U. S. Geological Survey
OPEN FILE REPORT 79-1242
This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

TABLE 1.--CHEMICAL ANALYSES OF COALS OF PENNSYLVANIAN AGE FROM MASSACHUSETTS AND RHODE ISLAND

NUMBER	LOCATION: STATE	COUNTY	TOWN OR CITY	SITE	WEST LONGITUDE	NORTH LATITUDE	COAL BED: NAME	COAL BED: THICKNESS FT	COAL BED: THICKNESS M	NATURE OF SAMPLE	CONDITION [1]	DATE OF ANALYSIS	LAB. NO.	PROXIMATE ANALYSIS, WT. %: MOISTURE	PROXIMATE ANALYSIS, WT. %: VOLATILE MATTER	PROXIMATE ANALYSIS, WT. %: FIXED CARBON	PROXIMATE ANALYSIS, WT. %: ASH	ULTIMATE ANALYSIS, WT. %: SULFUR	ULTIMATE ANALYSIS, WT. %: HYDROGEN	ULTIMATE ANALYSIS, WT. %: CARBON	ULTIMATE ANALYSIS, WT. %: NITROGEN	ULTIMATE ANALYSIS, WT. %: OXYGEN	ULTIMATE ANALYSIS, WT. %: ASH	HEAT VALUE: kJ	HEAT VALUE: Btu	FUSIBILITY OF ASH (°F): INITIAL DEFORMATION TEMPERATURE	FUSIBILITY OF ASH (°F): SOFTENING TEMPERATURE	FUSIBILITY OF ASH (°F): FLUID TEMPERATURE	SPECIFIC GRAVITY	MAN CORRECTED MINERAL-MATTER-FREE BASIS: FIXED CARBON PERCENT	MAN CORRECTED MINERAL-MATTER-FREE BASIS: CALORIFIC POWER (BTU)	RANK	REFERENCES AND NOTES
1	MA	BRISTOL	N.SPRINGFIELD	HARDON MINE	71°14'52"	42°00'27"	-	-	-	-	2	10-1838	-	-	-	94	6	-	-	-	-	-	-	-	-	-	-	-	1.70	-	-	-	Hitchcock, 1841, p. 130
2	MA	"	"	"	"	"	-	-	-	-	1	10-1838	-	5.6	-	88.8	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hitchcock, 1841, p. 130
3	MA	"	"	"	"	"	Main Bed	3-3.5	0.9-1.1	-	1	6-to 12-1919	Brockton Mn. Hlth. & Water Dept. 1	2.92	3.74	66.76	26.56	1.02	-	-	-	-	-	11,216	10,633	-	-	-	-	98.22	14,956	M [3]	Chute and Currier, 1979
4	MA	"	"	"	"	"	"	"	"	-	1	8-to 12-1919	Brockton Mn. Hlth. & Water Dept. 2	3.98	3.70	55.37	36.75	0.52	-	-	-	-	-	9,169	8,691	-	-	-	-	99.02	14,436	M	Chute and Currier, 1979
5	MA	"	"	"	"	"	"	"	"	-	1	8-to 12-1919	Brockton Mn. Hlth. & Water Dept. 2	4.40	2.75	66.93	23.92	0.45	-	-	-	-	-	10,861	10,299	-	-	-	-	96.18	13,897	M [3]	Chute and Currier, 1979
6	MA	"	"	"	"	"	"	"	"	-	1	8-to 12-1919	Brockton Mn. Hlth. & Water Dept. 4	2.48	2.93	71.24	23.35	0.44	-	-	-	-	-	11,542	10,940	-	-	-	-	98.77	14,647	M	Chute and Currier, 1979
7	MA	"	"	"	"	"	Main Bed	-	-	15 lb.	1 2	12-18-1920	Trent Process Corp. Coke Wash. DC	3.58	3.04 3.09	79.44 82.60	13.94 14.31	0.44 0.49	-	-	-	-	-	-	-	-	-	-	-	97.84	12,890	A [4]	Scheffy, Unpub. papers, 1980
8	MA	"	"	Exploratory Hole, depth 90 feet	71°14'27"	42°00'26"	Hardon Main Bed	2	0.6	Core Sample	1			1.08 [5]	3.76 [5]	74.24	20.97	0.56	-	-	-	-	-	-	-	-	-	-	-	97.54	-	A	Emmons, 1855, p. 515 Shaler and others, 1899, p. 191.
