It’s a big State…

Area: 147,000 SM
Stream Miles: 73,000
Montana Mapped Floodplain: 11,100 Mi.
  • Approximate: 9,300 Mi (84%)
  • Detailed: 1,800 Mi (16%)

Counties: 56
  • Modernized/DFIRM: 20 Counties
  • Paper/Hard Copy: 26 Counties
  • Non-Participating: 10 Counties
FEMA National Mapping Initiatives

2003 – 2008: Goal of digitizing FIRMs and updating FIS products

- Metrics - Achieved for 92% population and 62% land area (Nationwide)

2009 – Current: Risk Mapping Assessment and Planning (Risk MAP)

- New Metrics for Mitigation, NVUE...

Added Mitigation focus and Non-Regulatory products:

- Changes Since Last FIRM (CSLF)
- Depth Grids
- Flood Risk Report & Database
Modernization Snapshot

Montana Status of Floodplain Mapping Inventory

Current Risk Map/PMR Study Projects
1. Flathead Co. - 7 Detailed Studies (2015)
2. Swan River (Missoula Co.) (2017)
3. Clearwater River (Missoula Co.) (2017)
4. W. Gallatin River (Gallatin Co.) (2017)
5. Bozeman Creek and Tributaries (Gallatin Co.) (2017)
6. Musselshell River at Roundup (Musselshell Co.) (2017)
7. Carbon County (2016)
8. Richland County (2016)

Modernized "DFIRM" Communities

Completed ("Year" Effective)
- Countywide
- Reservations
- Partial Countywide (Lincoln Co./Libby)
- City/Town ONLY

In Progress (Scheduled "Year" Effective)
- 2 Countywide
- 8 New Enhanced RiskMap or PMR Study Projects (see list at left)

Non-Modernized "Paper/Hard Copy" Communities

NFIP Participating Community
- 25 Counties
- 37 Municipalities

Digitized Mapping Available (Non-Regulatory)

Non-Participating or Suspended Community
- 10 Counties
- 8 Municipalities
TOOL BOX: FEMA’s NFHL – GeoPlatform Map Viewer (National Flood Hazard Layer)

Map Viewer for Modernized Communities ONLY
Modernization Snapshot

Modernized Communities: (in Green)

- Fort Peck Reservation
- Fort Belknap Reservation
- Richland County (In-Progress, 2018 Completion)
- Blaine County
- Fergus County
- Custer County
- Nashua, Brockton, Culbertson
<table>
<thead>
<tr>
<th>Community Name</th>
<th>Effective FIS/FIRM Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blaine County &amp; Fort Belknap Reservation</td>
<td>9/20/2006</td>
</tr>
<tr>
<td>(includes Cities of Chinook &amp; Harlem)</td>
<td></td>
</tr>
<tr>
<td>(includes Town of Fairview &amp; City of Sidney)</td>
<td></td>
</tr>
<tr>
<td>Custer County</td>
<td>7/22/2010</td>
</tr>
<tr>
<td>(includes City of Miles City)</td>
<td></td>
</tr>
<tr>
<td>Fergus County</td>
<td>7/22/2010</td>
</tr>
<tr>
<td>(includes Towns of Denton, Grass Range, Moore, and Cities of Winifred and Lewistown)</td>
<td></td>
</tr>
<tr>
<td>Town of Nashua (Valley County)</td>
<td>6/4/2007</td>
</tr>
<tr>
<td>City of Brockton (Roosevelt County)</td>
<td>6/4/2007</td>
</tr>
<tr>
<td>City of Culbertson (Roosevelt County)</td>
<td>6/4/2007</td>
</tr>
<tr>
<td>Community Name</td>
<td>Effective FIS/FIRM Dates</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Philips County</td>
<td>5/19/1987</td>
</tr>
<tr>
<td>Town of Dodson</td>
<td>6/17/1986</td>
</tr>
<tr>
<td>City of Malta</td>
<td>5/19/1987</td>
</tr>
<tr>
<td>Valley County</td>
<td>2/21/1978 FHBM (Converted 1/1/1987)</td>
</tr>
<tr>
<td>City of Glasgow</td>
<td>1/9/1974 FHBM (Converted to NSFHA)</td>
</tr>
<tr>
<td>Roosevelt County</td>
<td>12/4/1979 (Converted 11/1/1996)</td>
</tr>
<tr>
<td>Dawson County</td>
<td>4/11/1978 (Converted 5/1/1999)</td>
</tr>
<tr>
<td>City of Glendive</td>
<td>7/2/1980</td>
</tr>
</tbody>
</table>
**Natl. Flood Hazard Layer (NFHL)**

