

**ESSENTIAL FACILITIES (Region 4)**

**Description:** **Essential facilities** provide critical services to the community and include police and fire stations, E-911 emergency operations centers, schools (often used as shelters), hospitals, and nursing homes. FEMA identifies these critical facilities as *essential* in its Hazus-MH risk assessment tool. If a [critical facility](https://www.fema.gov/glossary/critical-facility) must be in a floodplain then it should be provided a higher level of protection so that it can continue to function and provide services after the flood. Communities should develop emergency plans to continue to provide these services during the flood.

Under Executive Order 11988, Floodplain Management, Federal agencies funding and/or permitting critical facilities are required to avoid the 0.2 percent (500-year) floodplain or protect the facilities to the 0.2 percent chance flood level.

**Community Engagement and Verification:**Review the accuracy and completeness of all *active* **essential facilities**. Report any facilities that are missing. Verify the facilities and location using the [Table](https://data.wvgis.wvu.edu/pub/RA/Region4/BLRA/2_EssentialFacility/) and RiskMAP View of the [WV Flood Tool](https://www.mapwv.gov/flood/map/?wkid=102100&x=-8989591&y=4587771&l=3&v=2).

**Table EF-1.** Essential Facility Types and Qualification Criteria for Statewide Risk Assessment

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Essential Facility** | **Police Station**  | **Fire Station** | **Emergency Operations Center** | **K-12 School** | **Hospital** | **Nursing Home** |
| **Qualification** | Police Cars | Fire Trucks | E-911 Dispatch Office | Classrooms of students | Inpatients | Staffed continuously for 24-hour medical supervision |
| **FEMA Lifeline Component** | Law Enforcement and Security | Fire Service | 911 and Dispatch | Government Service, Shelter | Medical Care (Public Health) | Medical Care (Long-Term Facilities) |

**Community Lifelines:** FEMA recently developed the [community lifelines](https://www.fema.gov/emergency-managers/practitioners/lifelines) construct to increase effectiveness in disaster operations and better position the Agency to respond to catastrophic incidents. Community lifelines cover seven sectors: Safety and Security; Food, Water, Shelter; Health and Medical; Energy; Communications; Transportation; and Hazardous Material. Essential facilities are identified by six of the FEMA Lifeline Components (Table EF-1). Refer to other state risk assessment reports for additional information on housing, shelters, flood control (dams, levees), highways, railways, bridges, and other hazards (landslides).

**Other Related Risk Layers:** Primary Structures, Community Assets, Transportation, Dams, Levees

**Bringing Lifelines into Hazard Mitigation Planning:** [Slides](https://data.wvgis.wvu.edu/pub/RA/_resources/CF/Bringing_Lifelines_into_Hazard_Mitigation_Planning_Presentation.pdf) | [Audio](https://data.wvgis.wvu.edu/pub/RA/_resources/CF/Bringing_Lifelines_into_Hazard_Mitigation_Planning_Webinar.mp4) | [Fact Sheet](https://data.wvgis.wvu.edu/pub/RA/_resources/CF/LifelinesFactSheetandPosterv2_201911.pdf) | [BRIC](https://data.wvgis.wvu.edu/pub/RA/_resources/CF/FEMA_BRIC_Session-4_Community-Lifelines_20200722.pdf) | [FEMA Website](https://www.fema.gov/emergency-managers/practitioners/lifelines)

**Critical Facilities:** [Definition](https://www.fema.gov/glossary/critical-facility) | [Critical Facilities and Higher Standards](https://data.wvgis.wvu.edu/pub/RA/_resources/CF/FPM_1_Page_CriticalFacilities_and_Higher_Standards.pdf)

**Essential Facilities by Type:**  Fifty eight percent or 15 of the 26 flood-prone communities in **Region 4** have essential facilities vulnerable to flooding. The county with the most essential facilities is **Fayette County** (ranked 8th for all counties), while the incorporated town with the highest number of facilities is **Marlinton** (ranked 7th for all municipalities in State) in Pocahontas County. Hospitals and nursing homes with immobile patients or residents are particularly vulnerable to a flood disaster. Small towns situated mostly in the floodplain are more challenged than unincorporated areas or larger cities to identify suitable sites that provide a high level of protection from flooding.