9	MA	BRISTOL	MANSFIELD	Exploratory Hole, 850 feet	42°00'34"	71°14'41"	HARDON Main Bed	6	1.83	Core Sample	1	-	-	3.08	6.22	79.68	11.02	-	-	-	-	-	-	-	-	-	-	-	-	93.94	-	A	Emmons, 1855, p. 515 Shaler and others, 1899 p. 191.
10	MA	"	"	T Sawyer Mine [6]	42°00'31" [6]	71°15'03" [6]	-	-	-	Dump Sample	1 2 3	12-10-1974	BM [7]	2.9 - -	4.8 5.0 5.7	79.4 81.6 94.3	13.0 8.4 -	0.3 0.3 0.4	1.4 1.1 1.3	80.7 83.0 95.8	0.4 0.4 0.4	4.8 1.8 2.1	13.0 13.4 -	8,702 13,961 15,087	12,040 12,380 14,300	2140	2240	2600	-	95.61	-	A	F.E.A., 1975; Barton & others, 1977, p. 5
11	MA	"	"	"	"	"	-	-	-	Dump Sample	1 2 3	12-10-1974	BM	3.1 - 3.4	4.5 4.7 4.9	78.9 81.4 94.6	13.5 13.9 -	0.4 0.5 0.5	1.4 1.1 1.3	79.5 82.1 95.3	0.4 0.4 0.5	4.8 2.0 2.4	13.5 13.9 -	12,597 12,998 14,759	11,940 12,320 14,210	2150	2240	2450	-	96.03	13,991	A	"
12	MA	"	"	"	"	"	-	-	-	Dump Sample	1 2 3	12-10-1974	BM	2.7 - -	3.5 3.6 4.5	75.5 77.6 99.5	18.3 18.8 -	0.3 0.3 0.3	1.3 1.0 1.2	76.2 78.2 96.3	0.4 0.4 0.4	1.5 1.3 1.8	18.3 18.8 -	11,668 11,985 14,759	11,060 11,360 13,990	2240	2340	2600	-	97.52	13,794	A	"
13	MA	"	"	Narr. Basin Project Drill Hole No. 6, 173-182 ft.	42°01'07"	71°15'53"	Seam A 0-72"		2.74	Core Sample	1 2 3	11-24-1976	BM K-68610	1.0 - -	4.5 9.5 7.9	52.1 52.7 92.1	42.4 36.8 -	0.5 0.9 0.8	1.0 0.9 1.6	53.2 53.7 93.9	0.4 0.4 0.7	2.5 1.7 3.0	42.4 42.8 -	8,398 8,482 14,833	7,960 8,040 14,060	2280	2400	2910	-	98.28	14,713	M	Barton and others, 1977, p. 5
14	MA	"	"	"	"	"	Seam A 72-144"	9	2.74	"	1 2 3	11-24-1976	BM K-68611	0.7 - -	5.8 5.8 29.1	28.8 64.7 65.1	64.7 - -	0.8 0.9 0.9	0.9 0.8 -	30.9 31.1 -	0.3 0.3 -	3.4 1.0 -	64.7 65.1 -	4,684 4,716 -	4,440 4,470 -	2190	2250	2440	-	98.95	14,823	M	"
15	MA	"	"	"	"	"	Seam A 144-216"	9	2.74	"	1 2 3	11-24-1976	BM K-68612	0.9 - -	4.1 4.2 6.7	57.3 57.8 93.3	37.7 38.0 -	0.3 0.3 0.5	1.1 1.0 1.6	58.3 58.8 94.8	0.4 0.4 0.7	2.3 1.5 2.4	37.7 38.0 -	9,136 9,221 14,865	8,660 8,740 14,090	2200	2400	2710	-	98.34	14,623	M	"
16	MA	"	"	"	"	"	Seam A 216-288"	9	2.74	"	1 2 3	11-24-1976	BM K-68613	1.6 - -	5.7 5.7 10.9	45.3 46.1 89.1	47.5 45.6 -	0.5 0.6 0.9	0.6 0.9 1.7	46.5 47.3 91.3	0.4 0.4 0.8	4.1 2.7 5.3	47.5 45.6 -	7,890 7,806 14,306	6,910 7,020 13,560	2240	2300	2850	-	96.58	14,215	A	"
17	MA	BRISTOL	MANSFIELD	Narr. Basin Project Drill Hole No. 11	71°12'33"	42°01'08"	Seam AT	1.3	0.4	Core Sample	1 2 3	1-7-1977	BM K69598	4.49 - -	5.38 5.64 6.80	73.04 87.4 93.20	16.29 - -	1.34 1.28 1.97	1.34 0.88 1.06	72.32 86.98 95.12	0.26 0.26 0.31	5.23 1.63 1.97	16.29 17.06 -	11,830 12,389 14,928	11,213 11,743 14,150	2030	2080	2200	-	94.32	13,644	A	Barton and others, 1977 p. 5
18	MA	"	"	Unknown	-	-	-	-	-	-	1	-	-	-	6.00 [8]	92.00	2.00	-	-	-	-	-	-	-	-	-	-	-	1.78	-	-	-	Taylor, 1848, p. 694
19	MA	"	"	Hardon Mine, depth 25 feet	71°14'52"	42°00'27"	Front Bed	5	1.52	Best coal	1 2	10-1835	-	-	6	92 98	2 2	-	-	-	-	-	-	-	-	-	-	-	-	1.71	-	-	-	Jackson, 1840, p. 101, p. 107; Hitchcock 1841, p. 130.
