New Mexico Community Flooding Database Survey User Guide
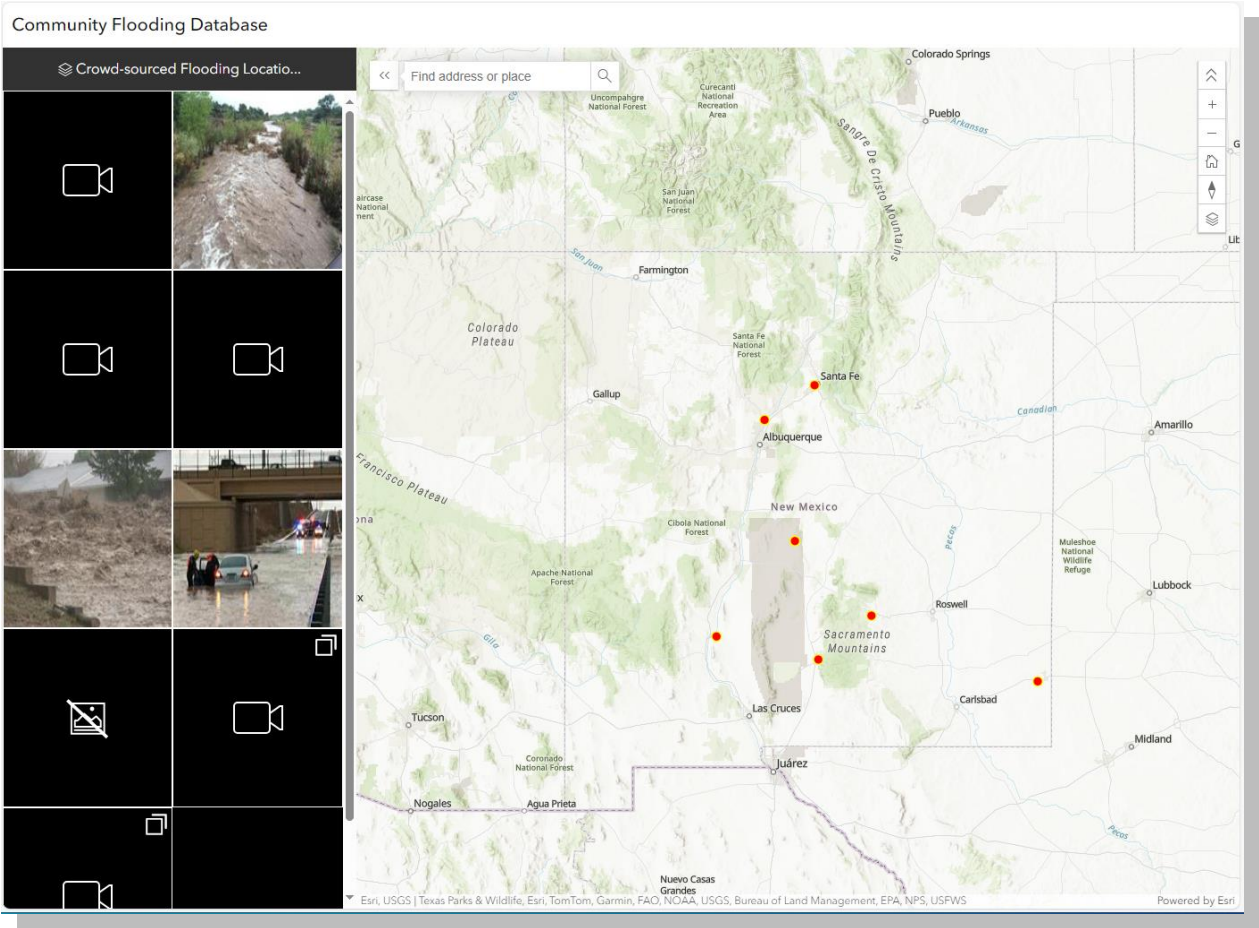

EDAC | EARTH DATA ANALYSIS CENTER

Table of Contents

Table of Figures

Introduction

The New Mexico Community Flooding Database is a FEMA Region 6 Special Project. It is designed to create a centralized location for photographs and videos of flooding in New Mexico. Photographs and videos are typically curated by local floodplain administrators and officials with no method of public access or distribution. Access to photographs and videos of New Mexico flooding will assist in communicating flood risk to the public as well as assist with validation of hydraulic models (particularly in areas with no stream gages). The goal for designing this web-mapping application and database was to allow easy upload and download of photographs and videos. If you need assistance please email nmflood@edac.unm.edu

