



January 5, 2026

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**SUBJECT:** Invoice 2 for COMS Task A: Global Outreach Services from 4/1/2025 to 9/30/2025 for WV Flood Tool; FY24 CTP Community Outreach and Mitigation Strategies (COMS) Grant.

Dear Kevin,

In accordance with the FY24 CTP Service Agreement, this first invoice in the amount of **\$56,000.00** is for Global Outreach Services (Task A) for the WV Flood Tool ([www.mapwv.gov/Flood](http://www.mapwv.gov/Flood)). See the scope of work as outlined the 2024-25 (FY24) CTP Statement of Work Plan dated September 2024, and authorized under a WV-48 service agreement between the WVEMD and WV GIS Technical Center, West Virginia University. Refer to the FY24 COMS [Statement of Work](#) documents for more details about the specific tasks.

Invoice #	Services Rendered	Amount
01052026  <b>Time Period</b> 4/1/2025 to 9/30/2025 (6 months)	<p><b>TASK A: [GLOBAL OUTREACH SERVICES FOR WV FLOOD TOOL]</b> Provide statewide global outreach services that process and integrate new flood and reference GIS layers, tool enhancements, flood risk information, etc. for the WV Flood Tool (<a href="http://www.mapwv.gov/Flood">www.mapwv.gov/Flood</a>). Services include computer programming, geo-processing, customized mapping, public awareness/outreach, training, and Community Rating System credits for communities.</p> <p><b>ACTIVITIES SUMMARY:</b> <b>Global outreach services performed for the six-month period from April 1, 2025 to September 30, 2025.</b> TASKS COMPLETED. New effective and advisory flood layers (flood zones, depth/WSEL grids, cross-sections, BFE lines, LOMAs/LOMRs, flood profiles, panel index, FEMA map and HEC-RAS model downloadable links, vertical datums, etc.) were updated to the WV Flood Tool (<a href="http://www.mapwv.gov/flood">www.mapwv.gov/flood</a>). Upgraded flood zone query programming logic and cartography to support floodplain management, risk assessment, and mitigation mapping layers. Updated elevation certificates and buyout properties on the WV Flood Tool. Updated reference layers (parcels, addresses, leaf-off imagery, legal boundaries, etc.) on the WV Flood Tool. Updated technical documentation associated with the WV Flood Tool. Updated the contact listing of all the local floodplain managers on the WV Flood Tool. Updated Freeboard and CRS ratings for Query Panel of WV Flood Tool. Maintained the WV Flood tool at a high level of performance and availability to include periodic system administrative and cyber security updates. Provided outreach and technical support services for the WV</p>	<b>\$56,000</b>

Flood Tool, including training by Kurt Donaldson to professional surveyors in April 2025 in Rowlesburg, WV.

**Desktop Version:** <https://www.mapwv.gov/flood>

**Mobile Version:** <https://www.mapwv.gov/flood/mmap>

**Property Search and Report:** <https://www.mapwv.gov/property>

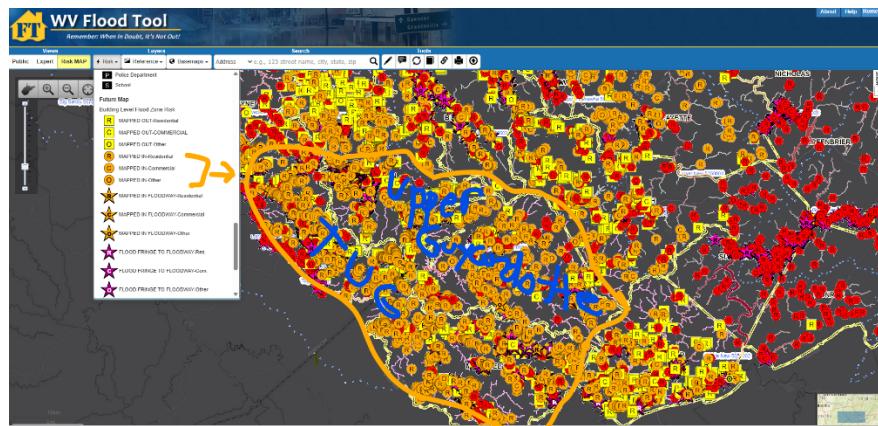
**Table COMS-A.1.** New flood studies updated to the WV Flood Tool. Studies include Effective, Draft/Preliminary National Flood Hazard Layers submitted for 12 counties.

