

WV Flood Tool Reference Layers

Reference Layers

Elevation

Aerial Imagery

E-911 Addresses

Parcels / Assessment Records

Building Footprints

4/8/2020 Update

Flood Tool Reference Layers

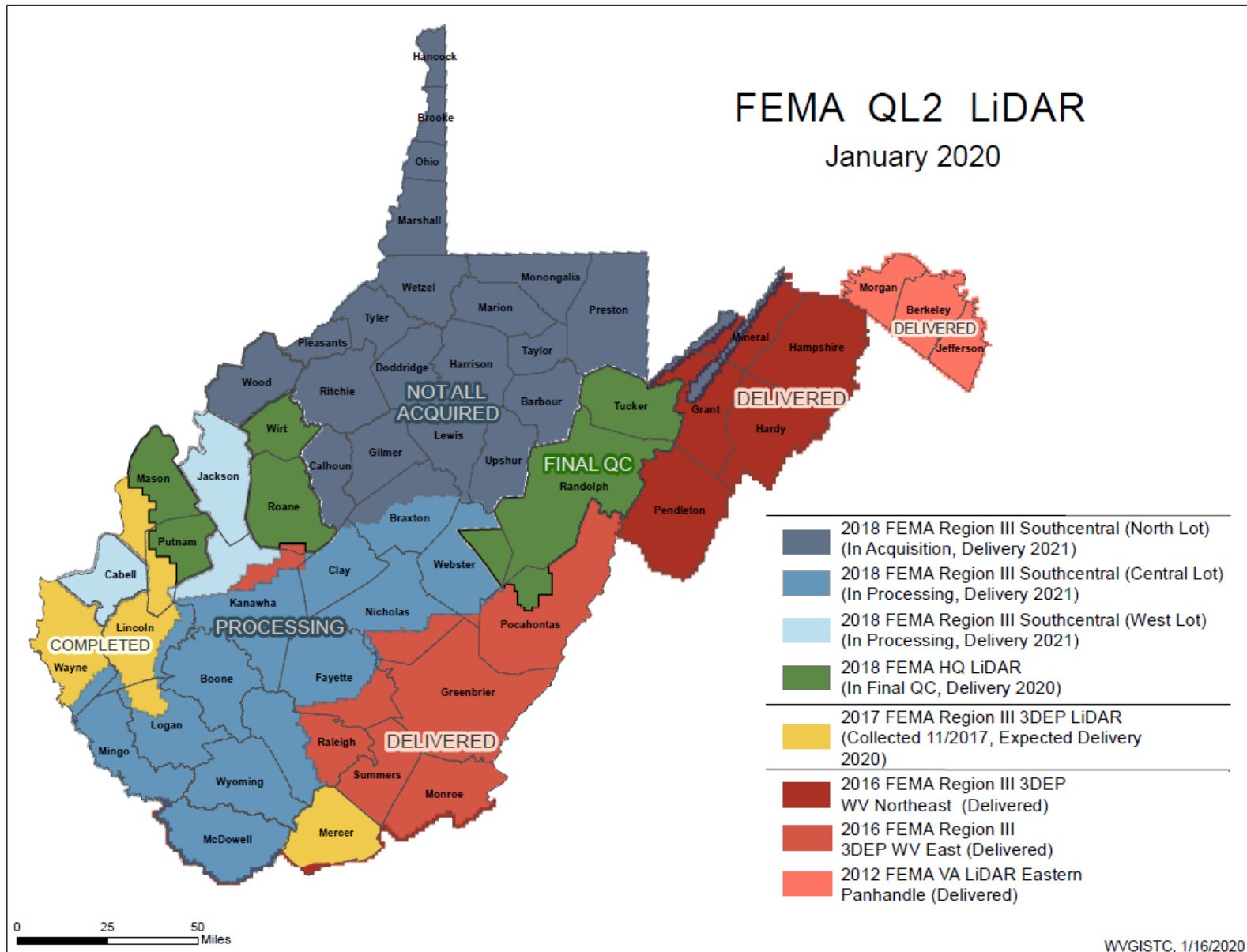
Elevation

WV Flood Tool Updates

Elevation

- **Grant, Hampshire, Hardy, Mineral, Pendleton, Mercer; partial coverage Lincoln, Mason, Putnam, Wayne Counties**
 - 2017-18 FEMA-Purchased LiDAR
 - 1-foot contours; 1-meter resolution Digital Elevation Model (DEM)
- **Berkeley and Morgan Counties**
 - Created 2-foot contours from 2012 FEMA-Purchased LiDAR DEM and published to WV Flood Tool
- **Logan County**
 - 2018 County-Purchased LiDAR
 - Published 1-foot resolution DEM to WV Flood Tool
- **Published new statewide DEM and Hillshade Grids to Flood Tool**
- **Updated Source Elevation Metadata**
https://www.mapwv.gov/floodtest/docs/WV_FloodTool_ElevationSource_Metadata.pdf

FEMA Purchased LiDAR Coverage



Ground Elevation: 1-ft. Contours

<https://www.mapwv.gov/flood/map/?wkid=102100&x=-9177701&y=4611497&l=13&v=1>

The screenshot displays the WV Flood Tool interface. The 'Layers' panel on the left has 'Contour Lines' checked. The map shows yellow 1-foot contours and red 600-foot contours. A callout box points to a specific contour line labeled '600 ft.'. The query results panel on the right shows 'Elevation: About 600 ft (Source: FEMA 2018)' and 'Elevation: 600 ft. Source: FEMA 2018'.

WV Flood Tool
Remember: When In Doubt, It's Not Out.

Make **Contour Lines** visible under **REFERENCE LAYERS**

Views: Public | Expert | Risk MAP | Flood | **Reference** | Basemaps

Layers:

- Address Label
- Parcels
- Building Footprint
- Community Boundaries
- SAMS E-911 Roads
- DOT Highway Routes*
- Streams / Place Names
- Contour Lines** info
- Public Lands
- Watersheds
- Wetlands*
- Soil*

* indicates that data is external web service

1-FOOT CONTOUR ELEVATION VALUE OF 600 FEET MATCHES 1-METER GRID SURFACE ELEVATION OF 600 FEET DISPLAYED IN QUERY RESULTS PANEL

1-ft Contours Display at Highest Zoom Level (1:564 Map Scale)

Elevation: 600 ft. Source: FEMA 2018

600 ft.

1-foot contours published for 10 counties

Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Zone: AE
Stream: Twelvepole Creek
Watershed (HUC8): Twelvepole (5090102)

FEMA's Flood Map: 54099C0180C | NFHL
Map Effective Date: 1/2/2013
Contacts: Wayne

Flood Height: Refer to FIS report for BFE
Water Depth: N/A
HEC-RAS Model: N/A

Flood Profile: 54099_025

Community: Town of Wayne
CID: 540231 | **CRS Class:** 10

Location (lat, long): (38.226674, -82.444695)
Location (UTM 17N): (4231951, 373548)

External Viewers:

Elevation: About 600 ft (Source: FEMA 2018)

Address: multiple addresses
Parcel:

Flood Risk: Flood Risk Assessment N/A
3D Flood Visualization: No Depth Grid Available

FEMA LiDAR-Derived Products: 1-M DEM and 1-Foot Contours

Elevation: 2-ft. Contour Creation

2-foot contours created for Berkeley and Morgan Counties

The screenshot displays the WV Flood Tool interface. The top navigation bar includes 'About', 'Help', and 'Home'. Below the 'WV Flood Tool' header, there are tabs for 'Views' (Public, Expert, Risk MAP, Flood) and 'Layers' (Reference, Basemaps). A search bar is present with the placeholder text 'e.g., 123 street name, city, state, zip'. The main map area shows an aerial view with yellow 2-foot elevation contours. A specific contour at 390 feet is highlighted with a blue circle and an arrow pointing to the query results panel. The 'Layers' panel on the left has 'Contour Lines' checked. The query results panel on the right shows the following information:

- Flood Hazard Area: Location is WITHIN an updated detailed floodplain boundary but NOT a FEMA 100-year effective floodplain. [More Info](#)
- Flood Zone: Updated AE Floodplain Boundary
- Stream: N/A
- Watershed (HUC8): Conococheague-Opequon (2070004)
- FEMA's Flood Map: N/A
- Map Effective Date: 7/7/2009
- Contacts: Berkeley
- Community: City of Martinsburg
CID: 540006 CRS Class: 8
- Location (lat, long): (39.452208, -77.958170)
- Location (UTM 17N): (4371377, 761737)
- External Viewers: [Share](#) [Print](#) [Download](#)
- Elevation: About 390 ft (Source: FEMA 2012)**
- Address: 301 CHESTNUT ST, Martinsburg, WV, 25401
- Parcel: 02-06-0019-0111-0000 | Assessment
- Flood Risk Information: [Related Resources](#)
- Flood Risk Assessment: N/A
- 3D Flood Visualization

Scale: 1:564
x: -77.958288, y: 39.451884
@WVGISTC Leaf-Off Mixed-Resolution Imagery

