Department of Conservation and Economic Development
Division of Mineral Resources
James L. Calver, State Geologist
Charlottesville, Virginia

Summary Data for Coal Resources in Virginia

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Compiled by James A. Henderson, Jr.

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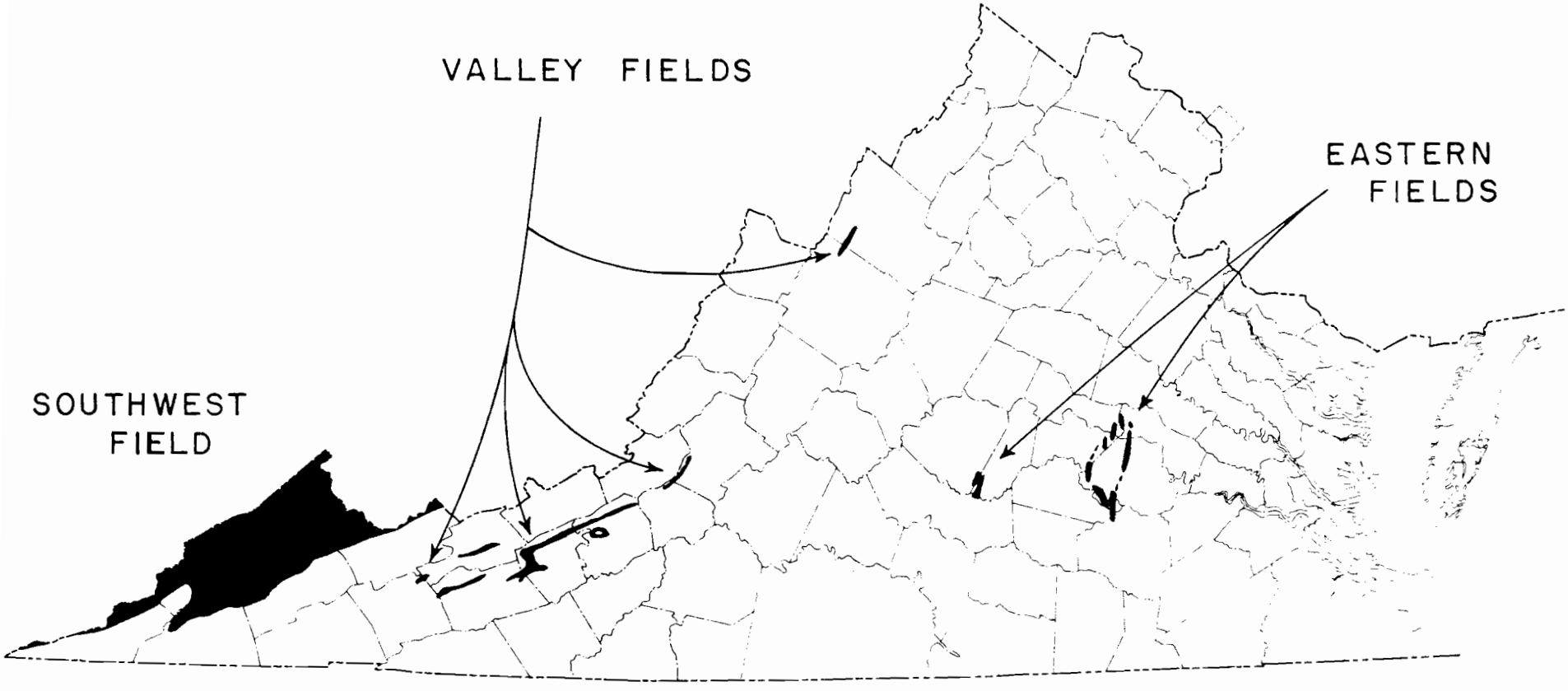
INTRODUCTION

COAL RESOURCES OF VIRGINIA



Southwest Coal Field

The Southwest Virginia coal field contains over 96 percent of the total coal reserve base of the State. In this field approximately 1552 square miles (993,280 acres) are underlain by coal-bearing strata of Pennsylvanian age distributed approximately as follows:

County	Coal-bearing Area	
Buchanan	507 square miles	324,480 acres
Dickenson	332 square miles	212,480 acres
Lee	78 square miles	49,920 acres
Russell	84 square miles	53,760 acres
Tazewell	100 square miles	64,000 acres
Wise and Scott	451 square miles	288,640 acres

The coal in the Southwest Virginia field ranges chiefly from medium-volatile bituminous to high-volatile bituminous in rank. More than 50 named coal beds are present in this field. The first commercial mining began in 1883 and the field has been by far the most productive coal-producing area of the State. In 1973 a total of 33,869,387 tons were mined by tipple, strip, truck, and auger methods by a total of 729 mines. The deepest production is in Buchanan County at depths of over 1300 feet.

The U. S. Bureau of Mines estimates the Demonstrated Coal Base for underground mining of bituminous coal in this field as 2,833,000,000 short tons as of January 1, 1974, based on coal 28 inches or thicker to a depth of 1000 feet and representing 100 percent of the coal in place in the measured and indicated categories. The Virginia Department of Labor and Industry estimates the remaining reserves of bituminous coal in this field as 10,115,110,000 short tons as of January 1, 1974, based on coal 14 inches or thicker in the measured, indicated, and inferred categories. Strippable reserves of coal in the Southwest field have been estimated at 257,500,000 short tons, as of January 1, 1968, by the U. S. Bureau of Mines, based on a minimum coalbed thickness of 28 inches, a maximum overburden thickness of 120 feet, and an economic stripping ratio of 15:1 (feet to feet), and assumed to be all "available" coal that can be removed from the ground.

Valley Coal Fields

The Valley coal fields are located in parts of Augusta, Bland, Botetourt, Montgomery, Pulaski, Roanoke, Rockingham, Smyth and Wythe counties. The coal is chiefly semianthracite and has been produced in some of the fields from the Price Formation of Mississippian age. Most recent reported production was 1550 tons in 1970 and 36 tons in 1971 from Montgomery County.

1. North River field - in northern Augusta and Rockingham counties. No estimate of reserves is available.

2. North Mountain field - in northern Roanoke and southwestern Botetourt counties, a northeast extension of the Brushy Mountain field. No estimate of reserves is available.

3. Brushy Mountain field - about 2 miles south of and parallel to the northwestern boundary of and extending entirely across Montgomery County. Reserves reported in the following table.

4. Price Mountain field - an elliptical area, approximately 4 miles long and 1 mile wide, about 3 miles south of Blacksburg, Va., in Montgomery County. Reserves reported in the following table.

5. Little Walker Mountain field - a southwestward continuation of the Brushy Mountain field across the New River into the northern part of Pulaski County. Reserves reported in the following table.

6. Pulaski field - a small area near Pulaski, Virginia, in Pulaski County. Reserves reported in the following table.

7. Max Meadows field - an area about 6 miles long and less than 1 mile wide, north of the village of Max Meadows, Wythe County. Reserves reported in the following table.

8. Reed Creek field - in northern Wythe County. Reserves reported in the following table.

9. Bland field - about 20 miles long and 1-2 miles wide, extending across south-central Bland County. Impure, medium- to low-volatile bituminous coal that on an as-received basis, the average of 2 analyses shows 48.1% ash, 1.3% sulfur and 6,970 BTU. No estimate on reserves in this field.

10. Lick Creek field - an area about 10 miles long and 1 1/2 miles wide in western Bland County and northeastern Smyth County. No estimate of reserves in this field.

Reserves

County	Beds 28" to >42" 1/	Beds 14" to >42" 2/	Field 3/
Montgomery	72.76	89	Brushy Mountain
		43	Pilot Mountain
Pulaski	64.73	98	Little Walker Mountain
		44	Pulaski
Wythe	0	62	Max Meadows
		19	Reed Creek
TOTAL	137.49	355*	

*Includes 12 million tons production and mining losses from 1880's—1950.

1/ Measured and indicated reserves, in millions of tons, as of 1/1/74 and as reported in the U. S. Bureau of Mines Information Circular 8655.

2/ Indicated and inferred original reserves, in millions of tons, as reported in U. S. Geological Survey Circular 171.

3/ Note: Coal fields lie chiefly in the county indicated.

Definitions (From U.S.G.S. Circular 171)

Measured reserves - tonnage computed from dimensions revealed in outcrops, trenches, mine workings, and drill holes.

Indicated reserves - tonnage computed partly from specific measurements and partly from projection of visible data for a reasonable distance on geologic evidence.

Inferred reserves - reserves are those for which quantitative estimates are based on a broad knowledge of the character of the bed or region and for which there are few, if any, measurements.

The U. S. Bureau of Mines (IC 8655) has prepared a demonstrated coal reserve base of anthracite coal as of 1/1/74 at 137.5 million short tons including measured and indicated categories and based upon 28 inch and thicker coal to a maximum depth of 1000 feet and representing 100% of the coal in place.

Eastern Coal Fields

Richmond Basin - located about 8 miles west of Richmond, Virginia, the basin is about 33 miles long, north to south, with a maximum width of 9 miles, and covers about 150 square miles in parts of Amelia, Chesterfield, Goochland, Henrico and Powhatan counties. In the past, medium- to low-volatile bituminous coal has been produced from five areas: Manakin and Hugenot Springs in the northwestern section of the basin and Gayton and Coalbrook, Midlothian and Winterpock on the eastern edge of the basin. Some natural coke and semianthracite are present locally.

Production:

1748 - 1904	—	8.23 million tons
1910 - 1913	}	small production
1921 - 1923		
1940 - 1941		

No estimate of coal reserves reported.

A computed average analysis of 47 bituminous coal analyses from the Richmond Basin, as reported in Virginia Geological Survey Bulletin 29, indicates 1.62% moisture, 28.98% volatile matter, 60.39% fixed carbon, 9.14% ash and 1.49% sulphur.

Farmville Basin - located about 30 miles west of the Richmond Basin, it is about 20 miles long, northeast to southwest with a miximum width of 5 miles and covers about 40 square miles in parts of Buckingham, Cumberland and Prince Edward counties. Some exploration for coal has been confined to a small area about 5 miles long at the eastern edge of the basin. No estimate of any coal reserves is reported.

Sources:

"Coal Resources of Virginia," U. S. Geological Survey Circular 171, 1952.

Annual Report of the Department of Labor and Industry for 1973.

"The Reserve Base of Bituminous Coal and Anthracite for Underground Mining in the Eastern United States," U. S. Bureau of Mines, Information Circular 8655, 1974.

"The Geology of the Virginia Triassic," Virginia Geological Survey Bulletin 29, 1928.

"Strippable Reserves of Bituminous Coal and Lignite in the United States," U. S. Bureau of Mines, Information Circular 8531, 1971.

PRODUCTION

Production in Southwest Coal Field by Bed During 1975[1]

Name of Bed[2]	Production: Millions of Short Tons	Percentage of Total Production
High Splint	0.28	0.79
Morris	0.22	0.62
Pardee	0.61	1.72
Wax	0.00	0.00
Gin Creek	0.01	0.03
Phillips	0.28	0.79
Low Splint	0.23	0.65
Taggart	1.82	5.12
Taggart Marker	0.43	1.21
Kirk	0.03	0.08
Harlan	0.26	0.73
Upper St. Charles	0.00	0.00
Lower St. Charles	0.09	0.25
Upper Standiford	0.06	0.17
Cedar Grove	0.28	0.79
Lower Cedar Grove	0.00	0.00
Pinhook	0.00	0.00
Kelly	1.03	2.90
Stone Creek	0.00	0.00
Imboden	1.75	4.92
Campbell Creek	0.07	0.20
Rocky Fork	0.00	0.00
Acklington	0.06	0.17
Clintwood	1.62	4.56
Eagle	1.40	3.94
Blair	1.81	5.09
Lyons	0.44	1.24
Dorchester	2.18	6.14
Norton	0.44	1.24
Hagy	1.66	4.67
Splashdam	2.13	6.00
Upper Banner	2.03	5.71
Lower Banner	1.56	4.39
Big Fork	0.10	0.28
Caldwell	0.00	0.00
Kennedy	2.27	6.39
Aily	0.00	0.00
Raven	1.79	5.04
Jawbone	1.89	5.32
Tiller	2.24	6.30
Upper Seaboard	0.00	0.00
Greasy Creek	0.00	0.00
Middle Seaboard	0.01	0.03
Lower Seaboard	1.01	2.84
Upper Horsepen	0.68	1.91
Middle Horsepen	0.18	0.51
"C"	0.00	0.00
War Creek	0.00	0.00

Name of Bed	Production: Millions of Short Tons	Percentage of Total Production
Lower Horsepen	0.10	0.28
Pocahontas #8	0.00	0.00
Pocahontas #7	0.00	0.00
Pocahontas #6	0.04	0.11
Pocahontas #5	0.06	0.17
Pocahontas #4	0.00	0.00
Pocahontas #3	2.35	6.61
Cove Creek	0.01	0.28
Eagan	0.01	0.03
Carter	0.00	0.00
Tacus	0.00	0.00
Starnes	0.00	0.00
Burton's Ford	0.01	0.03
	35.53	

1. Calculated by subtracting coal reserves as of 1/1/76 from re- as of 1/1/75 as reported in the 1974 and 1975 Annual Reports of the Virginia Department of Labor and Industry.

2. No attempt was made to correlate coal beds and names. Coals with the same name may not correlate from one area to another. e.g. The Raven coal of Wise County, according to USGS Circular 171, correlates to the Aily coal of Dickenson County.

Coals Mined in Buchanan County

Name of Bed	Production 1973 1*	Production 1974 2*	Production 1975 3*	Remaining Reserves 1/1/76 4*	Reserves as of 1/1/51 4*
Cedar Grove	0.00	0.02	0.28	2.02	3.80
Lower Cedar Grove	?	0.02	0.00	0.82	2.27
Campbell Creek	0.00	0.07	0.06	48.86	49.75
Clintwood	0.91	0.73	0.54	63.41	92.78
Eagle	1.17	1.33	1.33	199.87	215.70
Blair	0.74	0.84	1.16	39.80	61.68
Dorchester	0.33	0.95	0.92	100.30	105.33
Hagy	1.45	1.65	1.57	272.03	303.77
Splashdam	1.34	1.88	1.57	658.05	708.50
Upper Banner	0.03	0.04	0.00	1.03	5.83
Lower Banner	0.31	0.19	0.24	280.73	286.43
Big Fork	0.00	0.07	0.00	9.46	9.53
Kennedy	1.40	1.36	1.78	740.49	771.95
Aily	0.00	0.00	0.00	42.29	42.29
Raven	1.29	1.15	1.12	516.38	575.69
Jawbone	0.81	0.78	0.94	331.02	336.93
Tiller	0.33	0.32	0.28	70.40	77.44
Lower Seaboard	0.00	0.00	0.00	7.65	7.65
War Creek	0.00	0.00	0.00	2.89	2.96
Pocahontas #3	3.39	2.91	2.27	82.33	113.94
TOTAL	13.50?	14.31	14.06	3469.74	3774.22

*In millions at short tons.

1. Calculated by subtracting coal reserves as of 1/1/74 from reserves as of 1/1/73 as reported in the 1972 and 1973 Annual Reports of the Virginia Department of Labor and Industry (VDL&I).

2. Similar calculations as 1 using the 1973 and 1974 Annual Reports of the VDL&I

3. Similar calculations as 1 using the 1974 and 1975 Annual Reports of the VDL&I

4. Annual Report for the year 1975 from the VDL&I

? The subtraction of reserves as of 1/1/74 from the reserves as of 1/1/73 would result in negative production.

