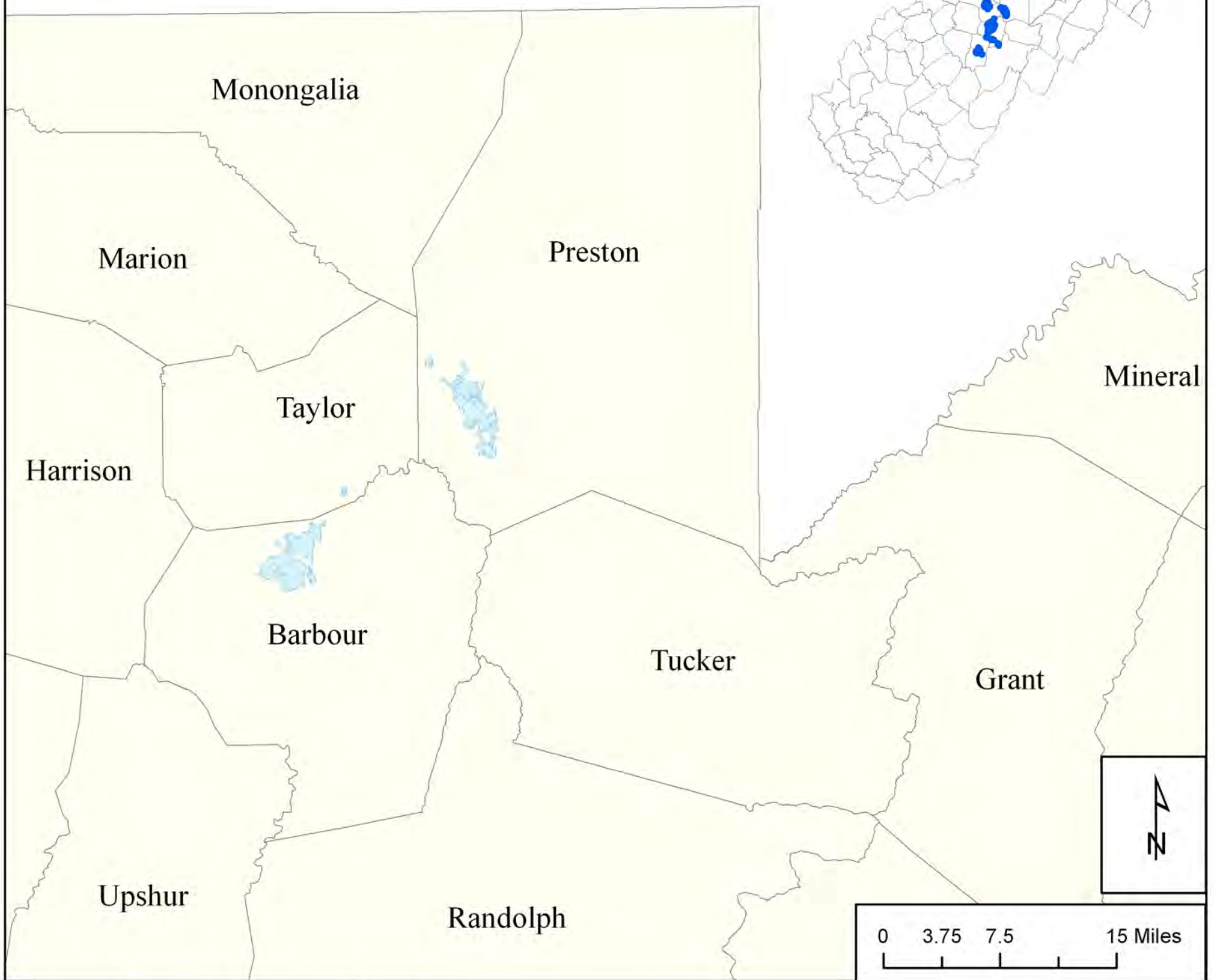


Middle Kittanning Mine Pools Potential Total Flooding



Legend

Position

- Above drainage
- Near drainage
- Below drainage

Storage in Million Gallons

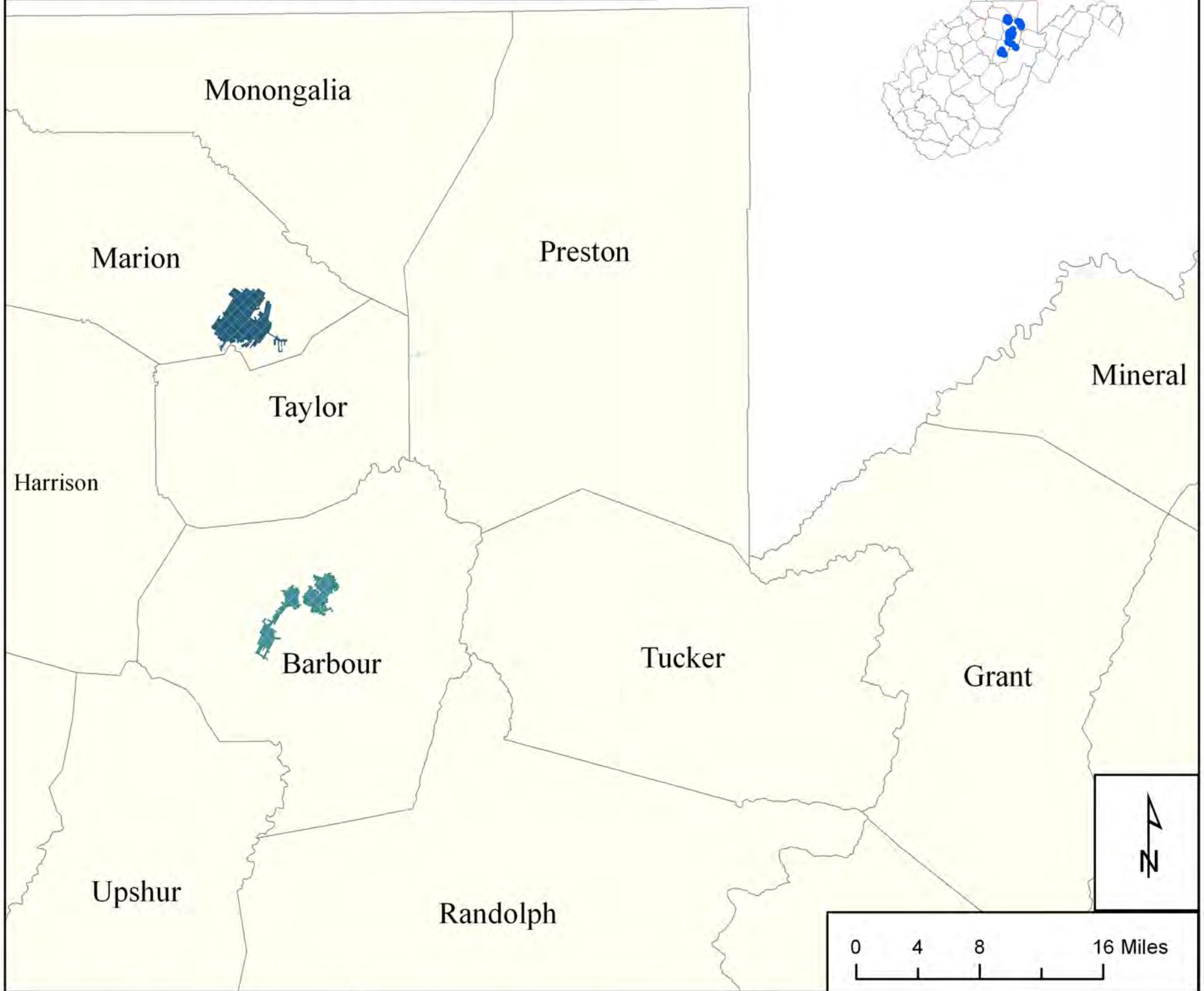
- 0.000 - 5,000
- 5,001 - 10,000
- 10,001 - 15,000
- 15,001 - 20,000
- 20,001 - 25,000
- 25,001 - 30,000

Middle Kittanning Mine Pool Statistics

	Potentially totally flooded above drainage mines	Potentially totally flooded near drainage mines	Potentially totally flooded below drainage mines
No. of Mines	0	0	5
Mean coal bed thickness (feet)	0.00	0.00	5.39
Min. foot print area (acres)	0.00	0.00	81.75
Max. foot print area (acres)	0.00	0.00	4,755.03
Mean foot print area (acres)	0.00	0.00	1,879.00
Median foot print area (acres)	0.00	0.00	172.19
Total foot print area (acres)	0.00	0.00	9,395.02
Estimated void volume (acre feet)	0.00	0.00	24,387.17
Max. potential storage (million gallons)	0.00	0.00	7,947.78



Figure 13d

Middle Kittanning Mine Pools Potential Partial Flooding



Legend

Position

-  Above drainage
-  Near drainage

Potential Partial Flooding

-  Very small area(s)
-  Small area(s)
-  Intermediate area(s)
-  Large area(s)
-  Very large area(s)

Middle Kittanning Mine Pool Statistics

	Potentially partially flooded above drainage mines	Potentially partially flooded near drainage mines
No. of Mines	10	6
Mean coal bed thickness (feet)	4.71	5.63
Min. footprint area (acres)	0.06	6.18
Max. footprint area (acres)	23.48	6,191.64
Mean footprint area (acres)	3.32	1,711.22
Median foot print area (acres)	0.62	1,012.53
Total footprint area (acres)	33.16	10,267.34
Estimated void volume (acre feet)	79.67	23,612.80
Max. potential storage (million gallons)	25.97	7,695.41

Figure 13e

No. 5 Block Mine Pools Structure Contour

Legend

— Coalbed Elevation (200 ft Intervals)

■ Underground Mine Footprints

0 5 10 20 Miles

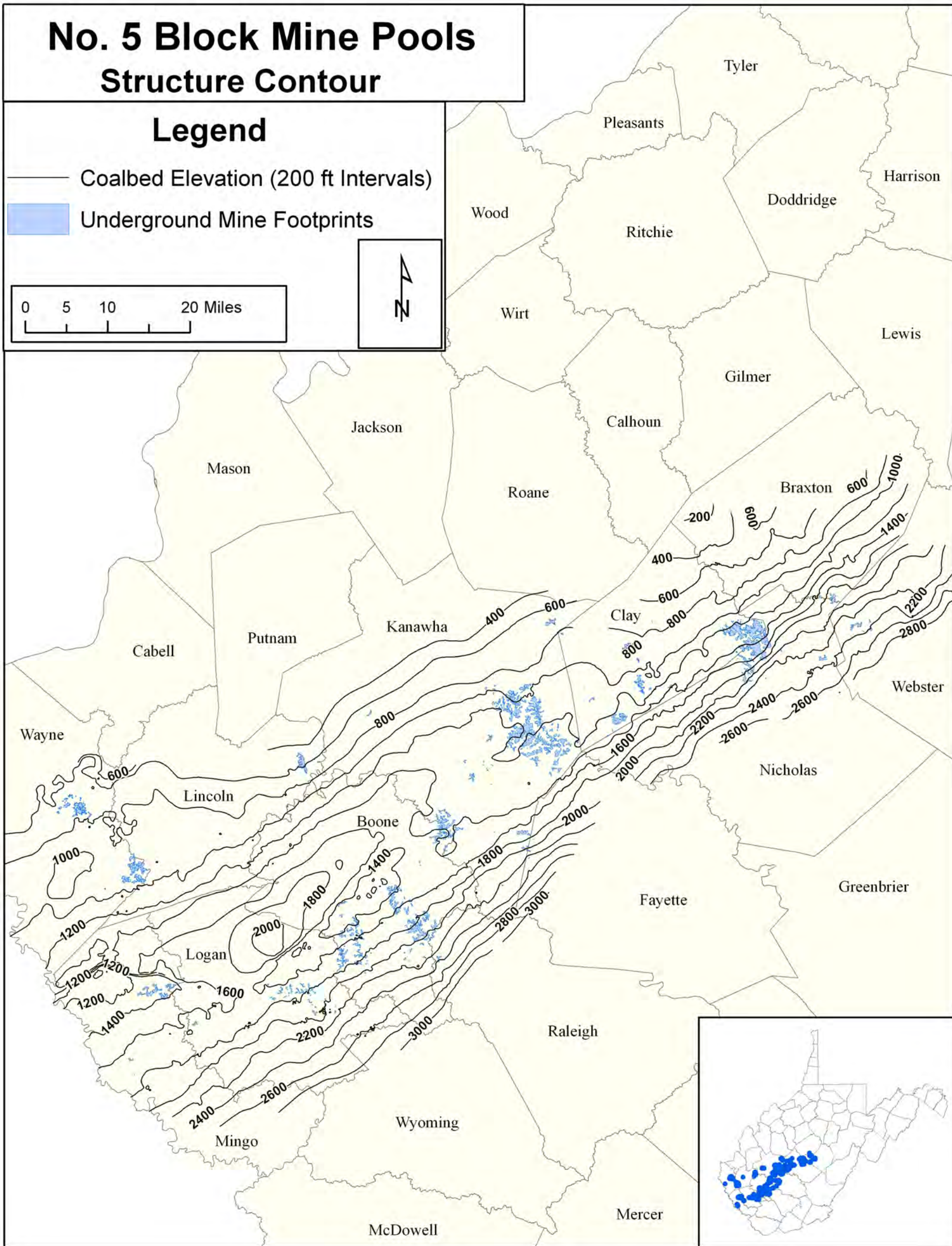


Figure 14a

No. 5 Block Mine Pools Coal Isopach

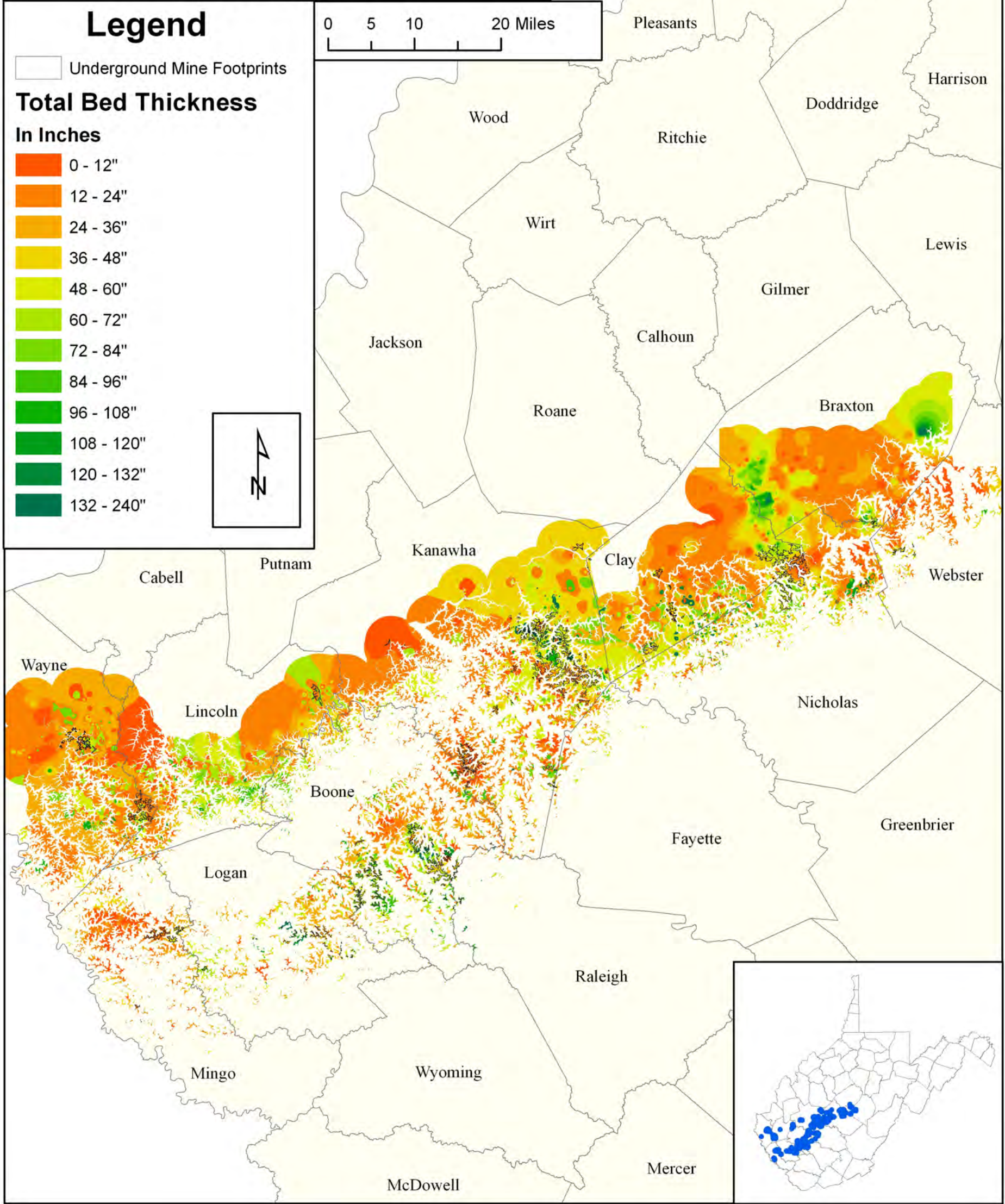
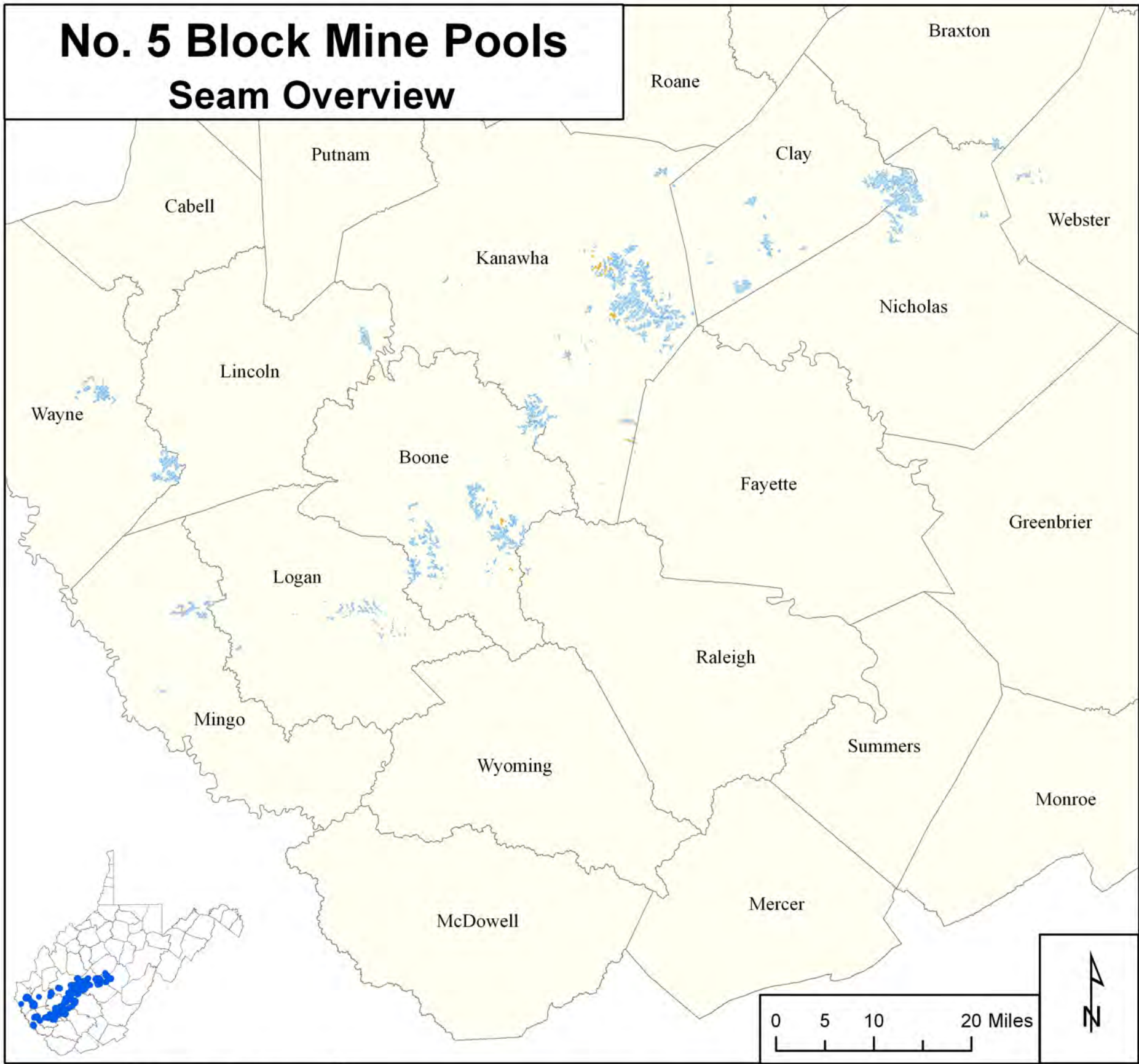


