

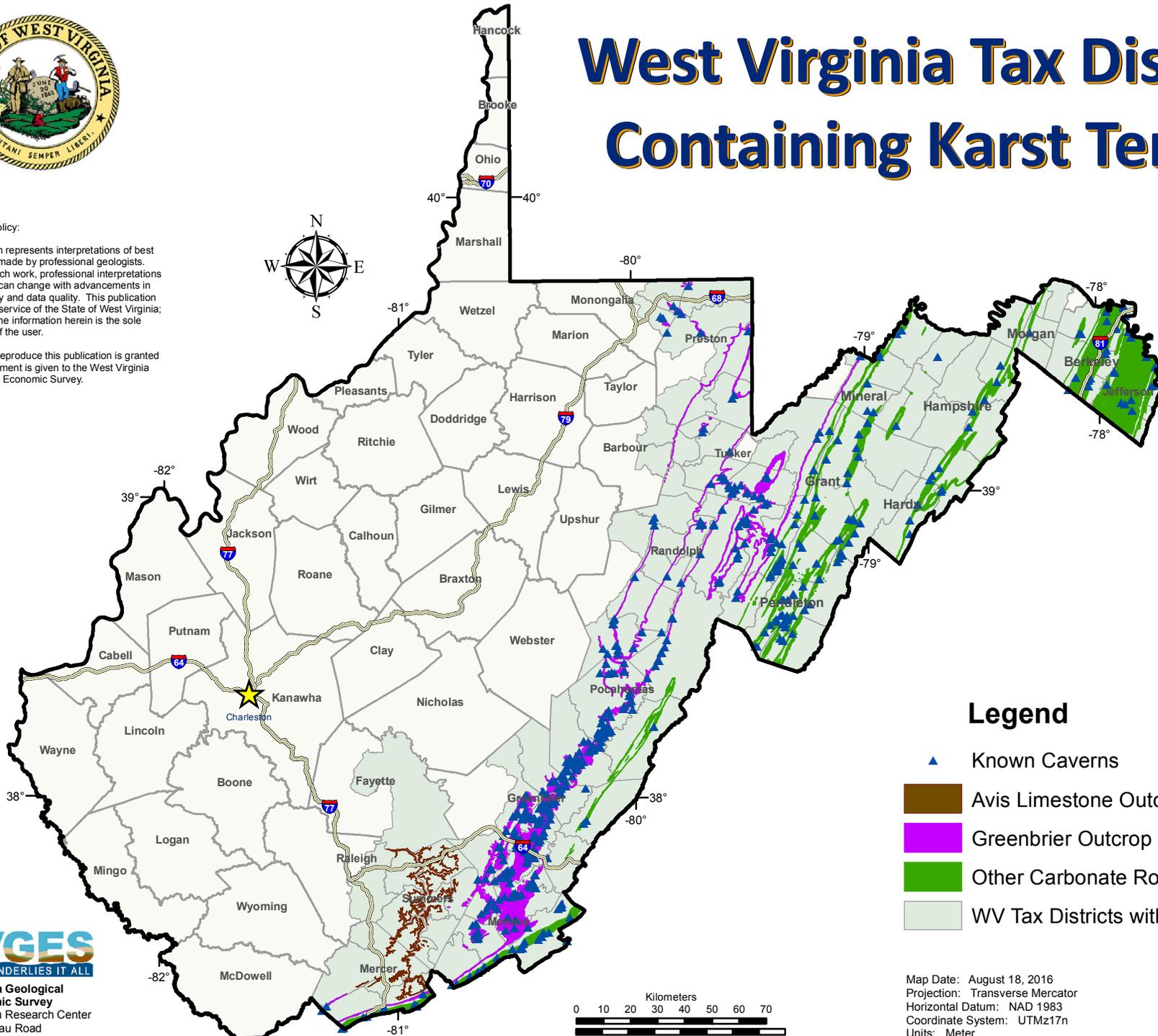


West Virginia Tax Districts Containing Karst Terrain

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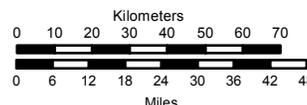


Legend

- ▲ Known Caverns
- Avis Limestone Outcrop
- Greenbrier Outcrop
- Other Carbonate Rocks Outcrop
- WV Tax Districts with Karst Terrain



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Map Date: August 18, 2016
Projection: Transverse Mercator
Horizontal Datum: NAD 1983
Coordinate System: UTMz17n
Units: Meter
Map Scale (for full 8.5" x 11" display): 1:2,000,000

West Virginia Tax Districts Containing Karst Terrain

“Karst terrain” means a terrain, generally underlain by limestone or dolomite, in which the topography is formed chiefly by the dissolving of rock and which may be characterized by sinkholes, sinking streams, closed depressions, subterranean drainage, and caves.