Coals Mined in Dickenson County

Name of Bed	Production 1973 1*	Production 1974 2*	Production 1975 3*	Remaining Reserves 1/1/76 4*	Reserves as of 1/1/51 4*
Kelly	0.00	0.00	0.00	0.00	4.69
Imboden	0.12	0.65	0.03	2.58	4.38
Clintwood	0.37	0.51	0.49	68.12	79.04
Eagle	0.01	0.01	0.07	15.15	18.80
Blair	0.00	0.00	0.04	14.04	14.39
Lyons	0.00	0.00	0.00	8.93	9.04
Dorchester	0.08	0.00	0.03	93.03	94.42
Norton	0.00	0.06	0.12	1.32	1.51
Hagy	0.05	0.06	0.07	50.69	51.54
Splashdam	0.41	0.60	0.55	303.99	322.47
Upper Banner	1.48	1.61	1.69	295.25	325.43
Lower Banner	0.95	0.74	0.95	323.60	339.90
Kennedy	0.00	0.00	0.04	433.96	434.96
Aily	0.01	0.00	0.00	8.25	8.26
Raven	0.11	0.06	0.06	393.14	393.37
Jawbone	0.03	0.00	0.00	474.17	475.47
Tiller	1.17	1.22	1.26	7.47	94.45
TOTAL	4.79	5.52	5.40	2493.69	2672.12

*In millions at short tons.

1. Calculated by subtracting coal reserves as of 1/1/74 from reserves as of 1/1/73 as reported in the 1972 and 1973 Annual Reports of the Virginia Department of Labor and Industry (VDL&I).

2. Similar calculations as 1 using the 1973 and 1974 Annual Reports of the VDL&I

3. Similar calculations as 1 using the 1974 and 1975 Annual Reports of the VDL&I

4. Annual Report for the year 1975 from the VDL&I

Coals Mined in Lee County

Name of Bed	Production 1973 1*	Production 1974 2*	Production 1975 3*	Remaining Reserves 1/1/76 4*	Reserves as of 1/1/51 4*
High Splint	0.01	0.05	0.08	0.02	0.84
Morris	0.02	0.04	0.08	2.60	2.77
Pardee	0.06	0.00	0.00	2.14	2.31
Wax	0.15	0.00	0.00	2.23	2.46
Gin Creek	0.01	0.00	0.01	1.61	1.63
Phillips	0.30	0.28	0.18	9.80	13.17
Low Splint	0.09	0.03	0.03	20.76	21.41
Taggart	?	0.63	0.11	40.26	46.59
Taggart Marker	0.01	0.03	0.04	28.58	32.89
Kirk	0.01	0.01	0.03	1.23	1.76
Harlan	0.31	0.10	0.26	112.93	117.67
Upper St. Charles	0.00	0.00	0.00	6.68	6.68
Lower St. Charles	0.03	0.30	0.09	33.02	33.63
Pinhook	0.00	0.00	0.00	9.13	9.13
Kelley	0.00	0.00	0.00	15.98	15.98
Stone Creek	0.00	0.00	0.00	0.63	0.63
Imboden	0.00	0.00	0.12	54.37	55.48
Clintwood	0.00	0.01	0.01	84.39	84.66
Blair	0.00	0.00	0.02	9.20	9.24
Lyons	0.00	0.00	0.00	5.73	5.77
Dorchester	0.00	0.00	0.00	1.77	2.01
TOTAL	1.00?	1.48	1.06	443.06	466.71

*In millions at short tons.

1. Calculated by subtracting coal reserves as of 1/1/74 from reserves as of 1/1/73 as reported in the 1972 and 1973 Annual Reports of the Virginia Department of Labor and Industry (VDL&I).

2. Similar calculations as 1 using the 1973 and 1974 Annual Reports of the VDL&I

3. Similar calculations as 1 using the 1974 and 1975 Annual Reports of the VDL&I

4. Annual Report for the year 1975 from the VDL&I

? The subtraction of reserves as of 1/1/74 from the reserves as of 1/1/73 would result in negative production.

Coals Mined in Russell County

Name of Bed	Production 1973 1*	Production 1974 2*	Production 1975 3*	Remaining Reserves 1/1/76 4*	Reserves as of 1/1/51 4*
Dorchester	0.00	0.00	0.00	0.08	0.08
Splashdam	0.12	0.09	0.01	8.24	8.58
Upper Banner	0.21	0.06	0.13	12.19	16.00
Lower Banner	0.09	0.11	0.15	42.42	45.87
Big Fork	0.08	0.01	0.10	4.33	4.80
Kennedy	0.29	0.30	0.34	126.11	128.09
Raven	0.02	0.00	0.00	97.20	98.84
Jawbone	0.73	0.61	0.56	243.31	249.47
Tiller	0.00	1.50	0.70	129.73	154.56
Burton's Ford	0.00	0.00	0.01	12.97	13.01
TOTAL	1.54	2.68	2.00	676.58	719.30

*In millions at short tons.

1. Calculated by subtracting coal reserves as of 1/1/74 from reserves as of 1/1/73 as reported in the 1972 and 1973 Annual Reports of the Virginia Department of Labor and Industry (VDL&I).

2. Similar calculations as 1 using the 1973 and 1974 Annual Reports of the VDL&I

3. Similar calculations as 1 using the 1974 and 1975 Annual Reports of the VDL&I

4. Annaul Report for the year 1975 from the VDL&I

Coals Mined in Scott County

Name of Bed	Production 1973 1*	Production 1974 2*	Production 1975 3*	Remaining Reserves 1/1/76 4*	Reserves as of 1/1/51 4*
Jawbone	0.00	0.00	0.00	0.48	0.48
Cove Creek	0.01	0.00	0.01	2.31	2.46
Eagan	0.00	0.00	0.01	7.25	7.32
Carter	0.00	0.00	0.00	0.22	0.22
Tacus	0.00	0.00	0.00	7.09	7.09
Starnes	0.00	0.00	0.00	4.71	4.71
Burton's Ford	0.00	0.00	0.00	82.27	82.29
TOTAL	0.01	0.00	0.02	104.33	104.57

*In millions at short tons.

1. Calculated by subtracting coal reserves as of 1/1/74 from reserves as of 1/1/73 as reported in the 1972 and 1973 Annual Reports of the Virginia Department of Labor and Industry (VDL&I).

2. Similar calculations as 1 using the 1973 and 1974 Annual Reports of the VDL&I

3. Similar calculations as 1 using the 1974 and 1975 Annual Reports of the VDL&I

4. Annual Report for the year 1975 from the VDL&I

Coals Mined in Tazewell County

Name of Bed	Production 1973 1*	Production 1974 2*	Production 1975 3*	Remaining Reserves 1/1/76 4*	Reserves as of 1/1/51 4*
Lower Banner	0.00	0.00	0.00	0.32	0.34
Big Fork	0.00	0.00	0.00	0.99	0.99
Caldwell	0.00	0.00	0.00	4.87	4.87
Kennedy	0.03	0.02	0.01	8.89	9.24
Aily	0.00	0.00	0.00	1.90	1.90
Raven	0.45	0.46	0.39	30.63	33.40
Jawbone	0.00	0.07	0.05	72.51	73.74
Tiller	0.00	0.00	0.00	43.89	44.73
Upper Seaboard	0.01	0.00	0.00	34.62	35.52
Greasy Creek	0.00	0.00	0.00	12.86	12.86
Middle Seaboard	0.00	0.00	0.01	22.06	22.07
Lower Seaboard	0.54	0.71	1.01	71.02	74.38
Upper Horsepen	0.34	0.48	0.68	53.98	57.06
Middle Horsepen	0.05	0.07	0.18	32.23	32.86
"C"	0.10	0.00	0.00	18.00	18.11
War Creek	0.00	0.00	0.00	80.33	80.37
Lower Horsepen	0.05	0.00	0.10	21.12	21.40
Pocahontas #8	0.00	0.00	0.00	0.34	0.35
Pocahontas #7	0.00	0.00	0.00	7.02	7.11
Pocahontas #6	0.00	0.00	0.04	11.58	11.65
Pocahontas #5	0.03	0.01	0.06	42.05	42.20
Pocahontas #4	0.00	0.00	0.00	38.29	38.85
Pocahontas #3	0.03	0.05	0.08	83.89	84.36
TOTAL	1.63	1.87	2.61	693.39	708.36

*In millions at short tons.

1. Calculated by subtracting coal reserves as of 1/1/74 from reserves as of 1/1/73 as reported in the 1972 and 1973 Annual Reports of the Virginia Department of Labor and Industry (VDL&I).

2. Similar calculations as 1 using the 1973 and 1974 Annual Reports of the VDL&I

3. Similar calculations as 1 using the 1974 and 1975 Annual Reports of the VDL&I

4. Annaul Report for the year 1975 from the VDL&I

Coals Mined in Wise County

Name of Bed	Production 1973 1*	Production 1974 2*	Production 1975 3*	Remaining Reserves 1/1/76 4*	Reserves as of 1/1/51 4*
High Splint	0.30	0.20	0.20	21.00	28.15
Morris	0.18	0.15	0.14	28.05	28.74
Pardee	0.44	0.64	0.61	67.57	74.19
Phillips	0.15	0.19	0.10	11.14	11.88
Low Splint	0.23	0.16	0.20	98.30	99.59
Taggart	2.11	1.65	1.71	87.82	121.29
Taggart Marker	0.82	0.30	0.39	80.53	85.79
Upper Standiford	0.04	0.10	0.06	65.32	70.34
Pinhook	0.00	0.00	0.00	3.87	3.87
Kelley	0.86	0.97	1.03	136.14	149.17
Imboden	1.56	1.47	1.60	150.23	186.38
Rocky Ford	0.00	0.00	0.00	0.24	0.24
Addington	0.00	0.00	0.06	4.30	4.36
Clintwood	0.62	0.82	0.59	156.45	167.39
Blair	0.40	0.47	0.59	152.51	157.02
Lyons	0.37	0.32	0.44	128.76	132.34
Dorchester	1.13	1.07	1.23	183.55	193.97
Norton	0.38	0.45	0.32	163.73	170.19
Hagy	0.01	0.02	0.02	8.99	9.08
Splashdam	0.00	0.03	0.00	8.72	11.36
Upper Banner	0.48	0.40	0.21	84.81	94.10
Lower Banner	0.13	0.09	0.22	113.76	116.78
Kennedy	0.00	0.04	0.10	112.49	112.85
Raven	0.01	0.11	0.22	130.20	130.71
Jawbone	0.06	0.21	0.34	151.71	157.40
Tiller	0.01	0.00	0.00	5.18	5.29
Cove Creek	0.00	0.00	0.00	0.19	0.19
Burton's Ford	0.08	0.00	0.00	8.34	8.42
Eagan	0.00	0.00	0.00	6.32	6.32
Starnes	0.00	0.00	0.00	2.71	2.71
Tacus	0.00	0.00	0.00	5.49	5.49
TOTAL	10.37	9.86	10.38	2178.42	2345.60

*In millions at short tons.

1. Calculated by subtracting coal reserves as of 1/1/74 from reserves as of 1/1/73 as reported in the 1972 and 1973 Annual Reports of the Virginia Department of Labor and Industry (VDL&I)

2. Similar calculations as 1 using the 1973 and 1974 Annual Reports of the VDL&I

3. Similar calculations as 1 using the 1974 and 1975 Annual Reports of the VDL&I

4. Annual Report for the year 1975 from the VDL&I

Relative Importance of Strip-Mine Production in Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines*	Average Production per Strip Mine (short tons)
1975	35,505,780	11,159,798	31.4	416	26,826
1974	34,283,753	10,048,467	29.3	355	28,306
1973	33,869,387	8,703,152	25.7	261	33,345
1972	33,995,841	8,296,742	24.4	267	31,074
1971	30,624,954	7,176,755	23.4	241	29,779
1970	34,974,724	5,103,462	14.6	181	28,196
1969	35,651,536	3,492,639	9.8	96	36,382
1968	36,865,703	4,046,205	11.0	99	40,871
1967	36,415,214	4,078,515	11.2	76	53,665
1966	35,572,928	3,648,982	10.3	76	48,013

*Data from Annual Reports of the Department of Labor and Industry.

Relative Importance of Strip-Mine Production in Buchanan County, Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines*	Average Production per Strip Mine (short tons)
1975	14,063,577	3,153,311	22.4	109	28,929
1974	14,292,618	3,007,781	21.0	102	29,488
1973	13,510,679	1,830,246	13.5	67	27,317
1972	13,223,862	1,357,502	10.3	66	20,568
1971	12,300,164	1,372,707	11.2	65	21,119
1970	14,814,524	1,170,968	7.9	60	19,516
1969	14,758,885	502,034	3.4	24	20,918
1968	15,816,521	528,243	3.3	27	19,565
1967	15,323,358	1,088,859	7.1	22	49,494
1966	16,305,629	851,705	5.2	17	50,100

*Data from Annual Reports of the Department of Labor and Industry

Relative Importance of Strip-Mine Production in Dickenson County, Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines*	Average Production per Strip Mine (short tons)
1975	5,372,040	1,224,873	22.8	53	23,111
1974	5,528,357	1,472,971	26.6	42	35,071
1973	4,796,005	902,374	18.8	33	27,345
1972	6,236,794	1,622,909	26.0	38	42,708
1971	5,634,167	1,322,448	23.5	39	33,909
1970	7,147,390	983,356	13.8	24	40,973
1969	7,953,282	872,490	11.0	15	58,166
1968	8,694,426	1,344,125	15.4	19	70,743
1967	9,581,429	1,172,655	12.2	16	73,291
1966	9,319,835	1,084,161	11.6	18	60,231

*Data from Annual Reports of the Department of Labor and Industry.

Relative Importance of Strip-Mine Production in Lee County, Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines	Average Production per Strip Mine (short tons)
1975	1,048,070	398,795	38.0	36	11,078
1974	966,287	195,485	20.2	17	11,499
1973	1,138,148	239,360	21.0	8	29,920
1972	1,045,300	226,930	21.7	15	15,129
1971	878,609	327,813	37.3	12	27,318
1970	1,126,983	322,215	28.6	12	26,851
1969	886,614	290,346	32.7	14	20,739
1968	1,231,525	307,146	24.9	10	30,715
1967	840,006	306,876	36.5	6	51,146
1966	435,614	57,431	13.2	6	9,572

*Data from Annual Reports of the Department of Labor and Industry.

Relative Importance of Strip-Mine Production in Russell County, Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines*	Average Production per Strip Mine (short tons)
1975	1,997,444	677,355	33.9	30	22,578
1974	1,823,389	451,462	24.7	19	23,761
1973	2,392,176	627,101	26.2	15	41,807
1972	2,636,094	787,566	29.9	11	71,597
1971	2,426,132	635,658	26.2	14	45,404
1970	2,311,473	265,567	11.5	9	29,507
1969	2,408,724	15,679	0.6	1	15,679
1968	2,379,879	29,589	1.2	4	7,397
1967	2,279,605	51,949	2.3	4	12,987
1966	1,920,139	38,057	2.0	5	7,611

*Data from Annual Reports of the Department of Labor and Industry.

Relative Importance of Strip-Mine Production in Scott County, Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines*	Average Production per Strip Mine (short tons)
1975	7,743	—	0.0	—	—
1974	8,069	—	0.0	—	—
1973	8,678	1,800	20.7	1	1,800
1972	11,122	—	0.0	—	—
1971	16,899	400	2.4	—	—
1970	11,113	1,800	16.2	1	1,800
1969	1,137	—	0.0	—	—
1968	8,762	—	0.0	—	—
1967	14,689	—	0.0	—	—
1966	11,168	—	0.0	—	—

*Data from the Annual Reports of the Department of Labor and Industry.