Figure 14b



Legend

Position

- Above drainage
- Near drainage
- Below drainage

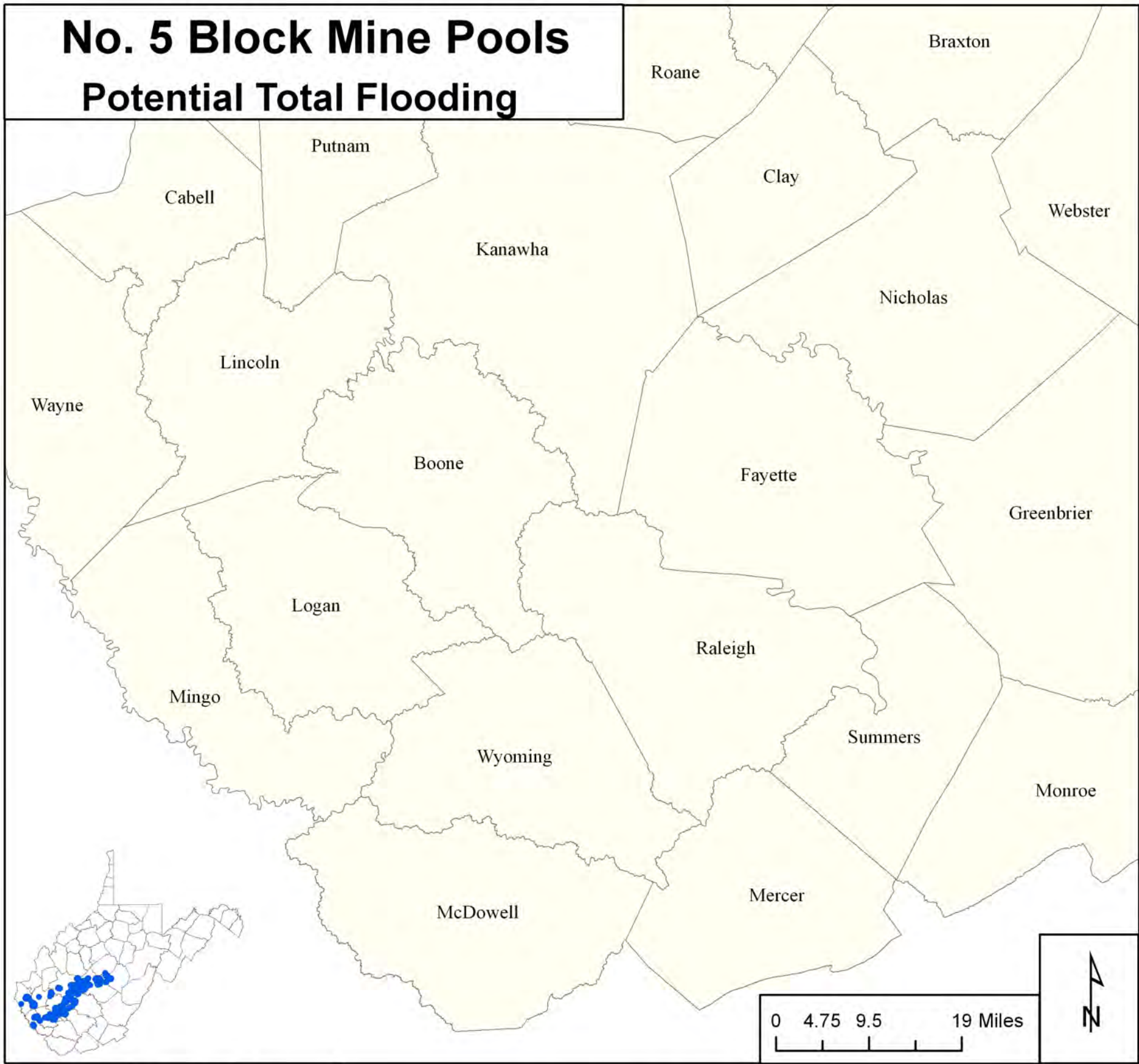
Potential Extent of Flooding

- Undetermined
- Flooded areas unlikely
- Partially flooded
- Totally flooded

No. 5 Block Mine Pool Statistics

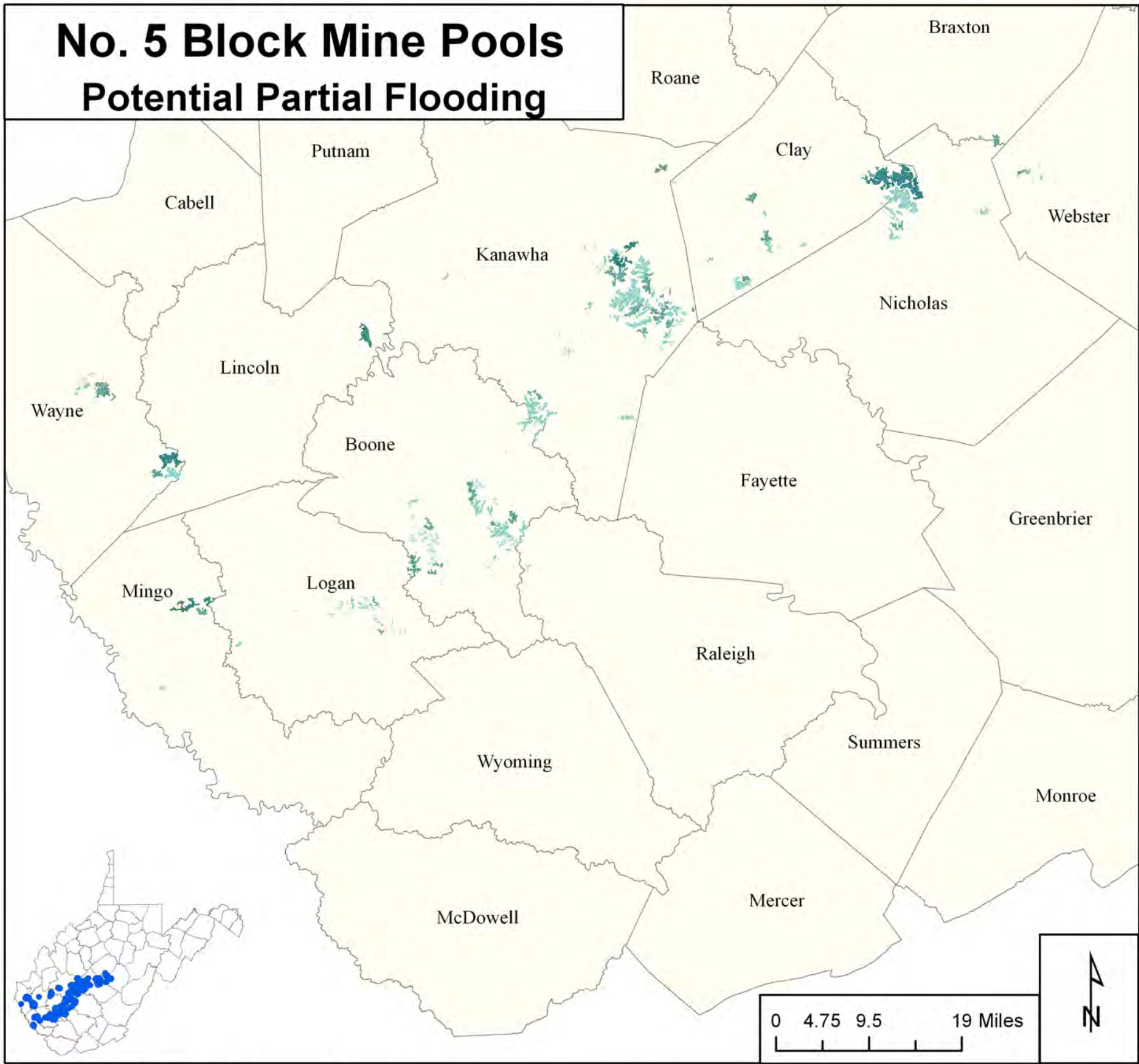
	Undetermined	Potentially flooded areas unlikely	Potentially partially flooded	Potentially totally flooded
No. of Mines	0	76	353.00	0
Mean coal bed thickness (feet)	0.00	4.07	3.93	0.00
Min. footprint area (acres)	0.00	0.00	0.02	0.00
Max. footprint area (acres)	0.00	95.87	2,420.30	0.00
Mean footprint area (acres)	0.00	7.99	90.45	0.00
Median footprint area (acres)	0.00	2.20	17.42	0.00
Total footprint area (acres)	0.00	607.04	31,928.68	0.00
Estimated void volume (acre feet)	0.00	1,147.61	60,026.64	0.00
Max. potential storage (million gallons)	0.00	374.01	19,562.68	0.00

Figure 14c



Position Legend		No. 5 Block Mine Pool Statistics			
	Above drainage		Potentially totally flooded above drainage mines	Potentially totally flooded near drainage mines	Potentially totally flooded below drainage mines
	Near drainage				
	Below drainage				
Storage in Million Gallons					
	0.000 - 5,000	No. of Mines	0	0	0
	5,001 - 10,000	Mean coal bed thickness (feet)	0.00	0.00	0.00
	10,001 - 15,000	Min. foot print area (acres)	0.00	0.00	0.00
	15,001 - 20,000	Max. foot print area (acres)	0.00	0.00	0.00
	20,001 - 25,000	Mean foot print area (acres)	0.00	0.00	0.00
	25,001 - 30,000	Median foot print area (acres)	0.00	0.00	0.00
		Total foot print area (acres)	0.00	0.00	0.00
		Estimated void volume (acre feet)	0.00	0.00	0.00
		Max. potential storage (million gallons)	0.00	0.00	0.00

Figure 14d



Legend

Position

- Above drainage
- Near drainage

Potential Partial Flooding

- Very small area(s)
- Small area(s)
- Intermediate area(s)
- Large area(s)
- Very large area(s)

No. 5 Block Mine Pool Statistics

	Potentially partially flooded above drainage mines	Potentially partially flooded near drainage mines
No. of Mines	341	12
Mean coal bed thickness (feet)	3.96	3.07
Min. footprint area (acres)	0.02	0.06
Max. footprint area (acres)	2,420.30	657.28
Mean footprint area (acres)	90.55	87.55
Median footprint area (acres)	17.90	7.76
Total footprint area (acres)	30,878.12	1,050.56
Estimated void volume (acre feet)	57,733.84	2,292.79
Max. potential storage (million gallons)	18,815.46	747.22