DRAFT NFHL	PRELIMINARY NFHL
Cabell County	Morgan County
Lincoln County	
Logan County	
Mason County (Raccoon-Symmes)	
McDowell County	
Mercer County	
Mingo County	
Putnam County (Low. Guy. & Rac.-Symm.)	
Raleigh County (Upper Guyandotte)	
Wayne County	
Wyoming County	

Updated building counts for new DRAFT SFHA of southern WV posted on the RiskMAP View of the WV Flood Tool for nearly 20,000 structures. Some findings:

- **BUILDING COUNTS:** The Tug Fork (McDowell & Mingo Counties) and Upper Guyandotte (Wyoming County) watersheds have a total of [6,475](#) and [6,542](#) structures, respectively, in the new Draft SFHA, a net increase of 1,005 and 518 buildings. The Lower Guyandotte watershed (Logan & Lincoln counties) has a significant net decrease of 1,109 structures mapped out of the new Draft SFHA.
- **FLOODWAY BUILDING COUNTS:** In the city of Huntington, a net increase of 154 structures was mapped into the Floodway. Based on the new Draft Floodplains, Huntington will have the highest number of floodway structures (n = 266 structures) if compared to the other 229 incorporated places in the State. FEMA is conducting a LOMR of this area.
- Based on new Draft Floodplains, the Huntington floodway building count more than doubled from 112 to [266 structures](#). According to the [Building Floodway Count](#) Risk Factor, Huntington will have the most floodway structures for a town in the State. [Fourpole Creek](#) (n=219) contains most floodway structures in the Draft Floodplain. View newly mapped floodway structures for Huntington on [WV Flood Tool](#).
- Download SFHA building county spreadsheet breakdowns by Watershed or Counties from [Hazard Library](#).

**Figure COMS-A.2.** Significant increase of mapped-in structures (orange symbolized structures on Risk MAP View of WV Flood Tool) in the new Draft Floodplain for the Tug Fork and Upper Guyandotte Watersheds



**Figure COMS-A.3.** Watershed SFHA Changes from new FEMA Mapping

	Remaining in SFHA	No Change Floodway	Mapped In SFHA	Mapped In Floodway	Newly Mapped in SFHA	SFHA to Floodway	Draft Floodway Count	Newly Mapped Out of SFHA	Net Change	Total Structures in New SFHA
Big Sandy	52	2	61	-	61	-	2	61	0	115
Lower Guyandotte	2,136	141	865	10	875	40	191	1,984	-1,109	3,192
Raccoon-Symmes	1,145	121	432	72	504	129	322	409	+95	1,899
Tug	3,869	528	1,923	18	1,941	137	683	936	+1,005	6,475
Twelvepole	969	143	235	-	235	1	144	934	-699	1,348
Upper Guyandotte	3,793	670	1,935	24	1,959	120	814	1,441	+518	6,542
Total	11,964	1,605	5,451	124	5,575	427	2,156	5,765	-190	19,571
	<a href="#">BLRA Link</a>				<a href="#">BLRA Link</a>			<a href="#">BLRA Link</a>		<a href="#">BLRA Link</a>

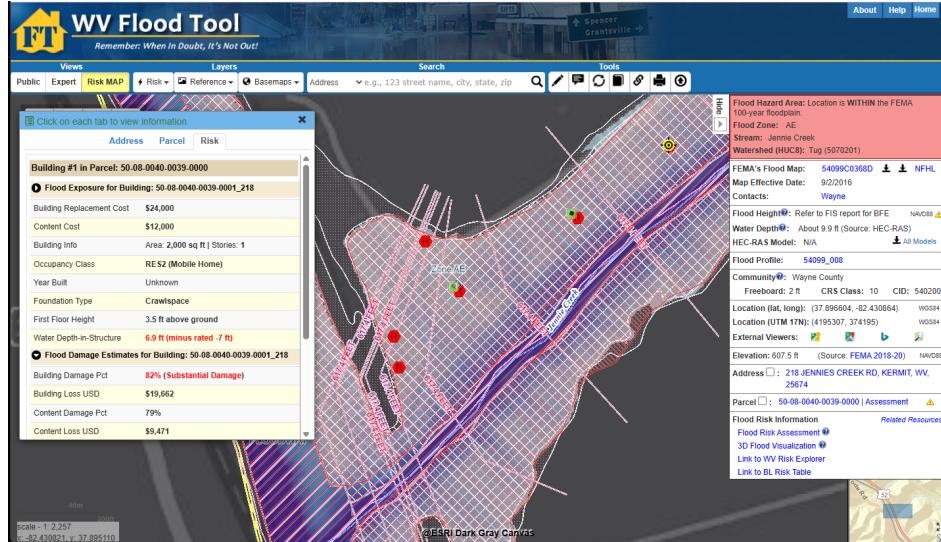
**Figure COMS-A.4.** County SFHA Changes from new FEMA Mapping

