Data Dictionary (Metadata)
WV Risk Index (Rankings/Scores)

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This document provides metadata for the WV Risk Index, which aggregates flood risk indicators into seven major categories across eight geographic scales, ranging from incorporated places to planning and development regions, as well as watersheds and streams. The risk categories include: (1) Floodplain Characteristics (FC), (2) Building Exposure (BE), (3) Building Characteristics (BC), (4) Critical Infrastructure (CI), (5) Community Assets (CA), (6) Building Damage Loss (BD), and (7) People / Social Vulnerabilities (PS). The inclusive percent ranking function is used to compute flood indicator rankings for each risk variable at every geographic level. Percentile ranking values range from 0% to 100%, with higher values indicating greater vulnerability. To ensure meaningful comparisons, incorporated places with fewer than 10 buildings and watersheds with fewer than 100 buildings are excluded from ratio-based calculations. Also, watersheds covering less than 60,000 acres or only a small portion of the state are not included in the ranking analysis. For each geographic scale, percentile values for all risk variables are summed to compute an overall percentile ranking. Additionally, indicator flags are assigned for the top 10% (90th percentile) and top 20% (80th percentile) to support multi-scale analysis.

The related dataset also includes general information about the geographic entities. Additionally, statewide total values are calculated for all these indicators and the general information.

Category	Variable Name	Variable Code	Short Description	Units	Data Type
GENERAL INFORMATION	**Name**	GSL_NAME	Unit Name of the Geographic Scale Level (GSL) assessed for flood risk *Colors:* Black --> Incorporated places Black on yellow** --> Split communities Black on blue --> Six incorporated communities included in the detailed risk study (Camden-on-Gauley, Clendenin, Rainelle, Richwood, White Sulphur Springs, and Marlinton) Black on gray* --> Unincorporated areas **BLACK ON ORANGE --> Counties**	N/A	Text
	Unique ID	GSL_ID	Unique GSL ID: FEMA Community ID (CID), County FIPS	N/A	Text
	County	COUNTY	County in which the community is located	N/A	Text
	Geographic Scale Level Type	GSL_TYPE	GSL Type: County, Unincorporated Area, Incorporated Place, or Split Community	N/A	Text
	WV PDC Region	REGION	WV Regional Planning and Development Council region	N/A	Text
	Total Area (Acres)	TOTAL_AREA	Total land area of the GSL measured in acres	Acres	Numeric
	Total Stream Length (miles)	TOTAL_LENGTH	Total stream length measured in miles	Miles	Numeric
	Total Structures	STRUCTURES	Number of buildings within the GSL based on the total E911 addresses	#	Numeric
	Total Population	POP	Total number of residents within the geographic unit based on 2021 American Community Survey (ACS) 5-year estimates	#	Numeric
	Population Density	POP_DENS	Number of residents per square mile in the geographic unit based on 2021 American Community Survey (ACS) 5-year estimates and measured area	#/Sq. Mile	Numeric
	Number of Households	HHLD	Number of Housing Units based on 2021 American Community Survey (ACS) 5-year estimates	#	Numeric
	Average Household Size	HHLD_AVG	Average number of individuals per household within the geographic unit based on 2021 American Community Survey (ACS) 5-year estimates	#	Numeric