Figure 14e

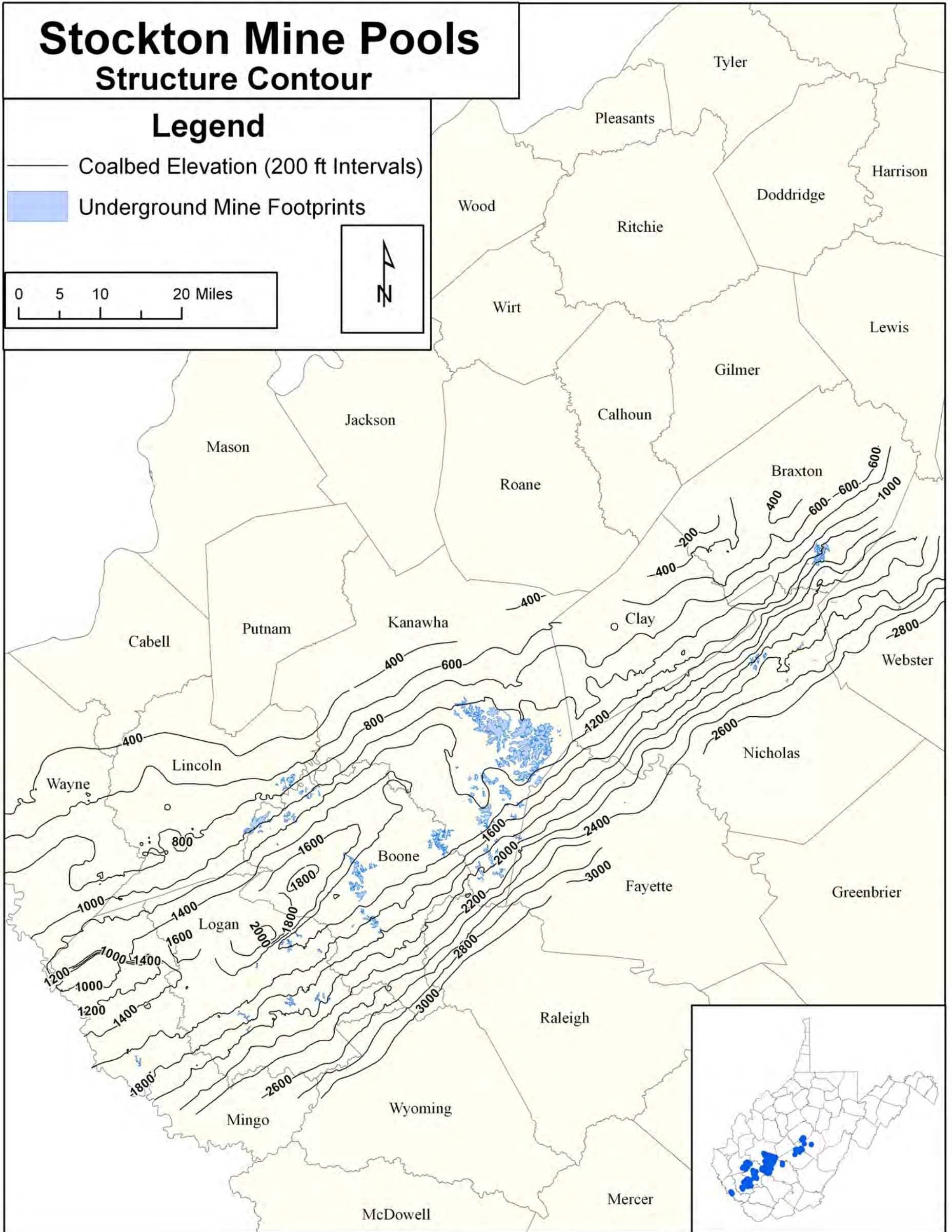


Figure 15a

Stockton Mine Pools Coal Isopach

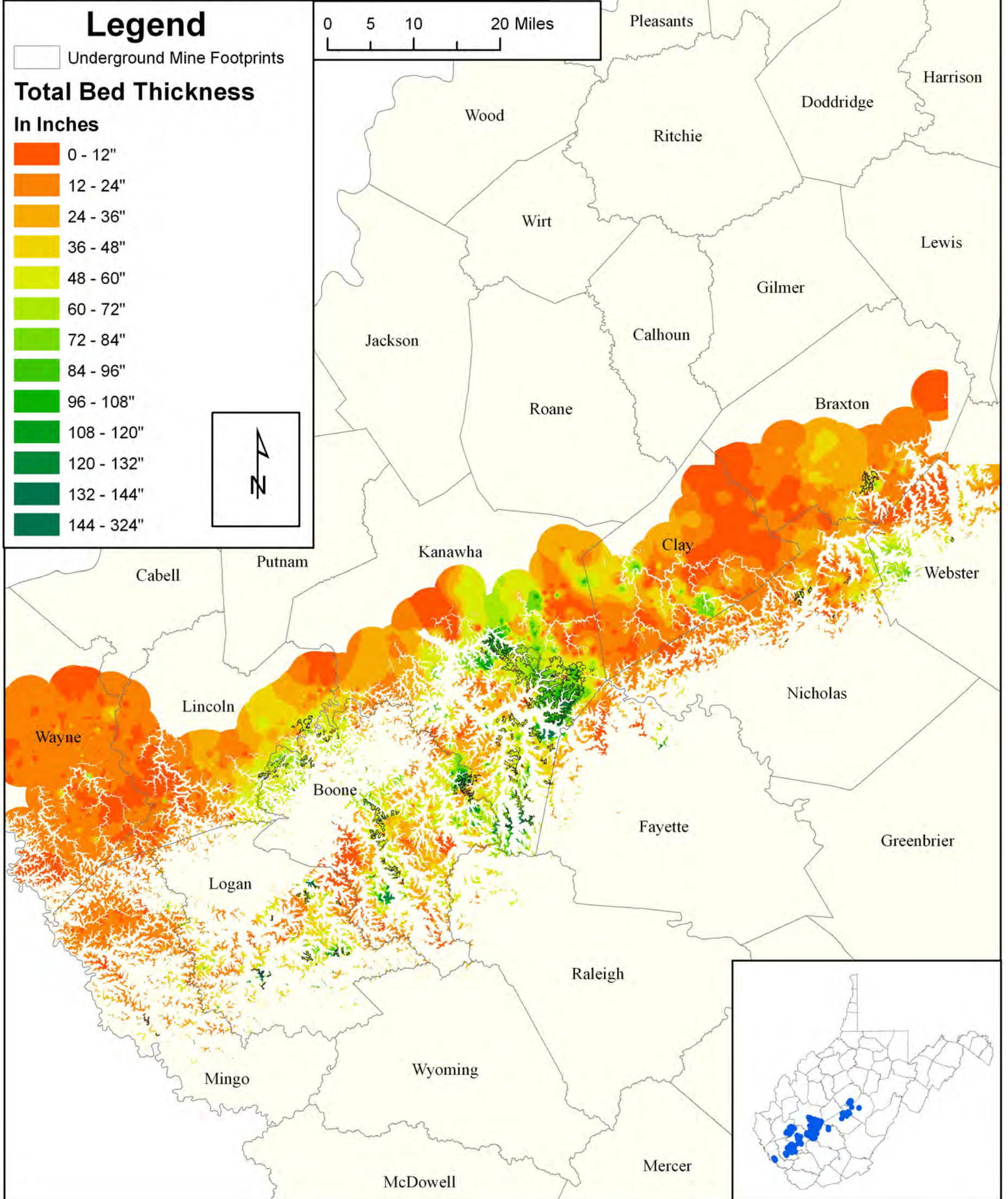
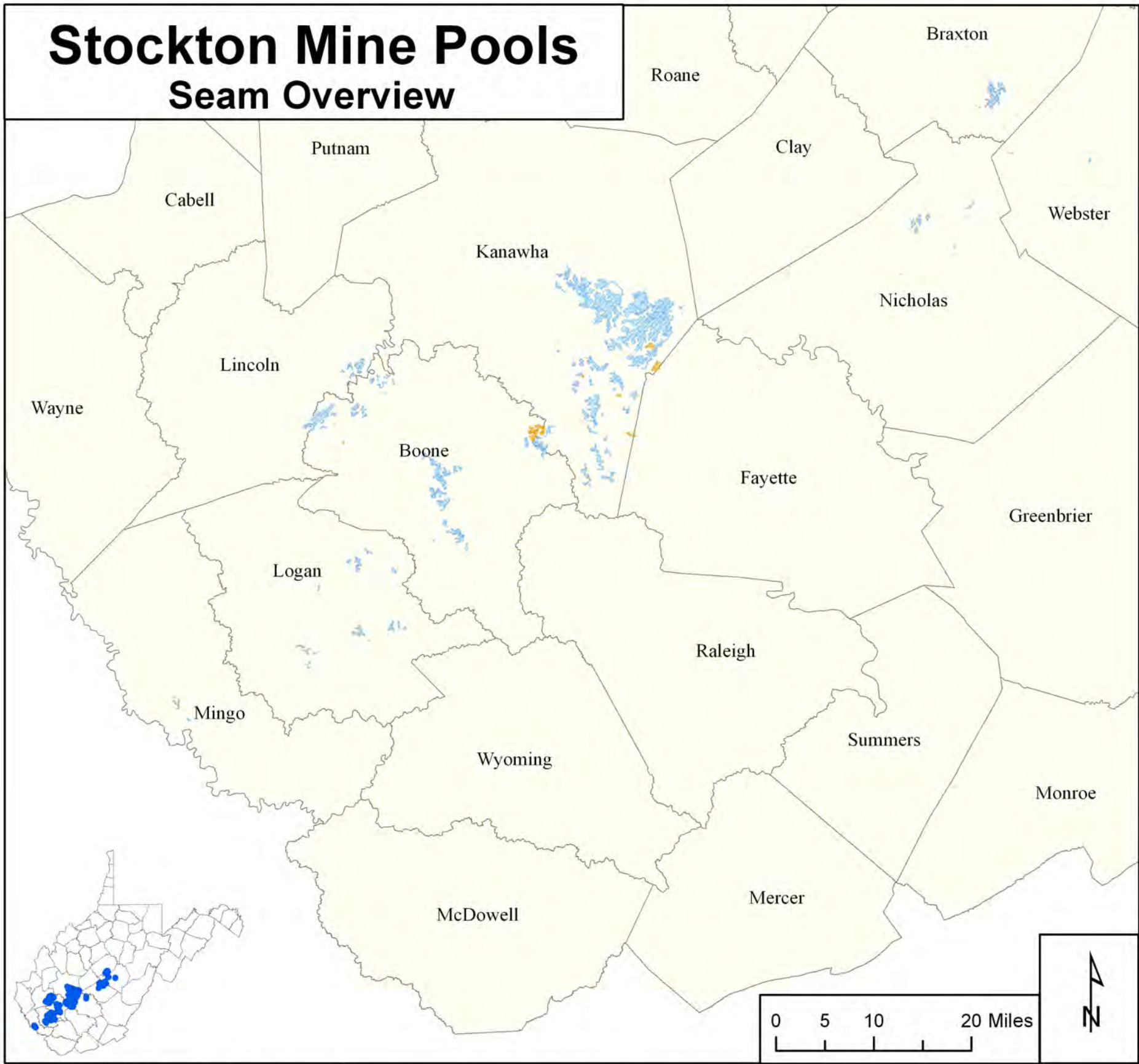


Figure 15b



Legend

Position

- Above drainage
- Near drainage
- Below drainage

Potential Extent of Flooding

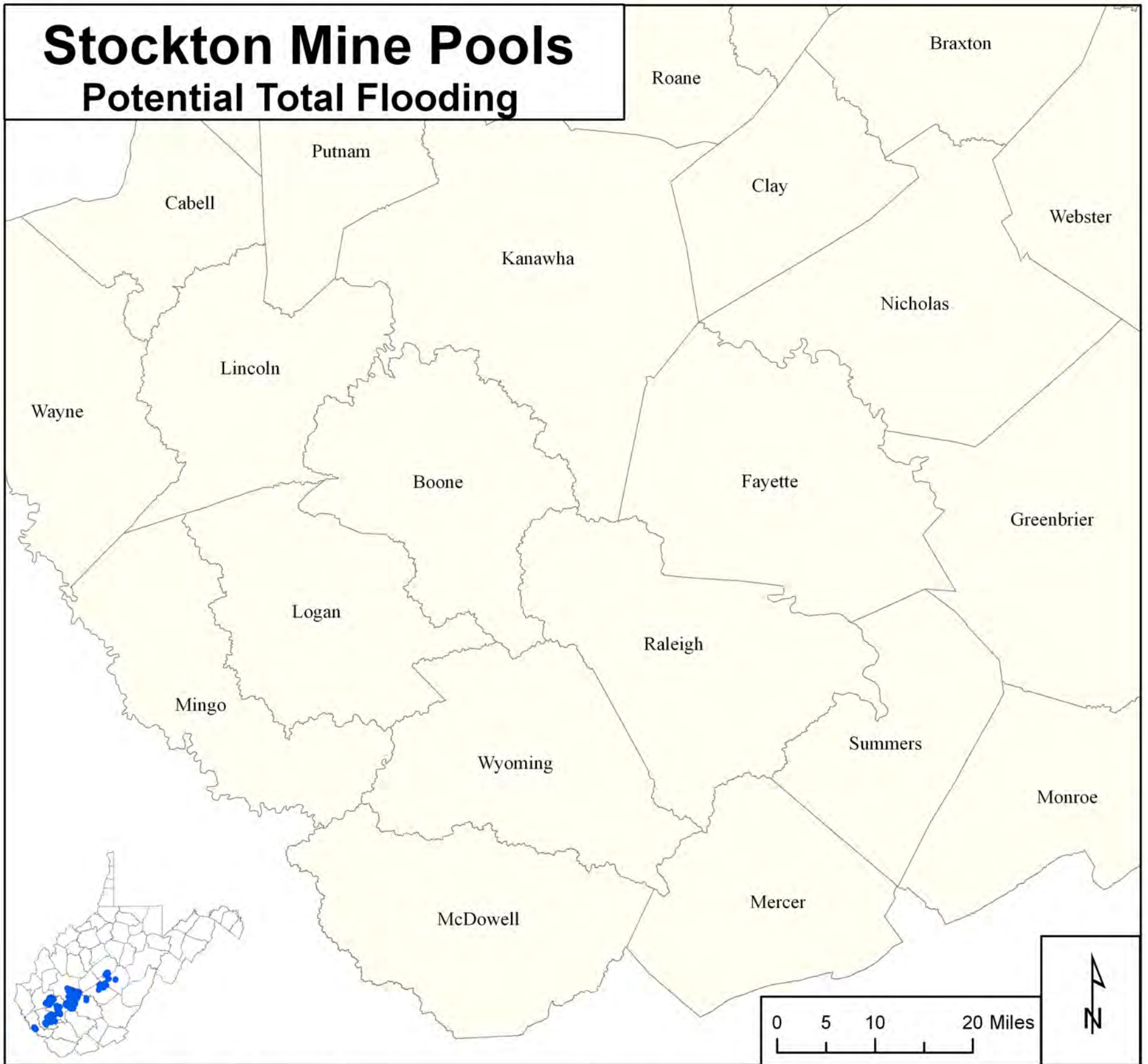
- Undetermined
- Flooded areas unlikely
- Partially flooded
- Totally flooded

Stockton Mine Pool Statistics

	Undetermined	Potentially flooded areas unlikely	Potentially partially flooded	Potentially totally flooded
No. of Mines	0	25	135	0
Mean coal bed thickness (feet)	0.00	4.57	4.42	0.00
Min. footprint area (acres)	0.00	0.03	0.00	0.00
Max. footprint area (acres)	0.00	637.40	4,100.05	0.00
Mean footprint area (acres)	0.00	57.39	239.83	0.00
Median footprint area (acres)	0.00	3.34	73.10	0.00
Total footprint area (acres)	0.00	1,434.65	32,376.49	0.00
Estimated void volume (acre feet)	0.00	5,134.91	89,480.16	0.00
Max. potential storage (million gallons)	0.00	1,673.47	29,161.59	0.00

Figure 15c

Stockton Mine Pools Potential Total Flooding



Position Legend

- Above drainage
- Near drainage
- Below drainage

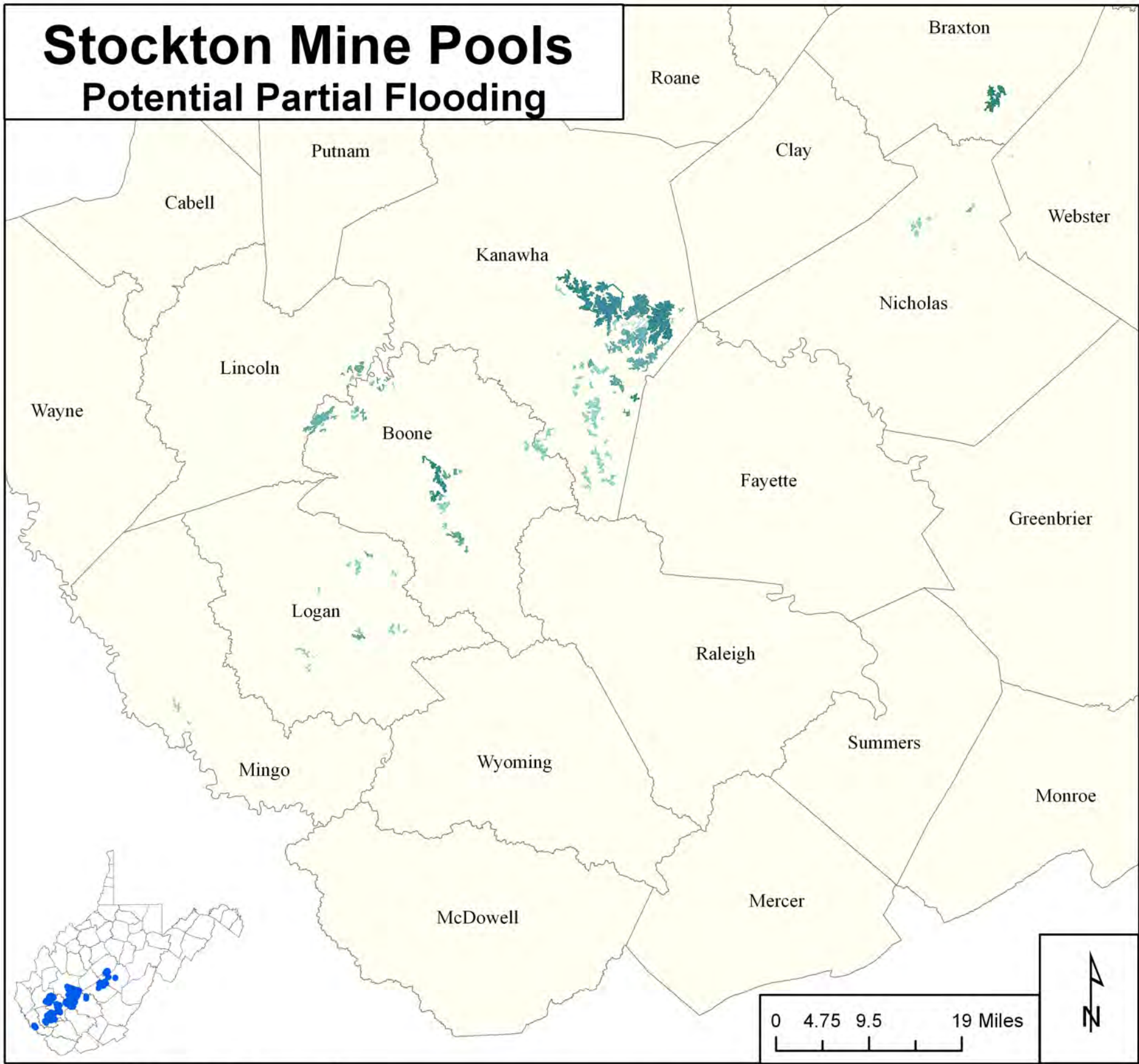
Storage in Million Gallons

- 0.000 - 5,000
- 5,001 - 10,000
- 10,001 - 15,000
- 15,001 - 20,000
- 20,001 - 25,000
- 25,001 - 30,000

Stockton Mine Pool Statistics

	Potentially totally flooded above drainage mines	Potentially totally flooded near drainage mines	Potentially totally flooded below drainage mines
No. of Mines	0	0	0
Mean coal bed thickness (feet)	0.00	0.00	0.00
Min. foot print area (acres)	0.00	0.00	0.00
Max. foot print area (acres)	0.00	0.00	0.00
Mean foot print area (acres)	0.00	0.00	0.00
Median foot print area (acres)	0.00	0.00	0.00
Total foot print area (acres)	0.00	0.00	0.00
Estimated void volume (acre feet)	0.00	0.00	0.00
Max. potential storage (million gallons)	0.00	0.00	0.00

Figure 15d



Legend		Stockton Mine Pool Statistics		
Position				
	Above drainage	Potentially partially flooded above drainage mines		Potentially partially flooded near drainage mines
	Near drainage			
Potential Partial Flooding				
	Very small area(s)			
	Small area(s)			
	Intermediate area(s)			
	Large area(s)			
	Very large area(s)			
		No. of Mines	132	3
		Mean coal bed thickness (feet)	4.43	4.18
		Min. footprint area (acres)	0.00	26.74
		Max. footprint area (acres)	4,100.05	2,090.45
		Mean footprint area (acres)	228.50	738.30
		Median footprint area (acres)	70.72	97.71
		Total footprint area (acres)	30,161.58	2,214.90
		Estimated void volume (acre feet)	83,689.34	5,790.83
		Max. potential storage (million gallons)	27,274.36	1,887.23

Figure 15e

Coalburg Mine Pools Structure Contour

Legend

— Coalbed Elevation (200 ft Intervals)

■ Underground Mine Footprints

0 5 10 20 Miles

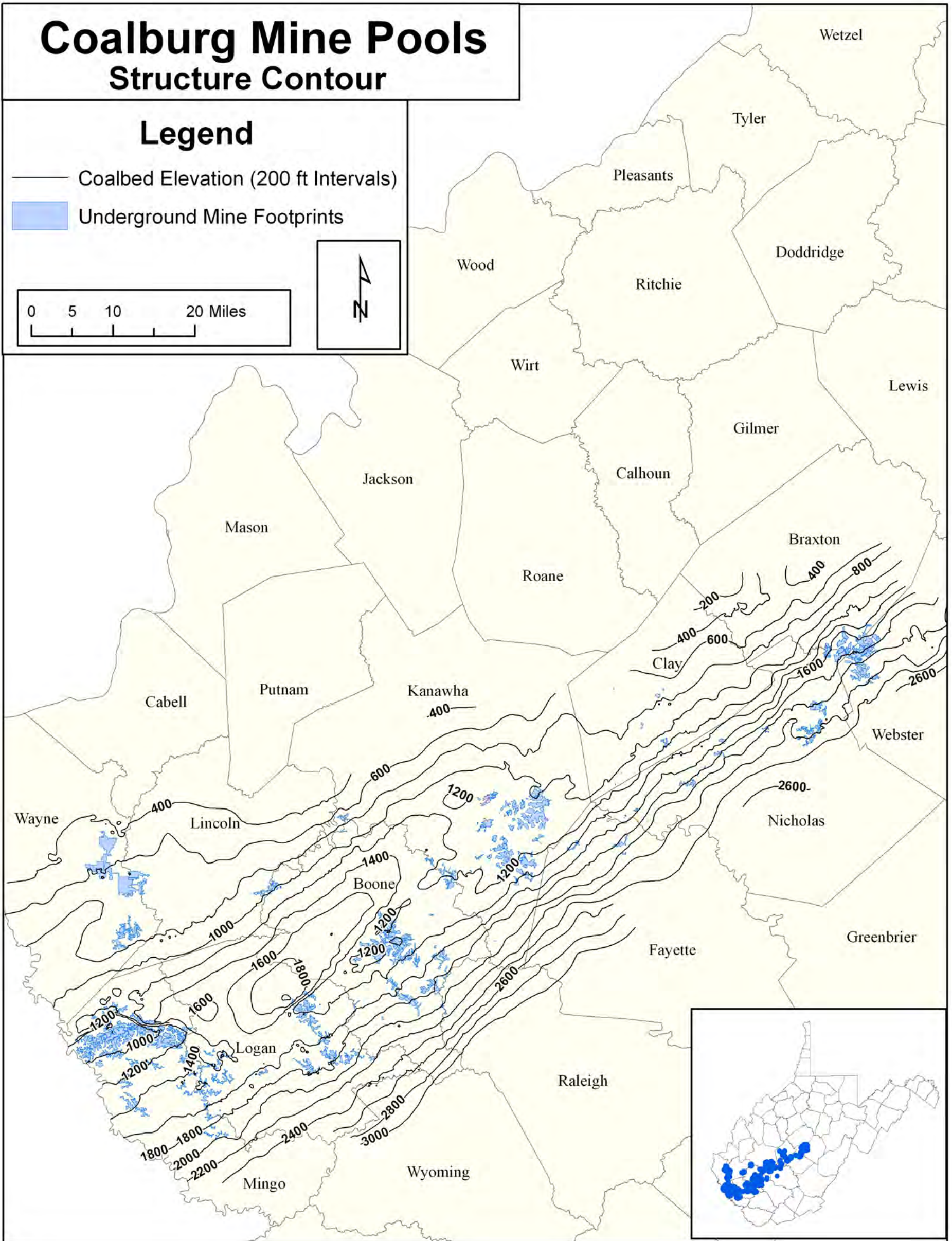



Figure 16a














Coalburg Mine Pools

Coal Isopach

Legend

 Underground Mine Footprints

Total Bed Thickness In Inches

-  0 - 12"
-  12 - 24"
-  24 - 36"
-  36 - 48"
-  48 - 60"
-  60 - 72"
-  72 - 84"
-  84 - 96"
-  96 - 108"
-  108 - 120"
-  120 - 132"
-  132 - 144"
-  144 - 300"

