Mitigation Planning Portal GIS Mapping Service Quick Start Guide

Hazard Mitigation Planning

Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters. It is most effective when implemented under a comprehensive, long-term mitigation plan. State, tribal, and local governments engage in hazard mitigation planning to identify risks and vulnerabilities associated with natural disasters, and develop long-term strategies for protecting people and property from future hazard events. Mitigation plans are key to breaking the cycle of disaster damage, reconstruction, and repeated damage.

Mitigation Planning Portal

The Mitigation Planning Portal (MPP) is an online portal for tracking and reporting the status of mitigation plans across all 10 Federal Emergency Management Agency (FEMA) Regions. The public can view the current status of mitigation plans tracked in the MPP through a Geospatial Information System (GIS) mapping service. This guide details how to access this GIS mapping service.

Accessing the MPP GIS Mapping Service

Utilizing ESRI ArcGIS

The ESRI ArcGIS Representative State Transfer (REST) service provides direct access to MPP spatial information through mapping, data, and query requests. The public can access this GIS mapping service through ESRI applications such as ArcGIS Online or ArcGIS Desktop.

ArcGIS Online

To access the GIS mapping service directly through ArcGIS Online, follow these steps:

1. Copy & Paste the following URL into your web browser: arcgis.com
2. Select **Map**
3. Click **Modify Map**
4. Click **Add** and select **Add Layer from Web** option in the drop down list
5. Enter the GIS mapping service URL: https://hazards.fema.gov/gis/nfhl/rest/services/MPP/MPP_GIS/MapServer and click **Add Layer**
6. Expand **MPP GIS** to see available layers. Turn on and off any layer to customize the view

ArcGIS Desktop

To access the GIS mapping service through ArcGIS Desktop, you can use the services directory URL: http://hazards.fema.gov/gis/nfhl/rest/services and select the **MPP Folder** and **MPP_GIS Service**.

Utilizing the Open Geospatial Consortium Web Mapping Service

The Open Geospatial Consortium (OGC) Web Mapping Service (WMS) provides a simple HTTP interface for requesting geo-registered map images from one or more distributed geospatial databases. The MPP GIS mapping service provides an OGC-compliant protocol for obtaining map images and querying feature information. The public can access this GIS mapping service through a number of free and commercial GIS software packages.

Use the following URL in your GIS Application: http://hazards.fema.gov/gis/nfhl/rest/services/MPP/MPP_GIS/MapServer/WMSServer

The WMS Capabilities file is available here: https://hazards.fema.gov/gis/nfhl/rest/services/MPP/MPP_GIS/MapServer/WMSServer?request=GetCapabilities&service=WMS

Available Spatial and Tabular Data

Accessing the mapping service through one of the GIS applications above, the public can view the following MPP data:

Spatial Layers

Layer Title	Description
Tribe In Development	Displays the tribes with plans in Awaiting Revisions, In Review, or In Progress status
Tribe Summary	Displays the tribes with plans in an Approved, Approvable Pending Adoption (APA), or Expired status. Tribes listed as having "No Approved Plan" may have a plan with one of the In Development statuses
Jurisdiction In Development	Displays the (local government) jurisdictions with plans in an Awaiting Revisions, In Review, or In Progress status
Jurisdiction In Development (alt. hashed)	This layer is identical to the normal Jurisdiction In Development layer, except it uses a hash style
Jurisdiction Summary	Displays the jurisdictions with plans in an Approved, APA, or Expired status. Jurisdictions listed as having No Approved Plan may have a plan with one of the In Development statuses
Jurisdiction Status (alternate)	This layer combines the Jurisdiction Summary and Jurisdiction In Development layers
Tribe Plan Expiration (enhanced)	Displays the expiration date range for approved enhanced tribal plans
Tribe Plan Expiration (standard)	Displays the expiration date range for approved standard tribal plans
Jurisdiction Plan Expiration	Displays the expiration date range for approved jurisdictional plans
State Plan Expiration (enhanced)	Displays the expiration date range for approved enhanced state plans
State Plan Expiration (standard)	Displays the expiration date range for approved standard state plans
Reference Layers	This set of 10 reference layers provide geographic boundaries for FEMA Regions, states, counties, jurisdictions, and water bodies

Tabular Data

MPP Plan	Access tabular data on plans
MPP Jurisdictions	Access tabular data on jurisdictions
Jurisdiction County Relationship	Access the relationships between jurisdictions and counties

Layer Hierarchy

Jurisdictions, states, and tribes may be associated with multiple plan statuses or expiration dates. For example, a tribe might have an approved plan nearing expiration and another plan already in development. In order to give a single value to a geography, the service uses a hierarchy to determine which status or expiration date to display:

Jurisdiction/Tribe Summary	If a jurisdiction or tribe is associated with more than one plan, MPP will display the jurisdiction status in the Jurisdiction Status layer based on the following hierarchy:
	    Approved
	    Approvable Pending Adoption
	    Expired
	    No Approved Plan

Jurisdiction/Tribe In Development	If a jurisdiction or tribe is associated with more than one plan, MPP will display the jurisdiction status in the In Development layer based on the following hierarchy:
	    Awaiting Revisions
	    In Review
	    In Progress

Jurisdiction/Tribal/ State Plans Approaching Expiration	If a jurisdiction, tribe, or state is associated with more than one approved plan, the furthest expiration date from the current date will be displayed

Status Definitions

In Development Layer
    Awaiting Revisions: FEMA sent the plan back to the jurisdiction, tribe, or state for revisions
    In Review: FEMA is reviewing the plan submitted by the jurisdiction, tribe, or state
    In Progress: Jurisdiction, tribe, or state is working on the plan, but it has not been submitted to FEMA

Summary Layer
    Approved: The plan has been adopted and FEMA has received final documentation
    Approvable Pending Adoption: The jurisdiction, tribe, or state has met all the plan requirements, except for adoption
    Expired: The plan has reached or passed its expiration date
    No Approved Plan: There is no approved plan for the jurisdiction, tribe, or state (though a plan may be in development)

"FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards."