WV Flood Tool Upgrades

www.mapWV.gov/Flood

- Flood Query Results Panel
- External Links
- Shared Links
- Parcel Search
- Building-Specific Risk Assessments
- 3D Flood Visualizations
- Mobile Enhancements
- Improved Data Layers
 - Flood Layers
 - Advisory Floodplains
 - Mitigated/Buyout Properties
 - Local Data (parcels, addresses, imagery, elevation)
- Other Enhancements
- Future Statewide Coverage Goals

July 2017

Flood Query Results Panel

#	Each Location Query Answers:	1-0020-0000 ♀☆ 🖸	:
1	In Flood Hazard Area? In Floodway?	About Help Hon	ne
2	Stream name?		
3	Watershed name?	Search Tools aress ▼ 256 Rodeo Drive, Martinsburg, WV Q 🖊 🏴 🗘 🗊 🔗 🛔	
4	FEMA Issued Flood Map?	Flood Hazard Area: Location is WITHIN the FEMA	1
5	Floodplain Manager Contact?	Flood Zone: A 2 Stream: DRY RUN Tributary	
6	Flood Height value?	Click Here Watershed (HUC8): Conococheague-Opequon (2070004) 3	
7	Water Depth value?	4 FEMA Issued Flood Map: 54003C0151E ± Ø	,
8	HEC-RAS Model available?	256 Contacts: Berkeley 5	
9	Flood Profile available?	Rodeo Dr. 6 Advisory Flood Height V: N/A O Disclaime Water Depth V: About 4.4 ft (Source: EQL)	er
10	In a CRS community?	HEC-RAS Model: N/A 8 Flood N/A 0	-11
11	Coordinate x,y location?	Profile: CRS Information®: Berkeley County 10	-11
12	Ground elevation value?	11 Location (long, lat): (77.991540 W,39.483028 N)	
13	Street address location?	Elevation: About 513 ft 12	
14	Parcel ID location?	13 Address : 256 RODEO DR, Martinsburg, WV, 2540 Parcel ID :: 02-04-037M-0020-0000 1.4	03
15	Flood risk assessment info?	Flood Risk Information	
16	3D flood visualization?	375-7 16 3D Flood Visualization @	

Parcel ID Web Link: http://www.mapwv.gov/flood/Map/?v=1&pid=02-04-037M-0020-0000

New External Links



Parcel ID Web Link: <u>http://www.mapwv.gov/flood/Map/?v=1&pid=02-04-037M-0020-0000</u>

More Shared Links



Exchange flood info with others using various link types: (1) Map Click, (2) Map Center, (3) Parcel ID, (4) Address

Parcel Search



Parcel Search for 256 Rodeo Drive

Search by:

- 1. Parcel Owner
- 2. Parcel Address
- 3. Parcel Number

Parcel Search Results
IAS Parcel ID:
04 37M00200000000
GIS Parcel ID:

02-04-037M-0020-0000

Locate and zoom to parcels using various search parameters

Building-Specific Flood Risk Assessments (Currently only Berkeley & Morgan Counties)



Click on **Parcel ID** (Building Info), **Flood Risk Assessment**, and **3D Flood Visualization** links in bottom right of Flood Query Results Panel

Click on each tab to view information					
Addre	ss Parcel Risk				
BUILDING INFORMATION					
Land use	101 - Residential 1 Family				
Year built	1995				
Architectural style	Colonial				
Story height	2				
Exterior wall	Aluminum				
Total rooms	8				
GRADE	В				
Basement	Crawl				
Sum of designated structure areas	2512				
Building (card) number	1				
# of main BLDGs (cards)	1				

The tax parcel centroids and associated building characteristic data (YRBLT, STYLE, STORIES, EXTWALL, GRADE, BSMT, AREASUM) from the Integrated Assessment System --along with RS Means construction cost values, flood inundation areas, and water depth inputs -- are used by Hazus Flood Model software to estimate flood damages to each structure for a riverine 1% annual flood event.

Flood Risk Assessment (Cont.)

3D Flood	d Model		
	3D Visualization Cost	Tool Related Resources	
Depth	256 RODEO L	R, Martinsburg, WV, 25403	
<u>0 Foot</u>	· ·		
<u>1 Foot</u>		-	
2 Feet	A CONTRACT OF		
<u>3 Feet</u>			And Ballenin Is
4 Feet			
5 Feet			
6 Feet	= 256 Rodeo Dr. Martinsburg. WV 2 Q X		
7 Feet			0 A ==
8 Feet			
9 Feet			
10 Feet	256 Rodeo Dr Martinsburg, WV 25403 Directions		
11 Feet	Parcel ID: 02-04-037M-0020-0000	Water Depth: ~ 3.6 ft (EQL)	Google Map 🔀
12 Feet	Door and Frames - Most doors in residential structures	are hollow and are warped and destroyed b	etween 0.0 and 1.0 foot of
13 Feet	floodwater. Some would require replacement at 1.5 fee door frames are never a total loss.	t of floodwater. All doors are totaled at 4.0 fee	et of floodwater. Hollow metal
14 Feet	Sheetrock/Wall Insulation/Wall Boards - Walls and ins feet of floodwater, 50 percent damages at 2.0 feet, and	ulation are damaged at the rate of 25 percer total damages at 4.0 feet. In residential and s	nt damages at 0.0 foot to 1.5 some commercial structures,
15 Feet	the ceiling is made of sheetrock and is a total loss at 0.5 and insulation in the walls. In commercial structures wit	5 feet of floodwater because of the absorption h a suspended ceiling, tiles are damaged at	n of water from the sheetrock 4.0 feet of flooding, whereas
Wet	the framing is not demand because it is composed of	d/Man/2y=1 & nid=02-04-03	71/1-0020-0000

Example **flood risk assessment** information for 256 Rodeo Drive. Includes **3D flood visualization** with water depth-flood damage information for homeowner.

Addı	ess Parcel Risk
Building Replacement (Cost \$319,878
Content Cost	\$252,870
Building Area	2,512 sq ft
Hazus Occupancy Code	e RES1
Number of Stories	2
Year Built	1995
Building Construction	Wood
Building Condition	Medium
Building Foundation	Crawl
First Floor Ht	3 ft above ground
Damage Estimates	(UDF)
Building Damage Pct	12%
Building Loss USD	\$37,029
Content Damage Pct	10%
Content Loss USD	\$15,559

Structure-specific (called "User-Defined Facilities", or UDFs, in Hazus) flood risk assessments produce results and loss estimates at the building or structure level, and can often help facilitate flood risk discussions with individual home- or business-owners in a community. Source: "Guidance for Flood Risk Analysis and Mapping, Flood Risk Assessments"

3D Flood Visualizations

Visualizations are easier for non-technical users to understand flood risks to their property in feet of water rather than comprehending the adjacent base flood elevation

Commercia



0.Foo 1 Foot

3D flood visualizations are available statewide for locations where flood depth grids exist. The parcel assessment data fields (land use, stories) are necessary to identify the correct property type: residential one- or two-story homes, mobile home, commercial/industrial, etc.

1-Story Home

Depti

0 Foo

1 Foo

2 Feet

3 Feet

4 Feet 5 Feet 6 Feet

7 Feet 8 Feet

9 Feet

10 Fee

12 Fee

43 E.



"The 3D visualization is really cool. Our citizen comes to the counter and says 'there is no way there can be a flood like that.' Then we show them how much water you will get in your house and how much it will cost to repair it. The 3d visual is really good! And then we like the way you can click on a parcel ID and it brings up all the information as far as property owner, tax map and parcel number, deed book, page number - everything is right there. And the building information is really good too because it tells what the structure is made of, whether it has a basement - all the information that we would have to go to another system to pull is right there." Source: 3D Flood Visualization Comment from Debbie Robinson, Kanawha County Planning and Development Office

3D Flood Visualizations

Brooke County

https://www.mapwv.gov/flood/map/?v=1&pid=05-07-W22P-0161-0000

1412 Charles St, Wellsburg, WV, 26070, Parcel ID: 05-07-W22P-0161-0000



"This is the coolest thing ever....thank you!!!"