	Compare to FRR counts		Compare to FRR counts		Compare to FRR counts		Compare to FRR counts		Compare to FRR counts	
	Remaining in SFHA	No Change Floodway	Mapped In SFHA	Mapped In Floodway	Newly Mapped in SFHA	SFHA to Floodway	Draft Floodway Count	Newly Mapped Out of SFHA	Net Change	Total Structures in New SFHA
Berkeley County	418	8	227	1	228	-	9	172	+56	654
Cabell County	1,672	118	772	81	853	157	356	751	+102	2,800
Lincoln County	1,391	66	157	-	157	4	70	976	-819	1,618
Logan County	2,299	551	916	1	917	108	660	1,517	-600	3,875
Mason County (Raccoon-Symmes)	313	9	13	-	13	-	9	116	-103	335
McDowell County	1,780	282	1,258	16	1,274	105	403	421	+853	3,441
Mercer County	1,055	160	262	8	270	102	270	984	-714	1,587
Mingo County	2,214	283	781	4	785	41	328	535	+250	3,323
Morgan County	278	86	48	-	48	-	86	225	-177	412
Putnam County (Low. Guy. & Rac.-Symm.)	35	-	36	-	36	-	-	67	-31	71
Raleigh County (Upper Guyandotte)	229	-	92	-	92	-	-	76	+16	321
Wayne County	1,268	198	353	-	353	1	199	1,085	-732	1,820
Wyoming County	1,420	98	1,102	22	1,124	11	131	304	+820	2,653
Total	14,372	1,859	6,017	133	6,150	529	2,521	7,229	-1,079	22,910

**Updated backwater 1% WSEL and Depth Grids for 46 streams, mostly along the Tug Fork and Ohio River.** Additionally, 1% WSEL/Depth grids were calculated for Mingo County north of railroad tracks that were missing from the FEMA 2016 study. The new WSEL and Depth grids were published to the WV Flood Tool, along with updated Hazus loss estimates using the more current model-backed depth grids.

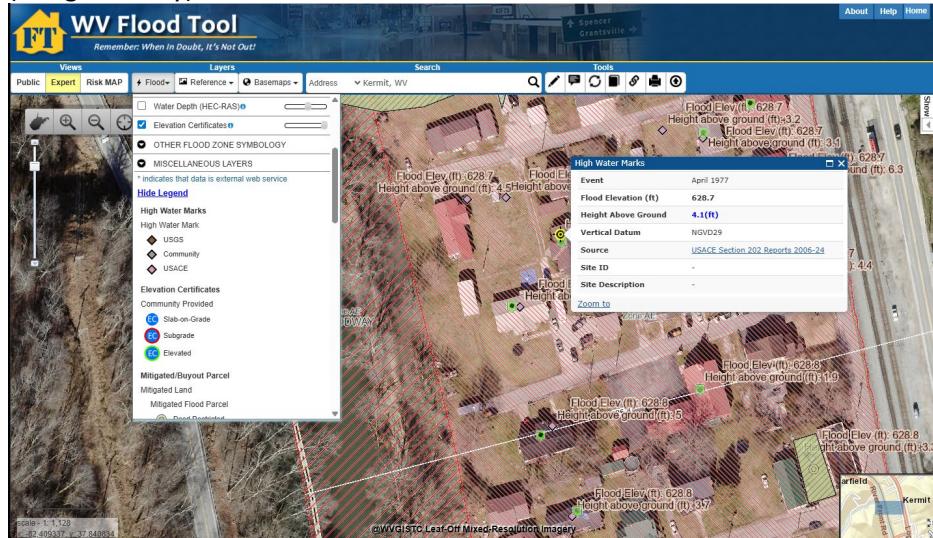
**Figure COMS-A.5.** Example Jennie Creek, a tributary of Tug Fork, in which 1% WSEL & Depth grids calculated for backwater of Tug Fork. Hazus loss estimates were recomputed for each structure with the new depth grids.

<< WV Flood Tool Building Risk: [218 JENNIES CREEK RD, KERMIT, WV, 25674](#) >>



**Updated High Water Marks on Expert & Risk MAP Views of the WV Flood Tool, including 846 high water marks from the April 1977 flood of record for the Tug Fork Basin.**

**Figure COMS-A.6.** Example of April 177 USACE high-water marks in [Kermit, WV](#) (Mingo County).



<b>Task A</b>	<b>Total invoice amount:</b>	<b>\$56,000</b>

Please use the following information for paying electronically:

Payment Transfer Information:

OASIS: 4187 111 1463 1463 6909 H514

WVU Acct: 11. 110530213. 11303179. 4108501. 999. 99999999

If you have any questions, or need clarifications, please do not hesitate to call.

Sincerely,

*Kurt Donaldson*

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