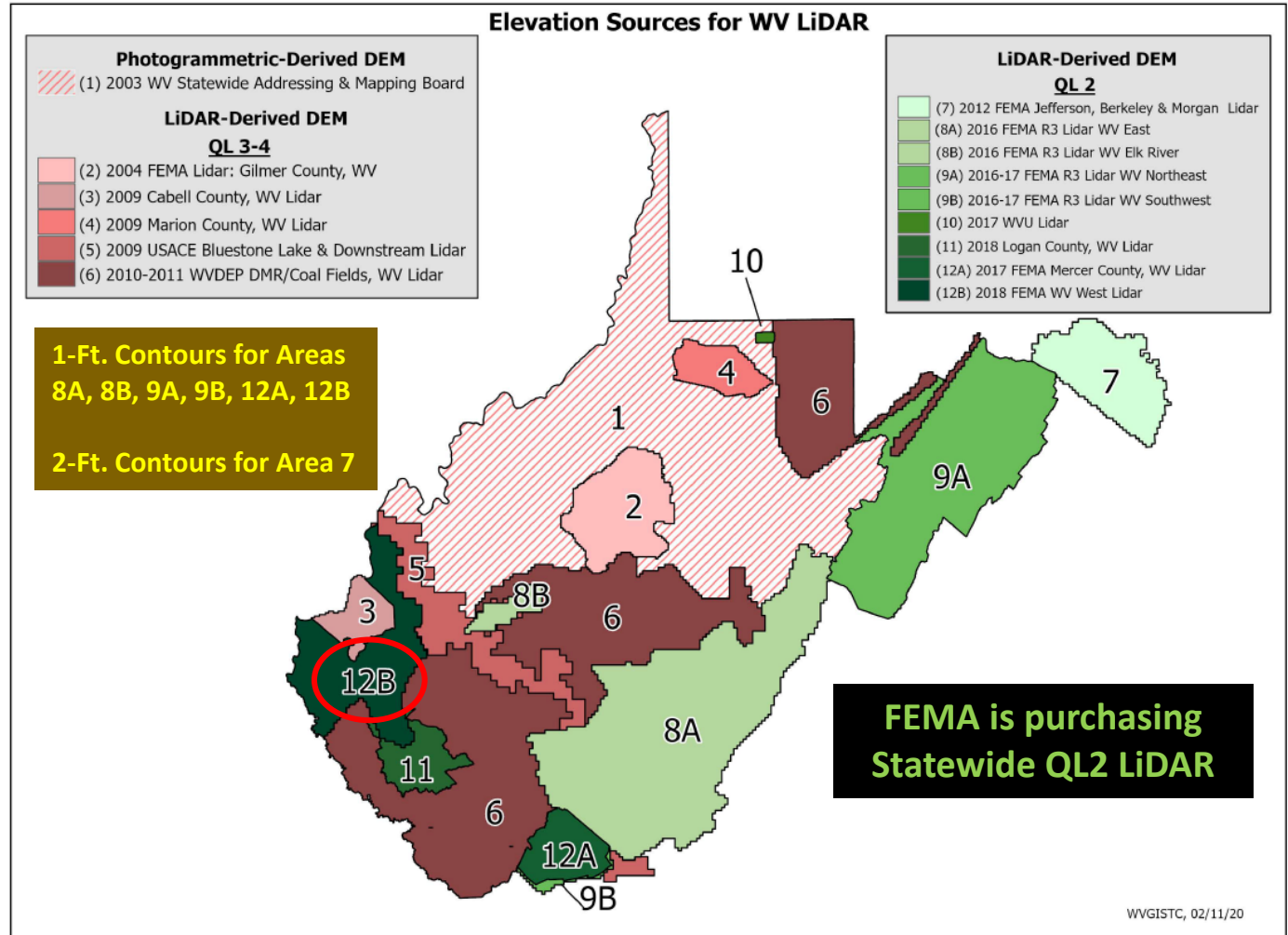
2-ft Contours Display at Highest Zoom Level (1:564 Map Scale)

2-FOOT CONTOUR ELEVATION VALUE OF 390 FEET MATCHES 1-METER GRID SURFACE ELEVATION OF 390 FEET DISPLAYED IN QUERY RESULTS PANEL

Elevation Data Sources

Source Graphic

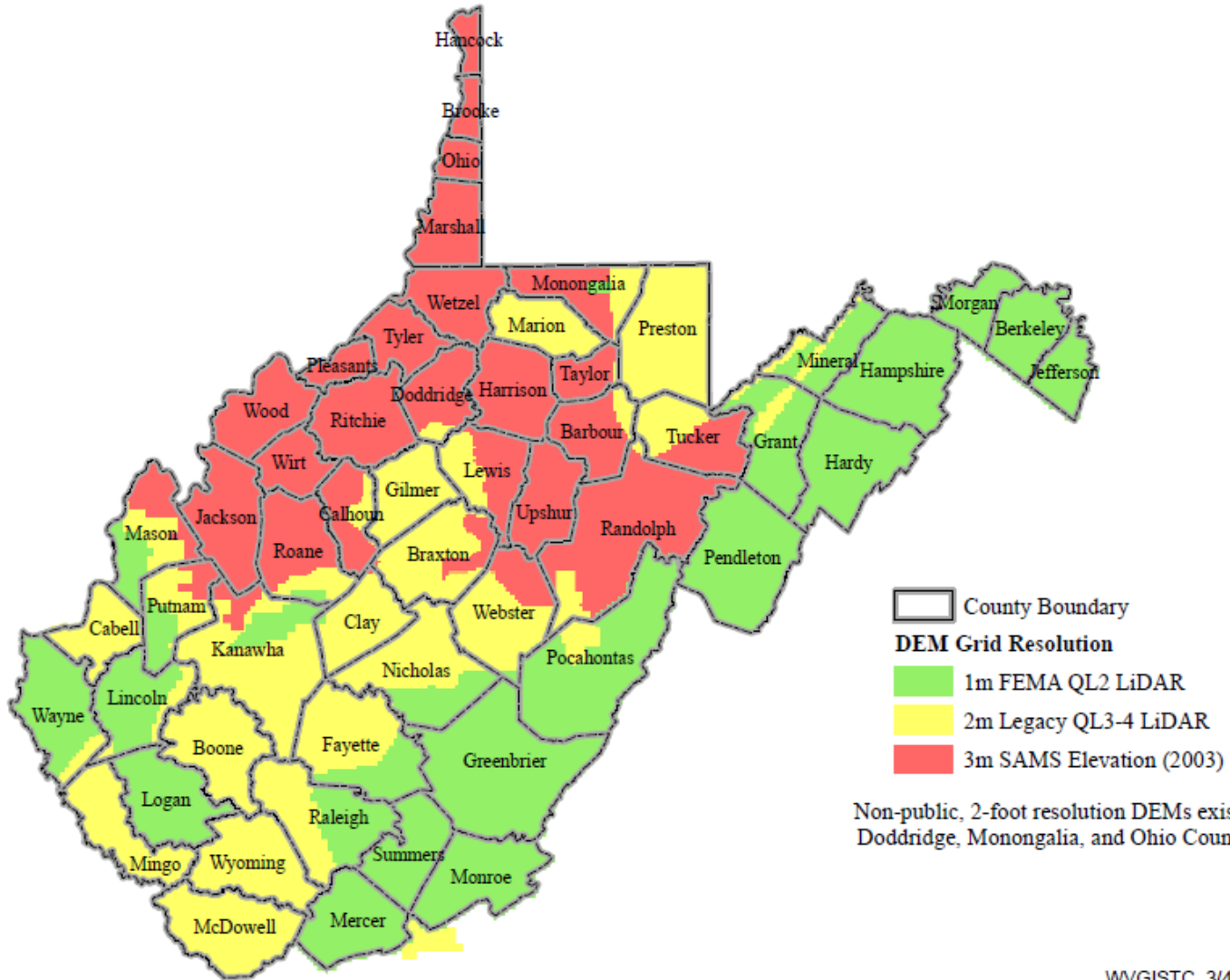
#	12B
WV Project Name	2017 NRCS FEMA South Central VA-WV West
Source	FEMA 2018
Year	2018
Quality Level	2
Grid Resolution	1m
Horizontal Accuracy	Not Provided
Vertical Accuracy	12.9 cm
Coordinate System	UTM Zone 17



Elevation Metadata

DEM Grid Resolution

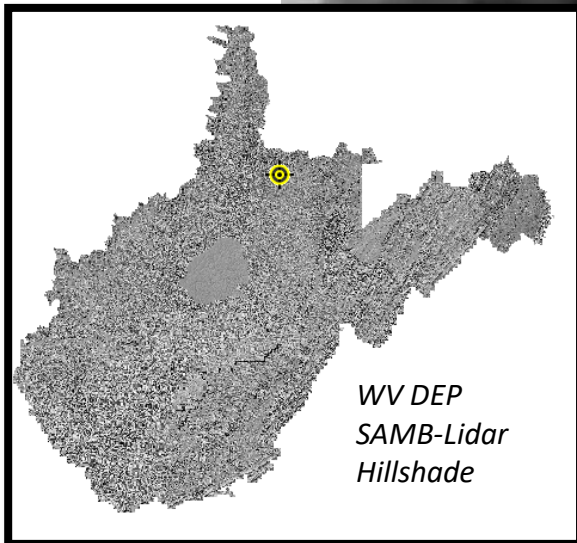
DEM Grid Resolution



Statewide Elevation Layers

Elevation Grids, Hillshade Grids, Contours, used for Flood Depths, Imagery Orthorectification

Layer	Source	Coverage
SAMB	2003 SAMB, 3-meter, 10-foot contours	Statewide
Lidar	Lidar, 2-foot or 1-foot contours	Select Areas



SAMB ELEVATION

LIDAR ELEVATION

Statewide Hillshade Basemap Product

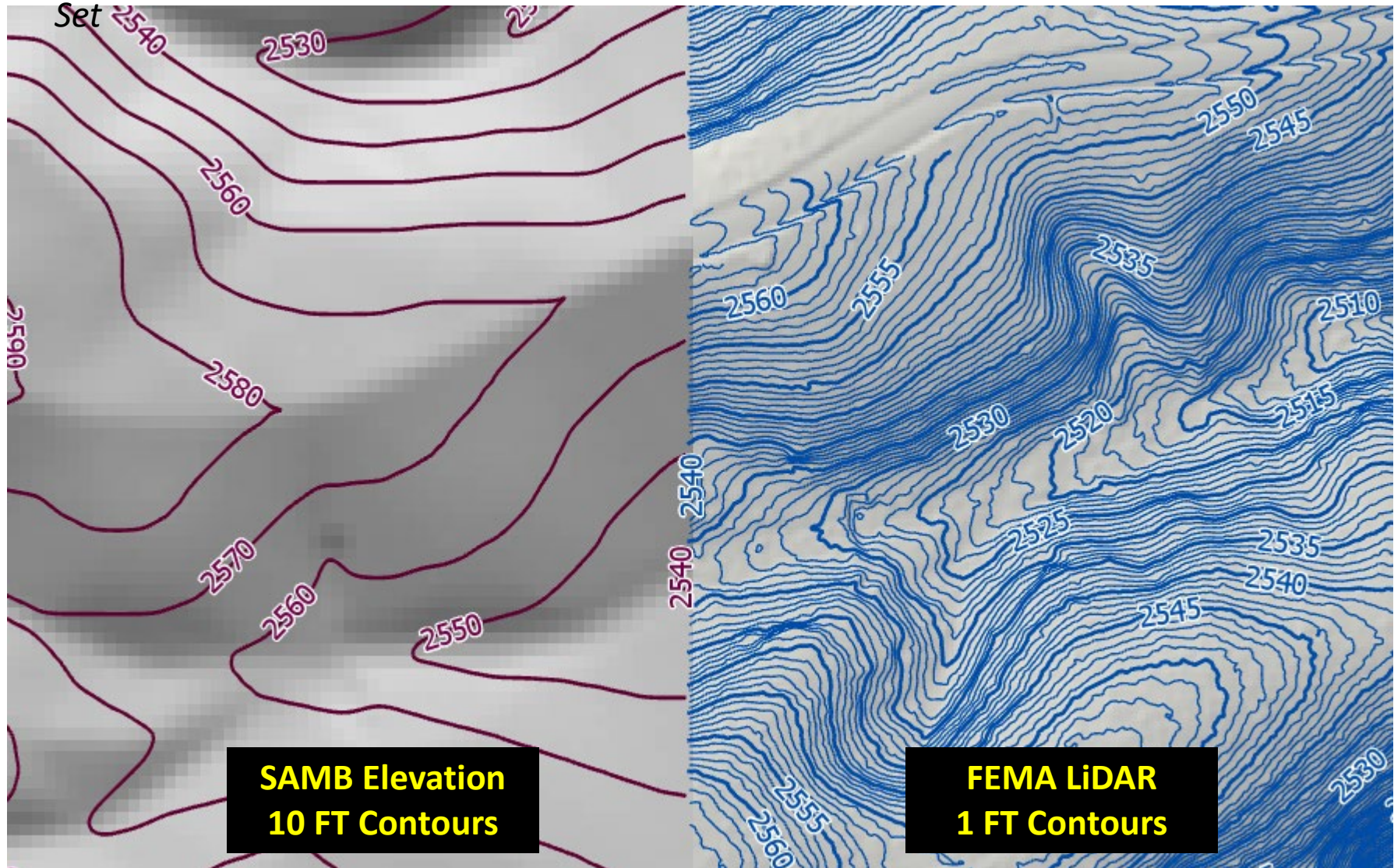
A hillshade is a grayscale 3D representation of the surface

The screenshot displays the WV Flood Tool interface. At the top left is a yellow house icon and the text "WV Flood Tool" with the slogan "Remember: When In Doubt, It's Not Out!". On the right are links for "About", "Help", and "Home". Below this is a navigation bar with "Views" (Public, Expert, Risk MAP, Flood, Reference) and "Layers" (Basemaps, highlighted with a black circle). A search bar is present with the placeholder "Address" and "e.g., 123 street name, city, state, zip". To the right are "Tools" icons for drawing, measuring, and printing. The main map area shows a grayscale hillshade basemap with a red flood zone labeled "Zone A5". A scale bar at the bottom left indicates 200m. On the right side, a panel displays nine map style thumbnails: ESRI Street, OpenStreetMap, Bing Road, Bing Hybrid, WV Best Leaves Off, Bing Imagery, ESRI Imagery, WV GISTC Hillshade (highlighted in yellow), and WV DEP Topography*.

Hillshade Basemap

High Resolution Contours

New FEMA LiDAR-Derived Contours are **10x** better than 2003 Statewide Elevation Data Set



Flood Tool Reference Layers

Aerial Imagery

WV Flood Tool Updates

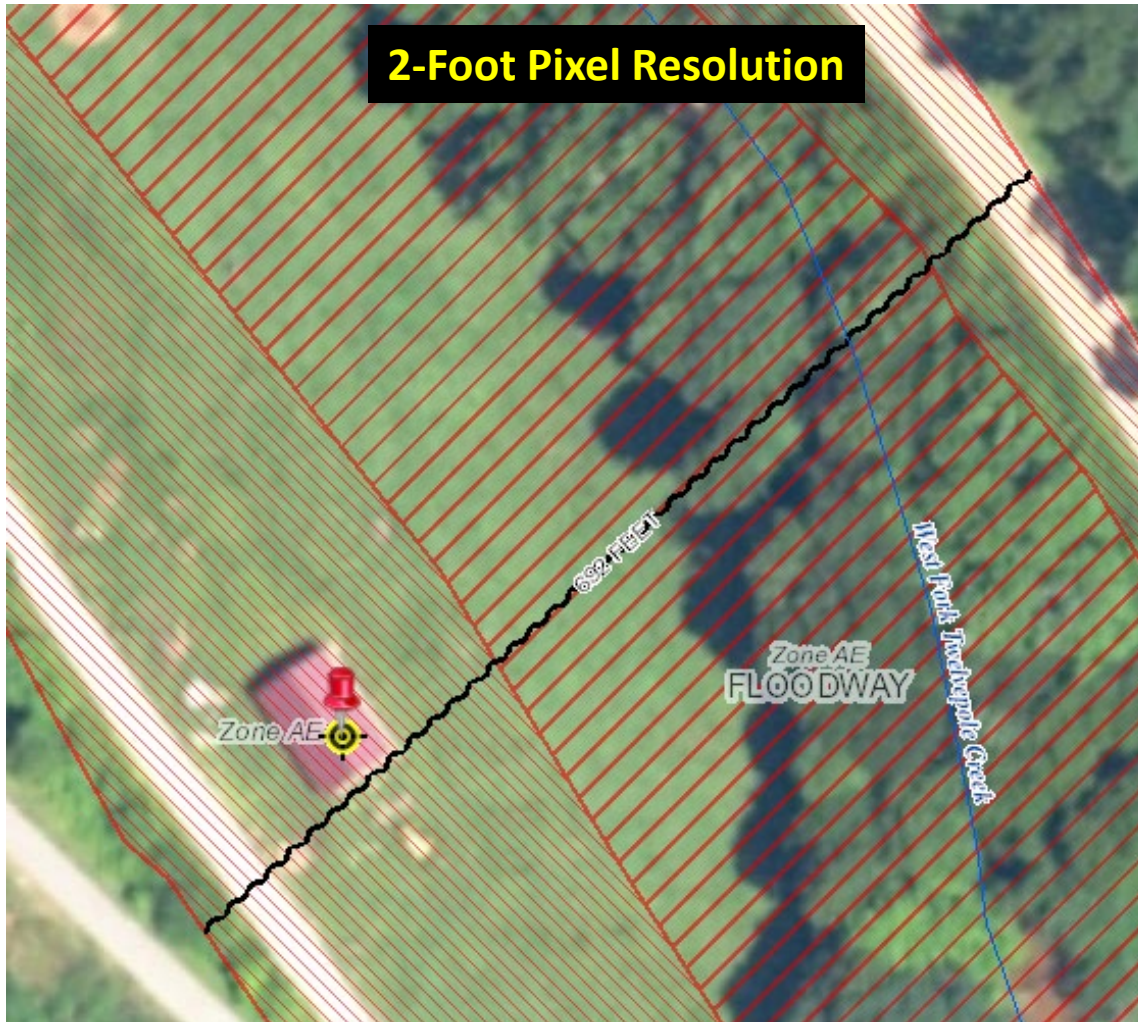
New Aerial Imagery

- **2018 USDA National Agriculture Imagery Program (NAIP)**
2-ft pixel resolution. Statewide Coverage.
- **2019 County Leaf-Of Aerial Imagery**
Typically 4-inch pixel resolution. 20 Counties.
- Over 20 counties have tapped into the **State Aerial Imagery Contract** supported by the Hazard Mitigation Grant for the acquisition of 2019-20 imagery.

Imagery can vary greatly in resolution. Pixel resolution refers to the actual distance on the ground that each pixel represents in the orthophotography. For example, four-inch pixel resolution means that each pixel in the image covers four inches on the ground.

New 2018 NAIP Aerial Imagery

<http://www.mapwv.gov/floodtest/?wkid=102100&x=-9176629&y=4583554&l=13&v=1>



Choose **WV NAIP (2018)** from Base Map Layers Pulldown Menu



WV GISTC
Basemap



WV NAIP (2018)



WV NAIP (2016)



WV NAIP (2014)



WV NAIP (2011)



WV Sheriff (2010-
12)



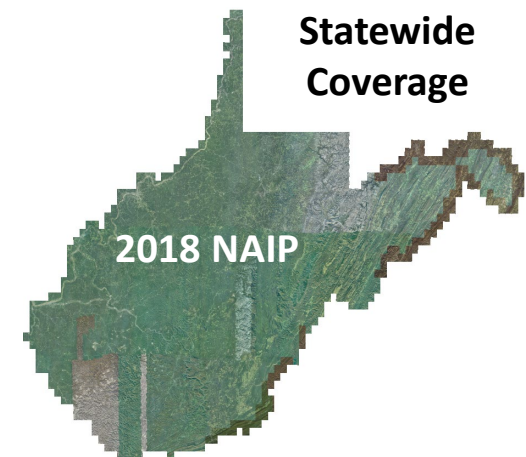
WV NAIP (2009)



WV NAIP (2007)