Source: 3D Flood Visualization Comment from Terri Jo Bennett, CFM, Upshur County Building Permit, Floodplain and Addressing and Mapping Coordinator

Upshur County

https://www.mapwv.gov/flood/map/?v=0&pid=49-05-0003-0031-0000 673 Vicksburg RD, Buckhannon, WV, 26201, Parcel ID: 49-05-0003-0031-0000



Mobile Application Enhancements

http://www.mapwv.gov/flood/mmap/



Added Floodway



Advisory Floodplain Notification

New Flood Layers Added

FLOOD LAYERS	Public View for general public	Expert View for floodplain managers	RiskMAP View for flood risk planning
 Flood Hazard Layers Flood Hazard Zones Panel Index X-Sections BFE's / Advisory Flood Heights LOMAs / LOMRs* Structures, Levees, Mile Markers* 	Yes No No No No	Yes Yes Yes Yes Yes Yes	Yes No No No No
Flood Prediction • USGS Real-Time Stream Gages*	No	Yes	No
Flood MitigationMitigated/Buyout Properties	No	Yes	Yes
 Flood Risk Flood Water Depths Historical High Water Marks Site-Specific Flood Risk Assessment Data Flood/Dam Inundation Maps (future) 	No No No	Yes Yes No No	Yes Yes Yes Yes

* External Agency Web Map Services

New Flood Layers Added



Example: Levee structure and real-time stream gage located at Parkersburg, WV http://www.mapwv.gov/flood/Map/?wkid=102100&x=-9080275&y=4759882&l=8&v=1

NWIS Stream Gage



Example: Real-Time Stream Gage Data for Dry Fork at Beartown, WV (Expert View) https://www.mapwv.gov/flood/map/?wkid=102100&x=-9104675&y=4491964&l=6&v=1

Advisory Floodplains

New **advisory** flood heights, depth grids, and floodplain boundaries are being added to the WV Flood Tool and will exist for all counties in the near future

	WV Floo	d Tool		↑ Spencer Grantsville →	About Help Home
blic E	Views Expert Risk MAP + Flood -	Layers ■ Reference ▼	Search owl creek road, morgantown, wv 		
			T		Flood Hazard Area: Location is WITHIN an advisory floodplain but NOT a regulatory floodplain. Flood Zone: Advisory A Stream: Booths Creek Watershed (HUC8): Upper Monongahela (5020003) FEMA Issued Flood Map: 54061C0240E & S Map Effective Date: 1/20/2010
	Click on each tab to vie	w information	1.110		Advisory Flood Height About 996 ft Disclaimer Water Depth About 0.4 ft (Source: HEC-RAS) HEC-RAS Model: Booths Creek
	Addre	ss Parcel Risk	Mark 13		Flood Profile: N/A
(Carol)	PHYSICAL ADDRESS				Location (long, lat): (79.977896 W,39.534745 N)
- 10 T		TION	Advisory A		Location (UTM 17N): (587837, 4376618) Elevation: About 996 ft
2 10110	Property Class Type	l - Industrial			Address 437 GOSHEN RD, MORGANTOWN, WV
- 100 - 100	Land use	401 - Manufacturing	(AST HUNDER	Flood Risk Information
0 I. WIN	Year built	1976			Flood Risk Assessment ® N/A
	Story height	2	437 Gosh	en Road	
	Exterior wall	Concrete Block		en noda	
10	Construction Type	Wood frame/Joist/Beam			
10 PL	Building Grade	С			
	Basement Type	None			A A
	Business Living Area	86,684			
	# of cubic feet	1,896,430			
	Use Type	43-Manufacturing, 44-Light Manufacturing, 45-Warehouse, 82- Multi-Use - Office, 84-Multi-Use - Storage, 85-Enclosure, 86-Support Area			

Example: 437 Goshen Road, Morgantown, WV (Swanson Industries Plant) https://www.mapwv.gov/flood/map/?wkid=102100&x=-8903099&y=4798561&l=12&v=1 A new flood zone status (orange/mango color) has been added to the WV Flood Tool when the **location is** WITHIN an advisory floodplain but NOT a regulatory floodplain. In the example on the left note how a the Swanson Industries building is located in the new modelbacked Advisory A Zone (blue water depth grid) but not the effective Approximate A Zone (red vertically hachured polygon). This example represents an Advisory A **Zone** but the same could be done for new Advisory AE Zones generated from redelineated AE Non-Restudy areas using new topography.

Advisory AE Floodplain

Redelineated Floodplain Using New Topo



Advisory AE Depth Grid



Advisory AE Determinations



What do you tell the public? Acquire an elevation certificate and use the advisory flood elevation to request a LOMA to amend the effective NFIP map.