Relative Importance of Strip-Mine Production in Tazewell County, Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines*	Average Production per Strip Mine (short tons)
1975	2,609,389	372,066	14.2	13	28,620
1974	1,839,389	329,916	17.9	9	36,657
1973	1,639,987	327,984	20.0	6	54,664
1972	1,794,876	457,827	25.5	13	35,217
1971	1,347,547	501,901	37.2	12	41,825
1970	1,115,252	328,331	29.4	10	32,833
1969	351,025	9,087	2.6	4	2,272
1968	300,257	167,570	55.8	4	41,893
1967	313,947	73,654	23.5	3	24,551
1966	241,118	101,472	42.1	4	25,368

*Data from Annual Reports of the Department of Labor and Industry.

Relative Importance of Strip-Mine Production in Wise County, Virginia, 1966-1975

Year	Production-All Methods (short tons)*	Production-Strip Mines (short tons)*	Percent of Total Production by Strip Mines	Number of Strip Mines*	Average Production per Strip Mine (short tons)
1975	10,407,517	5,333,397	51.2	175	30,476
1974	9,825,644	4,590,852	46.7	166	27,656
1973	10,383,714	4,774,287	46.0	131	36,445
1972	9,047,793	3,844,008	42.5	124	31,000
1971	8,021,400	3,015,828	37.6	99	30,463
1970	8,446,439	2,031,225	24.0	65	31,250
1969	9,289,369	1,803,003	19.4	38	47,447
1968	8,432,283	1,669,532	19.8	35	47,701
1967	8,058,020	1,384,522	17.2	25	55,381
1966	7,334,272	1,516,156	20.7	26	58,314

*Data from the Annual Reports of the Department of Labor and Industry.

Summary of Permits Issued by the Division of Mined Land Reclamation in 1975*

County	Number of Permits	Total Acres	Average Acres per Permit	Average Pit Widths (feet)	Average Bench Widths (feet)	Average Height of Highwalls (feet)	Average Slope (Degree)	Average pH	Average Coal Thickness (inches)
Buchanan	86	6,974.0	81.1	64.9	105.3	49.4	28.6	7.2	35.5
Dickenson	48	2,305.0	48.0	124.3	168.8	57.7	23.7	7.2	38.7
Lee	36	957.8	26.6	84.0	125.5	44.6	22.9	6.7	38.5
Russell	24	1,317.4	54.9	93.7	167.2	59.6	26.4	6.7	46.4
Scott	1	205.0	205.0	80.0	100.0	60.0	29.0	—	40.0
Tazewell	15	806.4	53.8	67.8	112.0	58.8	27.5	6.7	35.1
Wise	111	5,580.2	50.3	159.3	238.0	58.8	21.0	6.6	38.6
TOTAL	321[1]	18,145.8							
Seven County Average			56.5	111.0	168.3	54.4[2]	24.4	6.8	38.1

*Grant T. Hollett-Division of Mined Land Reclamation , Big Stone Gap, Virginia

[1] Includes 23 underground Mines; 1 Gas Well; 1 Pipeline, 1 Sludge Pond; 1 Parking Lot; 1 Garage Site

[2] Total Length of Highwall; 2,430,858 ft. or 460 Miles
Average Length of Highwall per permit 7,573 ft.

RESERVES

Demonstrated Coal Reserve Base of Virginia
January 1, 1974

1. Demonstrated Coal Reserve Base of Virginia on January 1, 1974 by Method of Mining (million short tons)*

Potential Mining Method		
Underground	Surface	Total
2,971	679	3,650

2. Demonstrated Reserve Base of Coal in Virginia on January 1, 1974 Potentially Minable by Underground Methods (million short tons)*

Anthracite	Bituminous	Subbituminous	Lignite	Total
138	2,833	-	-	2,971

3. Demonstrated Reserve Base of Coal in Virginia on January 1, 1974 Potentially Minable by Surface Methods (million short tons)*

Anthracite	Bituminous	Subbituminous	Lignite	Total
-	679	-	-	679

*Includes measured and indicated categories as defined by the U. S. Bureau of Mines and U. S. Geological Survey, and represents 100% of the coal in place. Calculations based upon bituminous coal and anthracite 28 inches or greater in thickness, and to a maximum depth of 1000 feet.

Source:
"Demonstrated Coal Reserve Base of the United States on January 1, 1974," A Mineral Industry Survey of the U. S. Bureau of Mines, June, 1974.

Demonstrated Coal Reserve Base

The U. S. Bureau of Mines has prepared information on coal reserves for the eastern United States. Information Circular 8655 published in 1974 is titled "The Reserve Base of Bituminous Coal and Anthracite Coal for Underground Mining in the Eastern United States." In Information Circular 8655, the data are presented for only underground mining on the basis of sulfur content. Information Circular 8680 published in 1975 is titled "The Reserve Base of U. S. Coals by Sulfur Content," and contains information on both underground and strippable reserves by sulfur content. The data are presented in terms of the coal reserve base, which utilizes the following criteria.

> Reserve Base: for Virginia includes in-place beds of bituminous coal and anthracite 28 inches or more thick that occur at depths to 1000 feet. Also it includes only coal from measured and indicated categories of reliability as defined below.
>
> Measured: Tonnage is computed from dimensions revealed in outcrops, trenches, mine workings, and drill holes. The points of observation and measurement are so closely spaced and the thickness and extent of coals are so well defined that the tonnage is judged to be accurate within 20 percent of true tonnage. Although the spacing of the points of observation necessary to demonstrate continuity of coal differs from region to region according to the character of the coalbeds, the points of observation are, in general, no greater than one-half mile apart. Generally, measured reserves are synonymous with proved reserves of other reports.
>
> Indicated: Tonnage is computed partly from specified measurements and partly from projections of visible data for a reasonable distance on the basis of geologic evidence. In general, the points of observation are about 1 mile apart, but they may be as much as 1 1/2 miles apart for beds of known continuity. Generally, indicated reserves are equivalent to proable reserves of other reports.

The United States Bureau of Mines and the United States Geological Survey have jointly developed a standarized classification system for estimating coal resources. The principles of this system and definitions of terms to be used in the classification system are given in the United States Geological Survey Bulletin 1450-A (1976) titled "Coal Resource Classification System of the U. S. Bureau of Mines and the U. S. Geological Survey." The reserve figures presented in this summary do not conform to the new classification system, but future resource estimates will follow the principles established in U.S.G.S. Bulletin 1450-A.

Underground coal reserve base, by State, rank, and bed thickness--January 1, 1974, million short tons*

State	Bituminous coal		Anthracite		Total,
	28-42 inches	>42 inches	28-42 inches	>42 inches	>28 inches
Alabama.....	1,014.19	783.90	0.00	0.00	1,798.09
Illinois.....	6,817.63	46,624.63	.00	.00	53,441.86
Indiana.....	1,881.69	7,066.80	.00	.00	8,948.49
Kentucky, east..	5,464.59	4,001.89	.00	.00	9,466.48
Kentucky, west..	502.89	8,217.00	.00	.00	8,719,89
Maryland.....	536.74	365.17	.00	.00	901.91
Michigan.....	98.85	18.79	.00	.00	117.64
Ohio.....	6,923.52	10,499.74	.00	.00	17,423.26
Pennsylvania....	8,199.01	14,589.93	3,584.87	3,445.35	29,819.16
Tennessee.....	492.40	174.73	.00	.00	667.13
Virginia.....	1,983.37	849.87	10.64	126.85	2,970.73
West Virginia...	11,205.17	23.172.60	.00	.00	34.377.77
Total.....	45,120.05	116,364.65	3,595.51	3,572.20	168,652.41

Underground reserve base of bituminous coal, by sulfur level and State, million short tons*

State	Sulfur level, percent				
	1.0 or less	1.1-3.0	>3.0	Unknown	Total[1]
Alabama.....	589	1,018	15	176	1,798
Illinois.....	1,034	5,848	33,648	12,908	53,442
Indiana.....	443	2,746	4,357	1,402	8,948
Kentucky, east.....	5,042	2,392	213	1,814	9,466
Kentucky, west.....	0	387	7,226	1,107	8,720
Maryland.....	107	625	171	0	902
Michigan.....	5	85	21	7	118
Ohio.....	116	5,450	10,110	1,754	17,423
Pennsylvania.....	982	16,013	3,568	2,216	22,789
Tennessee.....	140	371	101	54	667
Virginia.....	1,676	946	12	198	2,833
West Virginia.....	11,088	12,586	6,555	4,143	34,378
Eastern U.S. total.....	21,223	48,464	65,992	25,780	161,485

[1] Totals may not add due to rounding.

Underground reserve base of anthracite, by sulfur level and State, million short tons*

State	Sulfur level, percent				
	1.0 or less	1.1-3.0	>3.0	Unknown	Total[1]
Pennsylvania.....	6,199	182	0	649	7,030
Virginia.....	53	0	0	85	137
U.S. total.....	6,252	182	0	734	7,167

[1] Distribution may not add to total because of rounding.

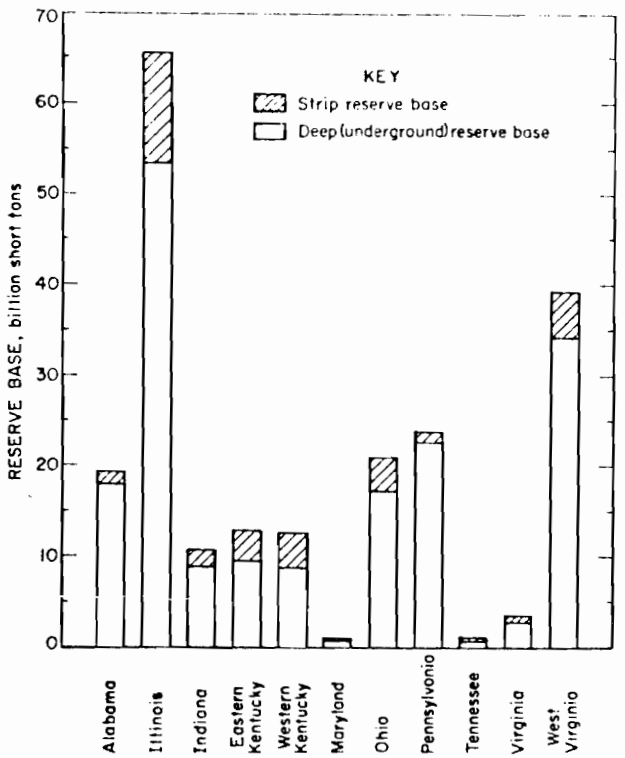
*Data from U.S.B.M. Inf. Circular 8655.

Reserve base of bituminous coal in coalbeds greater than 28 inches thick to a maximum depth of 1,000 feet, by mining method and sulfur content, million short tons[1]

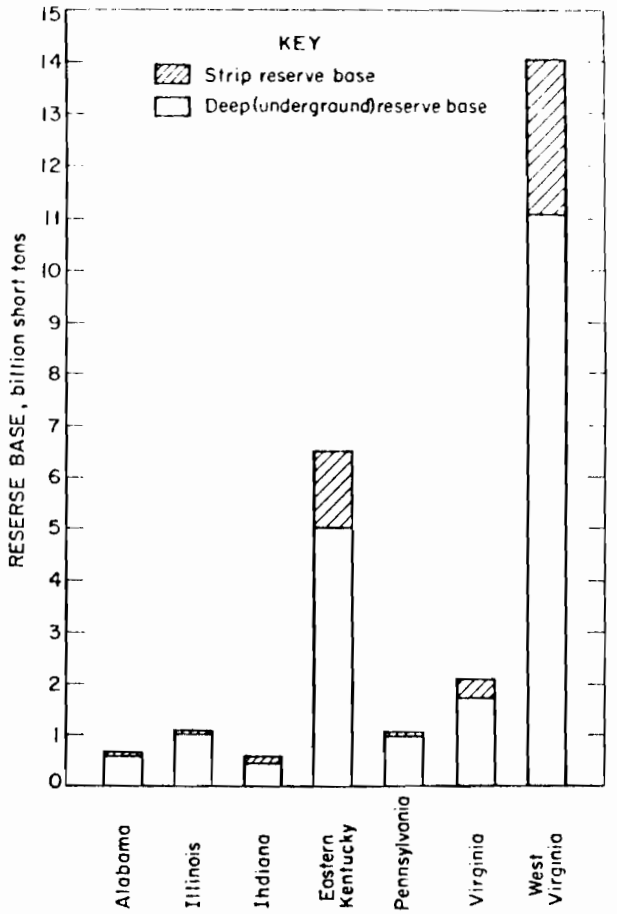
State	Mining method	Sulfur content, weight-percent				
		≦1.0	1.1-3.0	>3.0	Unknown	Total[2]
Alabama.....	Deep....	589.32	1,016.74	14.79	176.24	1,798.09
	Strip...	35.35	83.17	1.56	36.65	157.24
Georgia.....	Deep....	.33	0	0	.17	.50
	Strip...	0	0	0	0	0
Illinois.....	Deep....	1,034.68	5,848.37	33,647.64	12,908.44	53,441.86
	Strip...	60.37	1,493.04	9,321.32	1,347.78	12,222.86
Indiana.....	Deep....	443.54	2,746.61	4,355.12	1,402.45	8,948.49
	Strip...	105.25	559.23	907.20	101.56	1,674.08
Kentucky, eastern	Deep....	5,042.70	2,391.88	212.67	1,814.03	9,466.48
	Strip...	1,515.65	929.90	86.82	915.32	3,450.16
Kentucky, western	Deep....	0	386.58	7,226.36	1,107.11	8,719.89
	Strip...	.22	177.83	2,017.45	1,708.79	3,904.02
Maryland.....	Deep....	106.45	623.94	171.18	0	901.91
	Strip...	28.56	66.59	16.24	34.57	146.30
Michigan.....	Deep....	4.59	84.93	20.78	7.03	117.64
	Strip...	0	.49	.05	0	.56
North Carolina...	Deep....	0	0	0	31.25	31.25
	Strip...	0	0	0	.37	.37
Ohio.....	Deep....	115.45	5,449.88	10,109.36	1,754.09	17,423.26
	Strip...	18.87	990.96	2,524.87	117.93	3,653.89
Pennsylvania.....	Deep....	981.15	16,013.46	3,568.14	2,215.60	22,788.94
	Strip...	55.45	717.21	231.52	83.57	1,091.07
Tennessee.....	Deep....	139.29	369.98	101.37	53.87	667.13
	Strip...	65.54	163.19	55.22	34.12	319.59
Virginia.....	Deep....	1,676.05	945.42	12.03	198.31	2,833.24
	Strip...	411.58	218.06	2.06	46.69	679.24
West Virginia....	Deep....	11,086.60	12,583.41	6,552.88	4,142.92	34,377.77
	Strip...	3,005.46	1,422.82	270.40	509.55	5,212.02
Total.....	Deep....	21,220.15	48,461.20	65,992.32	25,811.51	161,516.45
	Strip...	5,302.30	6,822.49	15,434.71	4,936.90	32,511.40

[1] Includes only measured and indicated reserves.
[2] Distribution may not add to total because of rounding.

Data from U.S.B.M. Inf. Circular 8680



Reserve base of bituminous coal in the Eastern United States.



Reserve base of low-sulfur bituminous coal in the Eastern United States (≦1.0 percent sulfur).