0 5 10 20 Miles

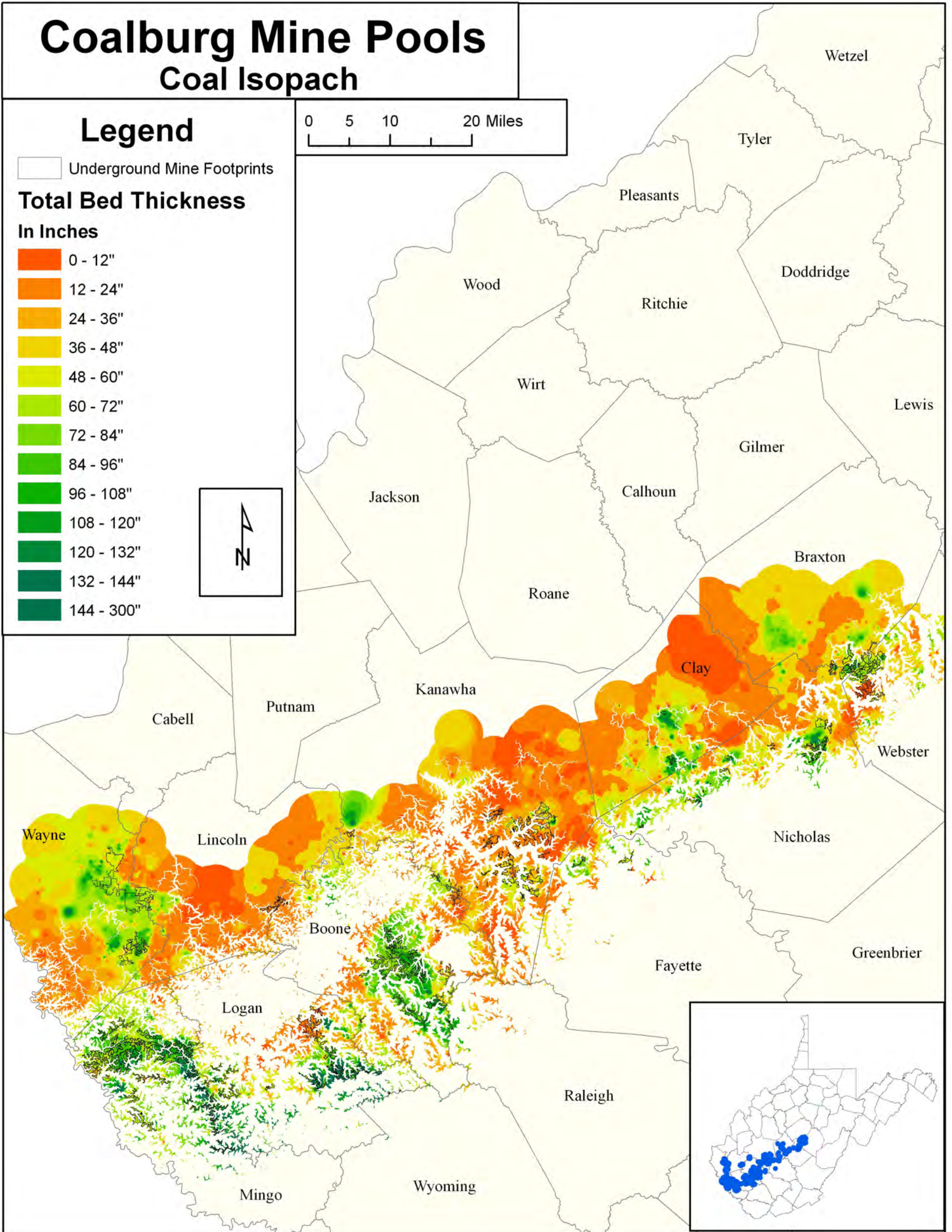
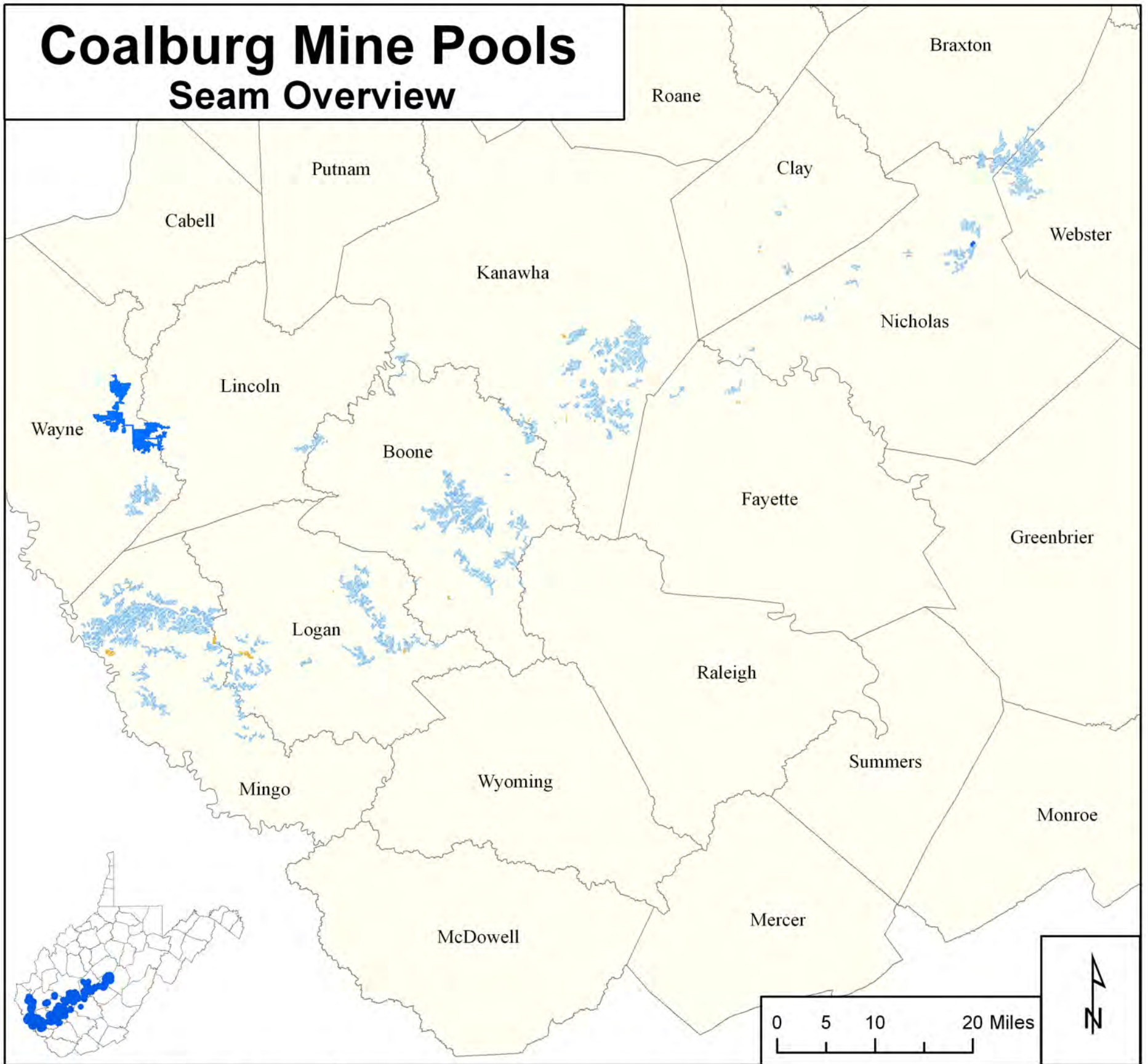


Figure 16b

Coalburg Mine Pools Seam Overview



Legend

Position

- Above drainage
- Near drainage
- Below drainage

Potential Extent of Flooding

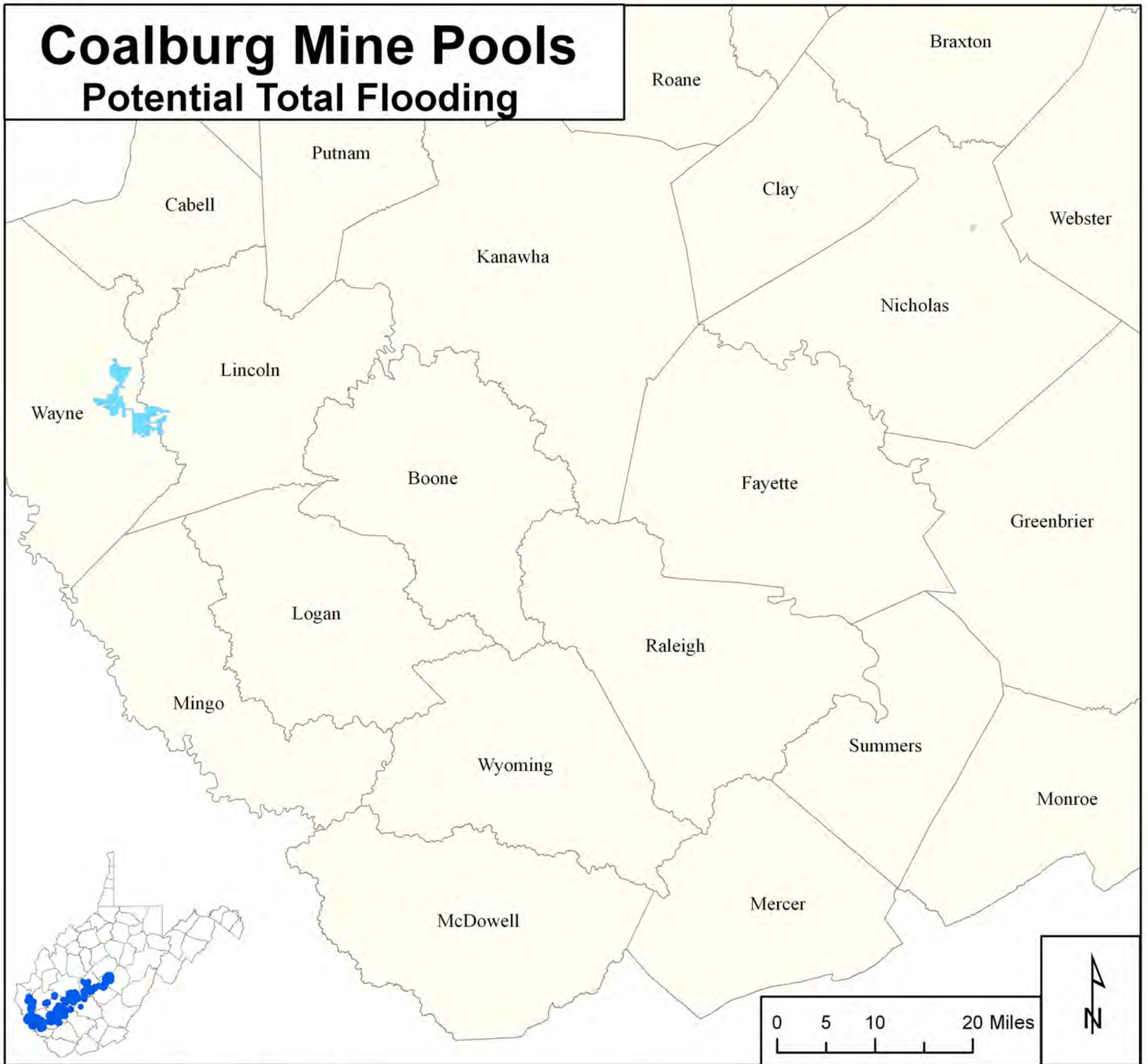
- Undetermined
- Flooded areas unlikely
- Partially flooded
- Totally flooded

Coalburg Mine Pool Statistics

	Undetermined	Potentially flooded areas unlikely	Potentially partially flooded	Potentially totally flooded
No. of Mines	0	22	274	2
Mean coal bed thickness (feet)	0.00	4.81	5.30	5.80
Min. footprint area (acres)	0.00	0.26	0.12	0.80
Max. footprint area (acres)	0.00	215.26	4,074.99	8,603.08
Mean footprint area (acres)	0.00	33.65	241.05	4,351.50
Median footprint area (acres)	0.00	11.02	105.74	4,351.50
Total footprint area (acres)	0.00	740.22	66,047.04	8,703.00
Estimated void volume (acre feet)	0.00	2,137.42	184,839.99	24,163.17
Max. potential storage (million gallons)	0.00	696.59	60,239.35	7,874.78

Figure 16c

Coalburg Mine Pools Potential Total Flooding



Position Legend

- Above drainage
- Near drainage
- Below drainage

Storage in Million Gallons

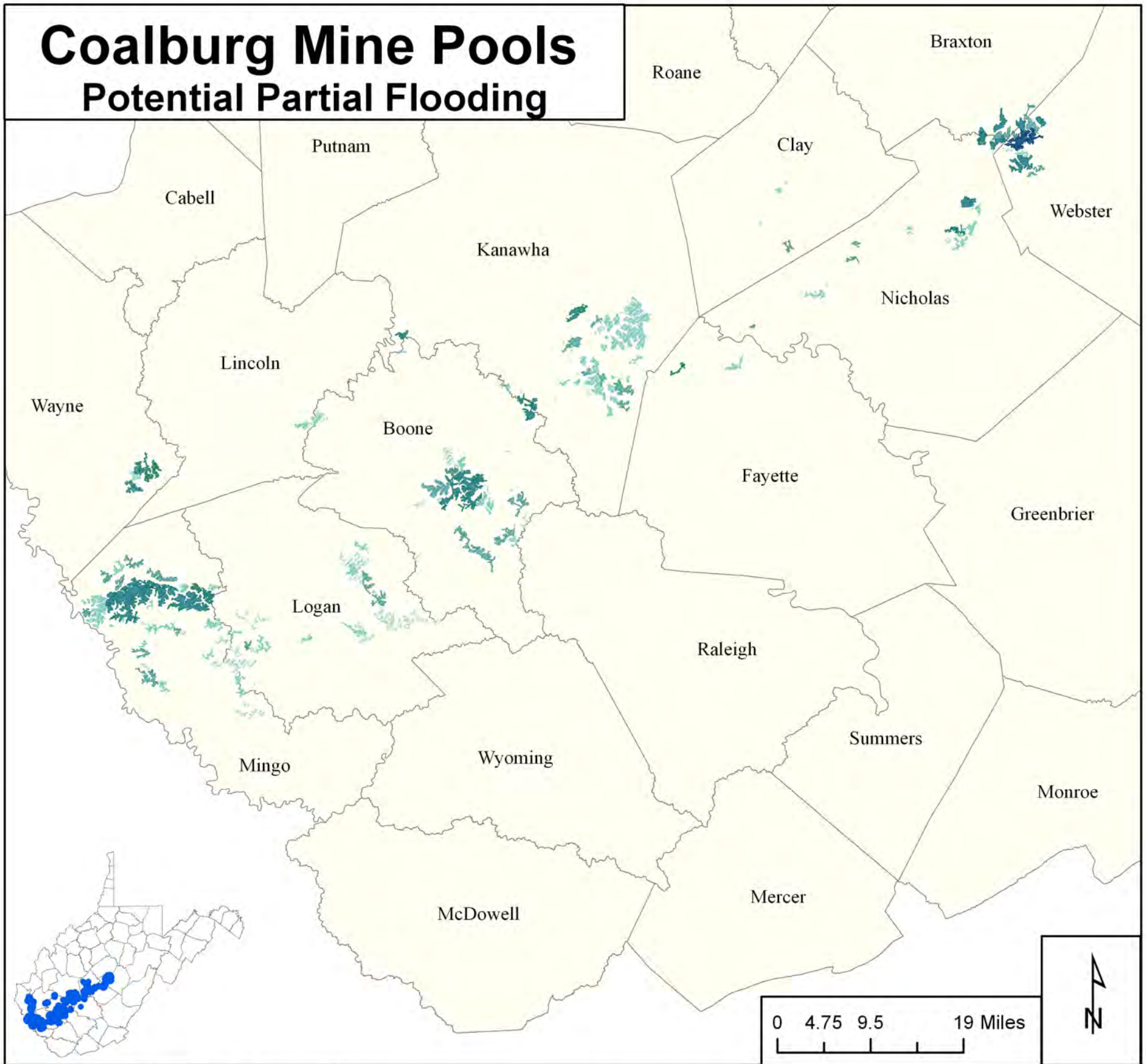
- 0.000 - 5,000
- 5,001 - 10,000
- 10,001 - 15,000
- 15,001 - 20,000
- 20,001 - 25,000
- 25,001 - 30,000

Coalburg Mine Pool Statistics

	Potentially totally flooded above drainage mines	Potentially totally flooded near drainage mines	Potentially totally flooded below drainage mines
No. of Mines	0	1	1
Mean coal bed thickness (feet)	0.00	6.04	5.55
Min. foot print area (acres)	0.00	99.93	8,603.08
Max. foot print area (acres)	0.00	99.93	8,603.08
Mean foot print area (acres)	0.00	99.93	8,603.08
Median foot print area (acres)	0.00	99.93	8,603.08
Total foot print area (acres)	0.00	99.93	8,603.08
Estimated void volume (acre feet)	0.00	302.36	23,860.81
Max. potential storage (million gallons)	0.00	98.54	7,776.24

Figure 16d

Coalburg Mine Pools Potential Partial Flooding



Legend

Position

- Above drainage
- Near drainage

Potential Partial Flooding

- Very small area(s)
- Small area(s)
- Intermediate area(s)
- Large area(s)
- Very large area(s)

Coalburg Mine Pool Statistics

	Potentially partially flooded above drainage mines	Potentially partially flooded near drainage mines
No. of Mines	265	9
Mean coal bed thickness (feet)	5.35	3.98
Min. footprint area (acres)	0.12	1.82
Max. footprint area (acres)	4,074.99	602.41
Mean footprint area (acres)	240.16	267.13
Median foot print area (acres)	105.50	245.97
Total footprint area (acres)	63,642.83	2,404.21
Estimated void volume (acre feet)	178,449.01	6,390.98
Max. potential storage (million gallons)	58,156.53	2,082.82

Figure 16e

Peerless Mine Pools Structure Contour

Legend

— Coalbed Elevation (200 ft Intervals)