20	MA	"	"	"	"	"	Front Bed	5	1.52	"	1 2	10-1835	-	-	6	90 96	4 4	-	-	-	-	-	-	-	-	-	-	-	1.73	-	-	-	Jackson, 1840, p. 107 Hitchcock, 1841, p. 130
21	MA	"	"	Skinner Mine 84 Ft. deep	71°15'33"	42°00'45"	Wading Vein	10	3.04	"very superior quality"	- 2 -	10-1838	-	- - -	- - -	- 96 -	- 4 -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	-	-	1.79	-	-	-	Hitchcock, 1841, p. 132
22	MA	"	"	Skinner Mine Shaft	"	"	-	-	-	"	1	7-1909	-	4.29	4.76	85.94	5.01	0.48	-	-	-	-	-	14,575	13,815	-	-	-	-	-	95.37	-	A	Mass. Coal and Power Co., 1910, p. 4 [9]
23	MA	NORFOLK	FOXBOROUGH	Crehore Mine	71°14'45"	42°02'15"	-	-	-	-	1	-	-	3	-	77	18	-	-	-	-	-	-	-	-	-	-	-	-	1.86	-	-	-	Hitchcock, 1841, p. 134
24	MA	BRISTOL	NORTH ATTLEBOROUGH	Cumberland-Mansfield Mine 40 ft deep	71°19'38"	41°59'50"	Main Bed	5.5	1.68	-	1	Approx. 1909	-	3.26	2.19	84.10	10.43	0.57	-	-	-	-	-	12,269	11,629	-	-	-	-	98.68	13,119	M	Cumberland-Mansfield [10] Coal & Power Co., 1910, p. 8
25	MA	BRISTOL	NORTH ATTLEBOROUGH	Cumberland-Mansfield Mine, 55 ft Deep	71°19'38"	41°59'50"	Main Bed	7.5	2.29	-	1	Approx. 1909	-	3.13	3.17	88.65	5.05	0.54	-	-	-	-	-	14,369	13,620	-	-	-	-	97.20	14,422	A	Cumberland-Mansfield Coal & Power Co., 1910 p. 8
26	MA	NORFOLK	PLAINVILLE [11]	Tiancock Mine	71°19'25"	42°00'58"	-	-	-	Poor Coal	1	-	-	6.6	-	50.4	43.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hitchcock, 1841, p. 135
27	RI	PROVIDENCE	CRANSTON	Cranston Mine	-	-	-	-	-	graphitic coal as delivered	1 -	1874	-	-	-	-	26 -	-	-	-	-	-	-	-	-	-	-	-	-	2.30	-	-	-	Ashley, 1915, p. 42
28	MA	WORCESTER	WORCESTER	Binney Mine	72°45'57"	42°17'17"	Main Bed	6-7	1.83-2.13	"ordinary"	1	-	-	3	-	77	20	-	-	-	-	-	-	-	-	-	-	-	-	2.12	-	-	-	Hitchcock, 1841, p. 128
29	MA	"	"	"	"	"	"	"	-	"Almost plumbago"	1	-	-	2.4	-	71.0	26.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hitchcock, 1841, p. 128
30	MA	"	"	"	"	"	"	"	-	"plumbaginous"	1	-	-	-	3.98	28.35	68.57	-	0.926	-	2.133	-	-	-	-	-	-	-	-	-	-	-	-	Taylor, 1848, p. 153, 694
31	RI	PROVIDENCE	CRANSTON	Cranston Mine Shaft	71°27'29"	41°45'32"	"	6-40 Average 20 ft.	1.83-12.20, 6.10 av.	-	1	1883-84	-	0.24	4.49	82.20	13.07	0.34	-	-	-	-	-	-	-	-	-	-	2.209	-	-	-	Clarke and Chatard, 1884, p. 18; Emaler and others, p. 161.
32	RI	"	"	Cranston Mine Pit in outcrop	"	"	"	"	"	graphitic coal, run-of-mine car sample	1 2 3	1904-07	BM-3216	2.41 - -	4.92 5.04 5.78	73.61 75.43 93.74	19.00 19.52 -	0.07 0.07 0.09	0.90 0.65 0.80	75.10 76.95 95.62	0.17 0.17 0.22	4.70 2.63 3.27	- - -	11,601 11,888 14,772	10,996 11,268 14,002	- - -	- - -	- - -	- - -	- - -	- - -	- - -	Lord & Others, 1913, p. 185; Ashley, 1915, p. 27, 41-44, 47. Kreisinger & May, 1912, p. 275, Fermald & Smith 1911, p. 233. Air drying loss 2.05
33	RI	PROVIDENCE	CRANSTON	Cranston Mine, pit in outcrop	71° 27' 29"	41°45'32"	Main Bed	6-40 Average 20 ft.	1.83-12.29 6.10 (av.)	Mine Sample	1 2 3	1913†	BM-7769	9.71 - -	2.60 2.88 4.03	61.98 68.65 90.97	25.71 28.47 -	0.07 0.08 0.11	- - -	- - -	- - -	- - -	- - -	9,307 10,307 14,409	8,822 9,770 13,658	- - -	- - -	- - -	- - -	97.18	12,815	M	Lord and others, 1913, p. 185; Ashley, 1915, p.27. Air drying loss 9.1%
34	RI	"	"	"	"	"	"	"	"	run-of-mine sample	1 2 3	1908-12	BM-7770	4.51 - -	3.46 3.62 5.48	59.67 62.49 94.52	32.36 33.89 -	0.12 0.13 0.20	- - -	- - -	- - -	- - -	- - -	8,874 9,294 14,098	8,411 8,809 13,385	- - -	- - -	- - -	- - -	98.64	12,938	M	Lord and others, 1913, p. 185; Wright 1913; Ashley, 1915, p. 27.Air drying loss 4.6%
35	RI	"	"	"	"	"	"	"	"	Mine Sample	1 2 3	1904-10	BM-7771	4.54 - -	3.01 3.15 3.68	78.69 82.44 96.32	13.76 14.41 -	0.83 0.87 1.02	0.94 0.46 0.54	78.65 82.39 96.26	0.11 0.12 0.14	5.71 1.73 2.04	- - -	11,707 12,263 14,339	11,097 [12] 11,624 13,583	- - -	- - -	- - -	- - -	98.03	13,055	M	Lord and others, 1913, p. 185; Ashley, 1915, p. 27. Air drying loss 4.1%
36	RI	"	CRANSTON	"	"	"	"	"	"	Mine Sample	1 2 3	1913	BM-7772	7.30 - -	1.69 1.82 3.44	73.09 78.85 96.56	17.92 19.33 -	0.11 0.12 0.89	- - 0.37	- - 93.85	- - 0.41	- - 4.48	- - -	10,934 11,795 14,592	10,364 11,180 13,831	- - -	- - -	- - -	- - -	99.71	12,854	M	Lord and others, 1913, p. 185; Ashley, 1915, p. 27. Air drying loss 6.8%
37	RI	"	CRANSTON	Cranston Mine, surface workings	"	"	"	"	"	graphitic coal, run-of-mine	1 2	6-1906	-	2.33 - -	2.47 - -	78.72 - -	16.48 - -	0.08 [13] 0.08	0.67	79.49	0.18	2.71	16.87	12,279 - -	11,639 - -	- - -	- - -	- - -	- - -	98.60	- -	M	Holmes, 1906, p. 223-24 Breckenridge and others 1912; Ashley, 1915, p. 43-44
38	RI	"	CRANSTON	Cranston Mine	"	"	"	"	"	Car Sample	1 2 3	6-1909	-	3.70 - -	2.11 2.19 2.87	71.45 74.19 97.12	22.74 23.61 -	0.06 0.06 0.08	- - -	- - -	- - -	- - -	- - -	10,678 11,088 14,516	10,121 10,510 13,759	- - -	- - -	- - -	- - -	99.63	13,418	M	Brown, 1910, p. 100, 109 Ashley, 1915, p. 27, 28, 53; Kreisinger and May, 1912, p. 352
39	RI	"	CRANSTON	Cranston Mine	"	"	"	"	"	Car Sample	1 2 3	7-1909	-	4.80 - -	2.50 2.52 3.49	69.90 73.42 96.34	22.80 23.95 -	0.10 0.10 0.13	- - -	- - -	- - -	- - -	- - -	10,645 11,172 14,696	10,090 10,590 13,930	- - -	- - -	- - -	- - -	99.10	13,389	M	Ashley, 1915, p. 27, 28, 53; Kreisinger and May, 1912, p. 352.