Advisory AE Determinations



What do you tell the public? Advisory information indicates a flood hazard area and will likely be incorporated into future effective NFIP maps. New development should not occur in Advisory Floodplains without a detailed study to show development reasonably safe from flooding. Recommend purchasing flood insurance for existing structures.

Regulatory vs. Advisory Floodplains



Mitigated/Buyout Properties





Example: 145 Riverbend Blvd, Saint Albans, WV (adjacent to Coal River)

House still visible in default imagery of WV Flood Tool and Google StreetView; however, in Google Maps oblique view the structure has been removed.

https://www.mapwv.gov/flood/map/?v=0&pid=20-16-012E-0125-0000

Improved Local Data Integration



County data reference layers are very important for flood determinations and flood risk products

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



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)	Cardin takes
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	С
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.mapwy.gov/flood/map/?v=0&pid=31-14-0031-0101-0000



14 Foot Anniiances - Most anniicances (refrigerator stove dishwasher washer drver) are a total loss hetween 1.0 and 2.0 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

Assessment Building Info

West Virginia Parcel Property Class Breakdown for Tax Year 2017

Code	Property Class	# of Parcels	Percent (%)
R	Residential	1,164,470	79.61%
F	Farm	121,384	8.30%
А	Apartment	3,222	0.22%
С	Commercial	65,784	4.50%
	Industrial	3,105	0.21%
Х	Exempt	97,773	6.68%
U	Utility	192	0.01%
Other	Not classified	6,837	0.47%
		1,462,767	100.00%

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**.

Addresses Link to Parcels

https://www.mapwv.gov/flood/map/?wkid=102100&x=-8901769&y=4816526&I=13&v=0 Search **P** C **B** 8 Q ÷. Parcel Building Info Pub maps - 680 Killarney Drive, Morgantown, wy Address 4.915 54-214 Flood Hazard Area: Location is WITHIN the FEMA × 54-213 100-year floodplain 54.21 Flood Zone: A Parcel Risk Address Stream: Burroughs Run . 3 Watershed (HUC8): Upper Monongahela (5020003) PHYSICAL ADDRESS FEMA Issued Flood Map: 54061C0112E + 8 BUILDING INFORMATION Map Effecitve Date: 1/20/2010 Contacts: Monongalia Property Class Type A - Apartment CRS Information®: N/A Land use 211 - Apartment-Garden (1-3 stories) (79.965948 W.39.659095 N) Location (long, lat): Year built 1958 973 973 973 Location (UTM 17N): (588705, 4390431 Construction Type Wood frame/Joist/Beam 678 Elevation: About 995 ft 678 2 Use Type 11-Apartment Address : multiple addresses # of cubic feet 211688 54-220.2 682 Parcel ID : 31-15-0054-0220-0000 3 # of units 18 Flood Risk Information Flood Risk Assessment 😨 N/A 2 Story height 3D Flood Visualization 🤨 No Depth Grid Available Exterior wall Brick or Stone GRADE D+ First Basement Basement Address Parcel Risk Building (card) number 1 680 9. 🚱 🎇 💋 #11: 682 KILLARNEY DR, Morgantown, West Virginia. # of main BLDGs (cards) 4 680 KILLARNEY NoUnit Multi-Unit Addresses 680 0 680 × 54-220.1 680 😡 🌠 💋 #13: 680 KILLARNEY DR, Morgantown, West Virginia, Address Format: street address, city, state, zip 680 680 26505 Note: Seperate each segments by comma (.). Locator: WV Site Locator 🖲 🐼 🎀 💋 #14: 680 KILLARNEY DR. Morgantown, West Virginia. 680 26505 Disclaimer 🔍 🚱 🎇 💋 #15: 680 KILLARNEY DR, Morgantown, West Virginia, Standard Input Address: 680 KILLARNEY NoUnit 26505 MORGANTO Site Address Match 🔍 🚱 🎇 💋 #16: 680 KILLARNEY DR, Morgantown, West Virginia, Wa 26505 55A-10 55A-9 🔍 🦬 🎇 💋 #17: 680 KILLARNEY DR, Morgantown, West Virginia, 55A-8 Geographic Coordinate: (-79,965995,39,659102) 55A-7 26505 @WVGISTC Lest Off Mixed Resolution Imagery 79.966190. y: 39.659546 55-87.3 S

auchs St

606 Tax Districts 5% or 33 tax districts have incomplete or no digital parcel boundaries **Digital Parcel Sources Assessor Offices** ۲ E-911 Offices \bullet State Tax Department ullet