Reserve base of anthracite, by mining method and sulfur content, million short tons[1]

State	Mining method	Sulfur content, weight-percent				
		≦1.0	1.1-3.0	>3.0	Unknown	Total[2]
Pennsylvania.....	Deep.....	6,198.53	181.71	0	649.05	7,030.22
	Strip.....	83.13	1.18	0	5.90	90.31
Virginia.....	Deep.....	52.49	0	0	84.96	137.49
	Strip.....	0	0	0	0	0
Total.....	Deep.....	6,251.02	181.71	0	734.01	7,167.71
	Strip.....	83.13	1.18	0	5.90	90.31

[1] Includes only measured and indicated reserves.
[2] Distribution may not add to total because of rounding.

Data from U.S.B.M. Inf. Circular 8680

Bituminous Coalbed Code Numbers
(Used in USBM Inf. Circ. 8655 and 8680)

001 Various

104 High Splint, No. 12

111 Cornett, Morris, No. 11

126 Limestone, No. 10, Pardee, Parsons, Smith

127 High Cliff, No. 9, Wax

133 Gin Creek, No. 8

135 Dean, Fire Clay, No. 7, Phillips

142 Buck Knob, Creveling, Low Splint, Mason, No. 6

151 C, Cedar Grove, Darby, Darby No. 5, Keokee, No. 5, Red Jacket, Roda, Taggart, Thacker, Upper Thacker

152 B, Dendron, Marker, Taggart Marker

154 Lower Cedar Grove, Lower Thacker

155 Kirk, No. 4

157 Alma, Harlan, Jackrock, No. 3, Puckett Creek, Upper Standiford, Wilson

160 Lower Standiford, No. 2-A, Upper St. Charles

161 Lower St. Charles, No. 2

164 Meadow, Pinhook

165 Five Foot, Kelly, Upper Bolling

166 Stone Creek

167 Campbell Creek Peerless

168 Burnwell, Campbell Creek, Freeburn, Imboden, Lower Bolling, Lower Campbell Creek, Lower Elkhorn, Lower Marrowbone, No. 1, No. 2 Gas, Pond Creek, Upper War Eagle, Warfield

171 Rocky Fork

172 Addington

174 Big Dorchester, Clintwood, Feds Creek, Matewan, North Fork, Norton No. 8

176 Eagle, Middle War Eagle, Mohawk

177 Bends Creek, Bentley, Blair

178 Lyons, Thompson

185 Big Dirt Seam, Dorchester, Esserville, Gladeville, Glamorgan, Haskell No. 3, Marcee, Norton No. 2

189 Middle Norton, Norton, Yellow Creek

195 Hagy, Lower War Eagle

210 Edwards, Splash Dam

214 Upper Banner

216 Cary, Gilbert, Lower Banner

232 Big Fork

250 Caldwell

252 Douglas, Harris, Kennedy, Widow Kennedy

253 Aily

259 Garden Hole, Jewell, Jewell Ridge, Lower Douglas, No. 6, Raven, Raven Red Ash, Red Ash

266 Iaeger, Jawbone, Lower Jewell, No. 5, Ratliff, Shannon

268 Jawbone-Tiller, Thick Tiller (Tiller and Jawbone)

269 Hogwallow, Lower Iaeger, No. 4, Tiller

271 Upper Seaboard

274 Greasy Creek, Sewell B

275 Middle Seaboard

285 Lower Seaboard, Sewell

293 Smith, Upper Horsepen, Welch

302 Little Raleigh, Middle Horsepen

304 C

311 Beckley, War Creek

319 Little Fire Creek, Lower Horsepen

323 Pocahontas No. 9

324 Pocahontas No. 8

325 Pocahontas No. 7

328 Cove Creek

329 Duncan, Egan

330 Carter

331 Milner, Tacus

332 Starns

334 Pocahontas No. 6

340 Burton's Ford

341 Pocahontas No. 5

342 Pocahontas No. 4

344 Pocahontas No. 3

357 Pocahontas No. 2

359 Pocahontas No. 1

799 Uncorrelated

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: BUCHANAN

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	174	.00	1.06	2.50	2.31	1.12	.05	.00	.00	.00	.00	.00	7.07	239	.9
> 42		.00	.17	.41	.38	.18	.00	.00	.00	.00	.00	.00	1.17		
TOTAL		.00	1.23	2.91	2.69	1.30	.05	.00	.00	.00	.00	.00	8.24		
28-42	176	.00	.00	3.77	8.26	29.23	15.65	2.12	.00	.00	.00	.00	59.06	28	1.2
> 42		.00	.00	1.11	2.43	8.62	4.61	.62	.00	.00	.00	.00	17.42		
TOTAL		.00	.00	4.88	10.69	37.85	20.26	2.74	.00	.00	.00	.00	76.48		
28-42	177	.00	.00	.00	.17	.28	.00	.00	.00	.00	.00	.00	.46	3	1.1
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.17	.28	.00	.00	.00	.00	.00	.00	.46		
28-42	185	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.64	13.64		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.64	13.64		
28-42	195	.00	.00	18.26	33.25	50.98	6.89	.00	.00	.00	.00	.00	109.40	5	1.0
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	18.26	33.25	50.98	6.89	.00	.00	.00	.00	.00	109.40		
28-42	210	.00	23.40	52.36	62.14	48.52	5.17	.38	.00	.00	.00	.00	191.81	56	.9
> 42		.00	7.16	16.03	19.02	14.85	1.58	.11	.00	.00	.00	.00	58.73		
TOTAL		.00	30.56	68.39	81.16	63.37	6.75	.49	.00	.00	.00	.00	250.54		
28-42	214	.00	.88	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88	3	.6
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.88	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88		
28-42	216	.46	1.34	3.05	4.41	4.99	.77	.07	.00	.00	.00	.00	15.13	786	1.0
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.46	1.34	3.05	4.41	4.99	.77	.07	.00	.00	.00	.00	15.13		
28-42	252	.00	.00	26.00	64.22	106.77	.00	.00	.00	.00	.00	.00	197.01	13	1.1
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	26.00	64.22	106.77	.00	.00	.00	.00	.00	.00	197.01		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

VIRGINIA

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY, BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: BUCHANAN

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	266	.00	78.83	49.35	.00	.00	.00	.00	.00	.00	.00	.00	128.19	6	.6
> 42		.00	4.04	2.53	.00	.00	.00	.00	.00	.00	.00	.00	6.58		
TOTAL		.00	82.87	51.88	.00	.00	.00	.00	.00	.00	.00	.00	134.77		
28-42	269	2.53	6.74	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.28	5	.5
> 42		1.13	3.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.15		
TOTAL		3.66	9.75	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.43		

COUNTY: TOTAL

28-42		2.99	112.25	155.29	174.76	241.89	28.53	2.57	.00	.00	.00	13.64	731.93	1144	
> 42		1.13	14.38	20.08	21.83	23.65	6.19	.73	.00	.00	.00	.00	88.05		
TOTAL		4.12	126.63	175.37	196.59	265.54	34.72	3.30	.00	.00	.00	13.64	819.98		

COUNTY: 051 DICKENSON

28-42	165	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.36	2.36		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.36	2.36		
28-42	174	.00	.00	.29	.31	.13	.00	.00	.00	.00	.00	.00	.76	42	.8
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.29	.31	.13	.00	.00	.00	.00	.00	.00	.76		
28-42	176	.00	.00	.00	.05	.34	.10	.00	.00	.00	.00	.00	.51	3	1.3
> 42		.00	.00	.00	.12	.69	.22	.00	.00	.00	.00	.00	1.04		
TOTAL		.00	.00	.00	.17	1.03	.32	.00	.00	.00	.00	.00	1.55		
28-42	178	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: DICKENSON

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	185	.00	.00	.00	.03	.12	.00	.00	.00	.00	.00	.00	.16	6	1.2
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.03	.12	.00	.00	.00	.00	.00	.00	.16		
28-42	195	.00	.00	.00	.00	.00	.16	.59	.22	.00	.00	.00	.98	4	2.0
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.16	.59	.22	.00	.00	.00	.98		
28-42	210	.00	4.12	40.85	5.12	.15	.00	.00	.00	.00	.00	.00	50.25	263	.8
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	4.12	40.85	5.12	.15	.00	.00	.00	.00	.00	.00	50.25		
28-42	214	2.59	18.13	30.50	6.83	.82	.00	.00	.00	.00	.00	.00	58.89	835	.7
> 42		2.78	19.48	32.76	7.33	.88	.00	.00	.00	.00	.00	.00	63.25		
TOTAL		5.37	37.61	63.26	14.16	1.70	.00	.00	.00	.00	.00	.00	122.14		
28-42	216	.00	4.25	12.73	8.56	2.19	.05	.00	.00	.00	.00	.00	27.80	43	.8
> 42		.00	1.17	3.51	2.36	.60	.01	.00	.00	.00	.00	.00	7.68		
TOTAL		.00	5.42	16.24	10.92	2.79	.06	.00	.00	.00	.00	.00	35.48		
28-42	252	.00	.00	12.38	22.35	34.51	6.34	.00	.00	.00	.00	.00	75.52	10	.8
> 42		.00	.00	.50	.91	1.40	.25	.00	.00	.00	.00	.00	3.08		
TOTAL		.00	.00	12.88	23.26	35.91	6.59	.00	.00	.00	.00	.00	78.60		
28-42	259	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	51.77	51.77		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	40.37	40.37		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	92.14	92.14		
28-42	266	.00	5.86	8.71	11.57	25.39	16.67	6.83	.00	.00	.00	.00	75.13	12	1.2
> 42		.00	.58	.87	1.15	2.54	1.67	.68	.00	.00	.00	.00	7.53		
TOTAL		.00	6.44	9.58	12.72	27.93	18.34	7.51	.00	.00	.00	.00	82.66		
28-42	269	2.47	9.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.60	7	.5
> 42		7.84	28.98	.00	.00	.00	.00	.00	.00	.00	.00	.00	36.83		
TOTAL		10.31	38.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	48.43		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

VIRGINIA

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY, BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: DICKENSON

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
COUNTY: TOTAL															
28-42		5.06	41.48	105.46	54.82	63.65	23.32	7.42	.22	.00	.00	51.80	353.40	1225	
> 42		10.62	50.21	37.64	11.87	6.11	2.15	.68	.00	.00	.00	42.73	162.14		
TOTAL		15.68	91.69	143.10	66.69	69.76	25.47	8.10	.22	.00	.00	94.53	515.54		
COUNTY: 105 LEE															
28-42	127	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1	.8
> 42		.00	.00	.36	.00	.00	.00	.00	.00	.00	.00	.00	.36		
TOTAL		.00	.00	.36	.00	.00	.00	.00	.00	.00	.00	.00	.36		
28-42	133	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.63	1.63		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.63	1.63		
28-42	135	.00	.00	.83	.56	.00	.00	.00	.00	.00	.00	.00	1.40	28	.8
> 42		.00	.00	1.68	1.13	.00	.00	.00	.00	.00	.00	.00	2.82		
TOTAL		.00	.00	2.51	1.69	.00	.00	.00	.00	.00	.00	.00	4.22		
28-42	142	.00	.06	.09	.13	.36	.40	.30	.16	.07	.04	.00	1.64	26	1.3
> 42		.00	.38	.56	.77	2.16	2.40	1.76	.94	.42	.24	.00	9.67		
TOTAL		.00	.44	.65	.90	2.52	2.80	2.06	1.10	.49	.28	.00	11.31		
28-42	151	1.19	6.33	1.55	.10	.00	.00	.00	.00	.00	.00	.00	9.18	240	.6
> 42		.19	1.04	.25	.01	.00	.00	.00	.00	.00	.00	.00	1.52		
TOTAL		1.38	7.37	1.80	.11	.00	.00	.00	.00	.00	.00	.00	10.70		
28-42	152	.00	1.33	1.33	.00	.00	.00	.00	.00	.00	.00	.00	2.66	2	.7
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	1.33	1.33	.00	.00	.00	.00	.00	.00	.00	.00	2.66		

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Data from U.S.B.M. Inf. Circular 8655.

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: LEE

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	157	.00	1.31	1.94	2.76	8.72	13.05	13.93	10.48	6.02	4.52	.00	62.78	22	1.7
> 42		.00	.52	.77	1.09	3.46	5.19	5.54	4.16	2.39	1.79	.00	24.96		
TOTAL		.00	1.83	2.71	3.85	12.18	18.24	19.47	14.64	8.41	6.31	.00	87.74		
28-42	160	.00	.19	.33	.52	1.33	.85	.28	.00	.00	.00	.00	3.52	3	1.1
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.19	.33	.52	1.33	.85	.28	.00	.00	.00	.00	3.52		
28-42	161	.00	.00	.00	.00	.00	.00	4.58	.00	.00	.00	.00	4.58	1	2.1
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.00	4.58	.00	.00	.00	.00	4.58		
28-42	164	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88	.88		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88	.88		
28-42	165	.00	.00	3.81	2.38	.00	.00	.00	.00	.00	.00	.00	6.20	3	.8
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	3.81	2.38	.00	.00	.00	.00	.00	.00	.00	6.20		
28-42	168	.00	.00	2.16	2.82	5.42	2.72	.56	.00	.00	.00	.00	13.71	11	1.1
> 42		.00	.00	1.38	1.80	3.47	1.74	.35	.00	.00	.00	.00	8.77		
TOTAL		.00	.00	3.54	4.62	8.89	4.46	.91	.00	.00	.00	.00	22.48		
28-42	174	.00	.00	.00	.00	.00	1.06	.00	.00	.00	.00	.00	1.06	1	1.7
> 42		.00	.00	.00	.00	.00	10.07	.00	.00	.00	.00	.00	10.07		
TOTAL		.00	.00	.00	.00	.00	11.13	.00	.00	.00	.00	.00	11.13		

COUNTY: TOTAL

28-42	1.19	9.22	12.04	9.27	15.83	18.08	19.65	10.64	6.09	4.56	.88	107.61	338	
> 42	.19	1.94	5.00	4.80	9.09	19.40	7.65	5.10	2.81	2.03	1.63	59.80		
TOTAL	1.38	11.16	17.04	14.07	24.92	37.48	27.30	15.74	8.90	6.59	2.51	167.41		

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Data from U.S.B.M. Inf. Circular 8655.

VIRGINIA

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY, BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: RUSSELL

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	214	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	189	.6
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02		
28-42	216	.00	.66	1.08	.22	.02	.00	.00	.00	.00	.00	.00	2.01	219	.7
> 42		.00	.73	1.19	.25	.02	.00	.00	.00	.00	.00	.00	2.21		
TOTAL		.00	1.39	2.27	.47	.04	.00	.00	.00	.00	.00	.00	4.22		
28-42	252	.00	.00	7.29	12.67	35.21	21.01	4.01	.00	.00	.00	.00	80.21	24	1.2
> 42		.00	.00	.48	.84	2.33	1.39	.26	.00	.00	.00	.00	5.33		
TOTAL		.00	.00	7.77	13.51	37.54	22.40	4.27	.00	.00	.00	.00	85.54		
28-42	259	.00	8.56	15.98	4.57	.00	.00	.00	.00	.00	.00	.00	29.12	16	.7
> 42		.00	.47	.88	.25	.00	.00	.00	.00	.00	.00	.00	1.61		
TOTAL		.00	9.03	16.86	4.82	.00	.00	.00	.00	.00	.00	.00	30.73		
28-42	266	.00	3.77	5.52	6.26	8.83	2.98	.00	.00	.00	.00	.00	27.34	12	.9
> 42		.00	21.79	31.90	36.17	51.02	17.21	.00	.00	.00	.00	.00	157.97		
TOTAL		.00	25.56	37.42	42.43	59.85	20.19	.00	.00	.00	.00	.00	185.31		
28-42	269	6.99	15.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	22.00	12	.5
> 42		19.92	42.73	.00	.00	.00	.00	.00	.00	.00	.00	.00	62.66		
TOTAL		26.91	57.73	.00	.00	.00	.00	.00	.00	.00	.00	.00	84.66		
28-42	340	.00	11.82	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.82	1	.5
> 42		.00	.72	.00	.00	.00	.00	.00	.00	.00	.00	.00	.72		
TOTAL		.00	12.54	.00	.00	.00	.00	.00	.00	.00	.00	.00	12.54		

COUNTY: TOTAL

28-42	6.99	39.81	29.87	23.72	44.06	23.99	4.01	.00	.00	.00	.00	172.51	473	
> 42	19.92	66.44	34.45	37.51	53.37	18.60	.26	.00	.00	.00	.00	230.51		
TOTAL	26.91	106.25	64.32	61.23	97.43	42.59	4.27	.00	.00	.00	.00	403.02		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
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Data from U.S.B.M. Inf. Circular 8655.

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: SCOTT

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	328	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.94	1.94		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.94	1.94		
28-42	329	.00	.00	.00	1.37	.00	.00	.00	.00	.00	.00	.00	1.37	1	.9
> 42		.00	.00	.00	2.23	.00	.00	.00	.00	.00	.00	.00	2.23		
TOTAL		.00	.00	.00	3.60	.00	.00	.00	.00	.00	.00	.00	3.60		
28-42	331	.00	.00	.00	.00	.00	.57	.00	.00	.00	.00	.00	.57	1	1.6
> 42		.00	.00	.00	.00	.00	.61	.00	.00	.00	.00	.00	.61		
TOTAL		.00	.00	.00	.00	.00	1.18	.00	.00	.00	.00	.00	1.18		
28-42	332	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.52	3.52		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.06		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.58	3.58		
28-42	340	.00	.00	.00	13.22	.00	.00	.00	.00	.00	.00	.00	13.22	2	.9
> 42		.00	.00	.00	21.13	.00	.00	.00	.00	.00	.00	.00	21.13		
TOTAL		.00	.00	.00	34.35	.00	.00	.00	.00	.00	.00	.00	34.35		
COUNTY:	TOTAL														
28-42		.00	.00	.00	14.59	.00	.57	.00	.00	.00	.00	3.52	18.68	4	
> 42		.00	.00	.00	23.36	.00	.61	.00	.00	.00	.00	2.00	25.97		
TOTAL		.00	.00	.00	37.95	.00	1.18	.00	.00	.00	.00	5.52	44.65		
COUNTY: 185	TAZEWELL														
28-42	259	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	271	.7
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

VIRGINIA

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY, BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: TAZEWELL

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	266	.00	26.76	6.40	.00	.00	.00	.00	.00	.00	.00	.00	33.17	8	.5
> 42		.00	6.74	1.61	.00	.00	.00	.00	.00	.00	.00	.00	8.36		
TOTAL		.00	33.50	8.01	.00	.00	.00	.00	.00	.00	.00	.00	41.53		
28-42	269	.00	1.59	2.65	3.20	4.24	1.12	.00	.00	.00	.00	.00	12.83	8	1.0
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	1.59	2.65	3.20	4.24	1.12	.00	.00	.00	.00	.00	12.83		
28-42	271	1.06	7.72	1.06	.00	.00	.00	.00	.00	.00	.00	.00	9.85	14	.5
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		1.06	7.72	1.06	.00	.00	.00	.00	.00	.00	.00	.00	9.85		
28-42	274	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.66	3.66		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.66	3.66		
28-42	275	.00	.00	.00	1.12	.00	.00	.00	.00	.00	.00	.00	1.12	3	1.0
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	1.12	.00	.00	.00	.00	.00	.00	.00	1.12		
28-42	285	.00	.00	.00	3.74	11.69	3.78	.00	.00	.00	.00	.00	19.23	7	1.2
> 42		.00	.00	.00	.12	.39	.12	.00	.00	.00	.00	.00	.65		
TOTAL		.00	.00	.00	3.86	12.08	3.90	.00	.00	.00	.00	.00	19.88		
28-42	293	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.24	1.24		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.74	8.74		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.98	9.98		
28-42	302	.00	2.82	2.82	.00	.00	.00	.00	.00	.00	.00	.00	5.64	2	.7
> 42		.00	1.41	1.41	.00	.00	.00	.00	.00	.00	.00	.00	2.83		
TOTAL		.00	4.23	4.23	.00	.00	.00	.00	.00	.00	.00	.00	8.47		
28-42	304	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.46	2.46		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.46	2.46		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: TAZEWELL

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	311	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	14.32	14.32		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.11	2.11		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	16.43	16.43		
28-42	319	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.42	2.42		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.42	2.42		
28-42	341	.00	5.94	3.87	.00	.00	.00	.00	.00	.00	.00	.00	9.82	23	.6
> 42		.00	3.67	2.40	.00	.00	.00	.00	.00	.00	.00	.00	6.08		
TOTAL		.00	9.61	6.27	.00	.00	.00	.00	.00	.00	.00	.00	15.90		
28-42	342	.00	.68	.00	.00	.00	.00	.00	.00	.00	.00	.00	.68	2	.5
> 42		.00	8.82	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.82		
TOTAL		.00	9.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.50		
28-42	344	.61	2.75	1.31	.00	.00	.00	.00	.00	.00	.00	.00	4.68	41	.5
> 42		.95	4.29	2.05	.00	.00	.00	.00	.00	.00	.00	.00	7.31		
TOTAL		1.56	7.04	3.36	.00	.00	.00	.00	.00	.00	.00	.00	11.99		
COUNTY: TOTAL															
28-42		1.67	48.26	18.12	8.06	15.93	4.90	.00	.00	.00	.00	24.10	121.14	379	
> 42		.95	24.93	7.47	.12	.39	.12	.00	.00	.00	.00	10.85	44.90		
TOTAL		2.62	73.19	25.59	8.18	16.32	5.02	.00	.00	.00	.00	34.95	166.04		
COUNTY: 195 WISE															
28-42	104	.00	.15	.20	.04	.00	.00	.00	.00	.00	.00	.00	.41	232	.7
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.15	.20	.04	.00	.00	.00	.00	.00	.00	.00	.41		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

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VIRGINIA

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: WISE

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	111	.00	1.04	.70	.00	.00	.00	.00	.00	.00	.00	.00	1.75	39	.7
> 42		.00	6.49	4.40	.00	.00	.00	.00	.00	.00	.00	.00	10.90		
TOTAL		.00	7.53	5.10	.00	.00	.00	.00	.00	.00	.00	.00	12.65		
28-42	126	.00	.00	2.20	4.52	6.67	.72	.00	.00	.00	.00	.00	14.15	27	1.0
> 42		.00	.00	5.25	10.78	15.90	1.71	.00	.00	.00	.00	.00	33.69		
TOTAL		.00	.00	7.45	15.30	22.57	2.43	.00	.00	.00	.00	.00	47.84		
28-42	142	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	31.95	31.95		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.17	3.17		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	35.12	35.12		
28-42	151	.38	4.81	16.07	3.06	.00	.00	.00	.00	.00	.00	.00	24.32	140	.7
> 42		.26	3.22	10.76	2.05	.00	.00	.00	.00	.00	.00	.00	16.29		
TOTAL		.64	8.03	26.83	5.11	.00	.00	.00	.00	.00	.00	.00	40.61		
28-42	152	.00	1.55	2.15	2.93	8.61	11.78	12.14	9.39	5.74	5.44	.00	59.82	16	1.2
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	1.55	2.15	2.93	8.61	11.78	12.14	9.39	5.74	5.44	.00	59.82		
28-42	157	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.33	7.33		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.07	3.07		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	10.40	10.40		
28-42	165	.00	.00	5.61	17.17	4.47	.00	.00	.00	.00	.00	.00	27.26	16	.9
> 42		.00	.00	1.60	4.92	1.28	.00	.00	.00	.00	.00	.00	7.81		
TOTAL		.00	.00	7.21	22.09	5.75	.00	.00	.00	.00	.00	.00	35.07		
28-42	168	.00	1.64	27.11	1.64	.03	.00	.00	.00	.00	.00	.00	30.47	2294	.7
> 42		.00	.16	2.74	.16	.00	.00	.00	.00	.00	.00	.00	3.08		
TOTAL		.00	1.80	29.85	1.80	.03	.00	.00	.00	.00	.00	.00	33.55		
28-42	174	.00	.00	3.41	4.20	8.71	5.79	2.62	.00	.00	.00	.00	24.75	12	1.2
> 42		.00	.00	3.09	3.81	7.90	5.25	2.37	.00	.00	.00	.00	22.45		
TOTAL		.00	.00	6.50	8.01	16.61	11.04	4.99	.00	.00	.00	.00	47.20		

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Data from U.S.B.M. Inf. Circular 8655.

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: WISE

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	177	.00	.08	.20	.28	.18	.00	.00	.00	.00	.00	.00	.77	27	.9
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.08	.20	.28	.18	.00	.00	.00	.00	.00	.00	.77		
28-42	178	.00	.00	.97	1.67	5.41	4.51	1.71	.00	.00	.00	.00	14.28	3	1.4
> 42		.00	.00	.01	.03	.10	.08	.03	.00	.00	.00	.00	.27		
TOTAL		.00	.00	.98	1.70	5.51	4.59	1.74	.00	.00	.00	.00	14.55		
28-42	185	.00	.00	1.99	3.67	13.67	13.91	5.95	1.63	.00	.00	.00	40.81	28	1.4
> 42		.00	.00	1.04	1.91	7.13	7.25	3.10	.85	.00	.00	.00	21.29		
TOTAL		.00	.00	3.03	5.58	20.80	21.16	9.05	2.48	.00	.00	.00	62.10		
28-42	189	.00	.00	.00	7.93	38.55	3.71	.00	.00	.00	.00	.00	50.20	14	1.2
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	7.93	38.55	3.71	.00	.00	.00	.00	.00	50.20		
28-42	214	.00	8.52	10.75	2.14	.00	.00	.00	.00	.00	.00	.00	21.42	457	.7
> 42		.00	14.20	17.91	3.56	.00	.00	.00	.00	.00	.00	.00	35.69		
TOTAL		.00	22.72	28.66	5.70	.00	.00	.00	.00	.00	.00	.00	57.11		
28-42	216	.00	5.58	13.98	8.19	1.80	.00	.00	.00	.00	.00	.00	29.57	9	.8
> 42		.00	2.94	7.37	4.32	.95	.00	.00	.00	.00	.00	.00	15.60		
TOTAL		.00	8.52	21.35	12.51	2.75	.00	.00	.00	.00	.00	.00	45.17		
28-42	252	.00	.00	35.59	.00	.00	.00	.00	.00	.00	.00	.00	35.59	2	.8
> 42		.00	.00	14.35	.00	.00	.00	.00	.00	.00	.00	.00	14.35		
TOTAL		.00	.00	49.94	.00	.00	.00	.00	.00	.00	.00	.00	49.94		
28-42	259	.00	.00	6.90	8.32	13.78	5.74	1.63	.00	.00	.00	.00	36.36	19	1.1
> 42		.00	.00	2.51	3.03	5.02	2.09	.59	.00	.00	.00	.00	13.26		
TOTAL		.00	.00	9.41	11.35	18.80	7.83	2.22	.00	.00	.00	.00	49.62		
28-42	266	.00	8.79	9.05	4.98	2.50	.23	.00	.00	.00	.00	.00	25.57	51	.7
> 42		.00	12.81	13.19	7.26	3.65	.33	.00	.00	.00	.00	.00	37.26		
TOTAL		.00	21.60	22.24	12.24	6.15	.56	.00	.00	.00	.00	.00	62.83		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

VIRGINIA

UNDERGROUND BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: WISE

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	328	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.19		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.19		
28-42	340	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.32	1.32		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.13		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.45	1.45		

COUNTY: TOTAL

28-42	.38	32.16	136.88	70.74	104.38	46.39	24.05	11.02	5.74	5.44	40.60	478.10	3386
> 42	.26	39.82	84.22	41.83	41.93	16.71	6.09	.85	.00	.00	6.56	238.50	
TOTAL	.64	71.98	221.10	112.57	146.31	63.10	30.14	11.87	5.74	5.44	47.16	716.60	

STATE TOTAL

28-42	18.28	283.18	457.66	355.96	485.74	145.78	57.70	21.88	11.83	10.00	134.54	1983.37	6949
> 42	33.07	197.72	188.86	141.32	134.54	63.78	15.41	5.95	2.81	2.03	63.77	849.87	
TOTAL	51.35	480.90	646.52	497.28	620.28	209.56	73.11	27.83	14.64	12.03	198.31	2833.24	

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)
(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: BUCHANAN

THICKNESS		RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 151															
DEEP	>28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4	.5
STRIP	>28	2.55	2.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.10		
TOTAL		2.55	2.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.10		
BED: 154															
DEEP	>28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
STRIP	>28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.23		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.23		
BED: 168															
DEEP	>28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
STRIP	>28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	29.91	29.91		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	29.91	29.91		
BED: 174															
DEEP	>28	.00	1.23	2.91	2.69	1.30	.05	.00	.00	.00	.00	.00	8.24	239	.9
STRIP	>28	.00	4.78	11.23	10.35	5.03	.25	.00	.00	.00	.00	.00	31.66		
TOTAL		.00	6.01	14.14	13.04	6.33	.30	.00	.00	.00	.00	.00	39.90		
BED: 176															
DEEP	>28	.00	.00	4.88	10.69	37.85	20.26	2.74	.00	.00	.00	.00	76.48	28	1.2
STRIP	>28	.00	.00	2.39	5.24	18.52	9.91	1.34	.00	.00	.00	.00	37.43		
TOTAL		.00	.00	7.27	15.93	56.37	30.17	4.08	.00	.00	.00	.00	113.91		
BED: 177															
DEEP	>28	.00	.00	.00	.17	.28	.00	.00	.00	.00	.00	.00	.46	3	1.1
STRIP	>28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL		.00	.00	.00	.17	.28	.00	.00	.00	.00	.00	.00	.46		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY, BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: BUCHANAN

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 185														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.64	13.64		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.64	13.64		
BED: 195														
DEEP >28	.00	.00	18.26	33.25	50.98	6.89	.00	.00	.00	.00	.00	109.40	5	1.0
STRIP >28	.00	.00	5.68	10.34	15.85	2.14	.00	.00	.00	.00	.00	34.02		
TOTAL	.00	.00	23.94	43.59	66.83	9.03	.00	.00	.00	.00	.00	143.42		
BED: 210														
DEEP >28	.00	30.56	68.39	81.16	63.37	6.75	.49	.00	.00	.00	.00	250.54	56	.9
STRIP >28	.00	7.72	17.28	20.51	16.01	1.70	.12	.00	.00	.00	.00	63.31		
TOTAL	.00	38.28	85.67	101.67	79.38	8.45	.61	.00	.00	.00	.00	313.85		
BED: 214														
DEEP >28	.00	.88	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88	3	.5
STRIP >28	.00	.55	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55		
TOTAL	.00	1.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.43		
BED: 216														
DEEP >28	.46	1.34	3.05	4.41	4.99	.77	.07	.00	.00	.00	.00	15.13	786	1.0
STRIP >28	.29	.83	1.89	2.73	3.09	.47	.04	.00	.00	.00	.00	9.37		
TOTAL	.75	2.17	4.94	7.14	8.08	1.24	.11	.00	.00	.00	.00	24.50		
BED: 252														
DEEP >28	.00	.00	26.00	64.22	106.77	.00	.00	.00	.00	.00	.00	197.01	13	1.1
STRIP >28	.00	.00	4.32	10.68	17.76	.00	.00	.00	.00	.00	.00	32.78		
TOTAL	.00	.00	30.32	74.90	124.53	.00	.00	.00	.00	.00	.00	229.79		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: BUCHANAN

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 266														
DEEP >28	.00	82.47	51.88	.00	.00	.00	.00	.00	.00	.00	.00	134.77	6	.6
STRIP >28	.00	7.37	4.61	.00	.00	.00	.00	.00	.00	.00	.00	11.99		
TOTAL	.00	90.24	56.49	.00	.00	.00	.00	.00	.00	.00	.00	146.76		
BED: 269														
DEEP >28	3.66	9.75	.00	.00	.00	.00	.00	.00	.00	.00	.00	13.43	5	.5
STRIP >28	.39	1.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.43		
TOTAL	4.05	10.78	.00	.00	.00	.00	.00	.00	.00	.00	.00	14.86		
COUNTY: TOTAL														
DEEP >28	4.12	126.63	175.37	196.59	265.54	34.72	3.30	.00	.00	.00	13.64	819.98	1148	
STRIP >28	3.23	24.83	47.40	59.85	76.26	14.47	1.50	.00	.00	.00	30.14	257.78		
TOTAL	7.35	151.46	222.77	256.44	341.80	49.19	4.80	.00	.00	.00	43.78	1077.76		
COUNTY: 051 DICKENSON														
BED: 165														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.36	2.36		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.36	2.36		
BED: 174														
DEEP >28	.00	.00	.29	.31	.13	.00	.00	.00	.00	.00	.00	.76	42	.8
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01		
TOTAL	.00	.00	.29	.31	.13	.00	.00	.00	.00	.00	.00	.77		
BED: 176														
DEEP >28	.00	.00	.00	.17	1.03	.32	.00	.00	.00	.00	.00	1.55	3	1.3
STRIP >28	.00	.00	.00	.61	3.53	1.12	.00	.00	.00	.00	.00	5.27		
TOTAL	.00	.00	.00	.78	4.56	1.44	.00	.00	.00	.00	.00	6.82		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED,
THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: DICKENSON

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 178														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.03		
BED: 185														
DEEP >28	.00	.00	.00	.03	.12	.00	.00	.00	.00	.00	.00	.16	6	1.2
STRIP >28	.00	.00	.00	.09	.33	.00	.00	.00	.00	.00	.00	.43		
TOTAL	.00	.00	.00	.12	.45	.00	.00	.00	.00	.00	.00	.59		
BED: 195														
DEEP >28	.00	.00	.00	.00	.00	.16	.59	.22	.00	.00	.00	.98	4	2.0
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.16	.59	.22	.00	.00	.00	.98		
BED: 210														
DEEP >28	.00	4.12	40.85	5.12	.15	.00	.00	.00	.00	.00	.00	50.25	263	.8
STRIP >28	.00	.10	1.06	.13	.00	.00	.00	.00	.00	.00	.00	1.31		
TOTAL	.00	4.22	41.91	5.25	.15	.00	.00	.00	.00	.00	.00	51.56		
BED: 214														
DEEP >28	5.37	37.61	63.26	14.16	1.70	.00	.00	.00	.00	.00	.00	122.14	835	.7
STRIP >28	1.76	12.32	20.72	4.64	.56	.00	.00	.00	.00	.00	.00	40.01		
TOTAL	7.13	49.93	83.98	18.80	2.26	.00	.00	.00	.00	.00	.00	162.15		
BED: 216														
DEEP >28	.00	5.42	16.24	10.92	2.79	.06	.00	.00	.00	.00	.00	35.48	43	.8
STRIP >28	.00	.67	2.01	1.35	.34	.00	.00	.00	.00	.00	.00	4.39		
TOTAL	.00	6.09	18.25	12.27	3.13	.06	.00	.00	.00	.00	.00	39.87		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: DICKENSON

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 252														
DEEP >28	.00	.00	12.88	23.26	35.91	6.59	.00	.00	.00	.00	.00	78.60	10	.8
STRIP >28	.00	.00	1.56	2.82	4.36	.80	.00	.00	.00	.00	.00	9.56		
TOTAL	.00	.00	14.44	26.08	40.27	7.39	.00	.00	.00	.00	.00	88.16		
BED: 259														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	92.14	92.14		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.73	.73		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	92.87	92.87		
BED: 266														
DEEP >28	.00	6.44	9.58	12.72	27.93	18.34	7.51	.00	.00	.00	.00	82.66	12	1.2
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	6.44	9.58	12.72	27.93	18.34	7.51	.00	.00	.00	.00	82.66		
BED: 269														
DEEP >28	10.31	38.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	48.43	7	.5
STRIP >28	.40	1.47	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.88		
TOTAL	10.71	39.57	.00	.00	.00	.00	.00	.00	.00	.00	.00	50.31		
COUNTY: TOTAL														
DEEP >28	15.68	91.69	143.10	66.69	69.76	25.47	8.10	.22	.00	.00	94.53	515.54	1225	
STRIP >28	2.16	14.56	25.35	9.64	9.12	1.92	.00	.00	.00	.00	.73	63.59		
TOTAL	17.84	106.25	168.45	76.33	78.88	27.39	8.10	.22	.00	.00	95.26	579.13		
COUNTY: 105 LEE														
BED: 104														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2	1.0
STRIP >28	.00	.00	.44	.80	.44	.00	.00	.00	.00	.00	.00	1.70		
TOTAL	.00	.00	.44	.80	.44	.00	.00	.00	.00	.00	.00	1.70		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

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Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY LEE

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 111														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.50	3.50		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.50	3.50		
BED: 127														
DEEP >28	.00	.00	.36	.00	.00	.00	.00	.00	.00	.00	.00	.36	1	.8
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.36	.00	.00	.00	.00	.00	.00	.00	.00	.36		
BED: 133														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.63	1.63		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.63	1.63		
BED: 135														
DEEP >28	.00	.00	2.51	1.69	.00	.00	.00	.00	.00	.00	.00	4.22	28	.8
STRIP >28	.00	.00	2.69	1.81	.00	.00	.00	.00	.00	.00	.00	4.51		
TOTAL	.00	.00	5.20	3.50	.00	.00	.00	.00	.00	.00	.00	8.73		
BED: 142														
DEEP >28	.00	.44	.65	.90	2.52	2.80	2.06	1.10	.49	.28	.00	11.31	26	1.3
STRIP >28	.00	.28	.41	.57	1.61	1.79	1.31	.70	.31	.17	.00	7.19		
TOTAL	.00	.72	1.06	1.47	4.13	4.59	3.37	1.80	.80	.45	.00	18.50		
BED: 151														
DEEP >28	1.36	7.37	1.80	.11	.00	.00	.00	.00	.00	.00	.00	10.70	240	.6
STRIP >28	2.33	12.39	3.03	.19	.00	.00	.00	.00	.00	.00	.00	17.97		
TOTAL	3.71	19.76	4.83	.30	.00	.00	.00	.00	.00	.00	.00	28.67		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: LEE

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 152														
DEEP >28	.00	1.33	1.33	.00	.00	.00	.00	.00	.00	.00	.00	2.66	2	.7
STRIP >28	.00	.88	.88	.00	.00	.00	.00	.00	.00	.00	.00	1.76		
TOTAL	.00	2.21	2.21	.00	.00	.00	.00	.00	.00	.00	.00	4.42		
BED: 157														
DEEP >28	.00	1.83	2.71	3.85	12.19	18.24	19.47	14.64	8.41	6.31	.00	87.74	22	1.7
STRIP >28	.00	.39	.58	.82	2.61	3.90	4.17	3.13	1.80	1.35	.00	18.79		
TOTAL	.00	2.22	3.29	4.67	14.79	22.14	23.64	17.77	10.21	7.66	.00	106.53		
BED: 160														
DEEP >28	.00	.19	.33	.52	1.33	.85	.28	.00	.00	.00	.00	3.52	3	1.1
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.19	.33	.52	1.33	.85	.28	.00	.00	.00	.00	3.52		
BED: 161														
DEEP >28	.00	.00	.00	.00	.00	.00	4.58	.00	.00	.00	.00	4.58	1	2.1
STRIP >28	.00	.00	.00	.00	.00	.00	.90	.00	.00	.00	.00	.90		
TOTAL	.00	.00	.00	.00	.00	.00	5.48	.00	.00	.00	.00	5.48		
BED: 164														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88	.88		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88	.88		
BED: 165														
DEEP >28	.00	.00	3.81	2.38	.00	.00	.00	.00	.00	.00	.00	6.20	3	.8
STRIP >28	.00	.00	1.83	1.15	.00	.00	.00	.00	.00	.00	.00	2.99		
TOTAL	.00	.00	5.64	3.53	.00	.00	.00	.00	.00	.00	.00	9.19		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: LEE

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 168														
DEEP >28	.00	.00	3.54	4.62	8.89	4.46	.91	.00	.00	.00	.00	22.48	11	1.1
STRIP >28	.00	.00	.43	.57	1.10	.55	.11	.00	.00	.00	.00	2.78		
TOTAL	.00	.00	3.97	5.19	9.99	5.01	1.02	.00	.00	.00	.00	25.26		
BED: 174														
DEEP >28	.00	.00	.00	.00	.00	11.13	.00	.00	.00	.00	.00	11.13	1	1.7
STRIP >28	.00	.00	.00	.00	.00	.85	.00	.00	.00	.00	.00	.85		
TOTAL	.00	.00	.00	.00	.00	11.98	.00	.00	.00	.00	.00	11.98		
COUNTY: TOTAL														
DEEP >28	1.38	11.16	17.04	14.07	24.92	37.48	27.30	15.74	8.90	6.59	2.51	167.41	340	
STRIP >28	2.33	13.94	10.29	5.91	5.76	7.09	6.49	3.83	2.11	1.52	3.50	62.94		
TOTAL	3.71	25.10	27.33	19.98	30.68	44.57	33.79	19.57	11.01	8.11	6.01	230.35		
COUNTY: 167 RUSSELL														
BED: 214														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	189	.6
STRIP >28	1.05	7.92	1.37	.06	.00	.00	.00	.00	.00	.00	.00	10.41		
TOTAL	1.05	7.92	1.37	.06	.00	.00	.00	.00	.00	.00	.00	10.43		
BED: 216														
DEEP >28	.00	1.39	2.27	.47	.04	.00	.00	.00	.00	.00	.00	4.22	219	.7
STRIP >28	.00	7.69	12.54	2.64	.30	.00	.00	.00	.00	.00	.00	23.18		
TOTAL	.00	9.08	14.81	3.11	.34	.00	.00	.00	.00	.00	.00	27.40		
BED: 252														
DEEP >28	.00	.00	7.77	13.51	37.54	22.40	4.27	.00	.00	.00	.00	85.54	24	1.2
STRIP >28	.00	.00	1.47	2.56	7.11	4.24	.81	.00	.00	.00	.00	16.21		
TOTAL	.00	.00	9.24	16.07	44.65	26.64	5.08	.00	.00	.00	.00	101.75		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: RUSSELL

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 259														
DEEP >28	.00	9.03	16.86	4.82	.00	.00	.00	.00	.00	.00	.00	30.73	16	.7
STRIP >28	.00	.29	.55	.15	.00	.00	.00	.00	.00	.00	.00	1.01		
TOTAL	.00	9.32	17.41	4.97	.00	.00	.00	.00	.00	.00	.00	31.74		
BED: 266														
DEEP >28	.00	25.56	37.42	42.43	59.85	20.19	.00	.00	.00	.00	.00	185.31	12	.9
STRIP >28	.00	.24	.35	.40	.56	.19	.00	.00	.00	.00	.00	1.75		
TOTAL	.00	25.80	37.77	42.83	60.41	20.38	.00	.00	.00	.00	.00	187.06		
BED: 269														
DEEP >28	26.91	57.73	.00	.00	.00	.00	.00	.00	.00	.00	.00	84.66	12	.5
STRIP >28	.04	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15		
TOTAL	26.95	57.83	.00	.00	.00	.00	.00	.00	.00	.00	.00	84.81		
BED: 340														
DEEP >28	.00	12.54	.00	.00	.00	.00	.00	.00	.00	.00	.00	12.54	1	.5
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	12.54	.00	.00	.00	.00	.00	.00	.00	.00	.00	12.54		
COUNTY: TOTAL														
DEEP >28	26.91	106.25	64.32	61.23	97.43	42.59	4.27	.00	.00	.00	.00	403.02	473	
STRIP >28	1.09	16.24	16.28	5.81	7.97	4.43	.81	.00	.00	.00	.00	52.71		
TOTAL	28.00	122.49	80.60	67.04	105.40	47.02	5.08	.00	.00	.00	.00	455.73		
COUNTY: 169 SCOTT														
BED: 328														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.94	1.94		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.94	1.94		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: SCOTT

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 329														
DEEP >28	.00	.00	.00	3.60	.00	.00	.00	.00	.00	.00	.00	3.60	1	.9
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	3.60	.00	.00	.00	.00	.00	.00	.00	3.60		
BED: 331														
DEEP >28	.00	.00	.00	.00	.00	1.18	.00	.00	.00	.00	.00	1.18	1	1.6
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	1.18	.00	.00	.00	.00	.00	1.18		
BED: 332														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.58	3.58		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.58	3.58		
BED: 340														
DEEP >28	.00	.00	.00	34.35	.00	.00	.00	.00	.00	.00	.00	34.35	2	.9
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	34.35	.00	.00	.00	.00	.00	.00	.00	34.35		
COUNTY: TOTAL														
DEEP >28	.00	.00	.00	37.95	.00	1.18	.00	.00	.00	.00	5.52	44.65	4	
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	37.95	.00	1.18	.00	.00	.00	.00	5.52	44.65		
COUNTY: 185 TAZEWELL														
BED: 232														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.10	3.10		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.10	3.10		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: TAZEWELL

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 252														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2	1.0
STRIP >28	.00	.00	.00	4.55	.00	.00	.00	.00	.00	.00	.00	4.55		
TOTAL	.00	.00	.00	4.55	.00	.00	.00	.00	.00	.00	.00	4.55		
BED: 259														
DEEP >28	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.02	271	.7
STRIP >28	.00	5.56	12.64	2.56	.23	.00	.00	.00	.00	.00	.00	21.00		
TOTAL	.00	5.56	12.65	2.56	.23	.00	.00	.00	.00	.00	.00	21.02		
BED: 266														
DEEP >28	.00	33.50	8.01	.00	.00	.00	.00	.00	.00	.00	.00	41.53	8	.5
STRIP >28	.00	4.65	1.11	.00	.00	.00	.00	.00	.00	.00	.00	5.77		
TOTAL	.00	38.15	9.12	.00	.00	.00	.00	.00	.00	.00	.00	47.30		
BED: 269														
DEEP >28	.00	1.59	2.65	3.20	4.24	1.12	.00	.00	.00	.00	.00	12.83	8	1.0
STRIP >28	.00	.41	.69	.84	1.11	.29	.00	.00	.00	.00	.00	3.37		
TOTAL	.00	2.00	3.34	4.04	5.35	1.41	.00	.00	.00	.00	.00	16.20		
BED: 271														
DEEP >28	1.06	7.72	1.06	.00	.00	.00	.00	.00	.00	.00	.00	9.85	14	.5
STRIP >28	.21	1.55	.21	.00	.00	.00	.00	.00	.00	.00	.00	1.98		
TOTAL	1.27	9.27	1.27	.00	.00	.00	.00	.00	.00	.00	.00	11.83		
BED: 274														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.66	3.66		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.71		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.37	4.37		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: TAZEWELL