Category	Variable Name	Variable Code	Short Description	Units	Data Type
(1) FLOODPLAIN CHARACTERISTICS (FC)	Floodplain Area	AREA_SFHA	Total acreage of the Effective Modified Special Flood Hazard Area (mSFHA) with these areas excluded from Total aSFHA: Open water lakes > 10 acres; Large rivers bank-to-bank > 500 ft.; Federal lands > 10 acres	Acres	Numeric
	Percent Rank on AREA_SFHA	PR_AREA_SFHA	In Excel: PERCENTRANK.INC on AREA_SFHA	%	Numeric
	Floodplain Area Ratio	AREA_SFHA_RT	Ratio of the Effective Modified Special Flood Hazard Area (mSFHA) to total geographic scale area	%	Numeric
	Percent Rank on AREA_SFHA_RT	PR_AREA_SFHA_RT	In Excel: PERCENTRANK.INC on AREA_SFHA_RT	%	Numeric
	Floodplain Length	FP_LENGTH	Total length of the Effective and Advisory Special Flood Hazard floodplains in miles	Miles	Numeric
	Percent Rank on FP_LENGTH	PR_FP_LENGTH	In Excel: PERCENTRANK.INC on FP_LENGTH	%	Numeric
	Floodplain Length Ratio	FP_LEN_RT	Ratio of Special Flood Hazard length (Effective and Advisory) to total geographic scale area	Miles/Acre	Numeric
	Percent Rank on FP_LEN_RT	PR_FP_LEN_RT	In Excel: PERCENTRANK.INC on FP_LEN_RT	%	Numeric
	Flood Declared Disasters	DCL_DSTR	Number of federally-declared flood disasters in the county since 1953 (incident subcategories of "flood," "severe storms," or "hurricanes")	#	Numeric
	Percent Rank on DCL_DSTR	PR_DCL_DSTR	In Excel: PERCENTRANK.INC on DCL_DSTR	%	Numeric
	Flood Depth Median	MED_FL_DEPTH	Median value of flood depths of all primary structures inventoried in the High-Risk* flood zones from FEMA's models	Feet	Numeric
	Percent Rank on MED_FL_DEPTH	PR_MED_FL_DEPTH	In Excel: PERCENTRANK.INC on MED_FL_DEPTH	%	Numeric
	Category 1 Indicators Sum	S_CATEGORY1	Sum of indicators scores in Category 1	N/A	Numeric
	Category 1 Index	PR_CATEGORY1	In Excel: PERCENTRANK.INC on S_CATEGORY1	%	Numeric
	Category 1 Top 10% Rank Flag	FLAG_90_PL_C1	Number of indicators of this category for which the geographic unit is among the top 10 percent	#	Numeric
	Category 1 Top 20% Rank Flag	FLAG_80_PL_C1	Number of indicators of this category for which the geographic unit is among the top 20 percent	#	Numeric

* High-Risk 100-year floodplain may include both Effective and Advisory Floodplains

Category	Variable Name	Variable Code	Short Description	Units	Data Type
(2) BUILDING EXPOSURE (BE)	Building Floodplain Count	BLDG_SFHA	Building count in Special Flood Hazard Area including Effective, New Preliminary, and Draft floodplains (excluding the mapped-out structures)	#	Numeric
	Percent Rank on BLDG_SFHA	PR_BLDG_SFHA	In Excel: PERCENTRANK.INC on BLDG_SFHA	%	Numeric
	Building Floodway Count	BLDG_FLDWAY	Building count in Floodway (Preliminary or Draft)	#	Numeric
	Percent Rank on BLDG_FLDWAY	PR_BLDG_FLDWAY	In Excel: PERCENTRANK.INC on BLDG_FLDWAY	%	Numeric
	Building Floodplain Ratio	BLDG_SFHA_RT	Percentage of floodplain buildings (in High-Risk* (100-yr) Effective or Advisory Floodplains) to total buildings	%	Numeric
	Percent Rank on BLDG_SFHA_RT	PR_BLDG_SFHA_RT	In Excel: PERCENTRANK.INC on BLDG_SFHA_RT	%	Numeric
	Building Density	BLDG_DENS	Density of buildings in High-Risk* flood areas to total floodplain acres	#/Acre	Numeric
	Percent Rank on BLDG_DENS	PR_BLDG_DENS	In Excel: PERCENTRANK.INC on BLDG_DENS	%	Numeric
	Category 2 Indicators Sum	S_CATEGORY2	Sum of indicators scores in Category 2	N/A	Numeric
	Category 2 Index	PR_CATEGORY2	In Excel: PERCENTRANK.INC on S_CATEGORY2	%	Numeric
	Category 2 Top 10% Rank Flag	FLAG_90_PL_C2	Number of indicators of this category for which the geographic unit is among the top 10 percent	#	Numeric
	Category 2 Top 20% Rank Flag	FLAG_80_PL_C2	Number of indicators of this category for which the geographic unit is among the top 20 percent	#	Numeric