**Table EF-2.** Essential Facilities by Type. What is at risk?

|  |  |
| --- | --- |
| COMMUNITY IDENTIFICATION | ESSENTIAL FACILITIES |
|
| **CID** | **Community Name** | **County** | **Police Station** | **Fire Station** | **911 Center** | **School** | **Hospital** | **Nursing Home** | **TOTAL** |
| 540027 | Ansted | FAYETTE | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540026 | Fayette County\* | FAYETTE | 0 | 3 | 0 | 2 | 0 | 0 | 5 |
| 540294 | Gauley Bridge | FAYETTE | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 540028 | Meadow Bridge | FAYETTE | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540029 | Montgomery\*\* | FAYETTE | 1 | 0 | 0 | 0 | 1 | 1 | 3 |
| 540280 | Mount Hope | FAYETTE | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540031 | Oak Hill | FAYETTE | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540032 | Pax | FAYETTE | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 540033 | Smithers\*\* | FAYETTE | 2 | 1 | 0 | 2 | 0 | 0 | 5 |
| *SUM* | **Ranked 8th in State** | **FAYETTE** | **4** | **6** | **0** | **4** | **1** | **1** | **16** |
| 540041 | Alderson\*\* | GREENBRIER | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 540243 | Falling Springs | GREENBRIER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540040 | Greenbrier County\* | GREENBRIER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540228 | Rainelle | GREENBRIER | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 540043 | Ronceverte | GREENBRIER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540044 | Rupert | GREENBRIER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540045 | White Sulphur Springs | GREENBRIER | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| *SUM* |  | **GREENBRIER** | **1** | **1** | **0** | **2** | **0** | **0** | **4** |
| 540146 | Nicholas County\* | NICHOLAS | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 540147 | Richwood | NICHOLAS | 2 | 1 | 0 | 0 | 0 | 0 | 3 |
| 540148 | Summersville | NICHOLAS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *SUM* |  | **NICHOLAS** | **2** | **2** | **0** | **0** | **0** | **0** | **4** |
| 540158 | Durbin | POCAHONTAS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 540159 | Marlinton (Ranked 7th for all municipalities in State) | POCAHONTAS | 2 | 1 | 0 | 1 | 0 | 1 | 5 |
| 540283 | Pocahontas County\* | POCAHONTAS | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *SUM* |  | **POCAHONTAS** | **2** | **1** | **0** | **1** | **0** | **1** | **5** |
| 540204 | Addison | WEBSTER | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| 540205 | Camden-On-Gauley | WEBSTER | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 540206 | Cowen | WEBSTER | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 540203 | Webster County\* | WEBSTER | 0 | 2 | 0 | 1 | 0 | 0 | 3 |
| *SUM* |  | **WEBSTER** | **1** | **3** | **1** | **3** | **0** | **0** | **8** |
| **TOTAL** |   |   | **10** | **13** | **1** | **10** | **1** | **2** | **37** |
| \* Unincorporated Community \*\* Split Community |

**Essential Facilities by Flood Zone:**  There are 25 facilities in the high risk *effective* and *advisory* 1%-annual-chance (100-yr) flood level and 12 facilities in the moderate risk 0.2%-annual-chance (500-yr) flood level. No essential facilities exist in the Regulatory Floodway.