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 275														
DEEP >28	.00	.00	.00	1.12	.00	.00	.00	.00	.00	.00	.00	1.12	3	1.0
STRIP >28	.00	.00	.00	.37	.00	.00	.00	.00	.00	.00	.00	.37		
TOTAL	.00	.00	.00	1.49	.00	.00	.00	.00	.00	.00	.00	1.49		
BED: 285														
DEEP >28	.00	.00	.00	3.86	12.08	3.90	.00	.00	.00	.00	.00	19.88	7	1.2
STRIP >28	.00	.00	.00	.25	.80	.26	.00	.00	.00	.00	.00	1.32		
TOTAL	.00	.00	.00	4.11	12.88	4.16	.00	.00	.00	.00	.00	21.20		
BED: 293														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.98	9.98		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.32	1.32		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.30	11.30		
BED: 302														
DEEP >28	.00	4.23	4.23	.00	.00	.00	.00	.00	.00	.00	.00	8.47	2	.7
STRIP >28	.00	1.75	1.75	.00	.00	.00	.00	.00	.00	.00	.00	3.50		
TOTAL	.00	5.98	5.98	.00	.00	.00	.00	.00	.00	.00	.00	11.97		
BED: 304														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.46	2.46		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.46	2.46		
BED: 311														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	16.43	16.43		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.97	.97		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	17.40	17.40		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: TAZEWELL

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 319														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.42	2.42		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.59	.59		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.01	3.01		
BED: 341														
DEEP >28	.00	9.61	6.27	.00	.00	.00	.00	.00	.00	.00	.00	15.90	23	.6
STRIP >28	.00	.23	.15	.00	.00	.00	.00	.00	.00	.00	.00	.39		
TOTAL	.00	9.84	6.42	.00	.00	.00	.00	.00	.00	.00	.00	16.29		
BED: 342														
DEEP >28	.00	9.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.50	2	.5
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	9.50	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.50		
BED: 344														
DEEP >28	1.56	7.04	3.36	.00	.00	.00	.00	.00	.00	.00	.00	11.99	41	.6
STRIP >28	.04	.22	.10	.00	.00	.00	.00	.00	.00	.00	.00	.38		
TOTAL	1.60	7.26	3.46	.00	.00	.00	.00	.00	.00	.00	.00	12.37		
COUNTY: TOTAL														
DEEP >28	2.62	73.19	25.59	8.18	16.32	5.02	.00	.00	.00	.00	34.95	166.04	381	
STRIP >28	.25	14.37	16.65	8.57	2.14	.55	.00	.00	.00	.00	6.69	49.32		
TOTAL	2.87	87.56	42.24	16.75	18.46	5.57	.00	.00	.00	.00	41.64	215.36		
COUNTY: 195 WISE														
BED: 104														
DEEP >28	.00	.15	.20	.04	.00	.00	.00	.00	.00	.00	.00	.41	232	.7
STRIP >28	.00	.67	.91	.19	.02	.00	.00	.00	.00	.00	.00	1.81		
TOTAL	.00	.82	1.11	.23	.02	.00	.00	.00	.00	.00	.00	2.22		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: WISE

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 111														
DEEP >28	.00	7.53	5.10	.00	.00	.00	.00	.00	.00	.00	.00	12.65	39	.7
STRIP >28	.00	6.18	4.18	.00	.00	.00	.00	.00	.00	.00	.00	10.37		
TOTAL	.00	13.71	9.28	.00	.00	.00	.00	.00	.00	.00	.00	23.02		
BED: 126														
DEEP >28	.00	.00	7.45	15.30	22.57	2.43	.00	.00	.00	.00	.00	47.84	27	1.0
STRIP >28	.00	.00	2.52	5.17	7.62	.82	.00	.00	.00	.00	.00	16.16		
TOTAL	.00	.00	9.97	20.47	30.19	3.25	.00	.00	.00	.00	.00	64.00		
BED: 142														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	35.12	35.12		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.63	5.63		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	40.75	40.75		
BED: 151														
DEEP >28	.64	8.03	26.83	5.11	.00	.00	.00	.00	.00	.00	.00	40.61	140	.7
STRIP >28	.18	2.33	7.79	1.48	.00	.00	.00	.00	.00	.00	.00	11.80		
TOTAL	.82	10.36	34.62	6.59	.00	.00	.00	.00	.00	.00	.00	52.41		
BED: 152														
DEEP >28	.00	1.55	2.15	2.93	8.61	11.78	12.14	9.39	5.74	5.44	.00	59.82	16	1.2
STRIP >28	.00	.15	.21	.29	.86	1.18	1.22	.94	.57	.54	.00	6.01		
TOTAL	.00	1.70	2.36	3.22	9.47	12.96	13.36	10.33	6.31	5.98	.00	65.83		
BED: 157														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	10.40	10.40		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	10.40	10.40		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: WISE

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 165														
DEEP >28	.00	.00	7.21	22.09	5.75	.00	.00	.00	.00	.00	.00	35.07	16	.9
STRIP >28	.00	.00	9.26	28.33	7.37	.00	.00	.00	.00	.00	.00	44.98		
TOTAL	.00	.00	16.47	50.42	13.12	.00	.00	.00	.00	.00	.00	80.05		
BED: 168														
DEEP >28	.00	1.80	29.85	1.80	.03	.00	.00	.00	.00	.00	.00	33.55	2294	.7
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	1.80	29.85	1.80	.03	.00	.00	.00	.00	.00	.00	33.55		
BED: 174														
DEEP >28	.00	.00	6.50	8.01	16.61	11.04	4.99	.00	.00	.00	.00	47.20	12	1.2
STRIP >28	.00	.00	4.94	6.08	12.60	8.37	3.79	.00	.00	.00	.00	35.81		
TOTAL	.00	.00	11.44	14.09	29.21	19.41	8.78	.00	.00	.00	.00	83.01		
BED: 177														
DEEP >28	.00	.08	.20	.28	.18	.00	.00	.00	.00	.00	.00	.77	27	.9
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.08	.20	.28	.18	.00	.00	.00	.00	.00	.00	.77		
BED: 178														
DEEP >28	.00	.00	.98	1.70	5.51	4.59	1.74	.00	.00	.00	.00	14.55	3	1.4
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.98	1.70	5.51	4.59	1.74	.00	.00	.00	.00	14.55		
BED: 185														
DEEP >28	.00	.00	3.03	5.58	20.80	21.16	9.05	2.48	.00	.00	.00	62.10	28	1.4
STRIP >28	.00	.00	.87	1.61	5.99	6.10	2.61	.71	.00	.00	.00	17.89		
TOTAL	.00	.00	3.90	7.19	26.79	27.26	11.66	3.19	.00	.00	.00	79.99		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: WISE

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 189														
DEEP >28	.00	.00	.00	7.93	38.55	3.71	.00	.00	.00	.00	.00	50.20	14	1.2
STRIP >28	.00	.00	.00	1.70	8.27	.79	.00	.00	.00	.00	.00	10.78		
TOTAL	.00	.00	.00	9.63	46.82	4.50	.00	.00	.00	.00	.00	60.98		
BED: 214														
DEEP >28	.00	22.72	28.66	5.70	.00	.00	.00	.00	.00	.00	.00	57.11	457	.7
STRIP >28	.00	4.70	5.92	1.18	.00	.00	.00	.00	.00	.00	.00	11.81		
TOTAL	.00	27.42	34.58	6.88	.00	.00	.00	.00	.00	.00	.00	68.92		
BED: 216														
DEEP >28	.00	8.52	21.35	12.51	2.75	.00	.00	.00	.00	.00	.00	45.17	9	.8
STRIP >28	.00	1.08	2.70	1.58	.34	.00	.00	.00	.00	.00	.00	5.72		
TOTAL	.00	9.60	24.05	14.09	3.09	.00	.00	.00	.00	.00	.00	50.89		
BED: 252														
DEEP >28	.00	.00	49.94	.00	.00	.00	.00	.00	.00	.00	.00	49.94	2	.8
STRIP >28	.00	.00	4.93	.00	.00	.00	.00	.00	.00	.00	.00	4.93		
TOTAL	.00	.00	54.87	.00	.00	.00	.00	.00	.00	.00	.00	54.87		
BED: 259														
DEEP >28	.00	.00	9.41	11.35	18.80	7.83	2.22	.00	.00	.00	.00	49.62	19	1.1
STRIP >28	.00	.00	.99	1.20	1.98	.82	.23	.00	.00	.00	.00	5.25		
TOTAL	.00	.00	10.40	12.55	20.78	8.65	2.45	.00	.00	.00	.00	54.87		
BED: 266														
DEEP >28	.00	21.60	22.24	12.24	6.15	.56	.00	.00	.00	.00	.00	62.83	51	.7
STRIP >28	.00	1.35	1.39	.77	.38	.03	.00	.00	.00	.00	.00	3.95		
TOTAL	.00	22.95	23.63	13.01	6.53	.59	.00	.00	.00	.00	.00	66.78		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

BITUMINOUS COAL RESERVE BASE BY STATE, COUNTY, BED, THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: WISE

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 328														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.19		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.19		
BED: 340														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.45	1.45		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.45	1.45		
COUNTY: TOTAL														
DEEP >28	.64	71.08	221.10	112.57	146.31	63.10	30.14	11.87	5.74	5.44	47.16	716.60	3386	
STRIP >28	.18	16.46	46.61	49.58	45.43	18.11	7.85	1.65	.57	.54	5.63	192.90		
TOTAL	.82	88.44	267.71	162.15	191.74	81.21	37.99	13.52	6.31	5.98	52.79	909.50		
STATE TOTAL														
DEEP >28	51.35	480.90	646.52	497.28	620.28	209.56	73.11	27.83	14.64	12.03	198.31	2833.24	6957	
STRIP >28	9.24	100.40	162.58	139.36	146.68	46.57	16.65	5.48	2.68	2.06	46.69	679.24		
TOTAL	60.59	581.30	809.10	636.64	766.96	256.13	89.76	33.31	17.32	14.09	245.00	3512.48		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

Anthracite Coalbed Code Numbers
(Used in USBM Inf. Circ. 8655 and 8680)

376 Gunton, Merrimac (Upper Bench), No. 1

377 Brushy Mountain, Merrimac

378 Clark, Merrimac (Lower Bench), No. 2

379 Langhorne, No. 3

VIRGINIA

UNDERGROUND ANTHRACITE RESERVE BASE BY STATE, COUNTY, BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: MONTGOMERY

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
28-42	001	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.00	4.00		
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	16.23	16.23		
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.23	20.23		
28-42	377	.32	1.37	2.52	1.22	.00	.00	.00	.00	.00	.00	.00	5.45	158	.8
> 42		2.82	11.86	21.79	10.59	.00	.00	.00	.00	.00	.00	.00	47.08		
TOTAL		3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	.00	52.53		

COUNTY: TOTAL

28-42	.32	1.37	2.52	1.22	.00	.00	.00	.00	.00	.00	4.00	9.45	158	
> 42	2.82	11.86	21.79	10.59	.00	.00	.00	.00	.00	.00	16.23	63.31		
TOTAL	3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	20.23	72.76		

COUNTY: 155 PULASKI

28-42	001	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.19	1.19	
> 42		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	63.54	63.54	
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.73	64.73	

COUNTY: TOTAL

28-42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.19	1.19		
> 42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	63.54	63.54		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.73	64.73		

COUNTY: 197 WYTHE

COUNTY: TOTAL

28-42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
> 42	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

UNDERGROUND ANTHRACITE RESERVE BASE BY STATE, COUNTY,
BED, THICKNESS AND SULFUR RANGE - JANUARY 1, 1974
MILLION SHORT TONS

COUNTY: WYTHE

THICK NESS	BED	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO.OF ANAL	AVG S %
STATE TOTAL															
28-42		.32	1.37	2.52	1.22	.00	.00	.00	.00	.00	.00	5.19	10.64	158	
> 42		2.82	11.86	21.79	10.59	.00	.00	.00	.00	.00	.00	79.77	126.85		
TOTAL		3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	84.96	137.49		

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

Data from U.S.B.M. Inf. Circular 8655.

VIRGINIA

ANTHRACITE RESERVE BASE BY STATE, COUNTY, BED,
THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: MONTGOMERY

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT < .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
BED: 001														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.23	20.23		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20.23	20.23		
BED: 377														
DEEP >28	3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	.00	52.53	158	.8
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	.00	52.53		
COUNTY: TOTAL														
DEEP >28	3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	20.23	72.76	158	
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	20.23	72.76		
COUNTY: 155 PULASKI														
BED: 001														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.73	64.73		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.73	64.73		
COUNTY: TOTAL														
DEEP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.73	64.73		
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	64.73	64.73		
COUNTY: 155 PULASKI														

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

VIRGINIA

ANTHRACITE RESERVE BASE BY STATE, COUNTY, BED,
THICKNESS, TYPE OF MINING, AND SULFUR RANGE - JANUARY 1, 1974
(MILLION SHORT TONS)

COUNTY: PULASKI

THICKNESS	RESERVES BY SULFUR RANGE, PERCENT ≤ .4	.5-.6	.7-.8	.9-1.0	1.1-1.4	1.5-1.8	1.9-2.2	2.3-2.6	2.7-3.0	> 3.0	UNKNOWN	TOTAL	NO. OF ANAL	AVG S %
STATE TOTAL														
DEEP >28	3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	84.96	137.49	158	
STRIP >28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
TOTAL	3.14	13.23	24.31	11.81	.00	.00	.00	.00	.00	.00	84.96	137.49		

(INCLUDES ONLY COAL FROM MEASURED AND INDICATED CATEGORIES OF RELIABILITY)

(DISTRIBUTION MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING)

Data from U.S.B.M. Inf. Circular 8680

ANALYSES

ANALYSES OF SOME VIRGINIA COALS

Southwest Field

Source	Coal Bed	% Moisture	% Ash	% Sulfur	% Volatile Matter	% Fixed Carbon	BTU
2	Low Splint	2.3	6.0	0.9	38.2	53.5	13,720
1	Taggart	1.5 - 4.3	1.7 - 4.6	0.4 - 0.8	32.8 - 38.4	55.4 - 61.6	13,720 - 14,810
2	Kelly	4.93	8.32	0.72	—	—	13,119
1, 2	Imboden	1.8 - 3.0	1.2 - 10.2	0.6 - 0.9	33.0 - 38.0	53.6 - 61.3	13,230 - 14,450
1, 2, 3	Clintwood	1.0 - 6.01	2.2 - 11.52	0.56 - 1.7	30.87 - 38.5	55.22 - 61.9	12,295 - 14,530
3	Eagle	1.0 - 1.2	6.9 - 9.3	0.8 - 2.0	30.6 - 32.2	60.1 - 60.9	13,870 - 14,330
2, 3	Blair	1.0 - 3.1	4.4 - 14.2	0.96 - 1.2	29.4 - 32.3	56.4 - 63.3	13,040 - 14,750
1	Dorchester	2.0 - 5.3	4.1 - 10.2	0.8 - 2.6	31.8 - 36.1	53.4 - 59.7	13,270 - 14,380
2, 3	Hagy	0.7 - 4.86	7.85 - 12.7	0.9 - 1.4	29.9 - 31.0	56.29 - 57.4	13,378 - 13,460
3	Splash Dam	0.8	5.3 - 14.8	0.8 - 1.0	28.0 - 33.7	57.2 - 65.0	13,150 - 14,730
1	Upper Banner	1.6 - 3.9	4.1 - 14.4	0.5 - 1.3	30.4 - 37.4	51.9 - 63.1	12,600 - 14,690
1, 3	Lower Banner	0.5 - 8.1	5.6 - 11.2	0.6 - 1.8	21.4 - 36.6	54.6 - 69.5	13,030 - 14,370
3	Kennedy	0.7 - 1.0	3.9 - 6.1	1.0 - 1.3	23.1 - 27.5	68.6 - 70.8	14,640 - 14,890
3	Raven	0.4 - 1.1	3.8 - 4.6	0.5 - 1.1	21.3 - 31.3	64.7 - 74.6	14,920 - 15,190
1	Tiller	1.8 - 3.0	6.1 - 8.9	0.4 - 0.6	30.6 - 32.5	57.4 - 60.3	13,500 - 14,180
3	Pocahontas #3	0.4	4.6	0.6	17.3	75.1	14,420

Source: See following page.