■ Underground Mine Footprints

0 5 10 20 Miles

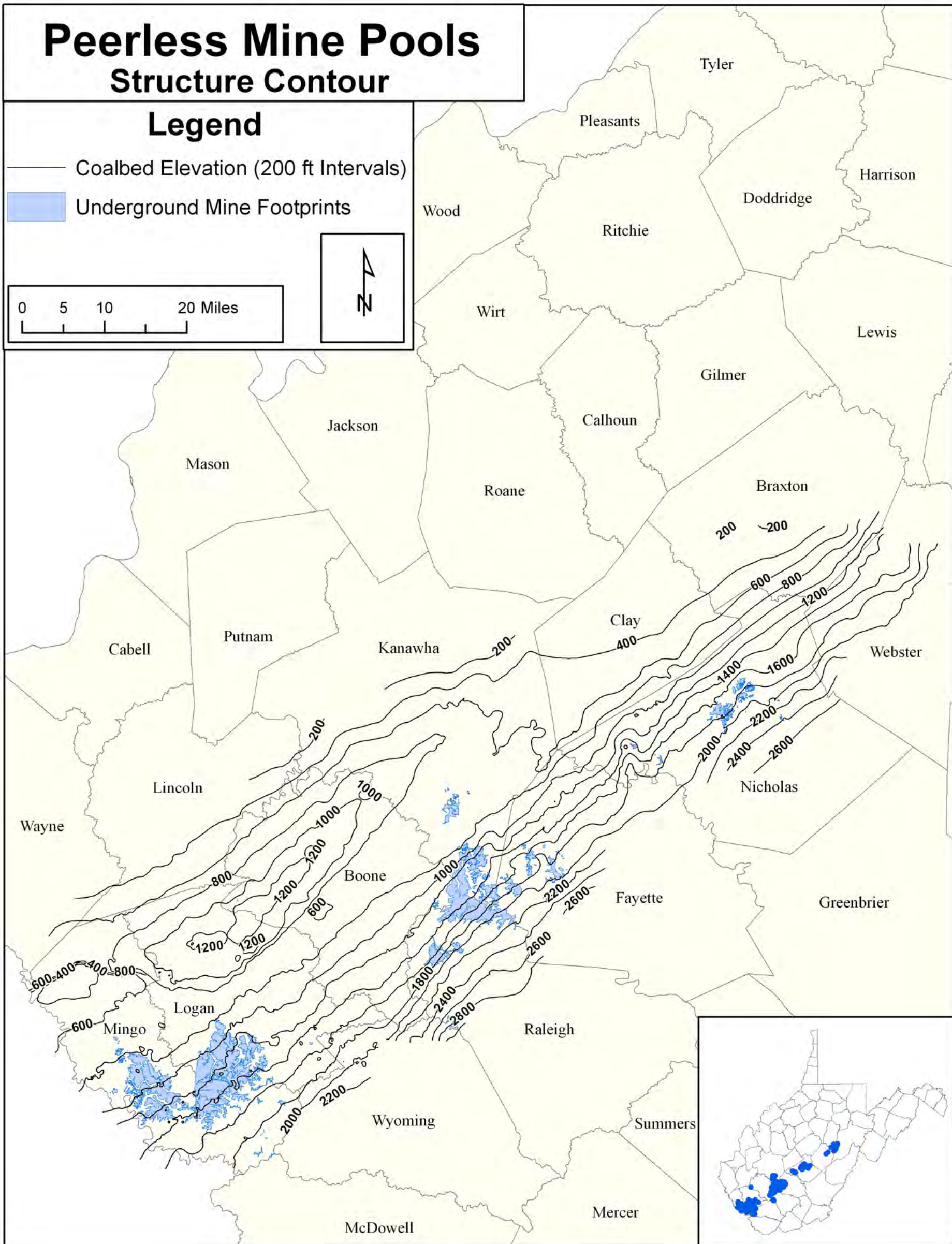


Figure 17a

Peerless Mine Pools Coal Isopach

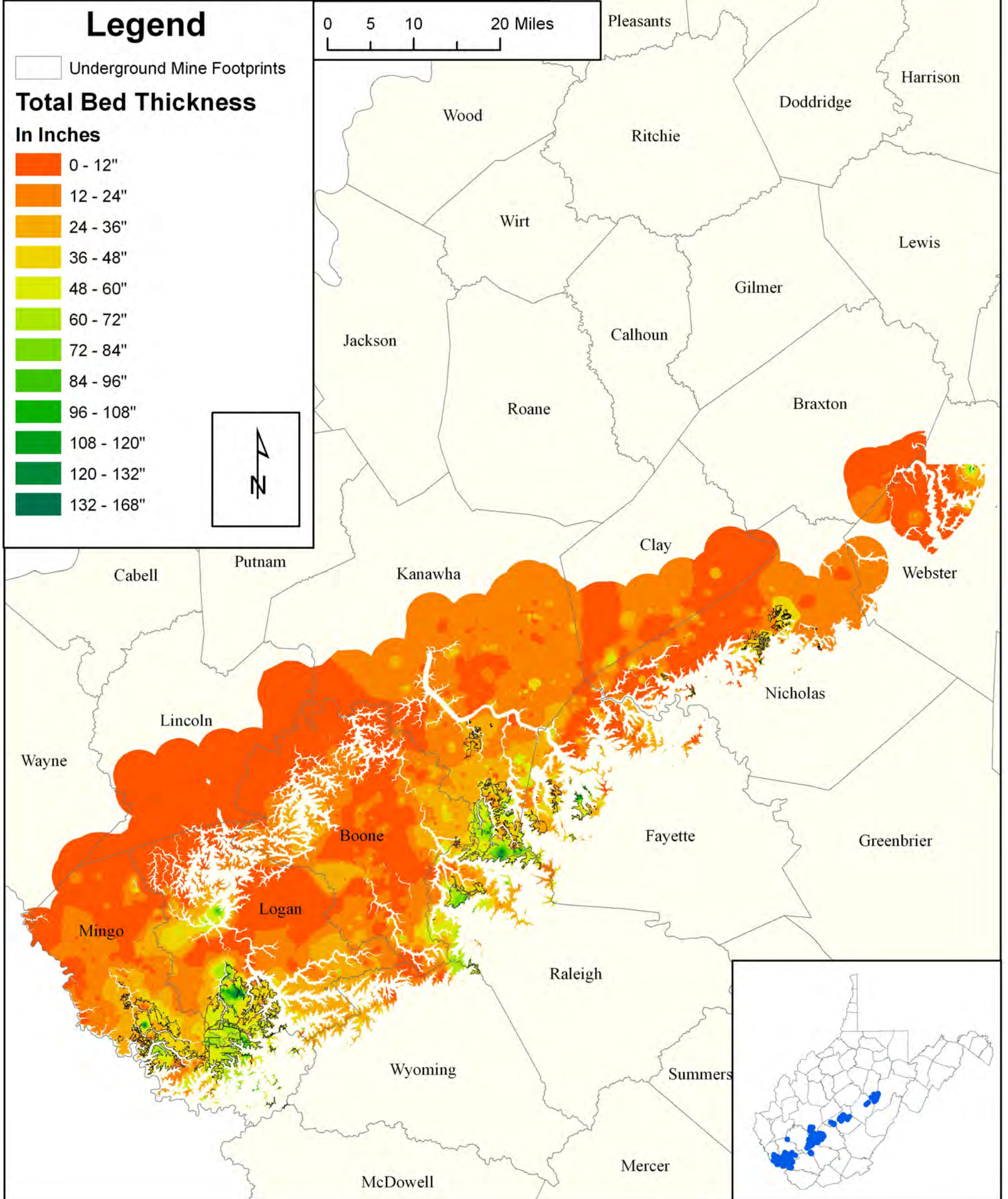
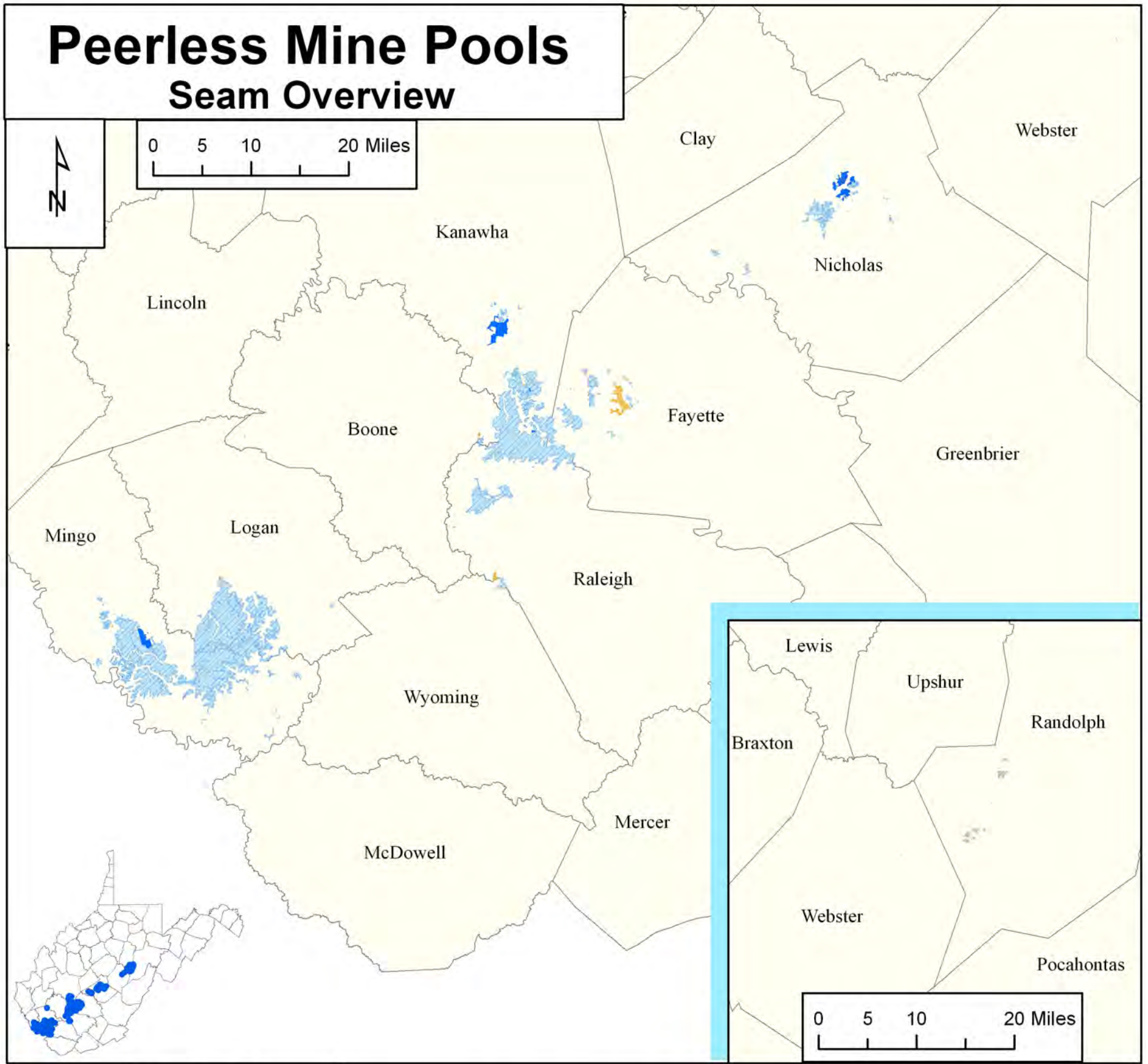
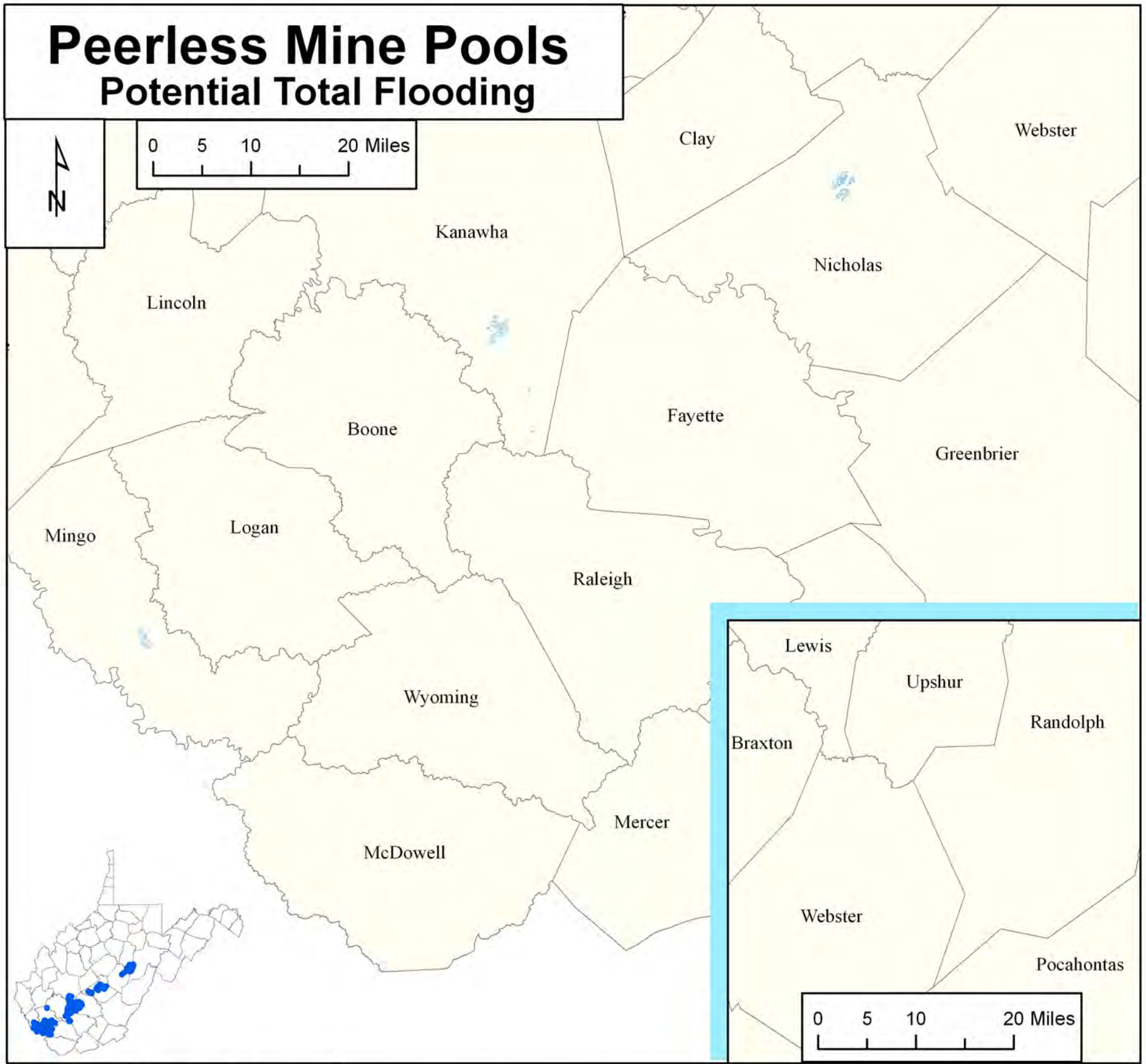


Figure 17b



Legend		Peerless Mine Pool Statistics			
Position					
	Above drainage				
	Near drainage				
	Below drainage				
Potential Extent of Flooding					
	Undetermined				
	Flooded areas unlikely				
	Partially flooded				
	Totally flooded				
		Undetermined	Potentially flooded areas unlikely	Potentially partially flooded	Potentially totally flooded
No. of Mines		38	24	211	11
Mean coal bed thickness (feet)		2.47	3.52	3.23	3.12
Min. footprint area (acres)		0.12	0.02	0.08	2.58
Max. footprint area (acres)		233.14	1,220.93	8,026.77	1,484.80
Mean footprint area (acres)		16.81	60.38	379.86	310.25
Median footprint area (acres)		3.06	0.56	24.63	33.94
Total footprint area (acres)		638.93	1,449.23	80,151.24	3,412.75
Estimated void volume (acre feet)		651.47	3,469.62	158,654.82	4,645.15
Max. potential storage (million gallons)		212.32	1,130.75	51,705.60	1,513.85

Figure 17c



Position Legend

- Above drainage
- Near drainage
- Below drainage

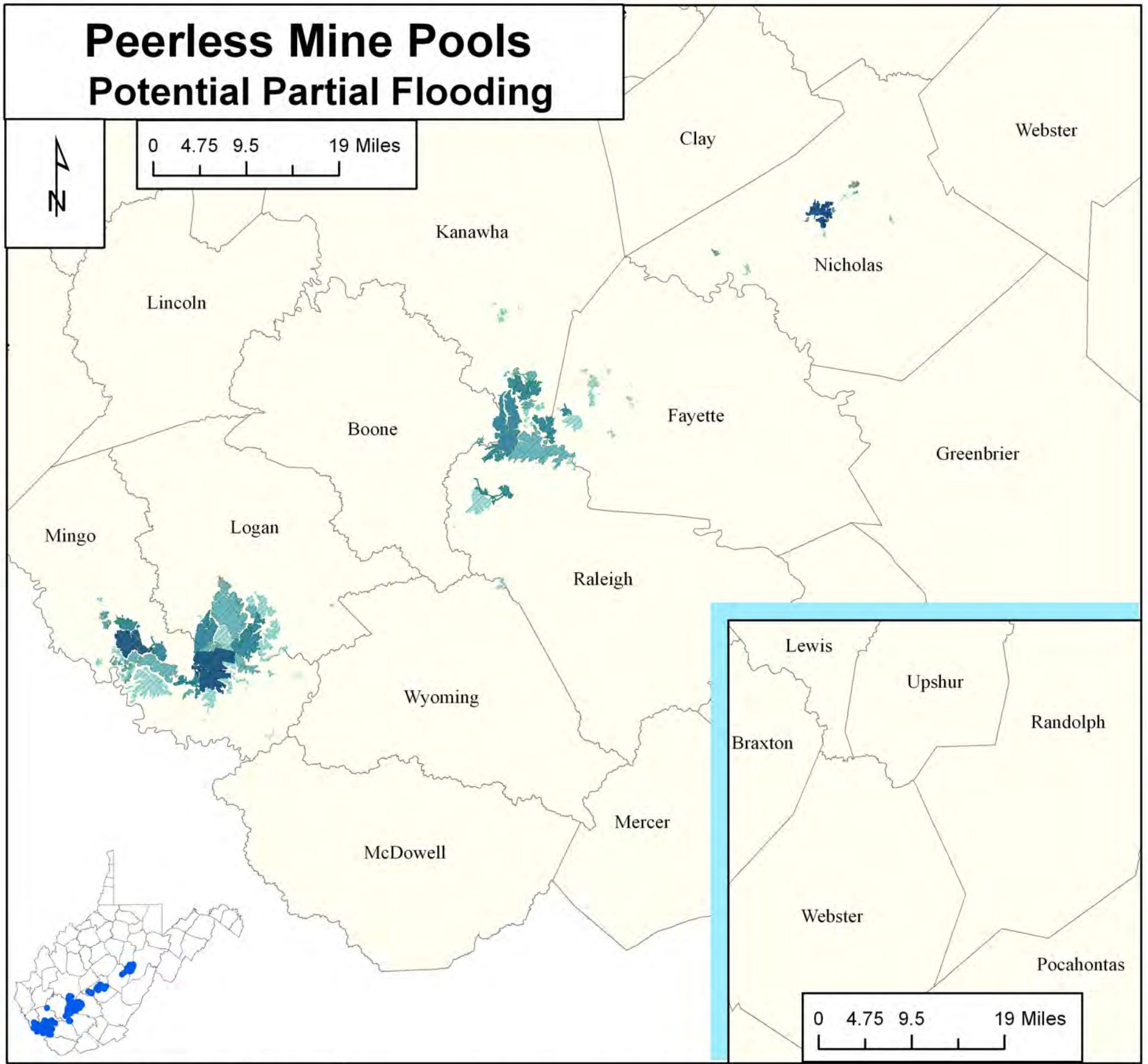
Storage in Million Gallons

- 0.000 - 5,000
- 5,001 - 10,000
- 10,001 - 15,000
- 15,001 - 20,000
- 20,001 - 25,000
- 25,001 - 30,000

