

WV Flood Tool Updates

Reference Layers

Elevation

Aerial Imagery

E-911 Addresses

Parcels / Assessment Records

3/25/2020 Update

WV Flood Tool Updates

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)

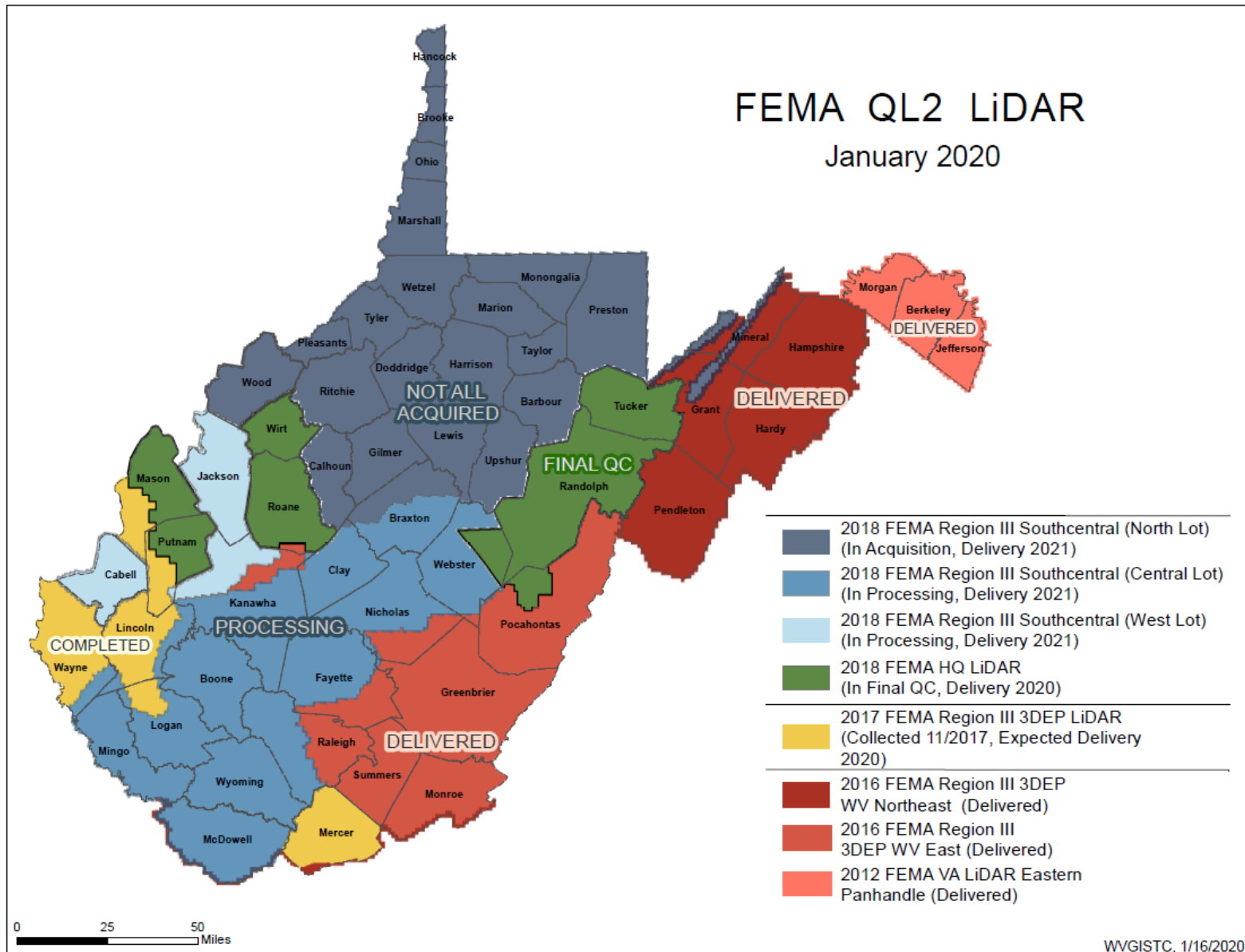
- **Berkeley and Morgan Counties**
 - Created 2-foot contours from 2012 FEMA-Purchased LiDAR DEM and published to WV Flood Tool

- **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>

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

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'. The main interface is divided into 'Views' (Public, Expert, Risk MAP, Flood), 'Layers' (Reference, Basemaps), and 'Tools'. A search bar is present with the placeholder text 'e.g., 123 street name, city, state, zip'. The 'Layers' panel on the left shows various map layers, with 'Contour Lines' selected and highlighted in yellow. The map area shows a satellite view with yellow contour lines overlaid. A specific contour line is labeled '390' and circled in blue. A blue arrow points from this contour line to the 'Elevation' field in the 'Query Results' panel on the right. The 'Query Results' panel 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: [Social media icons]
- 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

At the bottom left, a scale bar indicates 'scale - 1: 564' and coordinates 'x: -77.958288, y: 39.451884'. At the bottom center, the text '@WVGISTC Leaf-Off Mixed-Resolution Imagery' is visible.

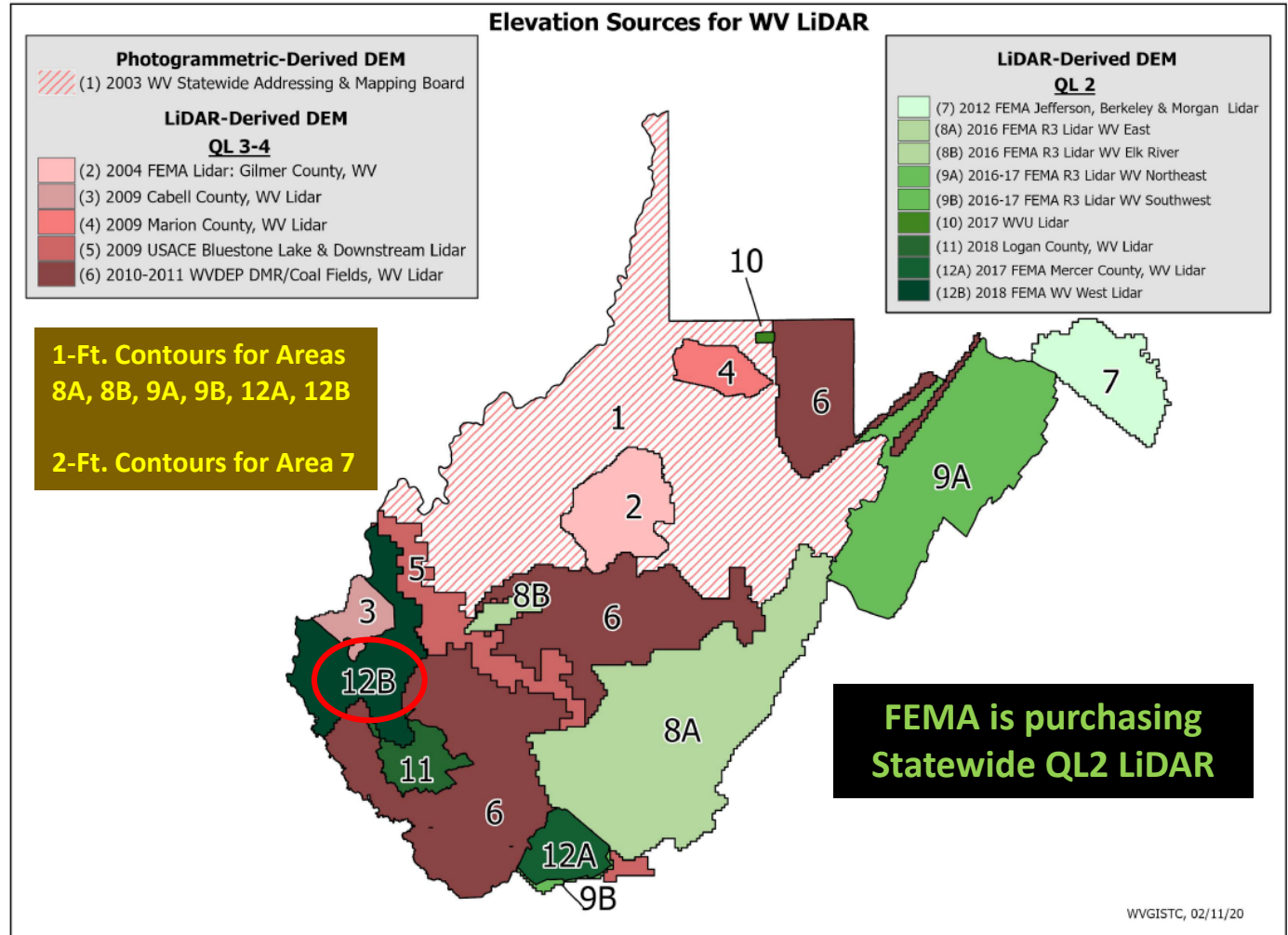
2-ft Contours Display at Highest Zoom Level (1:564 Map Scale)

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

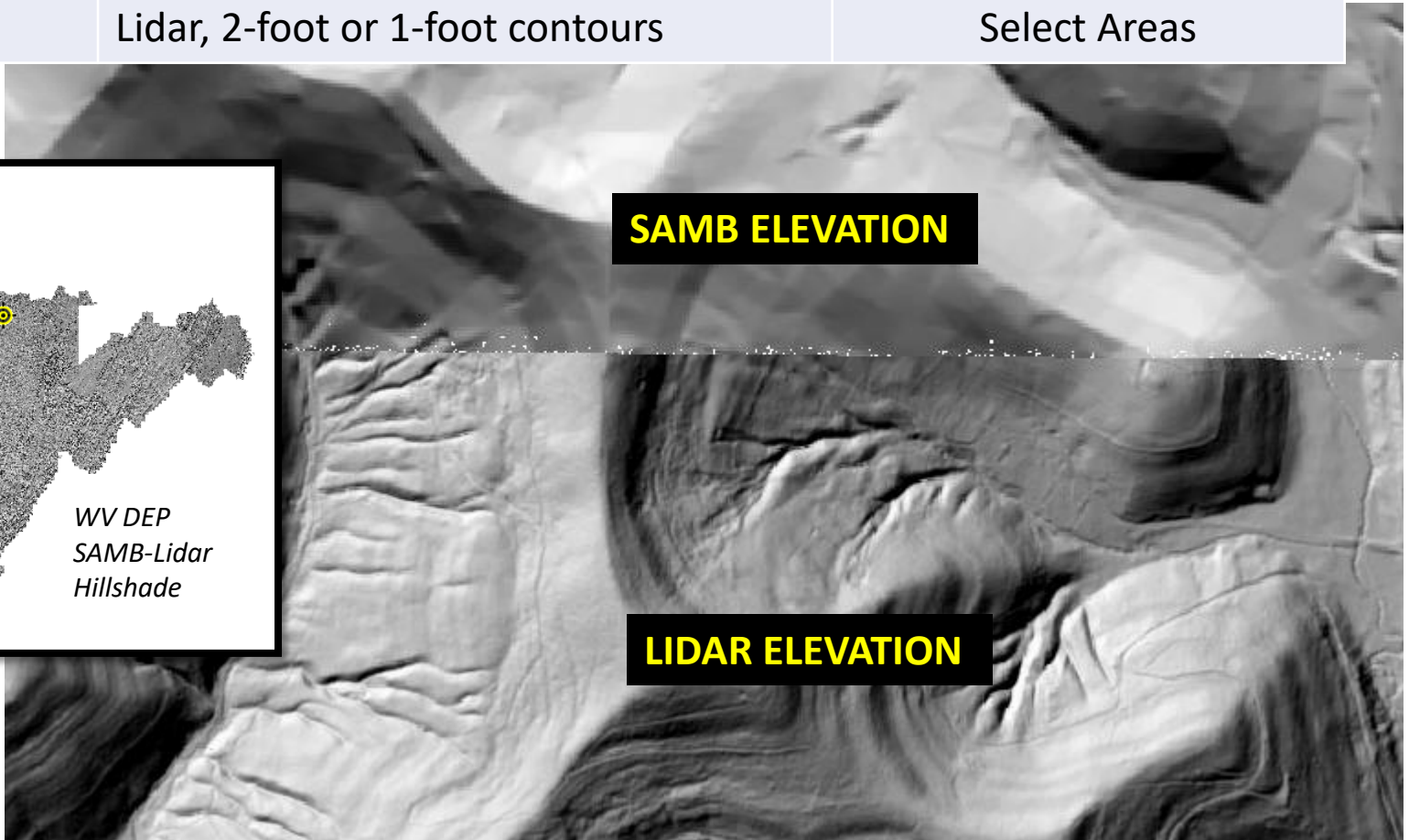
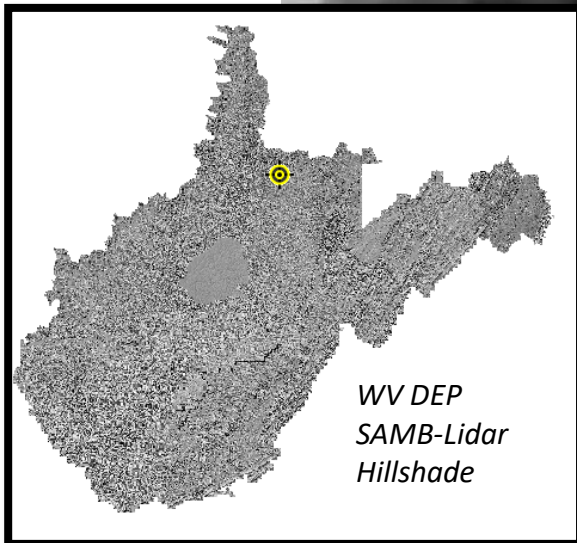


Elevation Metadata

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



Statewide Hillshade Basemap Product

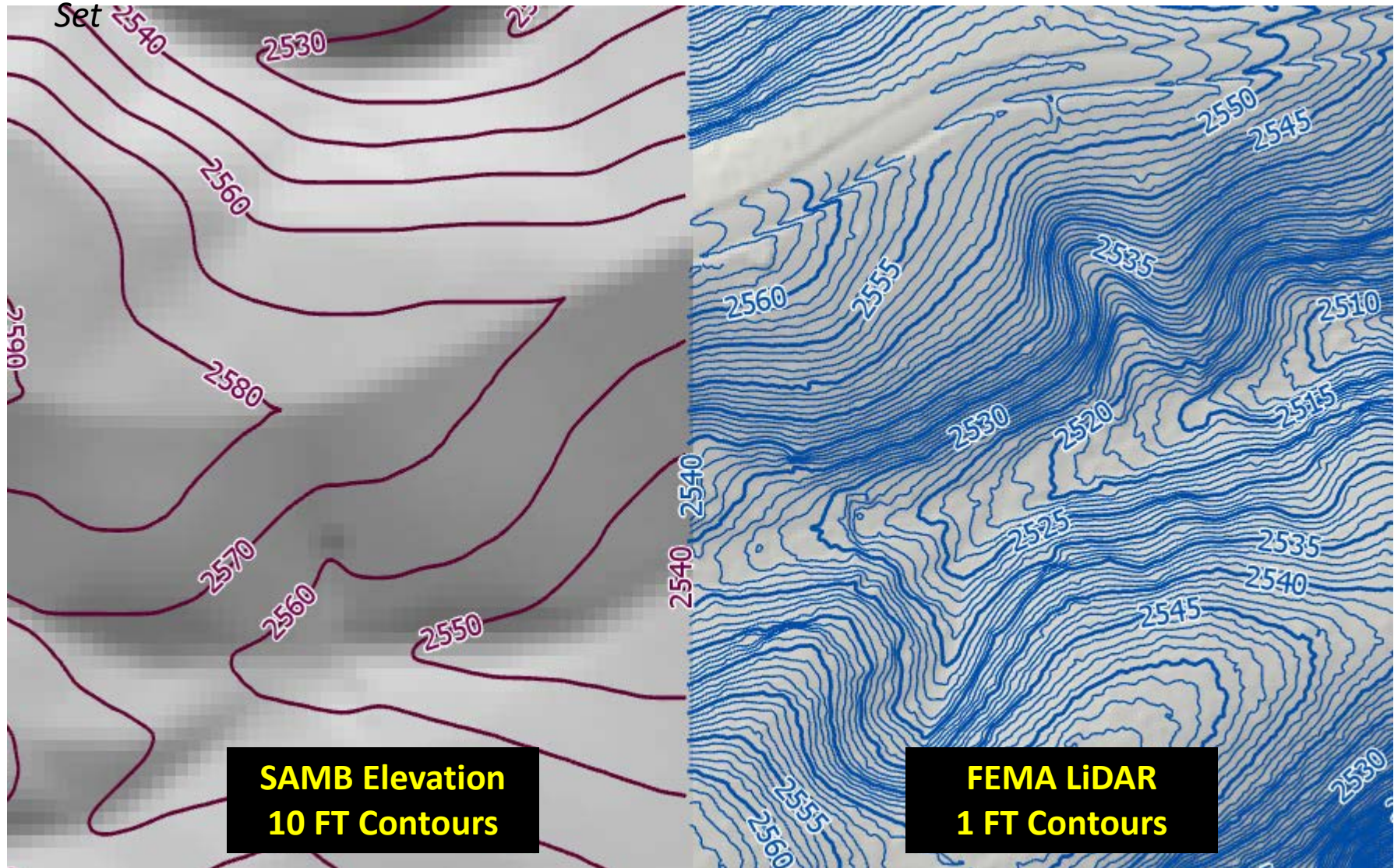
A hillshade is a grayscale 3D representation of the surface

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 tagline "Remember: When In Doubt, It's Not Out!". On the top 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 also present. 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 menu of map styles is visible, including 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



Spatial Data Development

Aerial Imagery

WV Flood Tool Updates

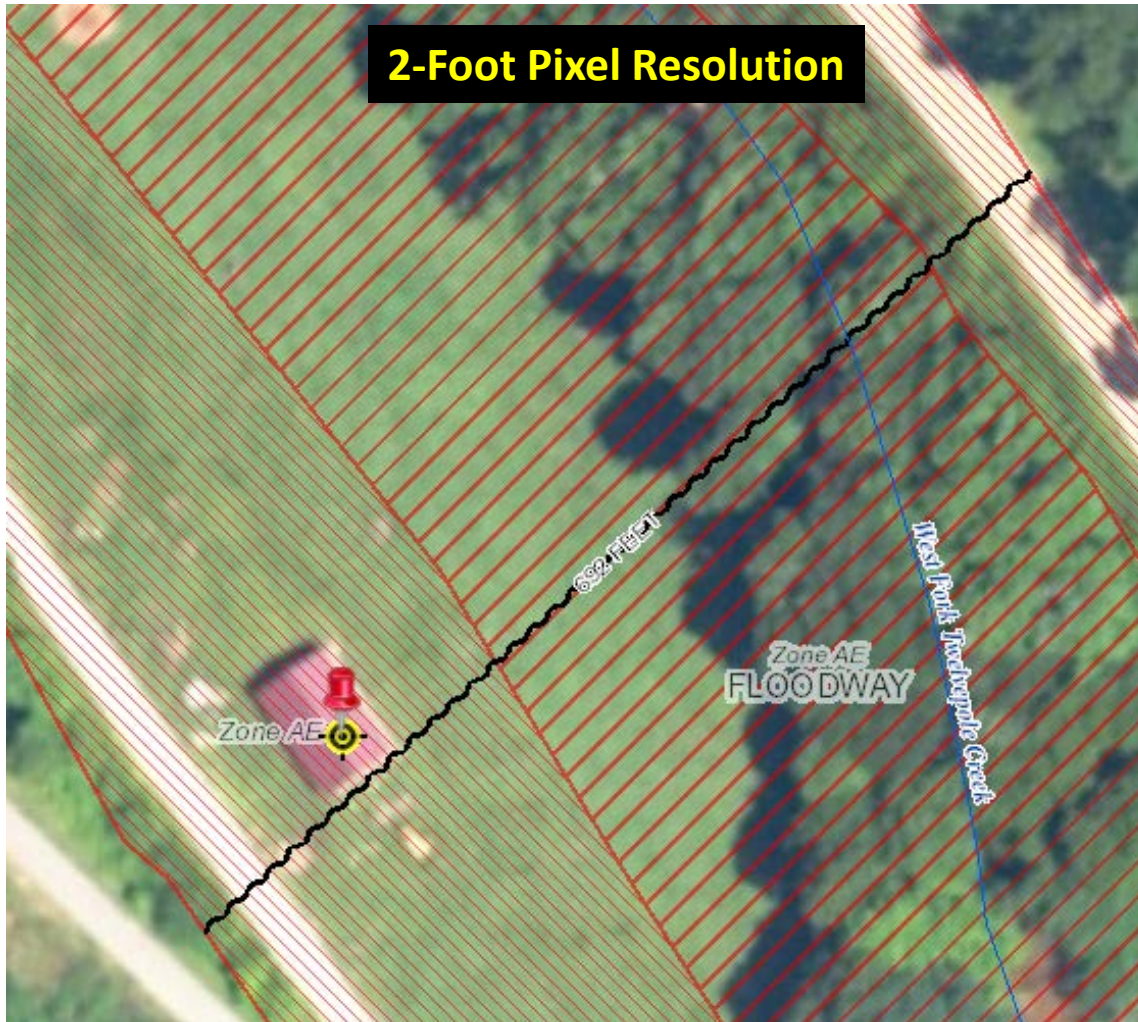
New Aerial Imagery

- **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.

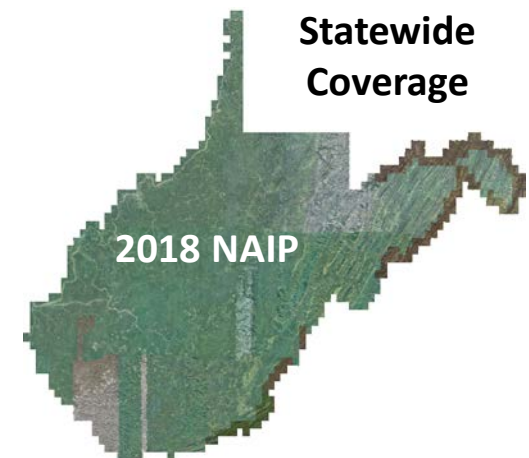
Imagery can vary greatly in resolution. Pixel resolution refers to the actual distance on the ground that each pixel represents in the orthophotography. For example, four-inch pixel resolution means that each pixel in the image covers four inches on the ground.