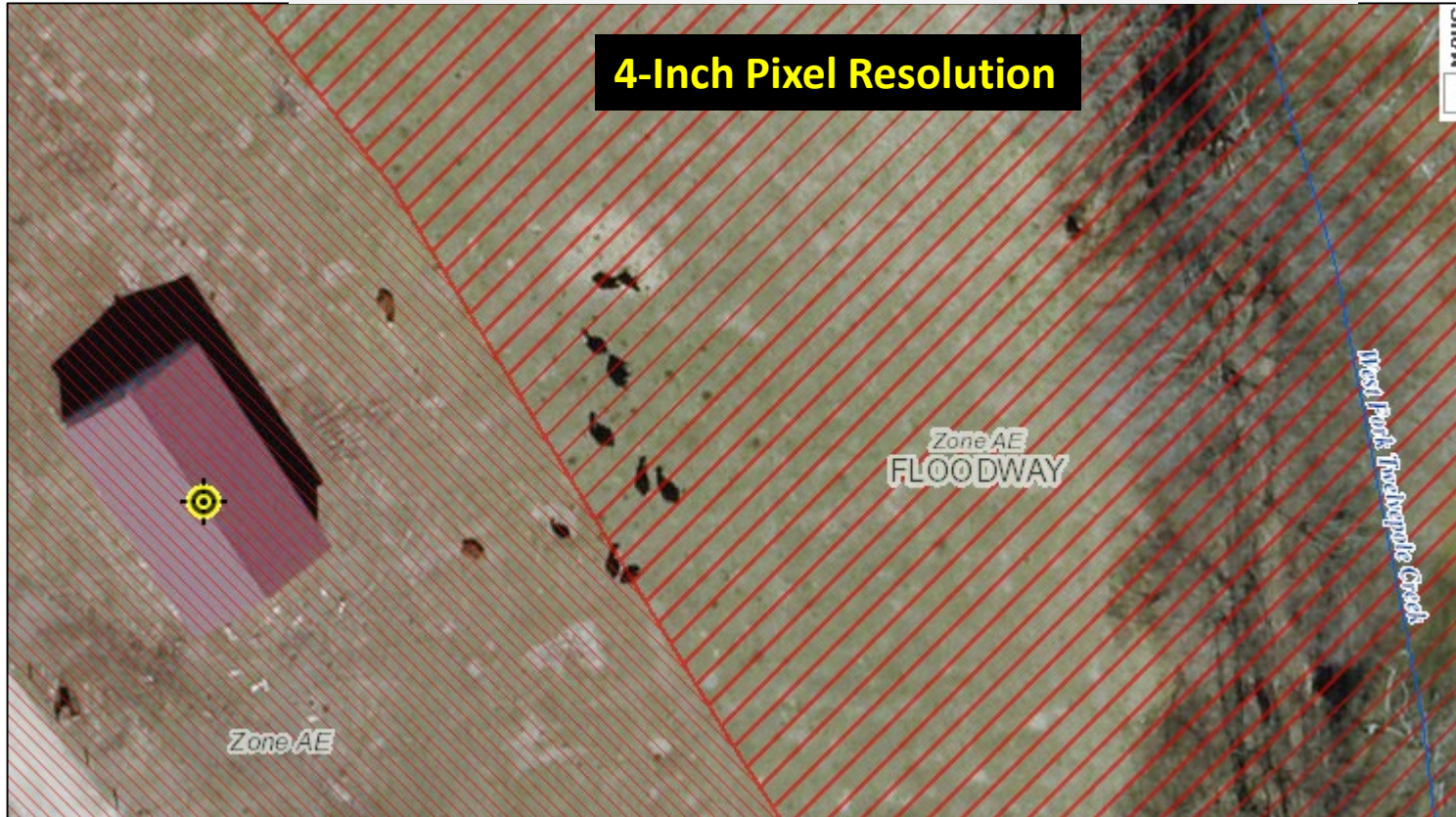


WV SAMB (2003)



New 2019 Leaf-Off Aerial Imagery

<http://www.mapwv.gov/floodtest/?wkid=102100&x=-9176629&y=4583554&l=13&v=1>



New 2019 Imagery on Flood Tool

- Braxton
- Cabell
- Calhoun
- Clay
- Doddridge
- Gilmer
- Harrison
- Jackson
- Marshall
- Monongalia
- Ohio
- Pocahontas
- Putnam
- Roane
- Taylor
- Tucker
- Tyler
- Wayne
- Wetzel
- Wirt

Choose **WV Best Leaves Off** Base Map



Bing Hybrid



WV Best Leaves Off

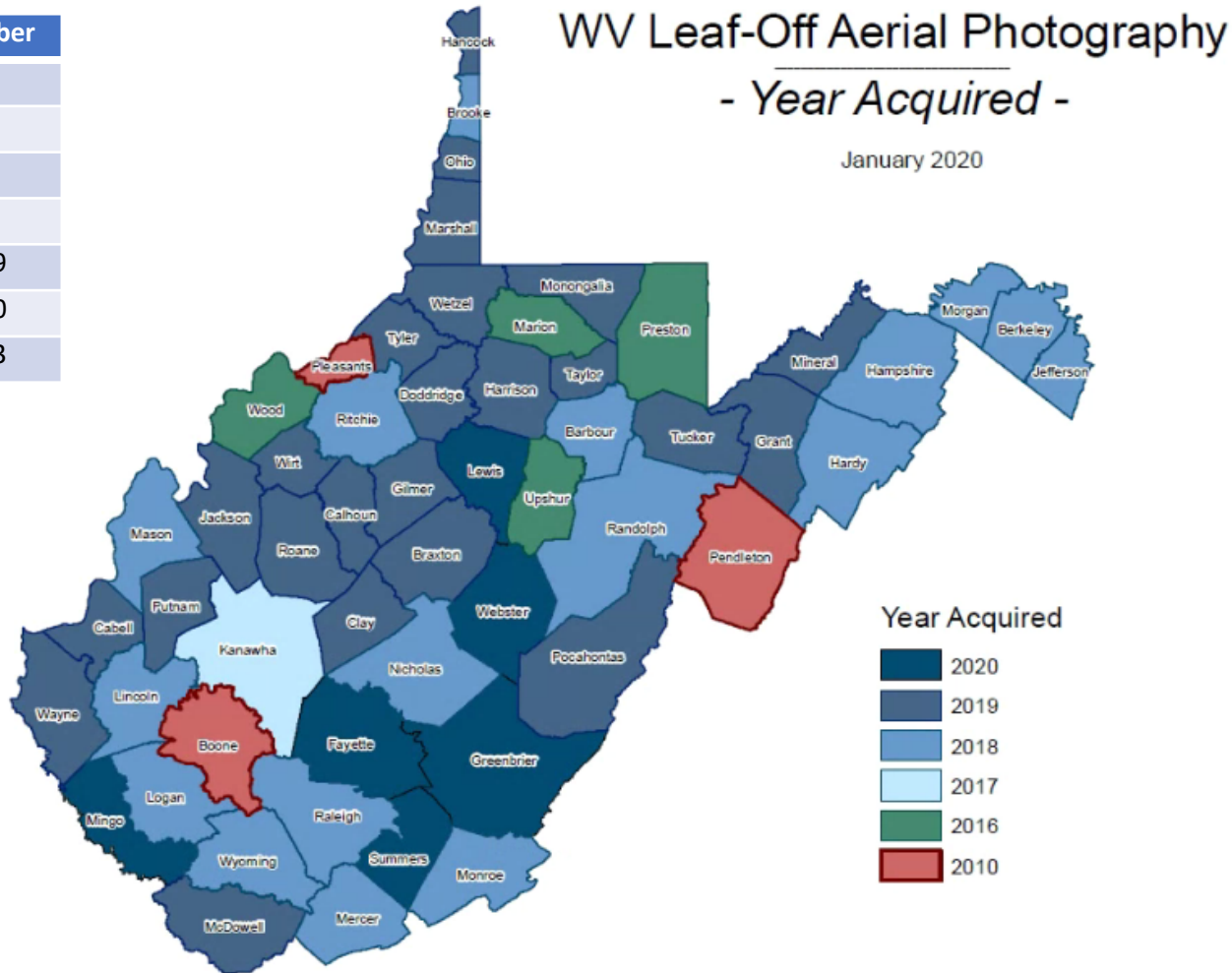


Bing Imagery

Cows in the Floodway
West Fork Twelvepole
Creek, Wayne County

County Aerial Imagery (2020)