Peerless Mine Pool Statistics

	Potentially totally flooded above drainage mines	Potentially totally flooded near drainage mines	Potentially totally flooded below drainage mines
No. of Mines	3	3	5
Mean coal bed thickness (feet)	3.61	2.62	3.13
Min. foot print area (acres)	4.94	5.32	2.58
Max. foot print area (acres)	33.94	369.14	1,484.80
Mean foot print area (acres)	22.49	130.18	590.95
Median foot print area (acres)	28.60	16.08	591.56
Total foot print area (acres)	67.48	390.54	2,954.73
Estimated void volume (acre feet)	116.82	511.24	4,017.09
Max. potential storage (million gallons)	38.07	166.61	1,309.17

Figure 17d










Legend		Peerless Mine Pool Statistics		
Position		Potentially partially flooded above drainage mines		Potentially partially flooded near drainage mines
	Above drainage			
	Near drainage			
Potential Partial Flooding				
	Very small area(s)			
	Small area(s)			
	Intermediate area(s)			
	Large area(s)			
	Very large area(s)			
		No. of Mines	202.00	9
		Mean coal bed thickness (feet)	3.225657689	3.44
		Min. footprint area (acres)	0.081401	0.08
		Max. footprint area (acres)	8026.772549	1,497.37
		Mean footprint area (acres)	386.8303851	223.50
		Median foot print area (acres)	22.8539055	37.78
		Total footprint area (acres)	78139.73779	2,011.51
		Estimated void volume (acre feet)	155375.6062	3,279.21
		Max. potential storage (million gallons)	50636.91006	1,068.69

Figure 17e

No. 2 Gas Mine Pools Structure Contour

Legend

— Coalbed Elevation (200 ft Intervals)

■ Underground Mine Footprints

0 5 10 20 Miles

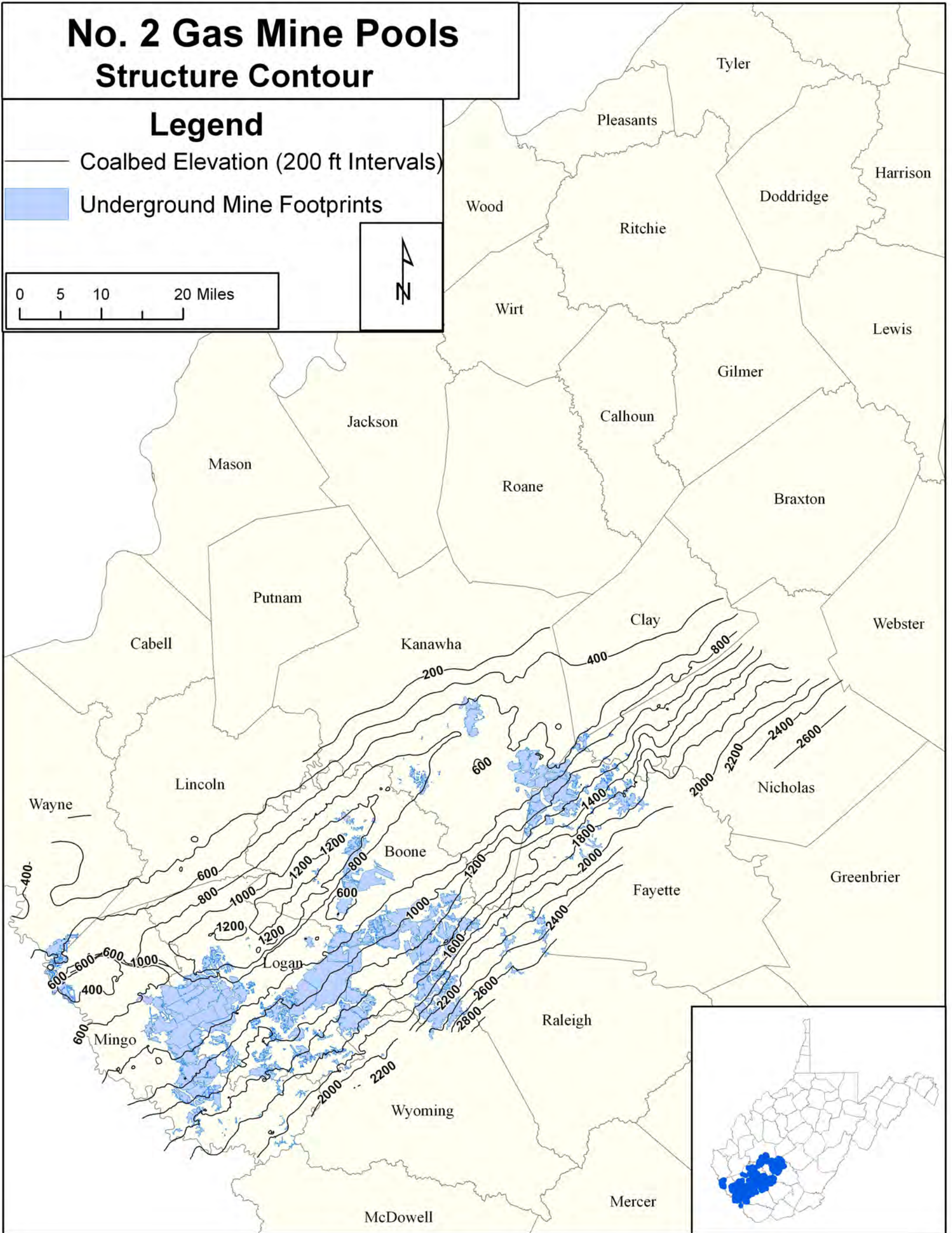


Figure 18a

No. 2 Gas Mine Pools Coal Isopach

Legend

Underground Mine Footprints

**Total Bed Thickness
In Inches**

- 0 - 12"
- 12 - 24"
- 24 - 36"
- 36 - 48"
- 48 - 60"
- 60 - 72"
- 72 - 84"
- 84 - 96"
- 96 - 108"
- 108 - 120"
- 120 - 132"
- 132 - 144"
- 144 - 180"

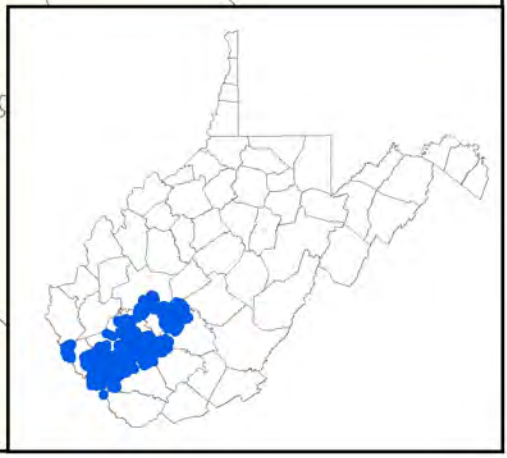
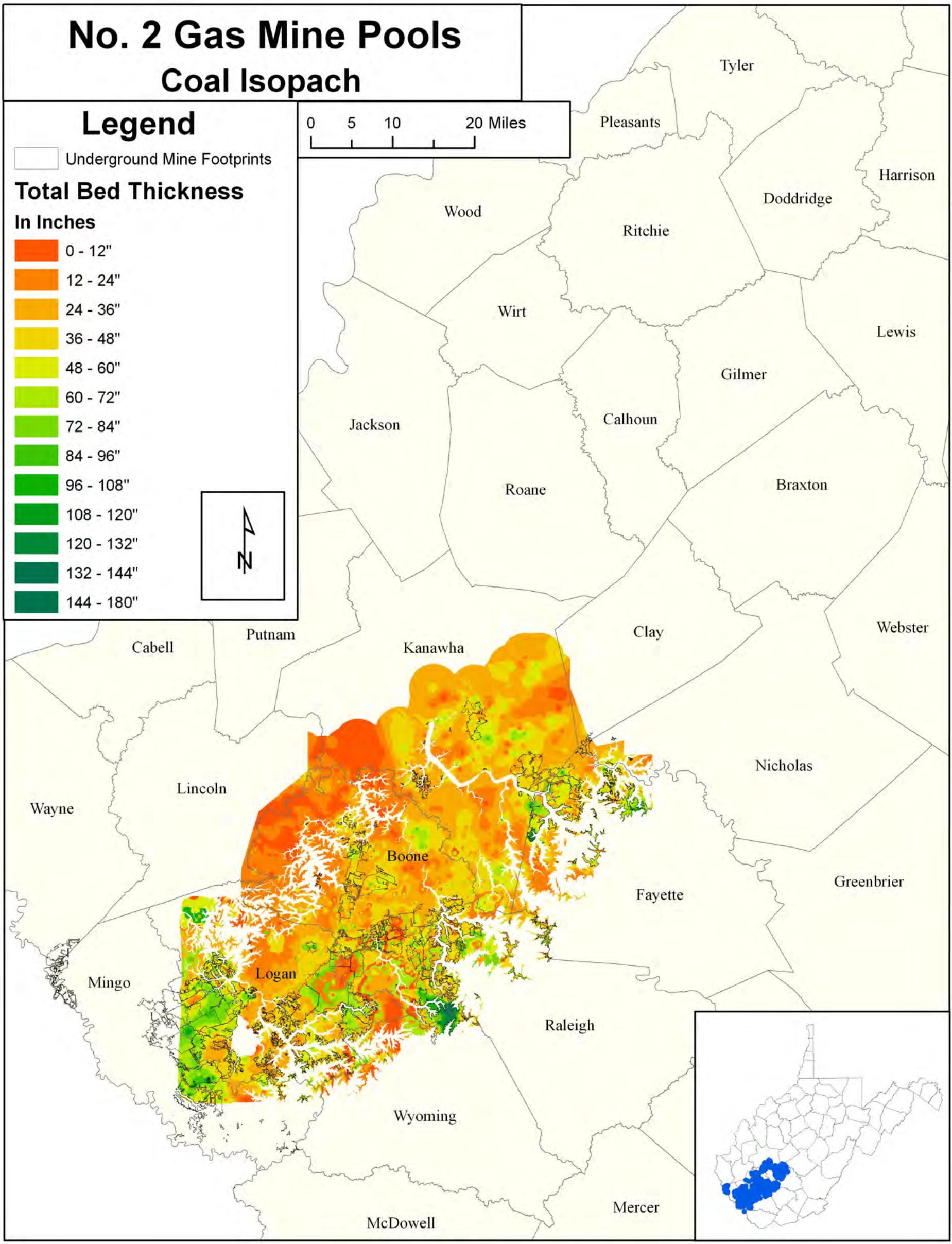
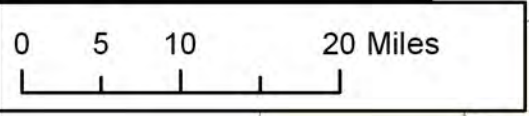
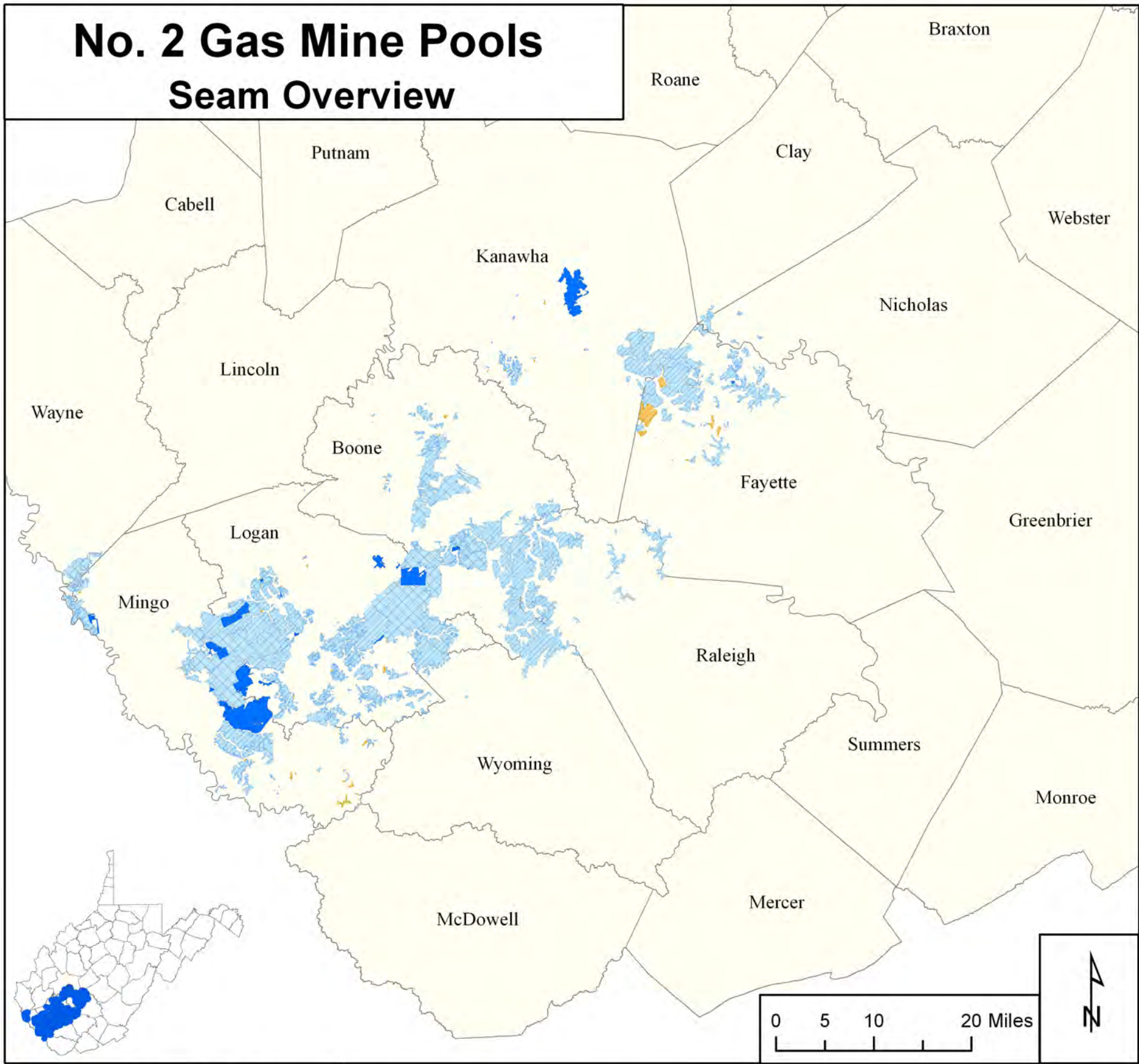


Figure 18b



Legend

Position

- Above drainage
- Near drainage
- Below drainage

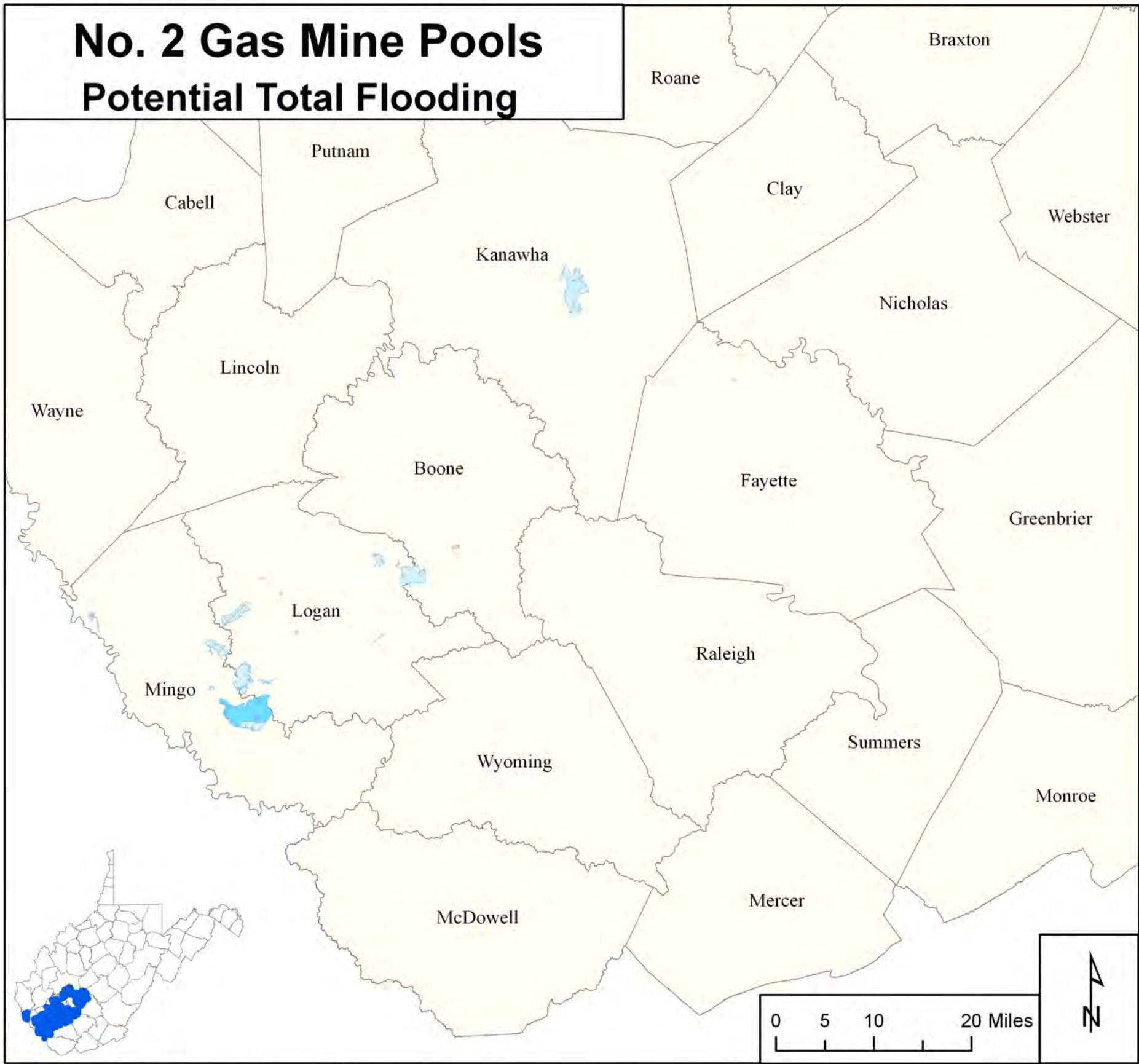
Potential Extent of Flooding

- Undetermined
- Flooded areas unlikely
- Partially flooded
- Totally flooded

No. 2 Gas Mine Pool Statistics

	Undetermined	Potentially flooded areas unlikely	Potentially partially flooded	Potentially totally flooded
No. of Mines	5	79	460	21
Mean coal bed thickness (feet)	2.33	3.64	3.55	4.31
Min. footprint area (acres)	0.08	0.01	0.02	22.63
Max. footprint area (acres)	94.36	1,504.81	14,838.87	6,268.92
Mean footprint area (acres)	19.81	35.84	460.33	963.91
Median footprint area (acres)	0.31	1.68	30.48	292.18
Total footprint area (acres)	99.07	2,831.57	211,751.84	20,242.08
Estimated void volume (acre feet)	104.77	7,013.48	451,091.78	51,374.31
Max. potential storage (million gallons)	34.14	2,285.69	147,010.81	16,742.89