New 2018 NAIP Aerial Imagery

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

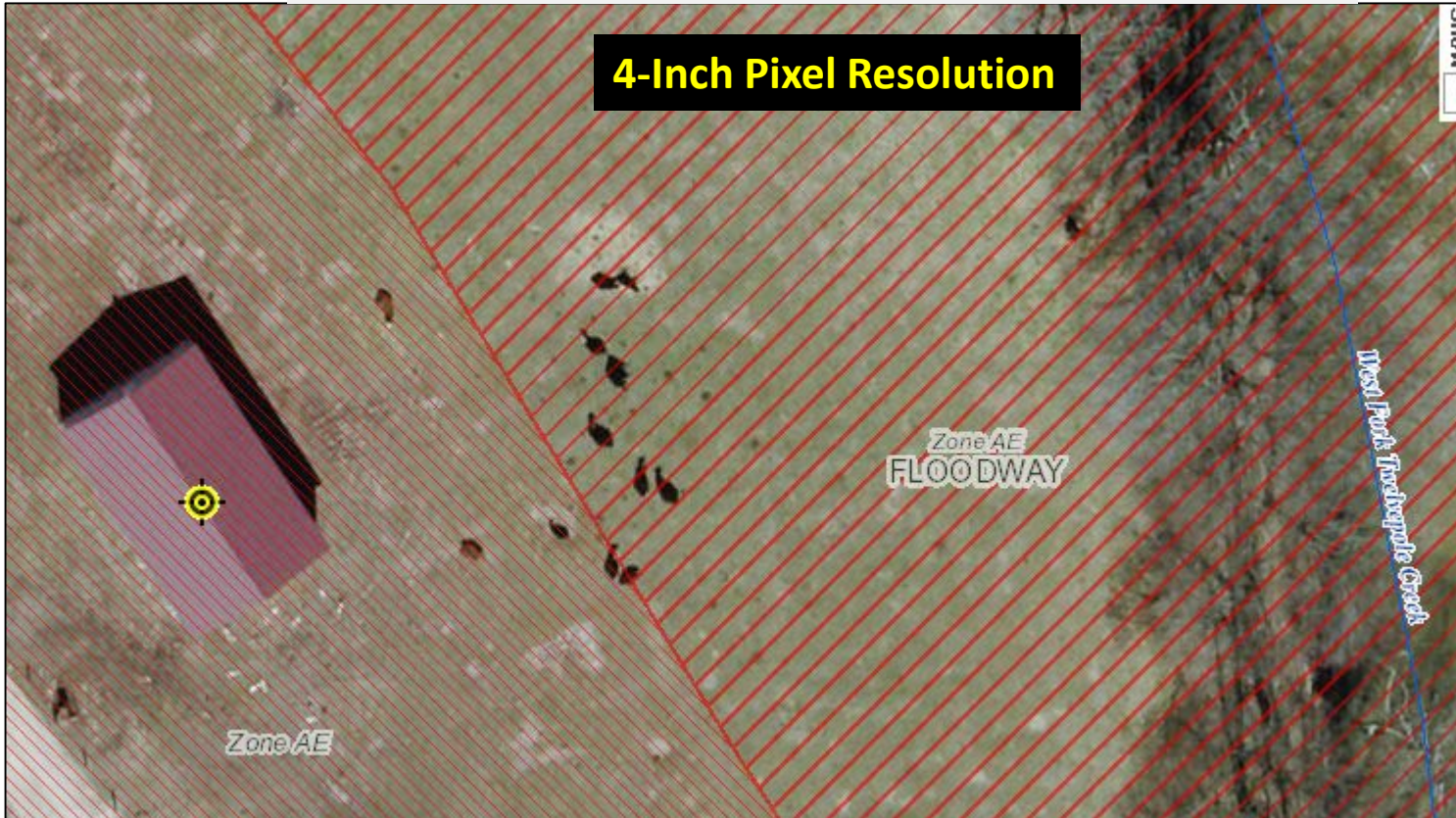


Choose **WV NAIP (2018)** from Base Map Layers Pulldown Menu



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

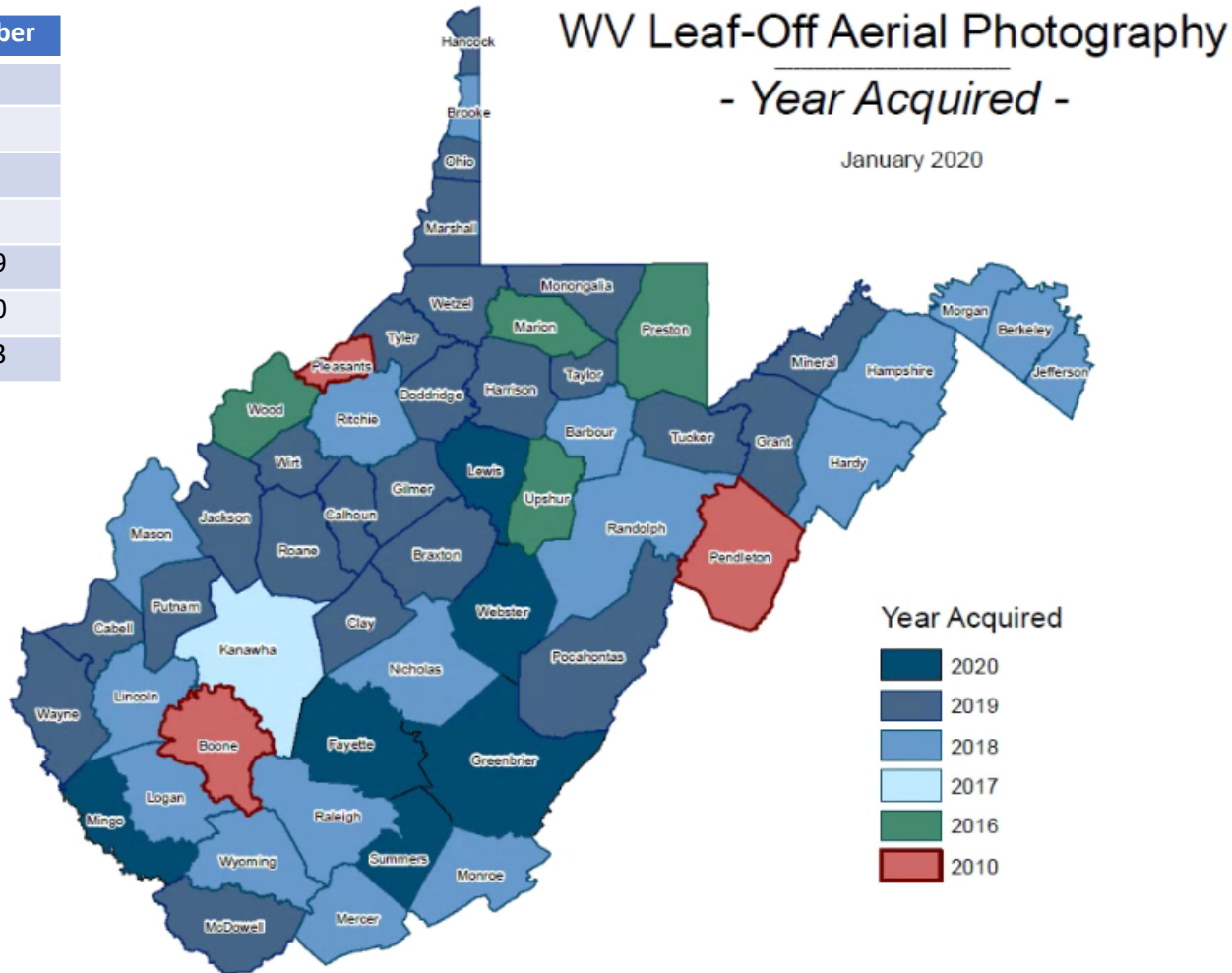