2013 WEST VIRGINIA STATEWIDE STANDARD HAZARD MITIGATION PLAN UPDATE

ID	Description	Priority <i>(H</i> , 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.	н	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



	Missing/		
	Obsolete Data		
#	Parcels		
1	Boone		
2	<mark>Braxton</mark>		
3	Calhoun		
4	Clay		
5	<mark>Jackson</mark>		
6	Logan		
7	<mark>McDowell</mark>		
8	Roane		
9	Tucker		
10	Tyler		
11	Wirt		
12	Wyoming		

What is the cost for parcel conversion?

\$3.00 per parcel

Cost estimate of \$250K to achieve a current and accurate Digital Parcel Boundary file



- Estimated mapping cost of \$250K to achieve a current and accurate Digital Parcel Boundary file
- SB 588 As of July 5 will cost about \$25 instead of \$165,000 to acquire Statewide Parcel File

Counties using GIS



Paper to Digital Tax Maps

Mapper: "I was apprehensive four years ago when our newly elected assessor decided to digitize our parcel mapping system; but with the work done by the mapping contractor then and their continual assistance today, I cannot imagine returning to the manual system." Source: 2017 Tax Map Survey



- Manual drafting of tax maps is becoming obsolete!!!
- There are no schools that teach manual drafting skills
- Manual drafting supplies are becoming scarce
- Tax Division may remove itself from drafting contract services

606 Tax Districts 5% or 33 tax districts have incomplete or no digital parcel boundaries **Digital Parcel Sources Assessor Offices** ۲ E-911 Offices \bullet State Tax Department ullet

Parcels in WV Flood Tool



Contact your assessor about including parcels in WV Flood Tool

Aerial Imagery



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/ImageryBaseMaps/wv_aerial_photos_mixed_resolutions_wm/MapServer?f=jsapi



Aerial Imagery Costs

Source >	WV Area (Sq. Miles)		Target Counties	
Categories>	Area	%		
WV Totals>	24,231	\$ 1,696,200		
COUNTY 🗸				
Barbour County	343	\$ 23,994	\$	23,994
Berkeley County	322	\$ 22,513		
Boone County	503	\$ 35,225	\$	35,225
Braxton County	516	\$ 36,134	\$	36,134
Brooke County	92	\$ 6,458		
Cabell County	288	\$ 20,163		
Calhoun County	281	\$ 19,646	\$	19,646
Clay County	344	\$ 24,070	\$	24,070
Doddridge County	321	\$ 22,436		
Fayette County	668	\$ 46,788		
Gilmer County	340	\$ 23,806	\$	23,806
Grant County	480	\$ 33,616		
Greenbrier County	1,024	\$ 71,714	\$	71,714
Hampshire County	645	\$ 45,127		
Hancock County	88	\$ 6,185		
Hardy County	585	\$ 40,916	\$	40,916
Harrison County	417	\$ 29,164		
Jackson County	472	\$ 33,013	\$	33,013
Jefferson County	212	\$ 14,811		
Kanawha County	911	\$ 63,775		
Lewis County	390	\$ 27,285	\$	27,285
Lincoln County	439	\$ 30,703		
Logan County	456	\$ 31,894	\$	31,894
Marion County	312	\$ 21,806		
Marshall County	312	\$ 21,854		5