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Category	Variable Name	Variable Code	Short Description	Units	Data Type
(3) BUILDING CHARACTERISTICS (BC)	Building Median Value	BLDG_MED_VAL	Median of appraised values of all primary structures in the High-Risk* 100-year floodplain from the most recent tax assessment data or other building value data sources for tax-exempt structures	$	Numeric
	Percent Rank on BLDG_MED_VAL	PR_BLDG_MED_VAL	In Excel: PERCENTRANK.INC on BLDG_MED_VAL	%	Numeric
	Bldg. Mobile Homes Ratio	MOBILE_H_RT	Percentage of manufactured buildings (occupancy class code RES2) among all single-family structures (RES1 & RES2) in the High-Risk* 100-year floodplain	%	Numeric
	Percent Rank on MOBILE_H_RT	PR_MOBILE_H_RT	In Excel: PERCENTRANK.INC on MOBILE_H_RT	%	Numeric
	Bldg. Subgrade Basements Ratio	BASM_FP_RT	Percentage of structures with subgrade basements among all primary structures in the High-Risk* 100-year floodplain (may also include walkout basement enclosures)	%	Numeric
	Percent Rank on BASM_FP_RT	PR_BASM_FP_RT	In Excel: PERCENTRANK.INC on BASM_FP_RT	%	Numeric
	Building 1-Story Ratio	ONE_STORY_RT	Percentage of one-story structures among all primary buildings in the High-Risk* 100-year floodplain	%	Numeric
	Percent Rank on ONE_STORY_RT	PR_ONE_STORY_RT	In Excel: PERCENTRANK.INC on ONE_STORY_RT	%	Numeric
	Bldg. Year Pre-FIRM Ratio	PREFIRM_RT	Percentage of buildings constructed or substantially improved on or before December 31, 1974, or before the effective date of the initial Flood Insurance Rate Map of the community, whichever is late (also including Post-FIRM construction regulated to Pre-FIRM and Unknown FIRM status) among all primary structures in the High-Risk* 100-year floodplain	%	Numeric
	Percent Rank on PREFIRM_RT	PR_PREFIRM_RT	In Excel: PERCENTRANK.INC on PREFIRM_RT	%	Numeric
	Bldg. Year Minus Rated Post-FIRM Ratio	MIN_RTD_RT	Percentage of structures constructed after the FIRM date of which their first floor is more than one foot below the Base Flood Elevation (BFE) among all primary structures in the High-Risk* 100-year floodplain	%	Numeric
	Percent Rank on MIN_RTD_RT	PR_MIN_RTD_RT	In Excel: PERCENTRANK.INC on MIN_RTD_RT	%	Numeric
	Category 3 Indicators Sum	S_CATEGORY3	Sum of indicators scores in Category 3	N/A	Numeric
	Category 3 Index	PR_CATEGORY3	In Excel: PERCENTRANK.INC on S_CATEGORY3	%	Numeric
	Category 3 Top 10% Rank Flag	FLAG_90_PL_C3	Number of indicators of this category for which the geographic unit is among the top 10 percent	#	Numeric
	Category 3 Top 20% Rank Flag	FLAG_80_PL_C3	Number of indicators of this category for which the geographic unit is among the top 20 percent	#	Numeric