Bing Imagery

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

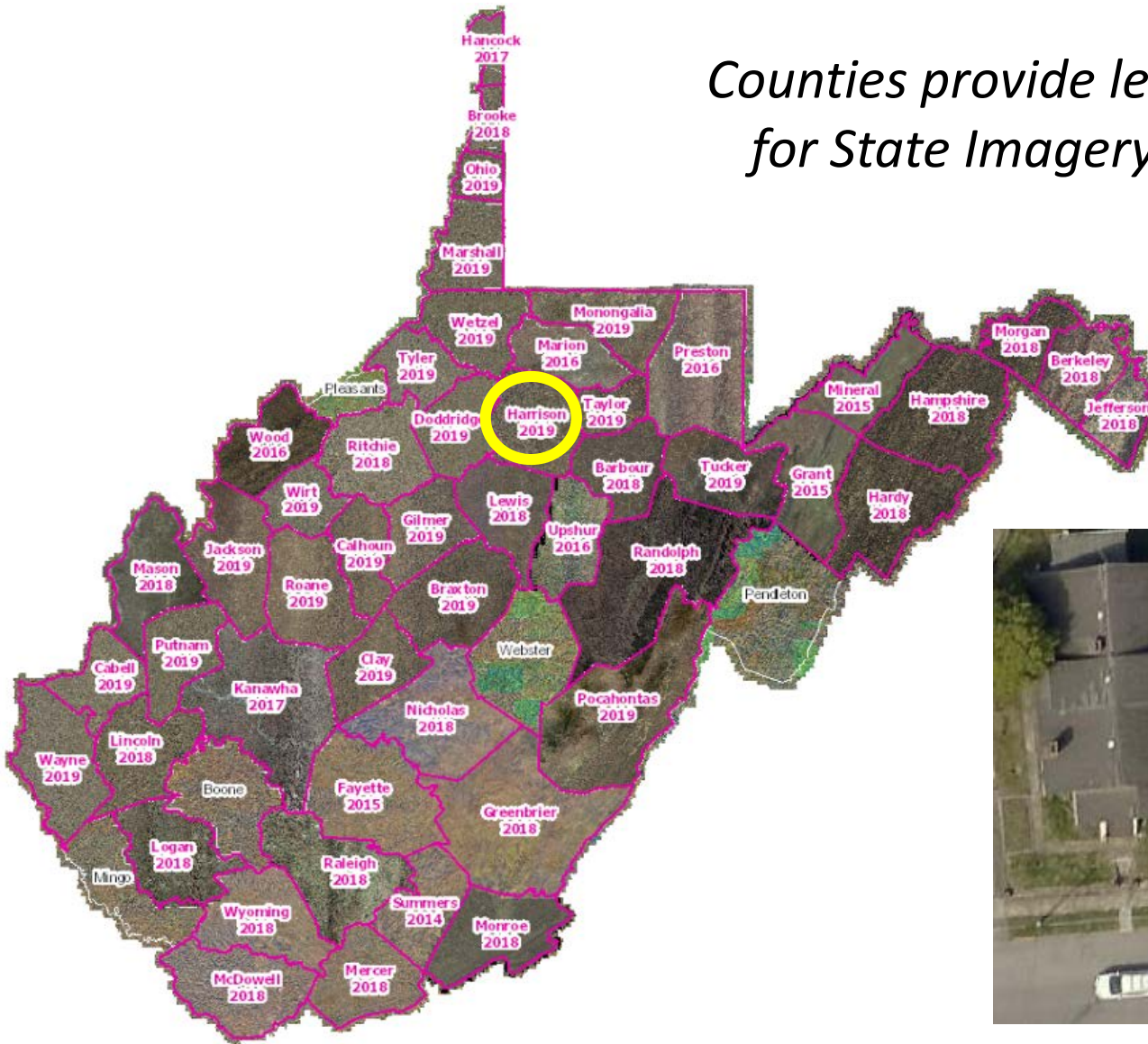


Ideally, leaf-off imagery should not be older than 5 years. Imagery is important for identifying at-risk structures and accurate disaster mapping.