The principal karst-forming carbonate rocks in West Virginia are within the Mississippian Greenbrier Group; Devonian and Silurian Helderberg Group and Tonoloway Limestone; and Ordovician and Cambrian Black River Group, Saint Paul Group, Beekmantown Group, Conococheague Formation, Elbrook Formation, and Tomstown Dolomite. Based on recent geologic mapping in southern West Virginia, the Mississippian Avis Limestone, also known as the Little Stone Gap, can be added to this list.

This map shows the outcrop of these carbonate units and the tax districts in which the outcrops occur. It is based on publications of this agency as well as field observations by experienced Geological and Economic Survey geologists who have conducted detailed geologic mapping in the state.

The only publically-available source of cave locations in West Virginia is West Virginia Geological and Economic Survey Volume 19A by William E. Davies, titled “Caverns of West Virginia.”¹ It was first published in 1949, revised and reprinted in 1958, and reprinted with supplement in 1965. The map shows locations of caves from Volume 19A observed within the carbonate outcrop area. Despite the fact that Davies’ locations were somewhat generalized, they fall on the bands of carbonate outcrop.

Davies book also lists cave locations in other parts of the state, but they are for the most part isolated, very small, in some cases “shelter” caves, or formed in sandstone, and are not part of a karst terrain. Thin marine limestones occur in the coal measures, but where these units crop out in the northern part of the state, isolated caves are few in number and small in size. Similarly, an outcrop of the Greenbrier Limestone occurs in Webster County near Webster Springs, but it is very limited in areal extent and not included in the map.

Therefore, this map identifies those districts that contain outcrops of geological units exhibiting the characteristics of karst, including caves and sinkholes.

¹ Davies, William E., *Caverns of West Virginia*, (Volume 19A): http://www.wvgs.wvnet.edu/wvges2/publications/PubCat_Details.aspx?PubCatID=V-19A

For more detailed geologic mapping:

➔ Please see our “Geologic Mapping, including STATEMAP Projects” page:

<http://www.wvgs.wvnet.edu/www/statemap/statemap.htm>

➔ You can order geospatial files (mostly Open File (OF) reports) from those projects via our Publication Section:

http://www.wvgs.wvnet.edu/wvges2/publications/PubCat_FAQs.aspx

List of Involved Tax Districts by County

Barbour

Cove
Glade

Berkeley

Arden
Falling Waters
Gerrardstown
Hedgesville
Mill Creek
Opequon

Fayette

New Haven

Grant

Grant
Milroy
Union

Greenbrier

Anthony Creek
Blue Sulphur
Falling Springs
Fort Springs
Frankford
Irish Corner
Lewisburg
White Sulphur
Williamsburg

Hampshire

Bloomery
Capon
Gore
Mill Creek
Romney
Sherman
Springfield

Hardy

Capon
Lost River
Moorefield
South Fork

Jefferson

Charles Town
Harpers Ferry
Kabletown
Middleway
Shepherdstown

Mercer

Beaver Pond
East River
Jumping Branch
Plymouth
Rock

Mineral

Cabin Run
Frankfort
New Creek
Piedmont
Welton

Monongalia

Morgan
Union

Monroe

Red Sulphur
Second Creek
Springfield
Sweet Springs
Union
Wolf Creek

Morgan

Allen
Bath
Cacapon
Rock Gap
Timber Ridge

Pendleton

Bethel
Circleville
Franklin
Mill Run
Sugar Grove
Union

Pocahontas

Eday
Greenbank
Huntersville
Little Levels

Preston

Grant
Pleasant
Portland
Reno
Union
Valley

Raleigh

Richmond
Shady Spring

Randolph

Beverly
Dry Fork
Huttonsville
Leadsville
Mingo
New Interest
Roaring Creek
Valley Bend

Summers

Forest Hill
Green Sulphur
Greenbrier
Jumping Branch
Pipestem
Talcott

Tucker

Blackfork
Clover
Davis
Dry Fork
Licking
St. George