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Category	Variable Name	Variable Code	Short Description	Units	Data Type
(4) CRITICAL INFRASTRUCTURE (CI)	**Infrastructure: Essential Facilities**	EF_500Y_FP	Number of essential facilities (including schools, hospitals, nursing homes, police stations, fire department buildings, & E-911 emergency operations centers) which provide critical services to the community in the high (100-year), moderate (500-year), and reduced risk flood zones	#	Numeric
	Percent Rank on EF_500Y_FP	PR_EF_500Y_FP	In Excel: PERCENTRANK.INC on EF_500Y_FP	%	Numeric
	Infrastructure: Roads Inundated Ratio	ROAD_FP_RT	Percentage of roads inundated by flood waters of 1 foot or more by a high-risk 1% annual chance (100-year) flood event	%	Numeric
	Percent Rank on ROAD_FP_RT	PR_ROAD_FP_RT	In Excel: PERCENTRANK.INC on ROAD_FP_RT	%	Numeric
	Category 4 Indicators Sum	S_CATEGORY4	Sum of indicators scores in Category 4	N/A	Numeric
	Category 4 Index	PR_CATEGORY4	In Excel: PERCENTRANK.INC on S_CATEGORY4	%	Numeric
	Category 4 Top 10% Rank Flag	FLAG_90_PL_C4	Number of indicators of this category for which the geographic unit is among the top 10 percent	#	Numeric
	Category 4 Top 20% Rank Flag	FLAG_80_PL_C4	Number of indicators of this category for which the geographic unit is among the top 20 percent	#	Numeric

Category	Variable Name	Variable Code	Short Description	Units	Data Type
(5) COMMUNITY ASSETS (CA)	**Community Assets Historical**	HIST_CA	Number of historical community assets listed on the National Register of Historic Places (may include "non-primary" structures such as bridges, mills, historical barns, national road mile markers, etc.) or buildings within the Historic Districts constructed before 1930 in the High-Risk* 100-year floodplain	#	Numeric
	Percent Rank on HIST_CA	PR_HIST_CA	In Excel: PERCENTRANK.INC on HIST_CA	%	Numeric
	Community Assets Non-Historical	NONH_CA	Number of non-historical community assets including utilities, post-secondary educational facilities, EMS, government buildings providing public services, and religious buildings in the High-Risk* 100-year floodplain	#	Numeric
	Percent Rank on NONH_CA	PR_NONH_CA	In Excel: PERCENTRANK.INC on NONH_CA	%	Numeric
	Category 5 Indicators Sum	S_CATEGORY5	Sum of indicators scores in Category 5	N/A	Numeric
	Category 5 Index	PR_CATEGORY5	In Excel: PERCENTRANK.INC on S_CATEGORY5	%	Numeric
	Category 5 Top 10% Rank Flag	FLAG_90_PL_C5	Number of indicators of this category for which the geographic unit is among the top 10 percent	#	Numeric
	Category 5 Top 20% Rank Flag	FLAG_80_PL_C5	Number of indicators of this category for which the geographic unit is among the top 20 percent	#	Numeric

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Category	Variable Name	Variable Code	Short Description	Units	Data Type
(6) BUILDING DAMAGE LOSS (BD)	Bldg. Substantial Damage Count	SD_COUNT	Estimated number of primary structures substantially damaged from a 1% annual chance (100-year) flood for which the estimated flood loss is 50% or greater of the building appraised value	#	Numeric
	Percent Rank on SD_COUNT	PR_SD_COUNT	In Excel: PERCENTRANK.INC on SD_COUNT	%	Numeric
	Bldg. Substantial Damage Ratio	SD_RT	Percentage of substantially damaged structures to total floodplain structures	%	Numeric
	Percent Rank on SD_RT	PR_SD_RT	In Excel: PERCENTRANK.INC on SD_RT	%	Numeric
	Bldg. Previous Damage Claims	CLAIM_NUM	Number of previous flood-related insurance claims since 1978 (for the parts of split communities calculated based on the proportions of Building Floodplain Count)	#	Numeric
	Percent Rank on CLAIM_NUM	PR_CLAIM_NUM	In Excel: PERCENTRANK.INC on CLAIM_NUM	%	Numeric
	Bldg. Repetitive Loss Structures	REP_LOSS	Number of NFIP-insured structures that have had at least 2 paid flood losses of more than $1,000 each in any 10-year period since 1978 (for the parts of split communities calculated based on the proportions of Building Floodplain Count)	#	Numeric
	Percent Rank on REP_LOSS	PR_REP_LOSS	In Excel: PERCENTRANK.INC on REP_LOSS	%	Numeric
	Category 6 Indicators Sum	S_CATEGORY6	Sum of indicators scores in Category 6	N/A	Numeric
	Category 6 Index	PR_CATEGORY6	In Excel: PERCENTRANK.INC on S_CATEGORY6	%	Numeric
	Category 6 Top 10% Rank Flag	FLAG_90_PL_C6	Number of indicators of this category for which the geographic unit is among the top 10 percent	#	Numeric
	Category 6 Top 20% Rank Flag	FLAG_80_PL_C6	Number of indicators of this category for which the geographic unit is among the top 20 percent	#	Numeric