40	RI	PROVIDENCE	CRANSTON	Cranston Mine, slope	71°27'29"	41°45'32"	Main Bed	60-40 average 20 Ft.	1.83-12.2, 6.10 (av.)	-	-	Approx. 1913	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	2.20	-	-	-	Ashley, 1915, p. 21 Air drying loss 15 at 60°C.
41	RI	PROVIDENCE	CRANSTON	Cranston Mine, Open Cut	71°27'29"	41°45'32"	Main Bed	60-40 average 20 Ft.	1.83-12.2, 6.10 (av.)	Selected coal	-	Approx. 1913	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	2.06	-	-	-	Ashley, 1915, p. 21 Air drying loss 0.5% at 60°C.
42	RI	"	CRANSTON	Cranston Mine, Preparation plant	"	"	"	"	"	run-of-mine	1 2	1923	BM-	4.00 - -	3.50 - -	- 67.60	- 28.90	- 0.03	- - -	- - -	- - -	- - -	- - -	9,316 9,906 -	9,020 9,390 -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Spec. Comm., 1925, p. 23
43	RI	"	CRANSTON	"	"	"	"	"	"	Culm (screenings)	1 2	1923	BM-	2.00 - -	3.50 - -	- 69.50	- 27.00	- 0.08	- - -	- - -	- - -	- - -	- - -	10,223 10,434 -	9,690 9,890 -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Spec. Comm., 1925, p. 23
44	RI	"	CRANSTON	"	"	"	"	"	"	Buckwheat	1 2	1923	BM	2.10 - -	4.00 - -	- 68.00	- 26.00	- 0.04	- - -	- - -	- - -	- - -	- - -	10,023 10,234 -	9,500 9,700 -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Spec. Comm., 1925, p. 23
45	RI	"	CRANSTON	"	"	"	"	"	"	Pea	1 2	1923	BM	2.10 - -	3.30 - -	- 67.00	- 29.70	- 0.06	- - -	- - -	- - -	- - -	- - -	9,748 9,949 -	9,240 9,430 -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Spec. Comm., 1925, p. 23
46	RI	"	CRANSTON	"	"	"	"	"	"	Range	1 2	1923	BM	1.60 - -	3.20 - -	- 70.00	- 26.80	- 0.05	- - -	- - -	- - -	- - -	- - -	10,181 10,339 -	9,690 9,800 -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Spec. Comm., 1925, p. 23
47	RI	"	CRANSTON	"	"	"	"	"	"	Furnace	1 2	1923	BM	1.50 - -	3.40 - -	- 67.70	- 26.90	- 0.03	- - -	- - -	- - -	- - -	- - -	10,044 10,202 -	9,520 9,670 -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Spec. Comm., 1925, p. 23
48	RI	PROVIDENCE	CRANSTON	Cranston Mine	71°27'29"	41°45'32"	Main Bed	6-40 ft. average 20 ft.	1.83 - 12.2, 6.10 av.	Average	1	-	-	6.5 - -	2.6 - -	68.3 - -	22.4 - -	0.38 [15] - -	- - -	- - -	- - -	- - -	- - -	10,205 10,235 -	9,673 [16] 9,720 -	- - -	- - -	- - -	- - -	98.76	12,803	M	Spec. Comm., 1925, p. 27
49	RI	PROVIDENCE	CRANSTON	Cranston Mine	71°27'29"	41°45'32"	Main Bed	6-40 ft. average 20 ft.	1.83 - 12.2, 6.10 av.	-	1	1942†	-	1.0 - -	4.0 - -	66.7 - -	28.3 - -	0.8 - -	- - -	- - -	- - -	- - -	- - -	10,149 - -	9,620 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Fieldner and others, 1943, p. 36
50	RI	"	"	"	"	"	"	"	"	Run-of-mine	1 2	1945†	C-37658	0.2 - -	3.0 3.0 [16] 6.4	64.1 64.2	32.7 32.8	0.3 0.3	0.4 0.3	64.2 64.3	0.1 0.1	2.3 2.2	- - -	9,200 9,221 -	8,720 8,740 -	2,300 - -	2,480 - -	2,580 - -	- - -	99.59 - -	13,492 - -	M	Toenges and others, 1948, p. 37