Year	Number
2010	3
2014	1
2016	3
2017	2
2018	19
2019	20
2020	13

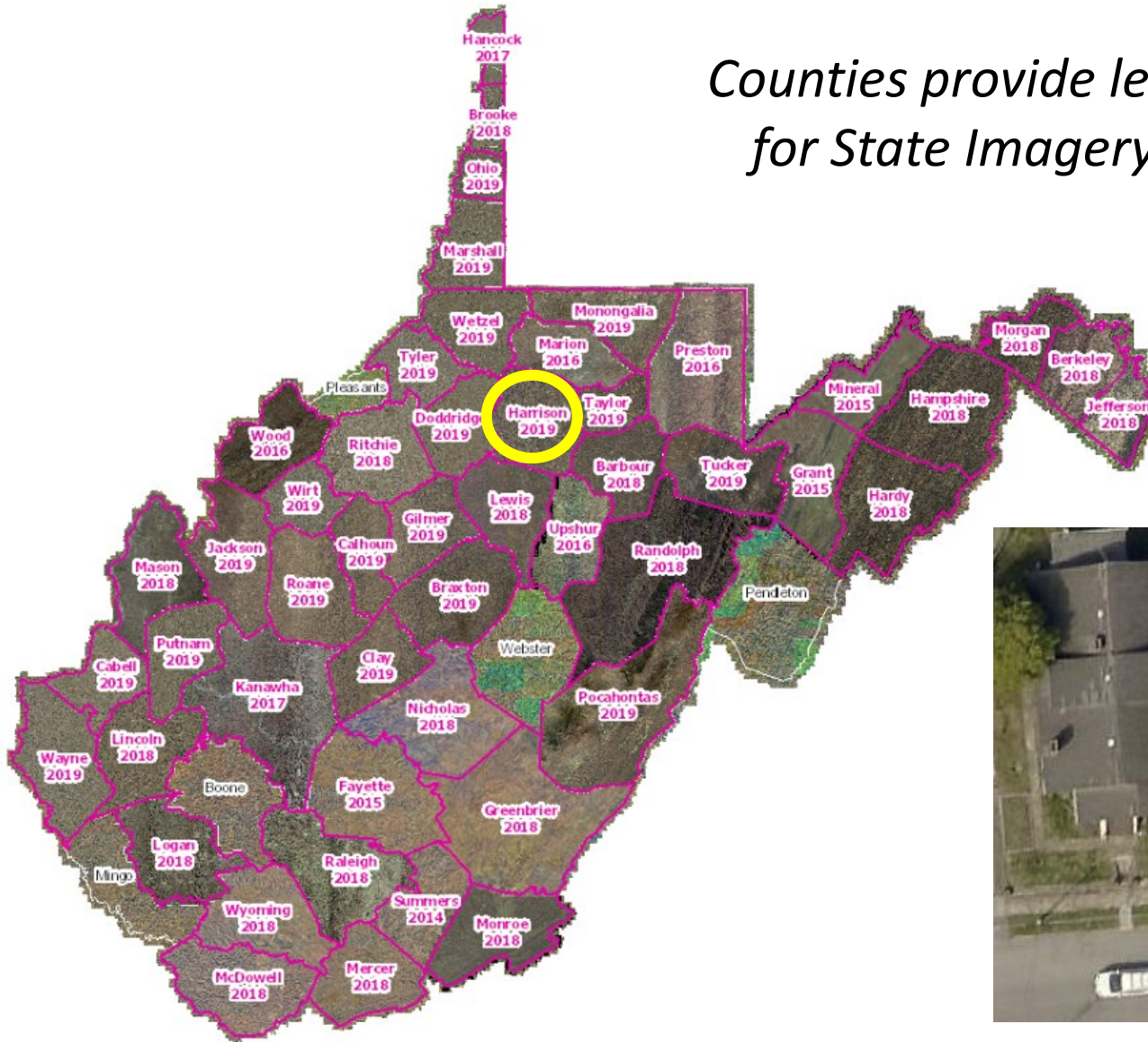


Ideally, leaf-off imagery should not be older than 5 years. Imagery is important for identifying at-risk structures and accurate disaster mapping.

Leaf-Off Aerial Imagery Web Service

https://services.wvgis.wvu.edu/arcgis/rest/services/Imagery_BaseMaps_EarthCover/wv_imagery_WVGISTC_leaf_off_mosaic/MapServer

Counties provide leaf-off imagery for State Imagery Web Service



2019 Harrison County
Aerial Imagery



Flood Tool Reference Layers

E-911 Addresses

E-911 Addresses

- **Address Matching Geocoding Services:** Updated geocoding services of WV Flood Tool from new Statewide Addressing and Mapping Files
- **Community Addressing Projects:** Incorporated new addresses from Hazard Mitigation Grant Addressing Projects
- **Building Identifier:** The E-911 Address Number, combined with the Parcel Identifier, forms the Building Identifier for identifying structures for flood risk assessments, building pictures, LOMAs, Elevation Certificates, etc.

E-911 Addresses

Address Match Locators Updated on WV Flood Tool

mapwv.gov/flood/map/?wkid=102100&x=-8654399&y=4779890&l=12&v=2

WV Flood Tool
Remember: When In Doubt, It's Not Out!

Views: Public Expert Risk MAP Risk Reference Basemaps
Layers: Address 1455 KNOTT RD, SHEPHERDSTOWN, WV
Search: 1455 KNOTT RD, SHEPHERDSTOWN, WV
Tools: [Icons for search, print, etc.]

Address Search

(1) Address Format: street address, city, state, zip.
(2) Separate each segment by comma (.).

Locator: WV Site Locator
[Disclaimer](#)

Standard Input Address: 1455 KNOTT RD, SHEPHERDSTOWN, WV, 25443

Warning: Verify the building address on the map. If the map location is incorrect, then navigate to the correct location.

Geographic Coordinate: (-77.743385, 39.405103)

Address Site Match Locator

Geocoding is the process of converting street addresses into geographic coordinates (latitude and longitude) to identify the position on the map

Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.
Flood Zone: A (Advisory Flood Heights available)
Stream: Potomac River
Watershed (HUC8): Conococheague-Opequon (2070004)

FEMA's Flood Map: 54037C0075E | NFHL
Map Effective Date: 12/18/2009
Contacts: Jefferson

Flood Height: About 313 ft (AFH) | More Info
Water Depth: About 3.9 ft (Source: HEC-RAS)
HEC-RAS Model: PotomacRiver | All Models
Community: Jefferson County
CID: 540065 | CRS Class: 6

Location (lat, long): (39.405140, -77.743402)
Location (UTM 17N): (4366798, 780409)

External Viewers: [Icons for social media]

Elevation: About 309 ft (Source: FEMA 2012)

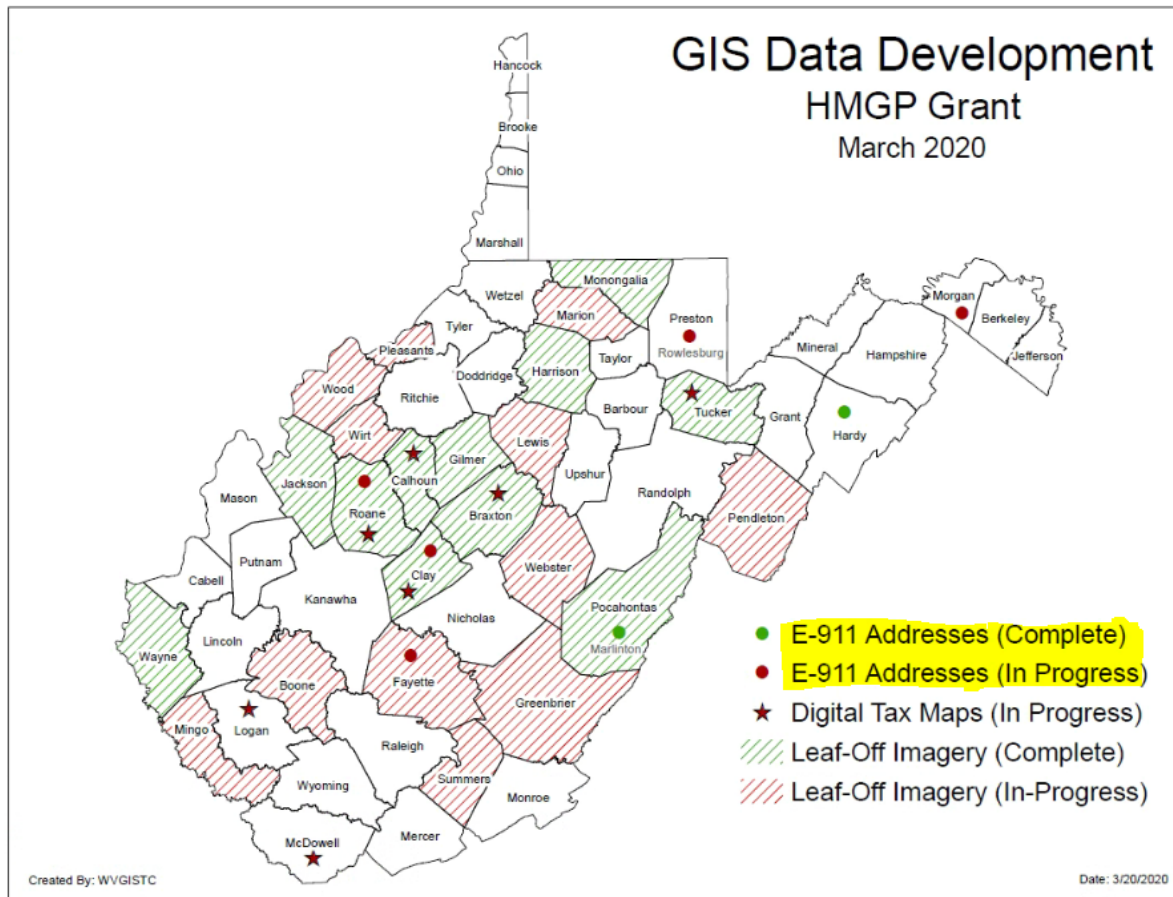
Address: 1455 Knott Road, Shepherdstown, WV
Parcel: 19-09-0011-0009-0016 | Assessment

Flood Risk Information | Related Resources
Flood Risk Assessment

Scale - 1: [Scale bar]
x: -77.743472, y: 39.404871
@WVGISTC Leaf-Off Mixed-Resolution Imagery

E-911 Addresses

Improved Addresses Uploaded to WV Flood Tool



HMGP Addressing Improvement Projects

Marlinton, WV

Flood Tool Reference Layers

Parcels / Assessment Records

WV Flood Tool Updates

Parcels / Assessment Records

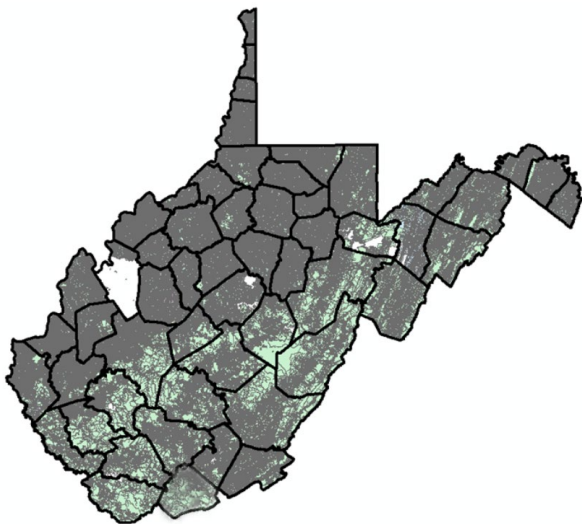
- **Tax Year 2019 Parcels and Assessment Records:** Updated Flood Tool with 1.4 million tax parcel and assessment records for Tax Year 2018.
- **Parcel Assessment Reports:** Updated Parcel Web Reports including building sketch diagrams.
- **Building Identifier:** The Parcel Identifier, combined with the E-911 Address Number, forms the Building Identifier for identifying structures for flood risk assessments, building pictures, LOMAs, Elevation Certificates, etc.