**Table EF-3.** Essential Facilities by Flood Zone.

|  |  |
| --- | --- |
| COMMUNITY IDENTIFICATION | FLOOD ZONE BREAKDOWN |
| 1%-Annual-Chance(100-yr) Floodplain | 0.2%(500-yr) Floodplain | High & Moderate Risk |
| **CID** | **Community Name** | **County** | **Floodway** | **Effective** | Advisory | Effective | **TOTAL** |
| 540027 | Ansted | FAYETTE | 0 | 0 | 0 | 0 | 0 |
| 540026 | Fayette County\* | FAYETTE | 0 | 4 | 0 | 1 | 5 |
| 540294 | Gauley Bridge | FAYETTE | 0 | 0 | 0 | 2 | 2 |
| 540028 | Meadow Bridge | FAYETTE | 0 | 0 | 0 | 0 | 0 |
| 540029 | Montgomery\*\* | FAYETTE | 0 | 0 | 0 | 3 | 3 |
| 540280 | Mount Hope | FAYETTE | 0 | 0 | 0 | 0 | 0 |
| 540031 | Oak Hill | FAYETTE | 0 | 0 | 0 | 0 | 0 |
| 540032 | Pax | FAYETTE | 0 | 1 | 0 | 0 | 1 |
| 540033 | Smithers\*\* | FAYETTE | 0 | 0 | 0 | 5 | 5 |
| *SUM* |  | **FAYETTE** | **0** | **5** | **0** | **11** | **16** |
| 540041 | Alderson\*\* | GREENBRIER | 0 | 1 | 0 | 0 | 1 |
| 540243 | Falling Springs | GREENBRIER | 0 | 0 | 0 | 0 | 0 |
| 540040 | Greenbrier County\* | GREENBRIER | 0 | 0 | 0 | 0 | 0 |
| 540228 | Rainelle | GREENBRIER | 0 | 0 | 1 | 0 | 1 |
| 540043 | Ronceverte | GREENBRIER | 0 | 0 | 0 | 0 | 0 |
| 540044 | Rupert | GREENBRIER | 0 | 0 | 0 | 0 | 0 |
| 540045 | White Sulphur Springs | GREENBRIER | 0 | 1 | 0 | 1 | 2 |
| *SUM* |  | **GREENBRIER** | **0** | **2** | **1** | **1** | **4** |
| 540146 | Nicholas County\* | NICHOLAS | 0 | 1 | 0 | 0 | 1 |
| 540147 | Richwood | NICHOLAS | 0 | 3 | 0 | 0 | 3 |
| 540148 | Summersville | NICHOLAS | 0 | 0 | 0 | 0 | 0 |
| *SUM* |  | **NICHOLAS** | **0** | **4** | **0** | **0** | **4** |
| 540158 | Durbin | POCAHONTAS | 0 | 0 | 0 | 0 | 0 |
| 540159 | Marlinton | POCAHONTAS | 0 | 5 | 0 | 0 | 5 |
| 540283 | Pocahontas County\* | POCAHONTAS | 0 | 0 | 0 | 0 | 0 |
| *SUM* |  | **POCAHONTAS** | **0** | **5** | **0** | **0** | **5** |
| 540204 | Addison | WEBSTER | 0 | 3 | 0 | 0 | 3 |
| 540205 | Camden-On-Gauley | WEBSTER | 0 | 1 | 0 | 0 | 1 |
| 540206 | Cowen | WEBSTER | 0 | 1 | 0 | 0 | 1 |
| 540203 | Webster County\* | WEBSTER | 0 | 3 | 0 | 0 | 3 |
| *SUM* |  | **WEBSTER** | **0** | **8** | **0** | **0** | **8** |
| **TOTAL** |  |  | **0** | **24** | **1** | **12** | **37** |

\* Unincorporated Community

\*\* Split Community

**Essential Facilities by Flood Depth:**  Facilities most vulnerable to a high-risk 1%-annual-chance (100-yr) flood event are displayed below. The flood depth grid and building damage estimates identify which facilities may be subject to the greatest flood damage. Refer to the building-level [Table](https://data.wvgis.wvu.edu/pub/RA/Region4/BLRA/2_EssentialFacility/) and RiskMAP View of the [WV Flood Tool](https://www.mapwv.gov/flood/map/?wkid=102100&x=-8989591&y=4587771&l=3&v=2) to review base flood depths and damage estimates of facilities.

**Table EF-4.** Essential Facilities by 1% Flood Depth. What is the degree of risk?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Community Name | County | Facility Name | **Facility Type** | Flood Tool Link | **Flood Depth** | Building Damage Percent |
| Camden-On-Gauley | WEBSTER | Camden on Gauley Police Department | **Police Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8972088.200079696&y=4631260.0314259585&l=13&v=2) | 6.3 | 15.6 |
| Alderson\*\* | GREENBRIER | Alderson Elementary School | **School** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8976391.967663689&y=4540923.430134374&l=13&v=2) | 3.5 | 8.0 |
| Marlinton | POCAHONTAS | Marlinton Police Department | **Police Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915994.580733798&y=4611106.7240506355&l=13&v=2) | 2.2 | 7.6 |
| Marlinton | POCAHONTAS | Marlinton Volunteer Fire Department | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915984.49129175&y=4611117.058110217&l=13&v=2) | 2.2 | 7.7 |
| Fayette County\* | FAYETTE | Loup Creek Volunteer Fire Department - Robson | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-9044814.967568723&y=4593034.702818444&l=13&v=2) | 1.1 | 0.9 |
| Webster County\* | WEBSTER | Erbacon Volunteer Fire Department | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8970843.600193925&y=4652964.77048574&l=13&v=2) | 1.0 | 0.0 |
| Marlinton | POCAHONTAS | Pocahontas County 911 Center | **Police Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915387.042367648&y=4610251.459347257&l=13&v=2) | 1.0 | 0.0 |
| Marlinton | POCAHONTAS | Marlinton Elementary School | **School** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915971.660941198&y=4610648.715795866&l=13&v=2) | 0.8 | 0.0 |
| Fayette County\* | FAYETTE | Armstrong Creek Volunteer Fire Department | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-9052737.672799073&y=4594313.664976795&l=13&v=2) | 0.8 | 0.0 |
| Fayette County\* | FAYETTE | Covenant Promise Christian Academy | **School** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-9044761.825647565&y=4592910.168491629&l=13&v=2) | 0.5 | 0.0 |
| Webster County\* | WEBSTER | Hacker Valley Elementary School | **School** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8948879.42308506&y=4671830.113228488&l=13&v=2) | 0.4 | 0.0 |
| White Sulphur Springs | GREENBRIER | White Sulphur Springs Police Department | **Police Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8939162.198793862&y=4550267.905994714&l=13&v=2) | 0.2 | 0.0 |
| Webster County\* | WEBSTER | Hacker Valley Volunteer Fire Department | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8948840.764942853&y=4671789.779378175&l=13&v=2) | 0.1 | 0.0 |
| Addison | WEBSTER | Webster County Office of Emergency Services/ E-911 | **911 Center** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8951383.543898508&y=4647419.161204568&l=13&v=2) | 0.1 | 0.0 |
| Richwood | NICHOLAS | Richwood Police Department | **Police Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8964544.016517637&y=4611276.217171065&l=13&v=2) | 0.1 | 0.0 |
| Rainelle | GREENBRIER | Rainelle Volunteer Fire Department | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8990757.186789008&y=4574982.459217769&l=13&v=2) | 0.1 | 0.0 |
| Pax | FAYETTE | Pax Volunteer Fire Department | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-9046240.183550943&y=4566451.6955698235&l=13&v=2) | 0.1 | 0.0 |