Figure 18c



Position Legend

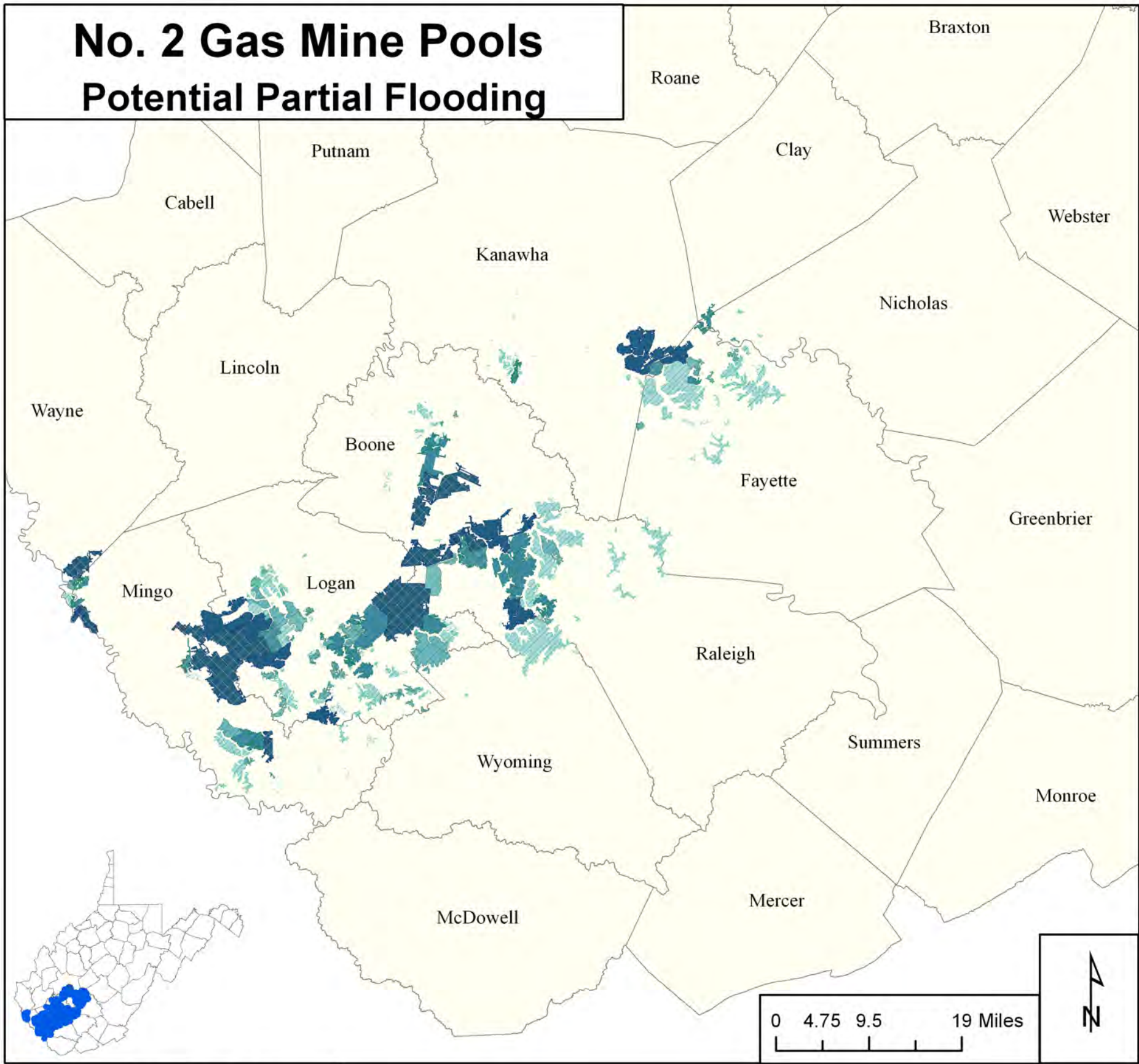
- Above drainage
- Near drainage
- Below drainage

Storage in Million Gallons

- 0.000 - 5,000
- 5,001 - 10,000
- 10,001 - 15,000
- 15,001 - 20,000
- 20,001 - 25,000
- 25,001 - 30,000

No. 2 Gas Pool Statistics			
	Potentially totally flooded above drainage mines	Potentially totally flooded near drainage mines	Potentially totally flooded below drainage mines
No. of Mines	3	3	15
Mean coal bed thickness (feet)	3.78	4.47	4.39
Min. foot print area (acres)	22.63	143.21	42.03
Max. foot print area (acres)	42.94	1,592.96	6,268.92
Mean foot print area (acres)	34.40	898.37	1,162.92
Median foot print area (acres)	37.64	958.94	508.98
Total foot print area (acres)	103.20	2,695.11	17,443.77
Estimated void volume (acre feet)	179.62	5,933.67	45,261.02
Max. potential storage (million gallons)	58.54	1,933.78	14,750.57

Figure 18d



Legend		No. 2 Gas Mine Pool Statistics		
			Potentially partially flooded above drainage mines	Potentially partially flooded near drainage mines
Position				
	Above drainage			
	Near drainage			
Potential Partial Flooding				
	Very small area(s)			
	Small area(s)			
	Intermediate area(s)			
	Large area(s)			
	Very large area(s)			
No. of Mines		424	36	
Mean coal bed thickness (feet)		3.51	3.91	
Min. footprint area (acres)		0.02	0.64	
Max. footprint area (acres)		8,215.04	14,838.87	
Mean footprint area (acres)		329.98	1,995.62	
Median footprint area (acres)		22.69	975.63	
Total footprint area (acres)		139,909.41	71,842.43	
Estimated void volume (acre feet)		281,081.49	170,010.29	
Max. potential storage (million gallons)		91,604.46	55,406.35	

Figure 18e

Powellton Mine Pools Structure Contour

Legend

- Coalbed Elevation (200 ft Intervals)
- Underground Mine Footprints

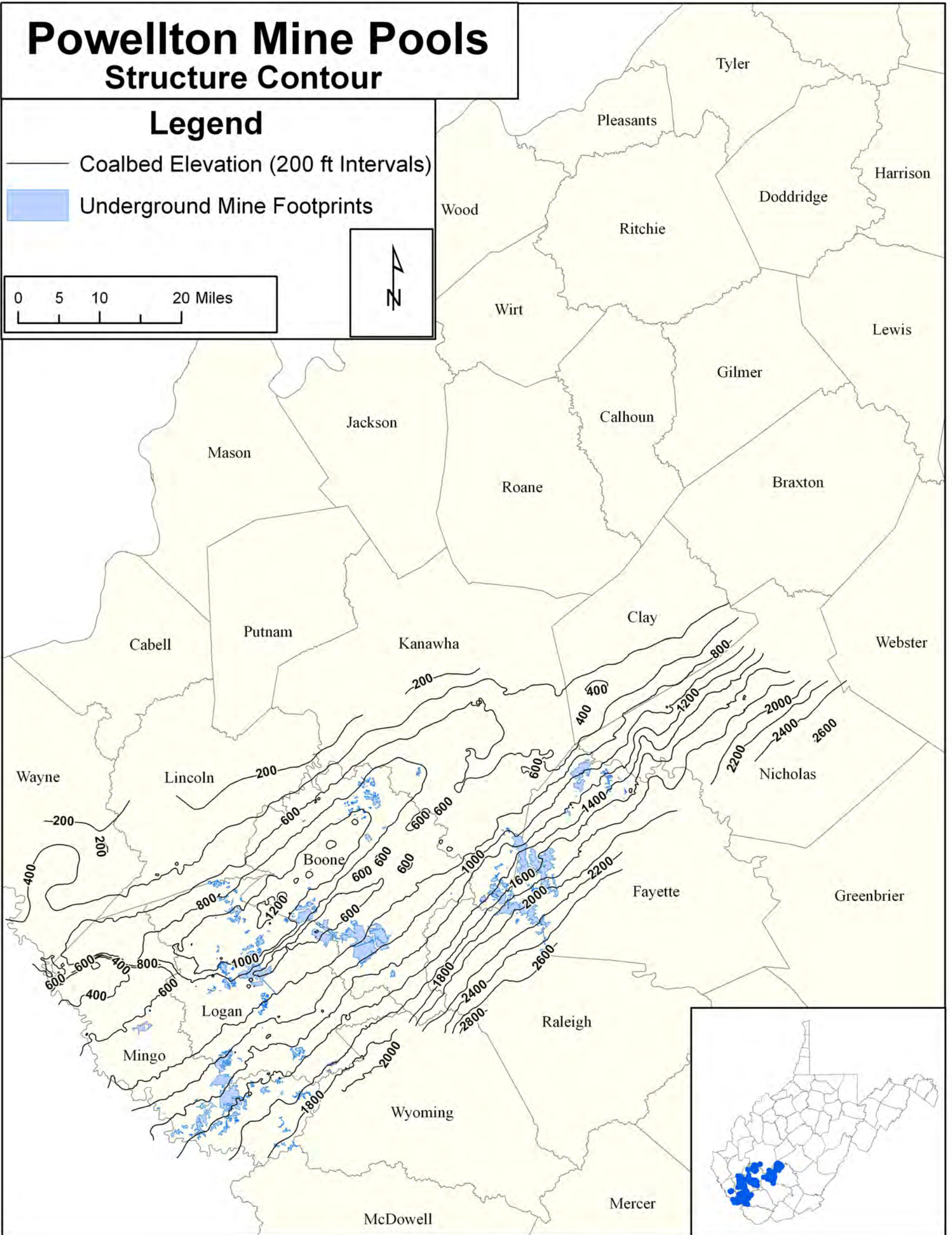
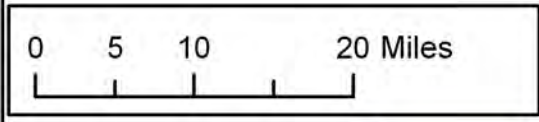



Figure 19a

Powellton Mine Pools











Coal Isopach

Legend

 Underground Mine Footprints

Total Bed Thickness

In Inches

-  0 - 12"
-  12 - 24"
-  24 - 36"
-  36 - 48"
-  48 - 60"
-  60 - 72"
-  72 - 84"
-  84 - 96"
-  96 - 108"
-  108 - 120"
-  120 - 168"



0 5 10 20 Miles

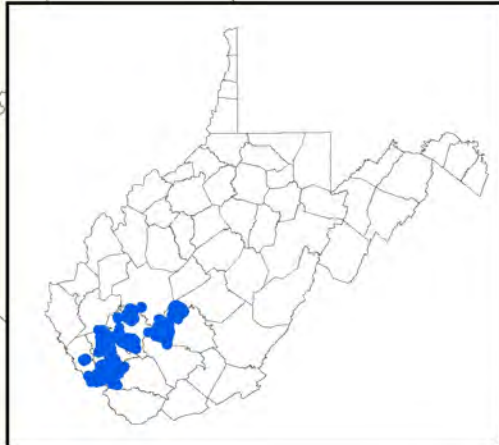
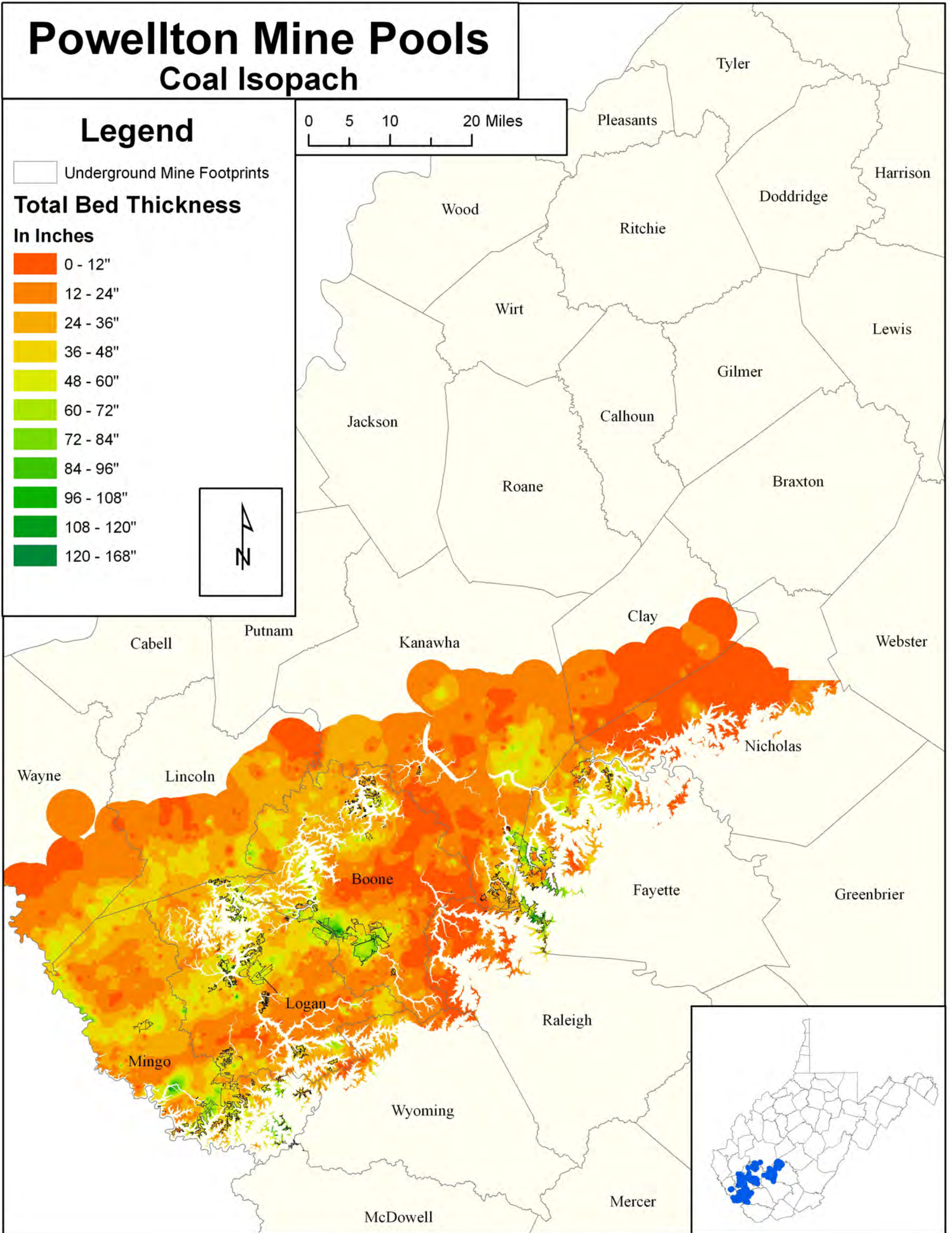
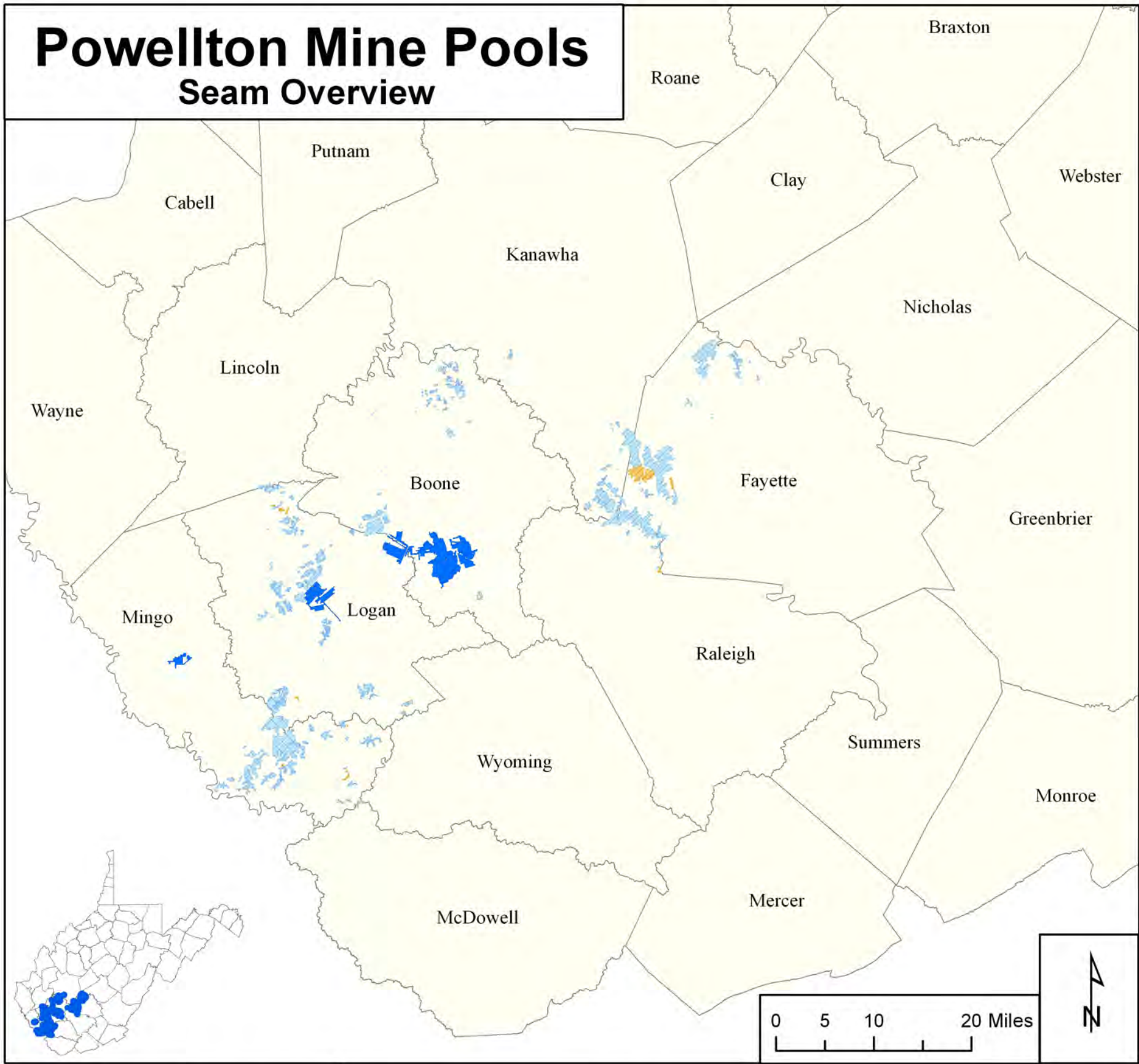