Statewide Digital Parcel File



2013 WEST VIRGINIA STATEWIDE STANDARD
HAZARD MITIGATION PLAN UPDATE

ID	Description	Priority (H, M, L)	Responsible Agency	Potential Funding Sources	Interim Measure of Success	Target Comple- tion Date	Hazard Mitigated
2013-16	Creation of a statewide tax parcel for use in the HIRA/THIRA.	H	DHSEM, WVGISTC	Agency budget	Develop a prototype map that would consist of a pilot study to determine what would be possible if/when data was available or created.	2014 for pilot	All, except Dam & Levee



**High Priority
of
2013 State Hazard Mitigation Plan**

Parcels link to Owner/Building Info

629 PENNSYLVANIA AVE, Morgantown, WV, 26501

<https://www.mapwv.gov/flood/map/?wkid=102100&x=-8899684&y=4811867&l=13&v=0>

Click on each tab to view information

Address Parcel Risk

DESCRIPTION

PROPERTY OWNER

PHYSICAL ADDRESS

BUILDING INFORMATION

Land use: 101 - Residential 1 Family

Year built: 1911

Search: 629 PENNSYLVANIA AVE, Morgantown, WV, : [Search Icon]

Tools: [Edit] [Share] [Refresh] [Print] [Link] [Download]

Hide [Play Icon]

Flood Hazard Area: Location is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: AE

Stream: Deckers Creek

Watershed (HUC8): Upper Monongahela (5020003)

FEMA Issued Flood Map: 54061C0114E [Download] [Share]

Map Effective Date: 1/20/2010

Contacts: Monongalia

Advisory Flood Height: N/A [Disclaimer]

Water Depth: About 1.0 ft (Source: HAZUS)

HEC-RAS Model: N/A

Flood Profile: 54061_005

CRS Information: N/A

Location (long, lat): (79.947234 W, 39.626885 N)

Location (UTM 17N): (590352, 4386875)

Elevation: About 823 ft

Address: 629 PENNSYLVANIA AVE, Morgantown, West Virginia, 26501

Parcel ID: **31-10-0029-0130-0000** [Disclaimer]

Flood Risk Information

Flood Risk Assessment: N/A

3D Flood Visualization [Help]

3D Flood Model

3D Visualization Cost Tool Related Resources

Depth

0 Foot

1 Foot

2 Feet

3 Feet

4 Feet

5 Feet

6 Feet

7 Feet

8 Feet

9 Feet

10 Feet

11 Feet

12 Feet

13 Feet

14 Feet

629 PENNSYLVANIA AVE, Morgantown, West Virginia, 26501

Parcel ID: 31-10-0029-0130-0000

Water Depth: ~ 1.0 ft (HAZUS)

Google Map [Link]

General Damage - Furniture, insulation, walls, electrical outlets damaged.

Exterior Wall/Facade - Painted exterior walls will have to be painted at 0.5 foot to 1.0 foot of water as a result of staining. Walls will have to be painted completely because of the inability to match weather-worn paint. Modern stucco facade materials are destroyed when water gets behind the stucco material, which can occur at 0.5 foot of floodwater. Brick veneer will require cleaning.

Windows - Includes window frames and panes, as well as structural window frames. These items can sustain some water around them, but by 0.5 feet of floodwater they will need to be completely restored or replaced.

Residential or Farm Property

Parcels link to Owner/Building Info

Residential or Farm Property

629 PENNSYLVANIA AVE, Morgantown, WV, 26501

<https://www.mapwv.gov/flood/map/?wkid=102100&x=-8899684&y=4811867&l=13&v=0>



DESCRIPTION	
GIS Parcel ID	31-10-0029-0130-0000
Legal Description	BL 12-1/2 LOT 10
Acreage (deed)	0.0373
Tax Year	2015
Tax Class	4
Deed Book / Page	1259 / 45
PROPERTY OWNER(S)	
Property Owner(s)	Smith John
BUILDING INFORMATION	
Property Class Type	R- Residential
Land Use	101 - Residential 1 Family
Year Built	1911
Architectural style	Conventional
Exterior Wall	Aluminum
Stories	2
Total Rooms	8
Building Grade	C
Basement Type	Full
Structure Area	1,320
Building (card) Number	1
# of main BLDGs (cards)	1
APPRAISED VALUES	
Land Appraisal	\$33,200
Building Appraisal	\$29,000
Total Appraisal	\$62,200

Parcels link to Owner/Building Info

Commercial or Industrial Property

1501 DECKERS CREEK BLVD, Morgantown, West Virginia, 26505
<https://www.mapwv.gov/flood/map/?v=0&pid=31-14-0031-0101-0000>

1501 DECKERS CREEK BLVD, Morgantown, West Virginia, 26505

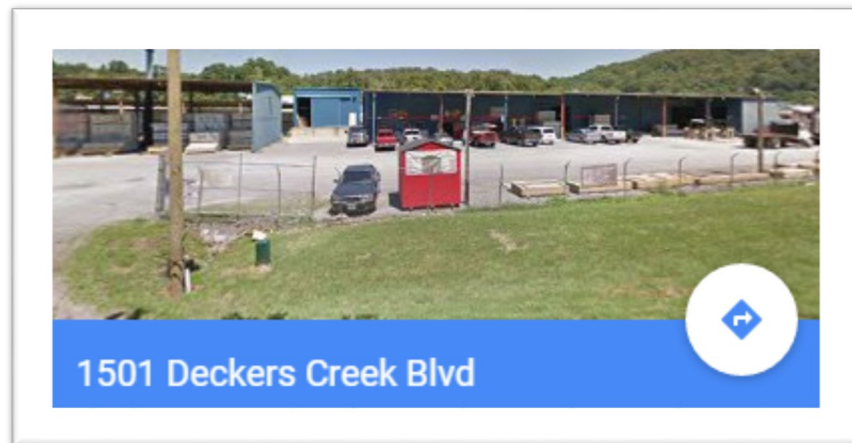
Depth

- 0 Foot
- 1 Foot
- 2 Foot
- 3 Foot
- 4 Foot
- 5 Foot
- 6 Foot
- 7 Foot
- 8 Foot
- 9 Foot
- 10 Foot
- 11 Foot
- 12 Foot
- 13 Foot
- 14 Foot

Parcel ID: 31-14-0031-0101-0000 Water Depth: ~ 2.0 ft (HAZUS) Google Map

12 Foot General Damage - Woodwork, doors, and most appliances damaged. When 2 feet of water is in the living space and the walls are wet it is classified as a Major Emergency by the WV Division of Homeland Security and Emergency Management (WV DHSEM).

14 Foot Appliances - Most appliances (refrigerator, stove, dishwasher, washer, dryer) are a total loss between 1 ft and 2 ft feet of water.



DESCRIPTION	84 Lumber
GIS Parcel ID	31-14-0031-0101-0000
Legal Description	5.0922 AC;SABRATON
Acreage (deed)	5.09
Deed Book / Page	1376 / 234
PROPERTY OWNER(S)	
Property Owner(s)	SPIRIT SPE PORTFOLIO

BUILDING INFORMATION	
Property Class Type	C- Commercial
Land Use	373 - Retail-Single Occupancy
Year Built	1994
Stories	2
Exterior Wall	Brick or Stone
Construction Type	Pre-Engineered Steel
Building Grade	D+
Basement Type	None
Business Living Area	15,255
Cubic Feet	292,380
Use Type	34-Retail Store, 82- Multi-Use Office

COST VALUES	
Other Bldg/Yard Values	\$67,020
Commercial Value	\$227,700
APPRAISED VALUES	
Land Appraisal	\$378,800
Building Appraisal	\$294,700
Total Appraisal	\$673,500

Total Property Parcels

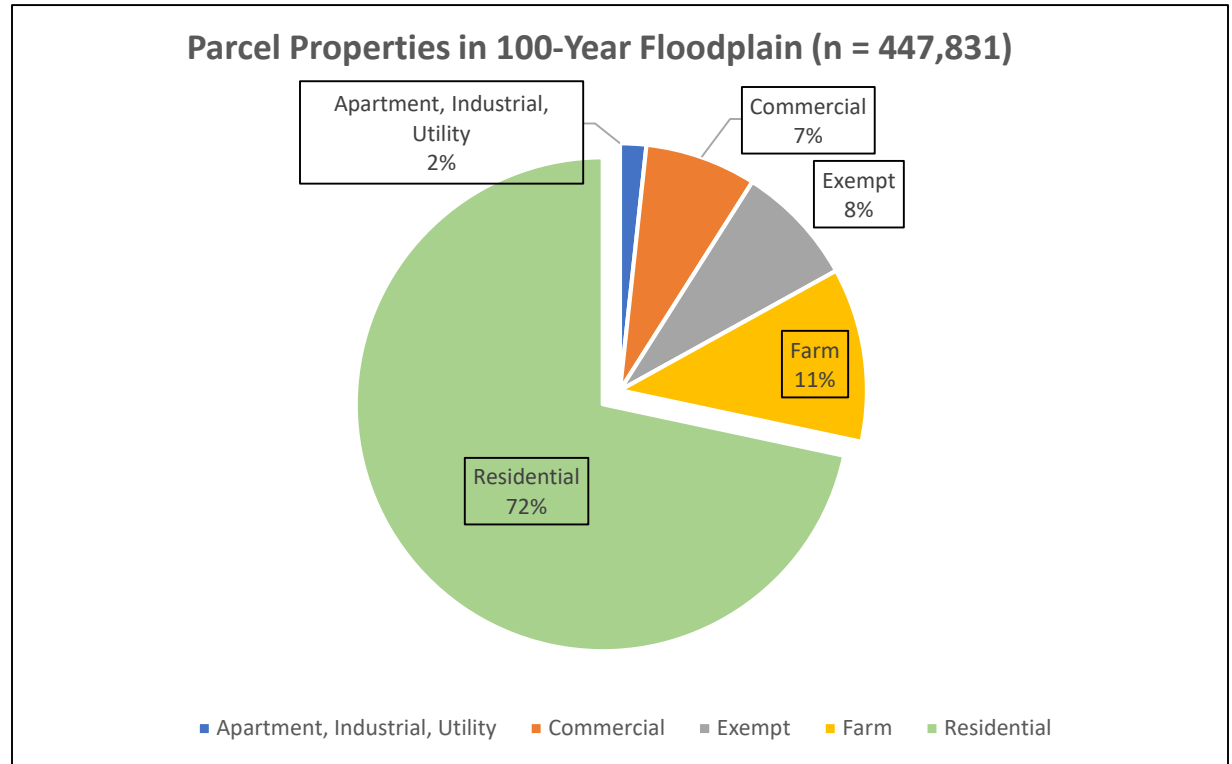
West Virginia Parcel Property Class Breakdown for Tax Year 2017 (Computed from statewide parcel file that is 95% complete)

Code*	Property Class	# of Parcels	Percent (%)
R	Residential	1,164,470	79.61%
F	Farm	121,384	8.30%
A	Apartment	3,222	0.22%
C	Commercial	65,784	4.50%
I	Industrial	3,105	0.21%
X	Exempt	97,773	6.68%
U	Utility	192	0.01%
Other	Not classified	6,837	0.47%
		1,462,767	100.00%
	Property Parcels intersecting 100-YR floodplain	447,831	31%

Assessment records are important for **building inventories** and are used to estimate the total building exposure (\$) and building loss (\$) for multi-hazards. Often building inventories and corresponding loss estimates are organized by **property class**.