Valley Fields

Source	Coal Bed	% Moisture	% Ash	% Sulfur	% Volatile matter	% Fixed Carbon	BTU
1	Merrimac	1.2 - 4.8	14.1 - 24.6	0.5 - 0.8	8.8 - 12.9	61.4 - 74.6	11,250 - 12,880
1	Langhorne	2.9 - 4.7	12.8 - 19.6	0.3 - 1.1	9.8 - 12.3	66.7 - 72.0	11,850 - 12,890

Source:

1 "Coal Resources of Virginia," U. S. Geological Survey Circular 171, 1952.

2 Company data

3 "Analyses of Tipple and Delivered Samples of Coal Collected During Fiscal Year 1966," U. S. Bureau of Mines, R.I. 6904, 1967.

Bituminous Coalbed Code Numbers
(Used in USBM Inf. Circ. 8655)

001 Various

104 High Splint, No. 12

111 Cornett, Morris, No. 11

126 Limestone, No. 10, Pardee, Parsons, Smith

127 High Cliff, No. 9, Wax

133 Gin Creek, No. 8

135 Dean, Fire Clay, No. 7, Phillips

142 Buck Knob, Creveling, Low Splint, Mason, No. 6

151 C, Cedar Grove, Darby, Darby No. 5, Keokee, No. 5, Red Jacket, Roda, Taggart, Thacker, Upper Thacker

152 B, Dendron, Marker, Taggart Marker

154 Lower Cedar Grove, Lower Thacker

155 Kirk, No. 4

157 Alma, Harlan, Jackrock, No. 3, Puckett Creek, Upper Standiford, Wilson

160 Lower Standiford, No. 2-A, Upper St. Charles

161 Lower St. Charles, No. 2

164 Meadow, Pinhook

165 Five Foot, Kelly, Upper Bolling

166 Stone Creek

167 Campbell Creek Peerless

168 Burnwell, Campbell Creek, Freeburn, Imboden, Lower Bolling, Lower Campbell Creek, Lower Elkhorn, Lower Marrowbone, No. 1, No. 2 Gas, Pond Creek, Upper War Eagle, Warfield

171 Rocky Fork

172 Addington

174 Big Dorchester, Clintwood, Feds Creek, Matewan, North Fork, Norton No. 8

176 Eagle, Middle War Eagle, Mohawk

177 Bends Creek, Bentley, Blair

178 Lyons, Thompson

185 Big Dirt Seam, Dorchester, Esserville, Gladeville, Glamorgan, Haskell No. 3, Marcee, Norton No. 2

189 Middle Norton, Norton, Yellow Creek

195 Hagy, Lower War Eagle

210 Edwards, Splash Dam

214 Upper Banner

216 Cary, Gilbert, Lower Banner

232 Big Fork

250 Caldwell

252 Douglas, Harris, Kennedy, Widow Kennedy

253 Aily

259 Garden Hole, Jewell, Jewell Ridge, Lower Douglas, No. 6, Raven, Raven Red Ash, Red Ash

266 Iaeger, Jawbone, Lower Jewell, No. 5, Ratliff, Shannon

268 Jawbone-Tiller, Thick Tiller (Tiller and Jawbone)

269 Hogwallow, Lower Iaeger, No. 4, Tiller

271 Upper Seaboard

274 Greasy Creek, Sewell B

275 Middle Seaboard

285 Lower Seaboard, Sewell

293 Smith, Upper Horsepen, Welch

302 Little Raleigh, Middle Horsepen

304 C

311 Beckley, War Creek

319 Little Fire Creek, Lower Horsepen

323 Pocahontas No. 9

324 Pocahontas No. 8

325 Pocahontas No. 7

328 Cove Creek

329 Duncan, Egan

330 Carter

331 Milner, Tacus

332 Starns

334 Pocahontas No. 6

340 Burton's Ford

341 Pocahontas No. 5

342 Pocahontas No. 4

344 Pocahontas No. 3

357 Pocahontas No. 2

359 Pocahontas No. 1

799 Uncorrelated

Coalbed code numbers between 850 and 999 represent combinations of two coalbeds that are mined simultaneously.

Anthracite Coalbed Code Numbers
(Used in USBM Inf. Circ. 8655)

376 Gunton, Merrimac (Upper Bench), No. 1

377 Brushy Mountain, Merrimac

378 Clark, Merrimac (Lower Bench), No. 2

379 Langhorne, No. 3

AVERAGE ANALYSES OF COAL BY STATE, COUNTY, AND BED

VIRGINIA

COUNTY	BED	MOISTURE A.R.	ASH A.R.	ASH DRY	SULFUR A.R.	SULFUR DRY	SULFUR M&AF	BTU A.R.	BTU DRY	BTU M&AF	NO. OF ANAL
BUCHANAN	001	3.1	8.3	8.6	.9	1.0	1.0	13,650	14,100	15,420	1152
	151	3.2	4.6	4.8	.3	.4	.4	14,150	14,620	15,360	4
	174	2.4	6.6	6.8	.7	.8	.8	14,000	14,340	15,390	239
	176	2.5	6.3	6.5	1.1	1.2	1.2	14,120	14,480	15,490	28
	177	3.4	9.0	9.4	1.0	1.1	1.2	13,410	13,880	15,320	3
	195	2.3	7.5	7.7	.9	1.0	1.0	13,950	14,280	15,470	5
	210	3.0	7.6	7.9	.7	.8	.8	13,860	14,300	15,530	56
	214	3.2	5.6	5.8	.4	.5	.5	14,080	14,540	15,440	3
	216	3.4	8.9	9.3	.9	1.0	1.1	13,650	14,130	15,580	786
	252	2.5	5.6	5.8	.9	1.0	1.0	14,330	14,700	15,600	13
	259	3.3	5.2	5.4	.5	.6	.6	14,360	14,850	15,690	101
	266	2.2	11.7	12.0	.5	.6	.6	13,110	13,400	15,230	6
	269	2.4	7.0	7.2	.4	.5	.5	13,920	14,260	15,370	5
	344			7.6		.6	.6		14,420	15,610	1
	890	3.3	6.7	7.0	1.1	1.2	1.2	13,860	14,330	15,410	1
	931	4.8	9.8	10.3	1.0	1.1	1.2	13,220	13,890	15,480	1
	969	4.9	6.8	7.2	.7	.8	.8	13,660	14,360	15,470	1
	971	1.9	3.0	3.1	.5	.6	.6	14,950	15,240	15,730	3
	988	3.0	5.9	6.1	.7	.8	.8	14,150	14,600	15,550	4
COUNTY AVERAGE		3.1	8.2	8.5	.8	.9	.9	13,720	14,180	15,490	2412
DICKENSON	001	1.8	8.9	9.1	.6	.7	.7	13,820	14,090	15,500	125
	174	3.7	5.5	5.8	.7	.8	.8	13,880	14,420	15,300	42
	176	2.8	7.7	8.0	1.2	1.3	1.4	13,950	14,350	15,600	3
	177	2.0	5.5	5.7	.6	.7	.7	14,210	14,500	15,380	1
	185	2.7	7.5	7.8	1.0	1.1	1.1	14,150	14,540	15,770	6
	195	2.3	8.1	8.3	1.8	1.9	2.0	13,880	14,210	15,500	4
	210	2.7	10.0	10.3	.6	.7	.7	13,440	13,820	15,400	264
	214	1.8	7.5	7.7	.6	.7	.7	14,040	14,320	15,510	836
	216	2.4	7.0	7.2	.7	.8	.8	14,020	14,360	15,480	43
	252	2.7	7.8	8.1	.7	.8	.8	13,890	14,270	15,530	10
	266	2.1	15.8	16.2	1.0	1.1	1.3	12,370	12,640	15,080	12
	269	2.3	7.4	7.6	.4	.5	.5	14,190	14,520	15,720	7
	868	1.8	5.2	5.4	.6	.7	.7	14,410	14,690	15,530	1
	869	2.6	11.9	12.3	.7	.8	.9	13,260	13,610	15,520	1
	921	3.1	8.5	8.8	.7	.8	.8	13,690	14,140	15,500	47
	987	2.5	10.6	10.9	1.8	1.9	2.1	13,250	13,590	15,250	1
COUNTY AVERAGE		2.1	8.2	8.4	.6	.7	.7	13,890	14,190	15,490	1403
LEE	001	4.9	9.2	9.7	1.0	1.1	1.2	12,680	13,330	14,760	241
	104	4.9	5.0	5.3	.8	.9	.9	13,520	14,220	15,010	2

Data from U.S.B.M. Inf. Circular 8655.

AVERAGE ANALYSES OF COAL BY STATE, COUNTY, AND BED

VIRGINIA

COUNTY	BED	MOISTURE A.R.	ASH A.R.	ASH DRY	SULFUR A.R.	SULFUR DRY	SULFUR M&AF	BTU A.R.	BTU DRY	BTU M&AF	NO. OF ANAL
LEE	126	3.5	8.3	8.7	.7	.8	.8	13,110	13,580	14,880	33
	127	4.4	5.9	6.2	.7	.8	.8	13,360	13,980	14,900	1
	135	2.9	8.3	8.6	.7	.8	.8	13,160	13,560	14,830	28
	142	2.9	7.7	8.0	1.1	1.2	1.3	13,320	13,720	14,910	26
	151	3.4	4.4	4.6	.4	.5	.5	13,840	14,320	15,010	240
	152	2.3	2.7	2.8	.6	.7	.7	14,540	14,890	15,310	2
	157	3.6	5.3	5.5	1.6	1.7	1.7	13,710	14,220	15,050	22
	160	3.2	8.9	9.2	1.0	1.1	1.2	12,980	13,410	14,770	3
	161	2.8	5.6	5.8	2.0	2.1	2.2	13,550	13,940	14,800	1
	165	3.2	6.4	6.7	.7	.8	.8	13,550	14,000	15,010	3
	166	3.0	4.5	4.7	1.8	1.9	1.9	13,660	14,090	14,790	1
	168	2.9	5.7	5.9	1.0	1.1	1.1	13,690	14,090	14,980	11
	174	3.2	2.1	2.2	1.6	1.7	1.7	14,060	14,520	14,850	1
	185	3.5	12.2	12.7	2.3	2.4	2.7	12,470	12,920	14,800	1
	866	2.6	8.4	8.7	.7	.8	.8	13,250	13,610	14,900	29
	923	5.1	4.5	4.8	.4	.5	.5	13,410	14,130	14,840	3
	925	5.0	9.5	10.1	3.1	3.3	3.6	12,670	13,340	14,840	1
	945	4.1	5.1	5.4	.7	.8	.8	13,440	14,020	14,820	5
COUNTY AVERAGE		3.9	7.0	7.3	.8	.9	.9	13,270	13,810	14,890	654
MONTGOMERY	377	2.3	21.1	21.6	.6	.7	.8	11,680	11,950	15,240	158
COUNTY AVERAGE		2.3	21.1	21.6	.6	.7	.8	11,680	11,950	15,240	158
PULASKI	377	1.3	21.7	22.0	.4	.5	.6	11,580	11,730	15,040	19
	379	2.0	22.1	22.6	.5	.6	.7	11,610	11,850	15,300	12
COUNTY AVERAGE		1.6	21.8	22.2	.5	.6	.7	11,590	11,780	15,130	31
RUSSELL	001	1.5	8.1	8.3	.5	.6	.6	14,000	14,210	15,500	14
	214	1.7	6.3	6.5	.4	.5	.5	14,160	14,420	15,420	189
	216	3.0	7.6	7.9	.5	.6	.6	13,660	14,100	15,300	219
	252	2.6	9.3	9.6	1.1	1.2	1.3	13,150	13,510	14,940	24
	253	2.6	4.3	4.5	.8	.9	.9	14,230	14,610	15,300	1
	259	2.5	6.1	6.3	.6	.7	.7	14,220	14,590	15,570	16
	266	2.0	15.6	16.0	.8	.9	1.0	12,430	12,680	15,090	13
	269	2.1	7.6	7.8	.3	.4	.4	13,890	14,190	15,390	13
	340	3.6	3.7	3.9	.4	.5	.5	14,230	14,760	15,360	1
	921	1.9	7.9	8.1	.4	.5	.5	13,810	14,070	15,310	3
COUNTY AVERAGE		2.4	7.4	7.6	.5	.6	.6	13,850	14,190	15,350	493

Data from U.S.B.M. Inf. Circular 8655.

AVERAGE ANALYSES OF COAL BY STATE, COUNTY, AND BED

VIRGINIA

COUNTY	BED	MOISTURE A.R.	ASH A.R.	ASH DRY	SULFUR A.R.	SULFUR DRY	SULFUR M&AF	BTU A.R.	BTU DRY	BTU M&AF	NO. OF ANAL
WISE	259	2.3	12.1	12.4	.9	1.0	1.1	12,970	13,280	15,150	19
	266	1.5	14.4	14.7	.6	.7	.8	12,710	12,900	15,120	51
	867	1.7	4.3	4.4	.6	.7	.7	14,390	14,660	15,330	8
	890	6.1	4.3	4.6	.6	.7	.7	13,620	14,510	15,210	1
	929	2.5	5.5	5.7	.8	.9	.9	14,150	14,510	15,390	1
	930	3.8	11.0	11.5	.8	.9	1.0	12,760	13,260	14,980	1
	972	3.5	8.0	8.3	.6	.7	.7	13,460	13,950	15,210	1
COUNTY AVERAGE		2.9	9.4	9.7	.6	.7	.7	13,330	13,730	15,200	4249
STATE AVERAGE		2.9	8.7	9.0	.7	.8	.8	13,530	13,940	15,310	9827

Data from U.S.B.M. Inf. Circular 8655.

Major, Minor, and Trace Element Analysis

Major, minor, and trace element analyses are available for selected coals in the Southwest Coal Field from the Virginia Division of Mineral Resources. Channel samples are being collected by the Division and the United States Geological Survey. Quantitative determinations are made for 24 major, minor, and trace elements (including Al, As, Cd, Cu, F, Hg, Mn, Na, Pb, Se, U, and Zn) and semiquantitative determinations are made for 15 to 20 additional trace elements (including B, Be, Cr, Ge, Mo, Ni, and V). In addition, the United States Bureau of Mines provides proximate and ultimate analyses, BTU and forms-of-sulfur determinations, and the ash fusibility and free swelling index for each coal sample.

Analysis results for 49 coal samples collected by U. S. Geological Survey personnel during 1975, are available in the U.S.G.S. Open-file report 76-468. These analyses and other data collected by the Virginia Division of Mineral Resources and the United States Geological Survey will be entered into the National Coal Data System.