Mason County	445	\$ 31,139	\$ 31,139
McDowell County	535	\$ 37,446	\$ 37,446
Mercer County	421	\$ 29,450	
Mineral County	329	\$ 23,041	
Mingo County	424	\$ 29,656	\$ 29,656
Monongalia County	366	\$ 25,614	
Monroe County	474	\$ 33,158	\$ 33,158
Morgan County	230	\$ 16,078	\$ 16,078
Nicholas County	654	\$ 45,812	\$ 45,812
Ohio County	109	\$ 7,620	
Pendleton County	698	\$ 48,875	\$ 48,875
Pleasants County	135	\$ 9,422	\$ 9,422
Pocahontas County	942	\$ 65,933	
Preston County	651	\$ 45,602	
Putnam County	350	\$ 24,529	
Raleigh County	609	\$ 42,657	\$ 42,657
Randolph County	1,040	\$ 72,800	
Ritchie County	454	\$ 31,753	
Roane County	484	\$ 33,866	\$ 33,866
Summers County	368	\$ 25,741	\$ 25,741
Taylor County	176	\$ 12,299	
Tucker County	421	\$ 29,479	\$ 29,479
Tyler County	261	\$ 18,250	
Upshur County	355	\$ 24,842	
Wayne County	512	\$ 35,856	\$ 35,856
Webster County	556	\$ 38,933	\$ 38,933
Wetzel County	361	\$ 25,297	
Wirt County	235	\$ 16,440	\$ 16,440
Wood County	377	\$ 26,389	
Wyoming County	502	\$ 35,130	\$ 35,130

Currentness Yellow highlighted counties indicates imagery older than 5 years.

Resolution 6-inch resolution or better

Leaf-Off WV 3rd most forested state (78% forested)

Funding Sources Assessor Valuation or County Commission Funds

State-Level Integration



Other & Future Enhancements

Other Enhancements Accomplished

- Added Leaf-on USDA NAIP 2016 Statewide Imagery & WV DEP Hillshade
- Best Leaf-Off imagery updated with aerial imagery from 28 counties
- Parcels added for 30 counties, with 3 counties pledged by end of summer
- Added Tug Fork Detailed Restudy
- Improved Parcel ID Search tool
- Embedded FloodSmart.gov Cost Calculator (*currently out of service due to security breach*)
- Link to National Weather Service Advanced Hydrologic Prediction Service (AHPS)
- Links to Flood Smart and Flood Risk Documents
- Updated WV Address Locator Services
- Re-programmed toolbar icons for restrictive settings on federal IE web browsers
- Improved drawing and text markup tools
- Update contact list of Floodplain Managers
- Update statewide mitigated buyout properties flood layer
- Added floodway to mobile application, updated data layers, services, flood queries
- Added nearly 1.5 million assessor attribute records for Tax Year 2017 to include building specific information for commercial/industrial/apartment properties

Future Enhancements

- Add Upper Mon. Detailed Restudy (includes BFE grid)
- Add new advisory floodplains and depth grids for A and AE Zones
- Update statewide elevation grid with new lidar acquisitions
- Acquire digital parcel and addressing layers for all counties
- Add flood risk assessments and products for all counties
- Improve building and essential facility inventories for risk planning
- Incorporate 3D flood visualization models of communities (requires building footprints)
- Add Historical Flood Inundation and Dam Break Inundation maps from external sources
- Reclassify statewide water depth grid

Clear Browser Cache

Remember to clear browser cache to access all the current information and updates of Flood Tool

- Step 1
 - Press [Control]+[F5] on the keyboard. This is a FORCED refresh.
- Step 2
 - This process is more complicated. To do it thoroughly follow these steps.
 - close all browser windows
 - open a single browser
 - go to [Tools] on the top menu
 - select [Internet Options]
 - You will get a dialog box similar to the one shown below.
 - Press the [Delete Files] button. This should clear all the files in your browser cache.

			π ★ ₩			
	h	Sign in 🔅	^			
	Int	ternet Options 🛛 💡 🕅				
		General Security Privacy Content Connections Programs Advanced				
		Home page				
		http://go.microsoft.com/fwlink/?LinkId=56626&hom				
r		Startup				
ł		Start with tabs from the last session				
		Start with home page				
		Tabs				
		Change how webpages are displayed in tabs.				
	Browsing history					
		Delete temporary files, history, cookies, saved passwords, and web form information.				
		Delete Settings				
		Appearance				
		Colors Languages Fonts Accessibility				
		OK Cancel Apply				

Statewide Coverage Goals

- In 2 years...
 - Advisory Flood Heights (AFH) for Approximate A Zones and model Ordinance
- In 3 years...
 - Building-Specific Inventories
 - Site-Specific Flood Risk Assessments
 - Statewide Parcel File
 - Composite Depth Grid
 - Restudies
 - Advisory A & AE Zones



Technical Questions about Tool?

WVU GIS Technical Center

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