Google “FEMA NFHL”

**ONLY Includes Modernized FEMA Communities**
FEMA’s NFHL – GeoPlatform Map Viewer

Features:
- Address Search
- Base Map Choices
- Panel Index
- LOMCs
- Direct Download

View Seamless Mapping!
All Products are FREE:
- FIRM/DFIRM Maps
- GIS Shapefiles
- FIS Reports
- LOMCs

For Non-Modernized Communities
Go to MSC to find FEMA Map Products

**FIRMette - Desktop Flood Map Image Tool**
Version 3.2.2, Feb 2012

For Latest Update and New Visit:
The FEMA Map Service Center
http://msc.fema.gov

For Assistance with FIRMette - Desktop call the FEMA MSC:
1-800-358-9616
What’s on the Horizon for FFY 2015?

FFY2015 CTP Grant Awards for MT Mapping Program:

- Program Management: $197,137; 2.5 FTEs.
- Community Engagement & Risk Communication (CERC): $31,167
- Project – Swan River Detailed Study in Missoula County: $127,535
- Project – Musselshell River Studies: $743,335

Total Awards: $1.1 M
What’s on the Horizon for FFY 2015?

Selshell River – 226 miles of new Mapping (FEMA Funded)
What’s on the Horizon for FFY 2015?

Collecting Lidar at Harlowton
Elevation(Lidar) Data Resource:
http://www.csc.noaa.gov/inventory/#
Yellowstone River Corridor Study Completed

Opportunity to update & improve Floodplain Mapping
Levee Mapping Issues

Accredited (Certified) Levee System

- **Criteria:** Entire Levee System or Flood Control Structure meets (or exceeds) 44 CFR 65.10 Criteria
- **Mapping Approach:** Mapping as Fully Accredited; Natural Valley Floodplain Analysis to Map Shaded Zone X and Levee Protection Note

USACE Programs:
- Do not necessarily satisfy FEMA certification

Analysis and Mapping Procedures for Non-Accredited Levee Systems

New Approach
July 2013
### Prioritizing Expired PALs:

- Number of Impacted Structures
- Documentation of Levee System
- Recent flood events and system performance
- Expiration date of PAL

### PAL (Provisionally Accredited Levee)

<table>
<thead>
<tr>
<th>Levee Owner</th>
<th>Flooding Source</th>
<th>24 month 65.10 compliance submittal due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boulder County</td>
<td>Boulder Creek</td>
<td>9/23/2011</td>
</tr>
<tr>
<td>Boulder County</td>
<td>Boulder Creek</td>
<td>9/24/2011</td>
</tr>
<tr>
<td>Boulder County</td>
<td>Bear Canyon Creek</td>
<td>9/25/2011</td>
</tr>
<tr>
<td>West Great Falls Flood Control &amp; Drainage District</td>
<td>Sun River</td>
<td>5/13/2013</td>
</tr>
<tr>
<td>Vaughn Levee District</td>
<td>Sun River</td>
<td>5/14/2013</td>
</tr>
<tr>
<td>City of Mapleton</td>
<td>Maple River</td>
<td>12/1/2012</td>
</tr>
<tr>
<td>City of Mapleton</td>
<td>Maple River</td>
<td>12/1/2012</td>
</tr>
<tr>
<td>City of Fargo</td>
<td>Red River of the North</td>
<td>5/15/2013</td>
</tr>
<tr>
<td>City of Velva</td>
<td>Mouse River</td>
<td>9/15/2011</td>
</tr>
<tr>
<td>City of Pembina</td>
<td>Pembina River/Red River</td>
<td>6/24/2011</td>
</tr>
<tr>
<td>Town of Greybull</td>
<td>Big Horn River</td>
<td>4/5/2013</td>
</tr>
</tbody>
</table>

---

**Map:**
- Areas with expired PALs
- Legend: Structures Type, Type, etc.
- Count of structures: 1744 Total, 108 Mobile Homes, 885 Residential, etc.