\* Unincorporated Community

\*\* Split Community

**WV Flood Tool Risk MAP:** The **WV Flood Tool Risk Map View** should be used to view and verify mapped essential facilities and other risk layers. For example, the essential facilities of Marlinton are vulnerable to both riverine and dam failure flood hazards. Marlin Run No.1 Dam is designated a High Hazard Potential dam, a classification standard for any dam whose failure or mis-operation will cause loss of human life and significant property destruction.

**Figure EF-5.** Essential Facilities for town of Marlinton displayed on [Risk MAP View](https://www.mapwv.gov/flood/map/?wkid=102100&x=-8915613&y=4610416&l=8&v=2) of the WV Flood Tool.

Dam Hazard

WV Flood Tool Map Link: <https://www.mapwv.gov/flood/map/?wkid=102100&x=-8915613&y=4610416&l=8&v=2>

**Verification with Building-Level Tabular Report:** Essential facilities can also be viewed and verified for each community by linking to the risk assessment **tabular report** (Excel spreadsheet). To verify the geographic location of each facility, the Excel table provides map view links. Essential facility data fields include Community Identifiers, Building ID, Address, Facility Type, Occupancy Code, Building Value, Building Value Source, Floodplain, Floodway, and Flood Tool Link.

**Table EF-6.** Essential Facilities for town of Marlinton displayed in [Tabular Report](https://data.wvgis.wvu.edu/pub/RA/Region4/BLRA/2_EssentialFacility/) with map links.

|  |  |  |  |
| --- | --- | --- | --- |
| Facility Name | Full Address | **Facility Type** | Flood Tool Link |
| Marlinton Police Department | 709A 2nd Avenue, Marlinton, Pocahontas, WV, 24954 | **Police Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915994.580733798&y=4611106.7240506355&l=13&v=2) |
| Marlinton Volunteer Fire Department | 709B 2nd Avenue, Marlinton, Pocahontas, WV, 24954 | **Fire Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915984.49129175&y=4611117.058110217&l=13&v=2) |
| Pocahontas County 911 Center | 900 10th Avenue, Marlinton, Pocahontas, WV, 24954 | **Police Station** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915387.042367648&y=4610251.459347257&l=13&v=2) |
| Marlinton Elementary School | 926 5th Avenue, Marlinton, Pocahontas, WV, 24954 | **School** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915971.660941198&y=4610648.715795866&l=13&v=2) |
| Pocahontas Center | 5 Everett Tibbs Road, Marlinton, Pocahontas, WV, 24954 | **Nursing Home** | [FT](https://mapwv.gov/flood/map/?wkid=102100&x=-8915856.820748873&y=4610368.167510327&l=13&v=2) |

Region 4 Tabular Report Link: <https://data.wvgis.wvu.edu/pub/RA/Region4/BLRA/2_EssentialFacility/>

**Verification with Community-Level Report:** A summary report for all communities and regions can be accessed at <https://data.wvgis.wvu.edu/pub/RA/State/CL/Essential_Facility/>. See Tables EF-2 and EF-3 for sample outputs.

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