Administration, courtesy of Michael Grillot, international energy specialist, personal communication Jun06. michael.grillot@eia.doe.gov, 202-254-6577

Cell: GG102
Comment: Rick Heede:
US Energy Information Administration, International Energy Statistics, world primary coal production 1980 to 2012, plus earlier datasets. CAI forecasts to 2013 based on Global Carbon Project growth of coal-emissions in 2013 by 2.767 percent over 2012.

Cell: GE104
Comment: Rick Heede:
Note that this is the percent of total identified production 1950-2010 of total global coal production 1950-2010.