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Category	Variable Name	Variable Code	Short Description	Units	Data Type
(7) PEOPLE / SOCIAL VULNERABILITIES (PS)	**Population in Floodplain Ratio**	POP_FP_RT	Percentage of population residing in the High-Risk* Special Flood Hazard Area to total population	%	Numeric
	Percent Rank on POP_FP_RT	PR_POP_FP_RT	In Excel: PERCENTRANK.INC on POP_FP_RT	%	Numeric
	Population Displaced Ratio	POP_DIS_RT	Estimated percentage of population displaced by a major storm of a 1% annual chance (100-year) probability to total population	%	Numeric
	Percent Rank on POP_DIS_RT	PR_POP_DIS_RT	In Excel: PERCENTRANK.INC on POP_DIS_RT	%	Numeric
	WV Social Vulnerability Index	PR_WV_SVI	Social vulnerability index developed for West Virginia based on the eight following socioeconomic and demographic indicators (Poverty Rate, Unemployment Rate, No High School Diploma Ratio, Vulnerable Ages Ratio, Disability Ratio, Population Change Ratio, Median Housing Value, and Mobile Homes Ratio in Total Area); (Considered the same for both parts of the split communities)	%	Numeric
	Category 7 Indicators Sum	S_CATEGORY7	Sum of indicators scores in Category 7	N/A	Numeric
	Category 7 Index	PR_CATEGORY7	In Excel: PERCENTRANK.INC on S_CATEGORY7	%	Numeric
	Category 7 Top 10% Rank Flag	FLAG_90_PL_C7	Number of indicators of this category for which the geographic unit is among the top 10 percent	#	Numeric
	Category 7 Top 20% Rank Flag	FLAG_80_PL_C7	Number of indicators of all categories for which the geographic unit is among the top 20 percent	#	Numeric

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Category	Variable Name	Variable Code	Short Description	Units	Data Type
Risk Index (RI)	**Indicators Sum**	SUM_ALL	Sum of indicators scores in all categories	N/A	Numeric
	Cumulative Index	CUM_INDEX	Cumulative Index, in Excel: PERCENTRANK.INC on SUM_ALL	%	Numeric
	CUMULTAVIE Top 10% Rank Flag	FLAG_90_TOTAL	Number of indicators of all categories for which the geographic unit is among the top 10 percent	#	Numeric
	CUMULATIVE Top 20% Rank Flag	FLAG_80_TOTAL	Number of indicators of all categories for which the geographic unit is among the top 20 percent	#	Numeric

During the development of the index, adjustments were made to the applicable indicators at different scales. The total number of risk indicators for each scale is as follows. The following tables outline the applicable scales for each indicator and the corresponding data fields.

Community scale (including both Incorporated Places and Unincorporated Areas): **27** indicators

Incorporated Place scale: **25** indicators

Unincorporated Area scale: **25** indicators

County scale: **25** indicators

WVPDC Region scale: **24** indicators

Stream scale: **8** indicators

Watershed scale: **9** indicators

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
GENERAL INFORMATION	**Name**	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Unique ID	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	County	Yes	Yes	Yes	No	No	No	No	No
	Geographic Scale Level Type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	WV PDC Region	Yes	Yes	Yes	Yes	No	No	No	No
	Total Area (Acres)	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Total Stream Length (miles)	No	No	No	No	No	Yes	No	No
	Total Structures	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Total Population	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Population Density	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Number of Households	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Average Household Size	Yes	Yes	Yes	Yes	Yes	No	No	Yes