Figure 19b



Legend

Position

- Above drainage
- Near drainage
- Below drainage

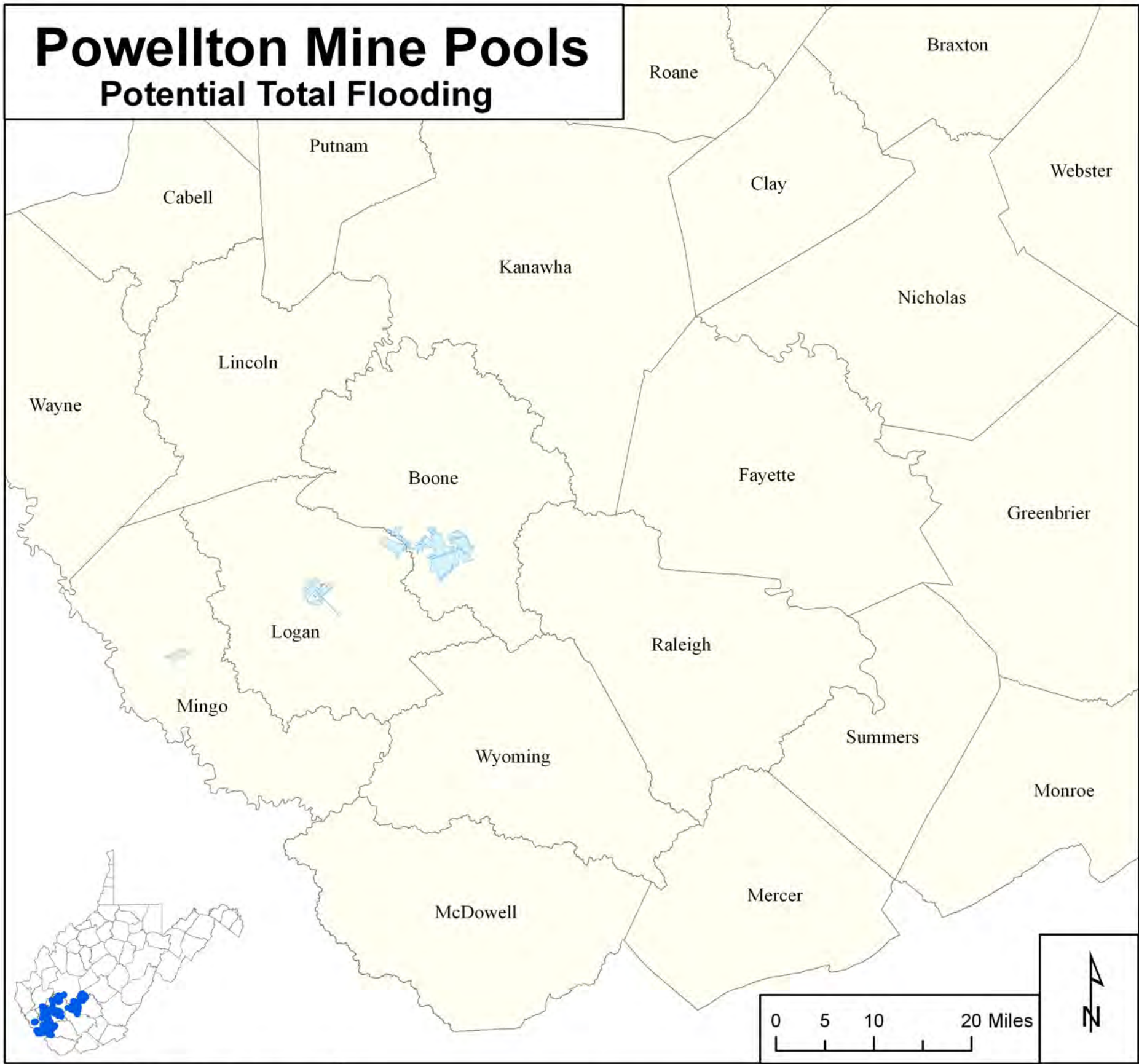
Potential Extent of Flooding

- Undetermined
- Flooded areas unlikely
- Partially flooded
- Totally flooded

Powellton Mine Pool Statistics

	Undetermined	Potentially flooded areas unlikely	Potentially partially flooded	Potentially totally flooded
No. of Mines	3	44	267	7
Mean coal bed thickness (feet)	1.59	3.29	3.39	4.65
Min. footprint area (acres)	3.59	0.01	0.01	706.86
Max. footprint area (acres)	161.17	1,126.18	4,755.16	3,633.60
Mean footprint area (acres)	57.62	47.41	152.39	2,096.45
Median footprint area (acres)	8.11	2.21	22.44	2,040.75
Total footprint area (acres)	172.87	2,085.84	40,687.37	14,675.15
Estimated void volume (acre feet)	145.02	3,493.12	75,364.21	35,651.81
Max. potential storage (million gallons)	47.26	1,138.41	24,561.20	11,618.92

Figure 19c



Legend

Position

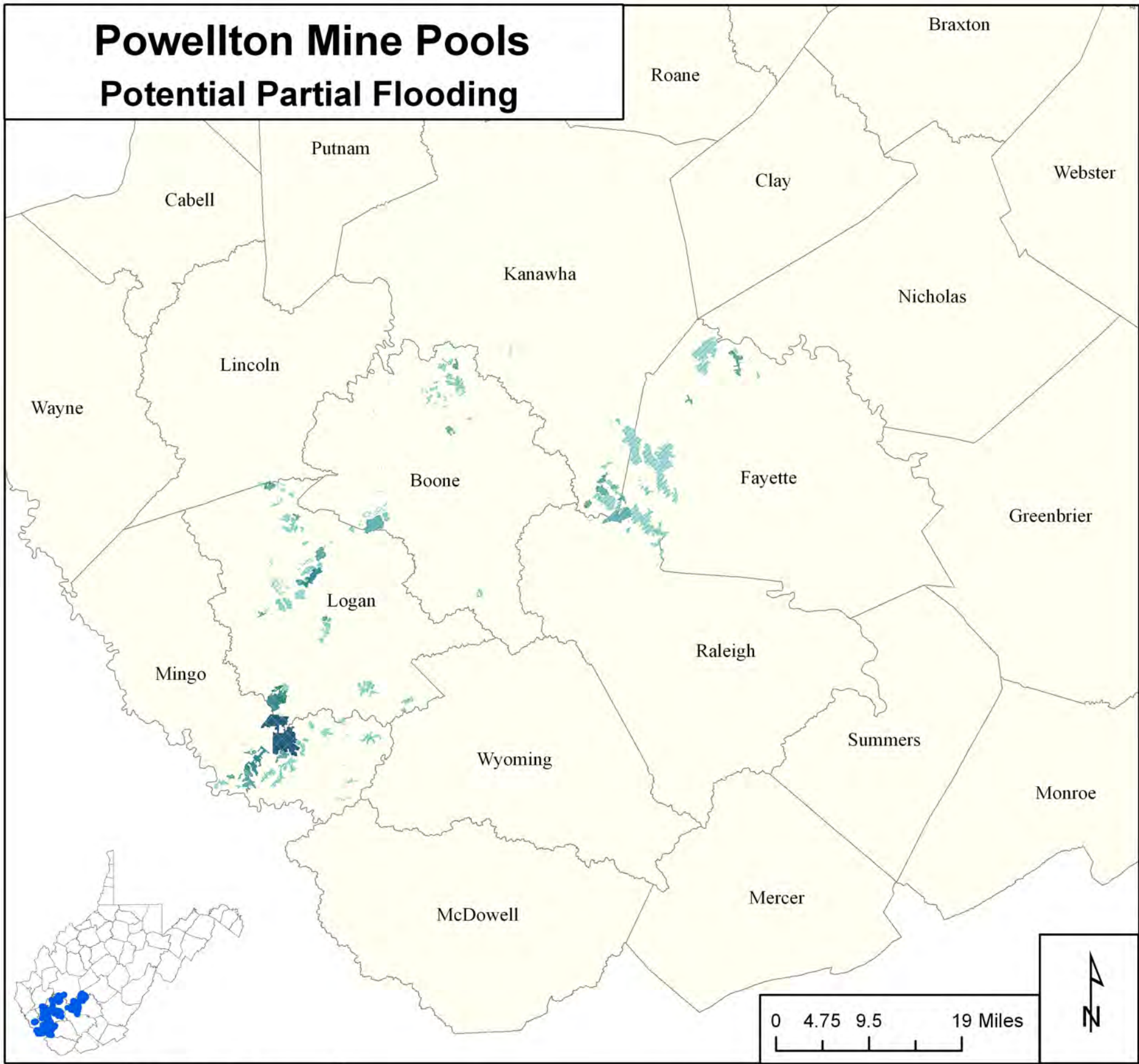
- Above drainage
- Near drainage
- Below drainage

Storage in Million Gallons

- 0.000 - 5,000
- 5,001 - 10,000
- 10,001 - 15,000
- 15,001 - 20,000
- 20,001 - 25,000
- 25,001 - 30,000

Powellton Mine Pool Statistics			
	Potentially totally flooded above drainage mines	Potentially totally flooded near drainage mines	Potentially totally flooded below drainage mines
No. of Mines	0	1	6
Mean coal bed thickness (feet)	0.00	4.25	4.72
Min. foot print area (acres)	0.00	2,626.71	706.86
Max. foot print area (acres)	0.00	2,626.71	3,633.60
Mean foot print area (acres)	0.00	2,626.71	2,008.07
Median foot print area (acres)	0.00	2,626.71	1,930.53
Total foot print area (acres)	0.00	2,626.71	12,048.44
Estimated void volume (acre feet)	0.00	5,645.37	30,006.44
Max. potential storage (million gallons)	0.00	1,839.83	9,779.10

Figure 19d



Legend		Powellton Mine Pool Statistics		
Position				
	Above drainage			
	Near drainage			
Potential Partial Flooding				
	Very small area(s)			
	Small area(s)			
	Intermediate area(s)			
	Large area(s)			
	Very large area(s)			
		Potentially partially flooded above drainage mines	Potentially partially flooded near drainage mines	
No. of Mines		261	6	
Mean coal bed thickness (feet)		3.39	3.27	
Min. footprint area (acres)		0.01	3.46	
Max. footprint area (acres)		4,288.44	4,755.16	
Mean footprint area (acres)		131.21	1,073.74	
Median footprint area (acres)		22.22	66.55	
Total footprint area (acres)		34,244.95	6,442.42	
Estimated void volume (acre feet)		64,627.00	10,737.21	
Max. potential storage (million gallons)		21,061.94	3,499.26	

Figure 19e

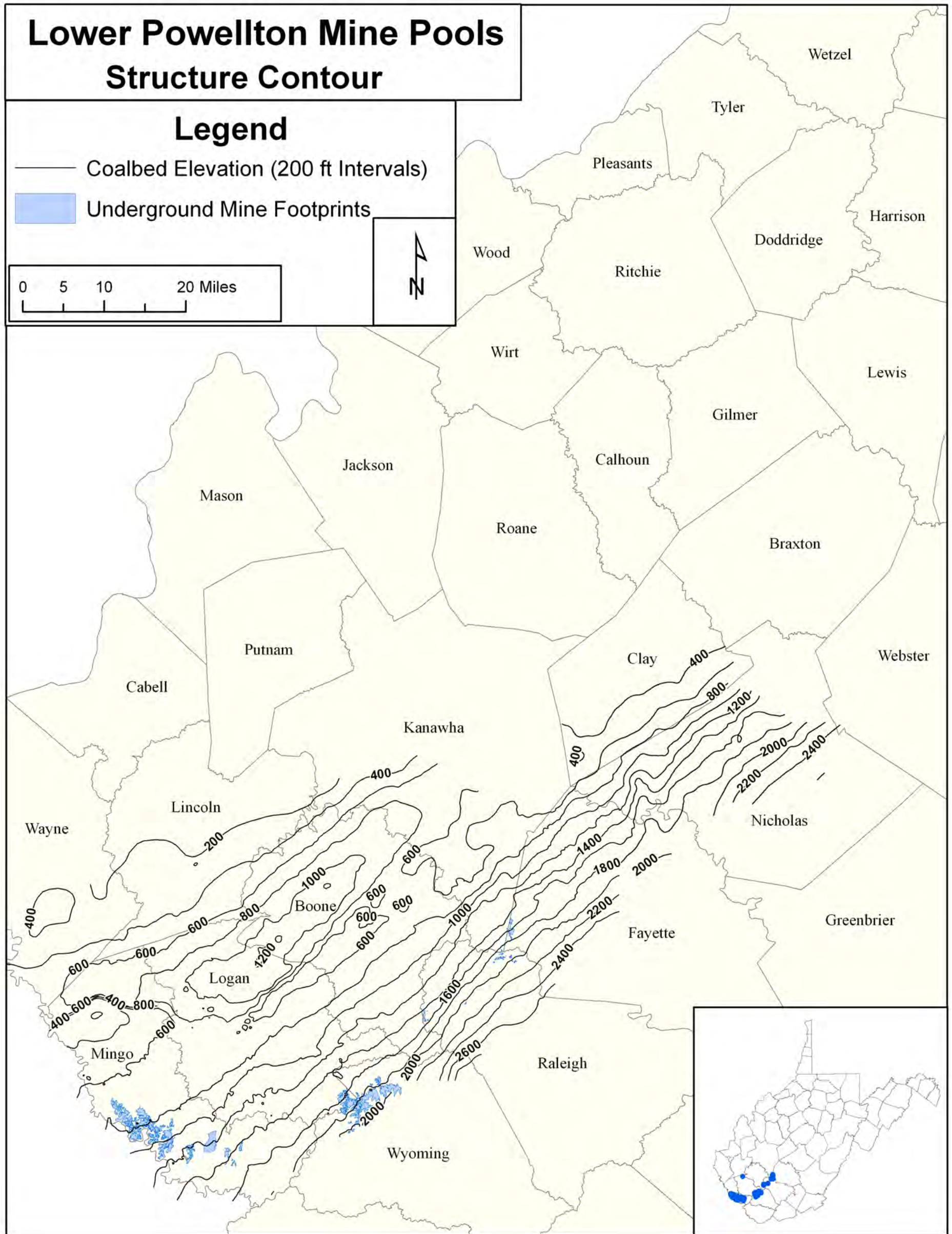


Figure 20a

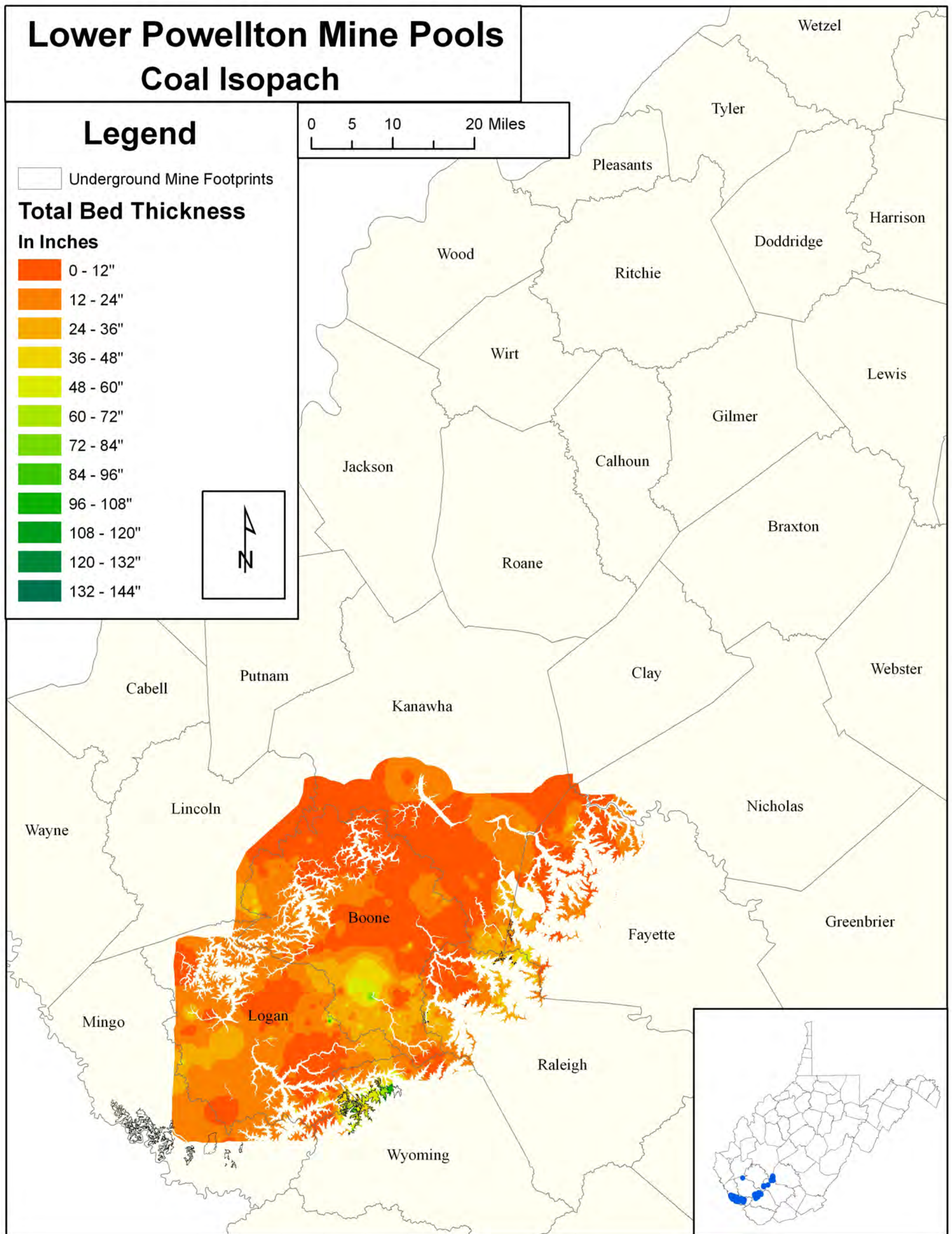


Figure 20b