Parcels in 100-YR Floodplain

Property Class	Count	%
Residential	320,892	72%
Farm	50,988	11%
Exempt	35,610	8%
Commercial	32,665	7%
Apartment, Industrial, Utility	7,676	2%
<i>total (31% of all 1.46 million parcels)</i>	447,831	100%



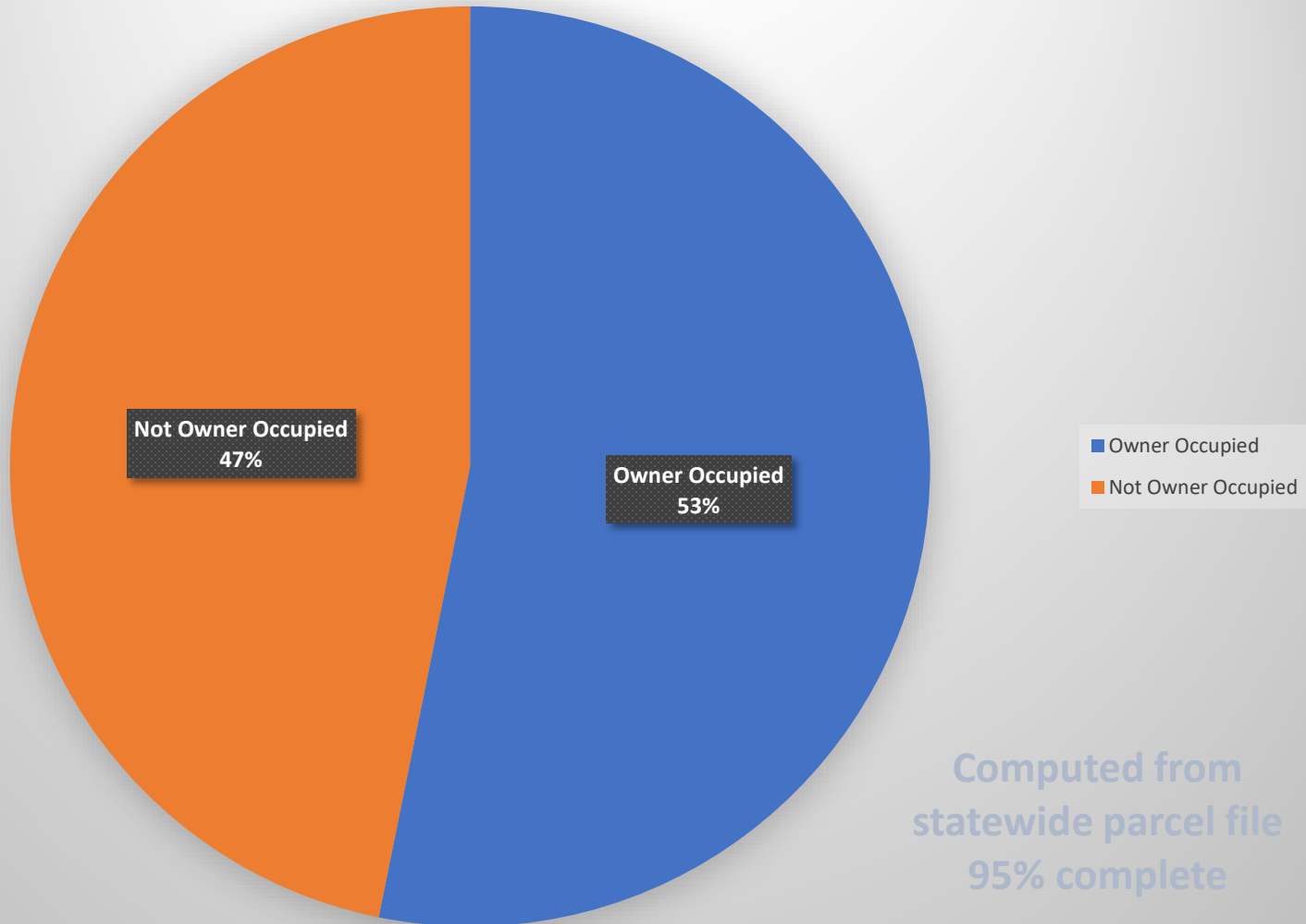
Computed from
statewide parcel file
95% complete

*An estimated **450,000 property parcels** or 31% of total 1.46 million statewide parcels intersect the 100-YR floodplain (Tax Year 2017)*

A more detailed site-specific building analysis is needed statewide

Parcels in 100-YR Floodplain

Parcel Properties in 100-Year Floodplain (n= 447,831)



Computed from
statewide parcel file
95% complete

Property Identification – Bldg. ID

WV Flood Tool
Remember: When In Doubt, It's Not Out!

Views: Public | Expert | Risk MAP | Flood | Reference | Basemaps

Search: 604 S. Main St., Philippi, WV 26416

Tools: [Share Link Icon]

Address: 604 Main St, Philippi, WV 26416

Parcel ID: 01-08-0011-0069-0000

**Building ID:
(Parcel ID + Address No.)
01-08-0011-0069-0000_604**

X,Y COORD.

ADDRESS

PARCEL

SHARE LINK

Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
Flood Zone: AE
Stream: Anglins Run
Watershed (HUC8): Tygart Valley (5020001)

FEMA Issued Flood Map: 54001C0118C
Map Effective Date: 5/3/2011
Contacts: Barbour

Flood Height: Refer to FIS report for BFE
Water Depth: N/A
HEC-RAS Model: N/A
Flood Profile: 54001_001
Community: City of Philippi
CID: 540004 CRS Class: 8

Location (long, lat): (-80.033529, 39.144752)
Location (UTM 17N): (583519, 4333284)

External Viewers: [Icons]

Elevation: About 1315 ft. (Source: SAMS 2003)

Address: 604 S MAIN ST, PHILIPPI, West Virginia, 26416

Parcel ID: 01-08-0011-0069-0000

Flood Risk Information: Flood Risk Assessment N/A, 3D Flood Visualization No Depth Grid Available

Scale: 1:1,128
x: -80.033003, y: 39.144112
©WVGISTC Leaf-Off Mixed-Resolution Imagery

Share Link: <https://www.mapwv.gov/flood/map/?wkid=102100&x=-8909292&y=4742427&l=12&v=1>

Property Parcels and Assessment Reports

E-911 and County Assessor report location at 604 S Main Street

WV Real Estate Assessment Data

About
New Search
Structure Drawing

Parcel ID	01-08-0011-0069-0000	Tax Year	2019	County	Barbour	Date	3/25/2020
Root PID	01080011006900000000						

Property Owner and Mailing Address

Owner(s)	
Mailing Address	645 MAPLE AVE, PHILIPPI, WV 26416

Property Location

Physical Address	604 S MAIN ST
E-911 Address	604 S MAIN ST PHILIPPI WV 26416
Parcel ID	01-08-0011-0069-0000
County	1 - Barbour
District	8 - Philippi Corp
Map	0011 (Click for PDF tax map)
Parcel No.	0069
Parcel Suffix	0000
Map View Link	https://mapwv.gov/parcel/?pid=01-08-0011-0069-0000

Property
Assessment
Report

General Information

Tax Class	Book / Page	Deeded Acres	Calculated Acres	Legal Description
4	460 / 231	0.405	0.42	PT OF LOT 6, PARCEL, STRICKLER

Cost Value

Dwelling Value	\$65,700	Appraisal Value	
Other Bldg/Yard Values	\$0	Land Appraisal	\$8,300
Commercial Value	---	Building Appraisal	\$65,700
		Total Appraisal	\$74,000

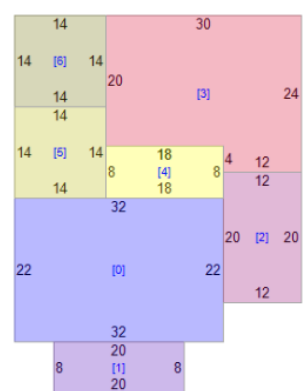
Building Information

Property Class	R - Residential							
Land Use	101 - Residential 1 Family							
Sum of Structure Areas	1,752							
# of Buildings (Cards)	1							


Card	Year Built	Stories	CG	Architectural Style	Exterior Wall	Basement Type	Square Footage (SFLA)	Building Value
1	1946	2	2P	Conventional	Brick	Part	1,752	\$65,700
							1,752	\$65,700

West Virginia
 Real Estate Assessment - Building Sketch

Barbour County, District 8, Map 11, Parcel 69



Building
Sketch
Diagram



Parcel
Map

Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.
 Flood Zone: AE
 Stream: Anglins Run
 Watershed (HUC8): Tygart Valley (5020001)