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
(1) FLOODPLAIN CHARACTERISTICS (FC)	**Floodplain Area**	Yes	No	Yes	Yes	Yes	No	No	Yes
	Percent Rank on AREA_SFHA	Yes	No	Yes	Yes	Yes	No	No	No
	Floodplain Area Ratio	Yes	Yes	No	No	No	No	No	Yes
	Percent Rank on AREA_SFHA_RT	Yes	Yes	No	No	No	No	No	No
	Floodplain Length	Yes	No	Yes	Yes	Yes	Yes	No	Yes
	Percent Rank on FP_LENGTH	Yes	No	Yes	Yes	Yes	Yes	No	No
	Floodplain Length Ratio	Yes	Yes	No	No	No	No	Yes	Yes
	Percent Rank on FP_LEN_RT	Yes	Yes	No	No	No	No	Yes	No
	Flood Declared Disasters	Yes	Yes	Yes	Yes	No	No	No	No
	Percent Rank on DCL_DSTR	Yes	Yes	Yes	Yes	No	No	No	No
	Flood Depth Median	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Percent Rank on MED_FL_DEPTH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 1 Indicators Sum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 1 Index	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 1 Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 1 Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
(2) BUILDING EXPOSURE (BE)	Building Floodplain Count	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Percent Rank on BLDG_SFHA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Building Floodway Count	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Percent Rank on BLDG_FLDWAY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Building Floodplain Ratio	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
	Percent Rank on BLDG_SFHA_RT	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	Building Density	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Percent Rank on BLDG_DENS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 2 Indicators Sum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 2 Index	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 2 Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 2 Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
(3) BUILDING CHARACTERISTICS (BC)	Building Median Value	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Percent Rank on BLDG_MED_VAL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Bldg. Mobile Homes Ratio	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on MOBILE_H_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	Bldg. Subgrade Basements Ratio	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on BASM_FP_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	Building 1-Story Ratio	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on ONE_STORY_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	Bldg. Year Pre-FIRM Ratio	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on PREFIRM_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	Bldg. Year Minus Rated Post-FIRM Ratio	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on MIN_RTD_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 3 Indicators Sum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 3 Index	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 3 Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 3 Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
(4) CRITICAL INFRASTRUCTURE (CI)	**Infrastructure: Essential Facilities**	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on EF_500Y_FP	Yes	Yes	Yes	Yes	Yes	No	No	No
	Infrastructure: Roads Inundated Ratio	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on ROAD_FP_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 4 Indicators Sum	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 4 Index	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 4 Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 4 Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	No	No	No

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
(5) COMMUNITY ASSETS (CA)	**Community Assets Historical**	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on HIST_CA	Yes	Yes	Yes	Yes	Yes	No	No	No
	Community Assets Non-Historical	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on NONH_CA	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 5 Indicators Sum	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 5 Index	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 5 Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 5 Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	No	No	No

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
(6) BUILDING DAMAGE LOSS (BD)	**Bldg. Substantial Damage Count**	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Percent Rank on SD_COUNT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Bldg. Substantial Damage Ratio	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Percent Rank on SD_RT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Bldg. Previous Damage Claims	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on CLAIM_NUM	Yes	Yes	Yes	Yes	Yes	No	No	No
	Bldg. Repetitive Loss Structures	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on REP_LOSS	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 6 Indicators Sum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 6 Index	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 6 Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Category 6 Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
(7) PEOPLE / SOCIAL VULNERABILITIES (PS)	**Population in Floodplain Ratio**	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on POP_FP_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	Population Displaced Ratio	Yes	Yes	Yes	Yes	Yes	No	No	Yes
	Percent Rank on POP_DIS_RT	Yes	Yes	Yes	Yes	Yes	No	No	No
	WV Social Vulnerability Index	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 7 Indicators Sum	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 7 Index	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 7 Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	No	No	No
	Category 7 Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	No	No	No

Category	Variable Name	Community	Incorporated	Unincorporated	County	Region	Stream	Watershed	State
Risk Index (RI)	**Indicators Sum**	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	Cumulative Index	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	CUMULTAVIE Top 10% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
	CUMULATIVE Top 20% Rank Flag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No