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



WV Flood Tool Updates

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 | Layers: Risk | Reference | Basemaps | Search: Address | 1455 KNOTT RD, SHEPHERDSTOWN, WV | Tools: [Icons]

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]

Elevation: About 309 ft (Source: FEMA 2012)

Address: 1455 Knott Road, Shepherdstown, WV

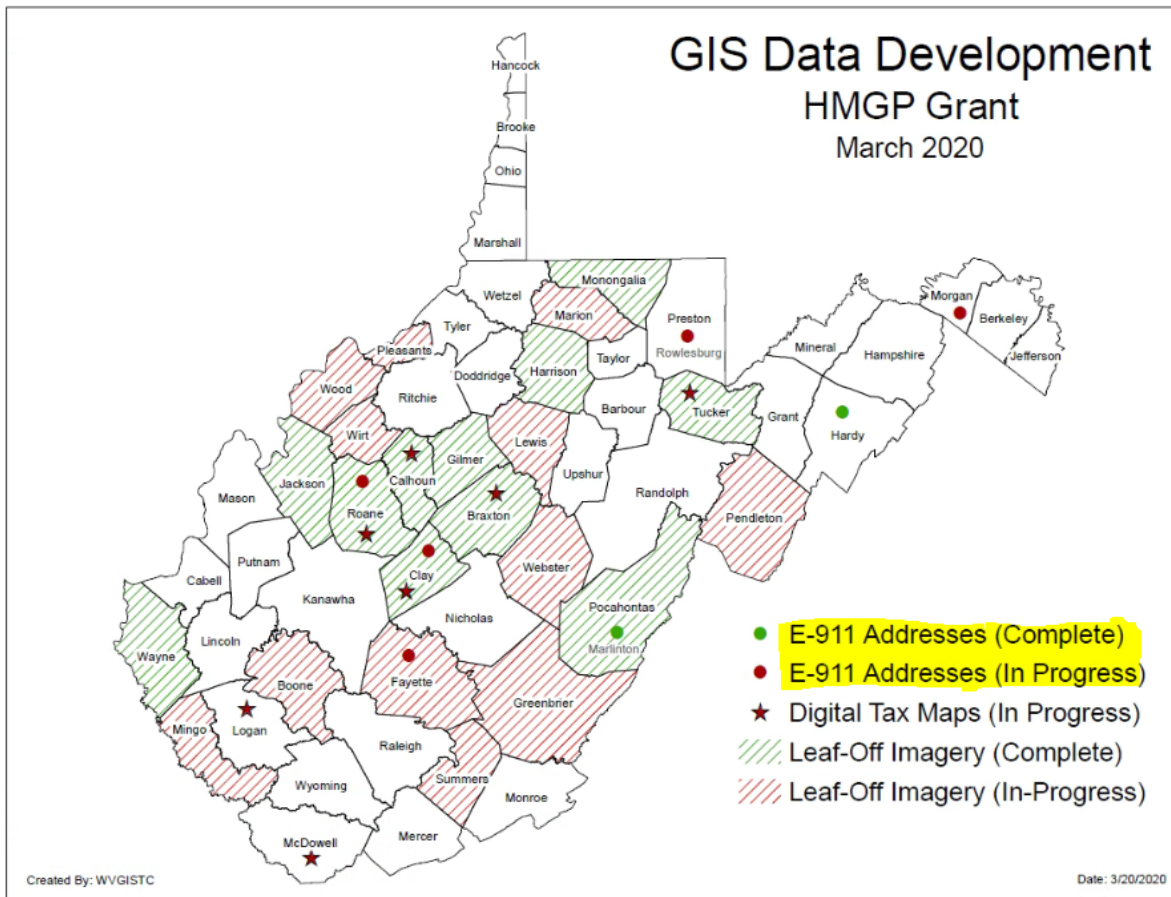
Parcel: 19-09-0011-0009-0016 | [Assessment](#)

Flood Risk Information | [Related Resources](#)
[Flood Risk Assessment](#)

Scale - 1
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

WV Flood Tool Updates

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.

Property Identification – Bldg. ID

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

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

Layers: Flood | Reference | Basemaps

Search: 1455 Knott Road, Shepherdstown, WV

Tools: [Link icon highlighted]

SHARE LINK

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

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 for various sharing options]

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: Related Resources

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 as 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

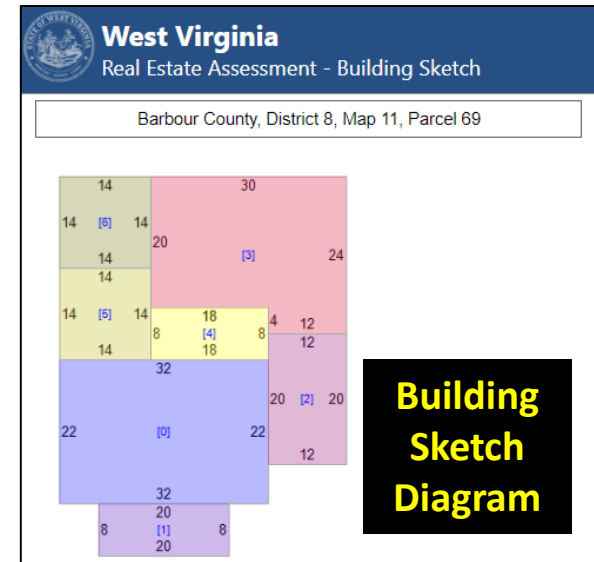
Cost Value

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



Map-Parcel Number 11-69

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 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:

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

Parcel Map

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)

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