FEMA's Flood Map: 54001C0118C [Download](#) [NFHL](#)
 Map Effective Date: 5/3/2011
 Contacts: Barbour
 Flood Height: Refer to FIS report for BFE [More Info](#)
 Water Depth: N/A
 HEC-RAS Model: N/A [All Models](#)
 Flood Profile: 54001_001
 Community: City of Philippi
 CID: 540004 CRS Class: 8
 Location (lat, long): (39.144750, -80.033532)
 Location (UTM 17N): (4333284, 583518)
 External Viewers: [Map](#) [Print](#) [Share](#)
 Elevation: About 1315 ft (Source: SAMS 2003)
 Address: 604 S MAIN ST, PHILIPPI, WV, 26416
 Parcel: 01-08-0011-0069-0000 | [Assessment](#)
 Flood Risk Information [Related Resources](#)
 Flood Risk Assessment: N/A
 3D Flood Visualization: No Depth Grid Available

Share Link: <https://mapwv.gov/Assessment/Detail/?PID=01080011006900000000>

Property Parcels

Web Assessment Reports

- Ownership
- Building Identification
- Building Characteristics
- Building Sketch Diagrams
- Outbuildings
- Cost Values
- Land Use
- Tax Class (Owner Occupied)
- Parcel History (15 years)

Flood Tool Reference Layers

Building Footprints

Building Footprints

The screenshot displays the WV Flood Tool web application. The interface includes a header with the logo and slogan "Remember: When In Doubt, It's Not Out!", navigation links for "About", "Help", and "Home", and a search bar. Below the header is a menu with "Views" (Public, Expert, Risk MAP, Flood) and "Layers" (Reference, Basemaps). The "Layers" panel is open, showing a list of map layers with checkboxes. The "Building Footprint" layer is checked and highlighted in yellow. Other layers include Address Label, Parcels, Community Boundaries, SAMS E-911 Roads, DOT Highway Routes, Streams / Place Names, Contour Lines, Public Lands, Watersheds, Wetlands, and Soil. The map shows a street grid in Shepherdstown, West Virginia, with flood risk zones overlaid in red and orange. A scale bar and coordinates are visible in the bottom left corner.

WV Flood Tool
Remember: When In Doubt, It's Not Out!

Views: Public, Expert, Risk MAP, Flood, **Reference**, Basemaps

Search: e.g., 123 street name, city, state, zip

Tools: [Map Tools]

Layers:

- Address Label
- Parcels
- Building Footprint**
- Community Boundaries
- SAMS E-911 Roads
- DOT Highway Routes*
- Streams / Place Names
- Contour Lines [info](#)
- Public Lands
- Watersheds
- Wetlands*
- Soil*

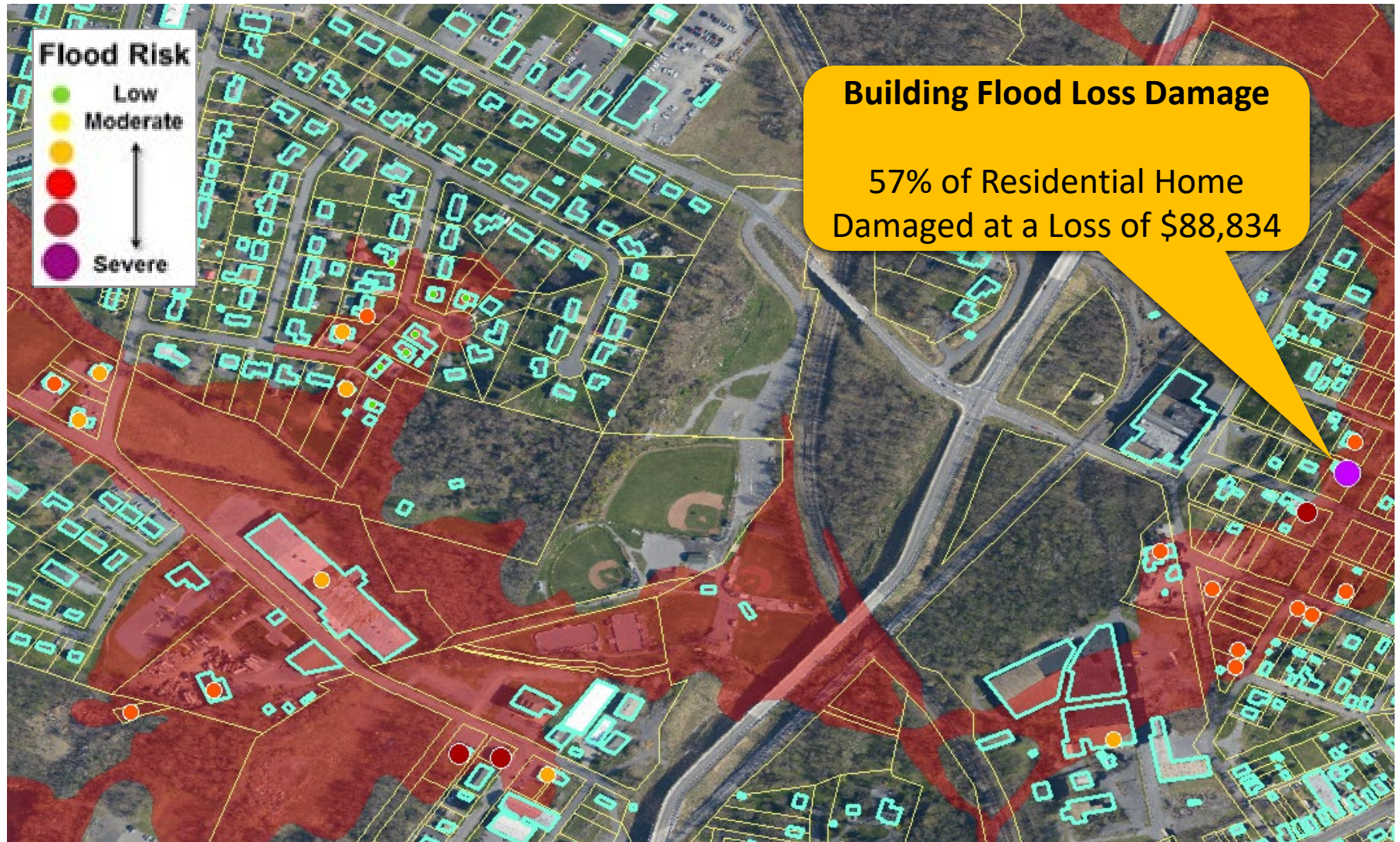
* indicates that data is external web service

Map Labels: Shepherdstown, Zone A, Zone A0, Jefferson, TOWN OF SHEPHERDSTOWN, 540069, E German St, E High St, E Washington St, E Back St, King St, N Church St, W Back Aly, N Mill St, Audrey Edge Dr, College St, E German St, S Mill St, Prospect Ave, Fairmont Ave, S Church St, Kearneysville Pike, Minden St, Elmwood Cemetery, @ESRI Street Map

Scale: 1: 4,514
x: -77.808867, y: 39.428904

Building Footprints

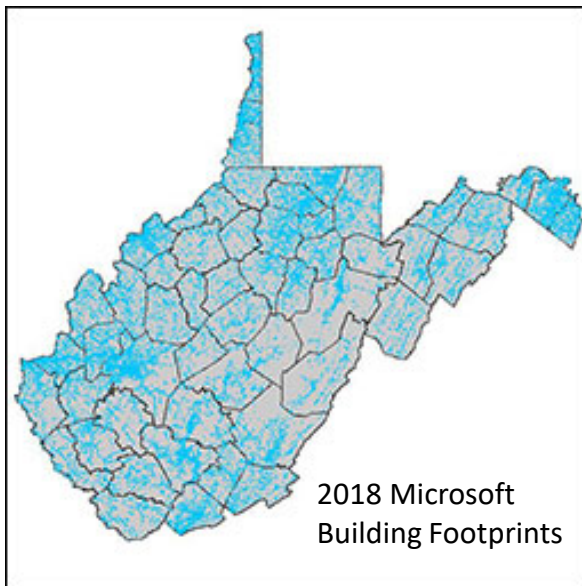
Building footprints can enhance flood risk assessment maps



Building Footprints

Statewide building footprint reference layer created from best available sources

Layer	Source	Coverage
2003 SAMB	2003 2-ft. resolution leaf-off imagery, Statewide Addressing & Mapping Board (large buildings only)	Statewide
Counties	6" or better leaf-off imagery	Select Counties
2018 Microsoft Building Footprints	Statewide dataset contains 1,020,048 building footprints generated by Microsoft in 2018. The building footprint extraction was done in two stages: semantic segmentation, recognition of building pixels on aerial images, and polygonization, converting of building pixels to polygons.	Statewide



How are BUILDING FOOTPRINTS beneficial?

- Improves the locational pin-pointing of structures for multi-hazard assessments
- Enhances visual representation of structures on 2D flood risk maps
- Necessary for 3D flood visualization models
 - Building footprints extruded to known heights
 - Beneficial to communicating flood risk to communities

Buildings in Floodplain

	# of Structures	Percent (%)
Addressable Structures	1,010,819	91%
Non-Addressable Structures	101,928	9%
<i>total</i>	1,112,747	100%
Buildings in Effective 100-YR floodplains	99,520	9%
Buildings in 100-YR floodplains (Effective and Advisory A/Updated AE)	106,967	10%
Buildings in 100-YR and 500-YR floodplains	159,804	14%

- *An estimated **100,000** buildings or 9% of all statewide 1.1 million buildings are within the effective 100-YR floodplain.*
- *An estimated **160,000** buildings or 14% of all statewide 1.1 million buildings are within the 100-YR and 500-YR floodplains.*

2018 Data Source: Statewide Addressing and Mapping System (SAMS). Some counties track non-addressable structures in the floodplain while other counties do not.

A more detailed site-specific building analysis is needed statewide

Unique Spatial Identifiers

Building and Parcel Identifiers

Building Unique Identifier

Parcel

01-08-0011-0069-0000

01	-	08	-	0011	-	0069	-	0000
County		District		Map		Parcel		Suffix

Address

604 S Main St, Philippi, West Virginia, 26416



Building Identifier

01-08-0011-0069-0000_604