51	RI	"	"	"	"	"	"	"	"	-	1	1952	PS-74 (U.R.I.)	0.1 - -	3.8 - -	62.1 - -	34.0 - -	0.5 - -	0.4 - -	62.8 - -	0.1 - -	2.2 - -	34.0 - -	9,284 - -	8,800 - -	2,280 - -	2,470 - -	2,620 - -	- - -	98.60 - -	13,927 - -	M	Crawford and others, 1953 p. 23
52	RI	"	"	"	"	"	"	"	"	-	1	1952	PS-75 (U.R.I.)	0.2 - -	3.1 - -	56.4 - -	40.1 - -	0.5 - -	0.3 - -	56.5 - -	0.1 - -	2.5 - -	40.1 - -	8,345 - -	7,910 - -	2,310 - -	2,490 - -	2,680 - -	- - -	100.19 - -	13,976 - -	M	Crawford and others, 1953, p. 23
53	RI	"	"	Fenners Ledge or Gross Mine	71°27'03"	41°47'59"	Middle Bed	10 ft.	3.05	Graphite	1	-	-	6.00 - -	- - -	47.68 - -	46.32 - -	- - -	- - -	- - -	- - -	- - -	46.32 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Brown, 1910, p. 115
54	RI	"	"	"	"	"	"	"	"	Graphite	1	-	-	0.65 - -	- - -	55.04 - -	41.65 - -	2.66 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Brown, 1910, p. 115
55	RI	"	"	"	"	"	"	"	"	Graphite	1	-	-	0.57 - -	- - -	57.17 - -	39.63 - -	2.61 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Brown, 1910, p. 115.
56	RI	"	"	"	"	"	"	"	"	Graphite	1	-	-	0.40 - -	- - -	64.21 - -	34.08 - -	1.31 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Brown, 1910, p. 115
57	RI	PROVIDENCE	CRANSTON	Fenners Ledge Mine	71°27'03"	41°47'59"	Middle Bed	10 ft.	"	Graphite	2	-	-	- - -	7.86 - -	25.27 - -	66.87 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Brown, 1910, p. 115
58	RI	"	"	"	"	"	"	"	"	Graphite	2	-	-	- - -	5.92 - -	40.76 - -	53.32 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Brown, 1910, p. 115
59	RI	"	"	"	"	"	"	"	"	Graphite	+ 2	Approx. 1913	-	-	- - -	65(±1?) - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	2.45 - -	- - -	- - -	-	Ashley, 1915, p. 21 Air drying loss 15 at 60°C
60	RI	"	CUMBERLAND	Roger Williams Mine	71°23'35"	41°54'45"	-	-	-	"Best Specimen"	1	-	-	7.6 - -	- - -	77.0 - -	15.4 [17] - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Jackson, 1840, p. 239
61	RI	"	"	"	"	"	-	-	-	"Fair Average"	1	-	-	7.80 - -	- - -	39.70 - -	52.43 [18] - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Jackson, 1840, p. 239
62	RI	"	"	probably Roger Williams Mine	"	"	-	-	-	-	1	Approx. 1909	-	2.90 - -	2.75 - -	89.20 - -	5.15 - -	0.4 - -	- - -	- - -	- - -	- - -	- - -	14,483 - -	13,726 - -	- - -	- - -	- - -	- - -	97.61 - -	14,549 - -	A	Cumberland-Mansfield Coal & Power Co., 1910, p. 8
63	RI	NEWPORT	PORTSMOUTH	Chase Mine	71°14'50"	41°37'02"	-	3?-13	0.91? 3.96	-	2	-	-	- - -	- - -	97.0 - -	3.0 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Jackson, 1840, p. 240; Hitchcock, 1853, p. 333
64	RI	"	"	Old Mines" (Portsmouth mine)	-	-	-	-	-	"best specimen"	1	-	-	7.0 - -	- - -	87.5 - -	5.5 - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	-	Jackson, 1840, p. 239.

SHEET 1 OF 3