Compatibility

- The current version of the New Mexico Community Flooding Database Survey is powered by ArcGIS, and ArcGIS Survey 123. The browser app is compatible with the following browsers
  - Google Chrome
  - Microsoft Edge
  - Mozilla Firefox
  - Safari
- The field app is compatible with
  - Windows
  - Android
  - iOS

Overview

The Community Flooding Database is a crowd sourced database that serves as a tool document flooding events in New Mexico. The publicly available New Mexico Community Flooding Database Survey is a tool that allows users to upload and share firsthand photos and/or videos of flood events. The survey results are displayed on the New Mexico Community Flooding Database Map. The map is interactive and displays all the user provided flooding events as individual points. Users can explore the interactive map and view photo/ video uploads to observe areas where flooding may be more common or severe throughout the state.

The data in the tool do not encompass all flood-related factors but serves as a starting point for users to identify areas for further investigation, not a comprehensive assessment of flood risk.

Data Collection Form

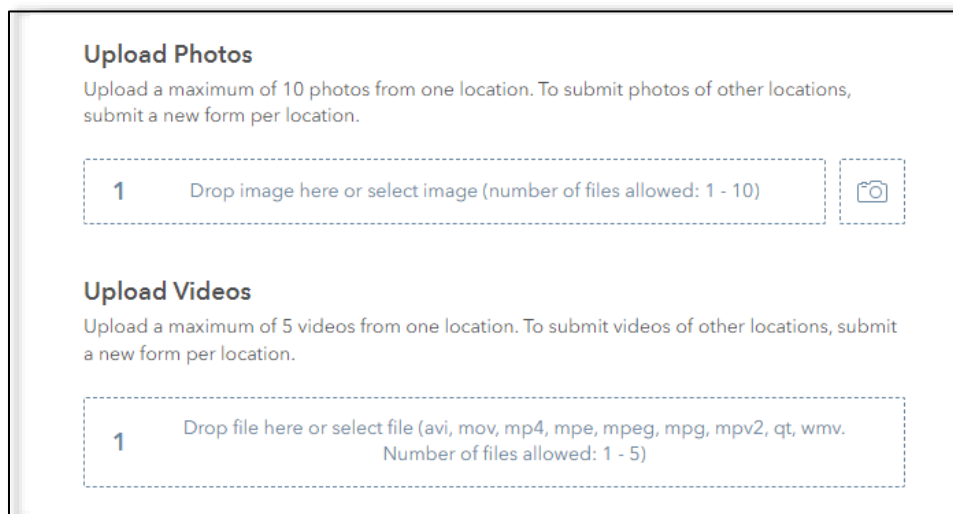The survey has 3 main categories for flood identification.

Visual (image and video) – users upload up to 10 photos and/or 5 videos of a flood event and provide a short title.

Location – users provide a place or city name where the flood event occurred and place a marker on the interactive map.

Description – users provide additional descriptions to share more details about the flood event and the time in which it occurred. The remaining portion of the survey is comprised of questions regarding flood depth, which is an estimated, damage level, and flood history, which is about whether the location has been flooded in the past.

1. Upload media

Upload a media file by dragging and dropping it or clicking the rectangular boxes to browse and upload.

Upload Photos

Upload a maximum of 10 photos from one location. To submit photos of other locations, submit a new form per location.

| 1 | Drop image here or select image (number of files allowed: 1 - 10) | 📷 |

Upload Videos

Upload a maximum of 5 videos from one location. To submit videos of other locations, submit a new form per location.

| 1 | Drop file here or select file (avi, mov, mp4, mpe, mpeg, mpg, mpv2, qt, wmv. Number of files allowed: 1 - 5) |

Figure 1 Media Uploader.

2. Describe media

Enter a short title to describe your media and provide the place or city name where the flood event took place.

Figure 2 Title and Location Text Boxes.

3. Mark the location of where the media was recorded.

Press *"Ctrl"* and use the mouse wheel or click the plus and minus symbols to zoom in and out of the map.

To place a marker in the flooding location, click that location on the map.
Use the search bar to find an exact location on the map or click the "Find my location" button to allow the map to find your current location.
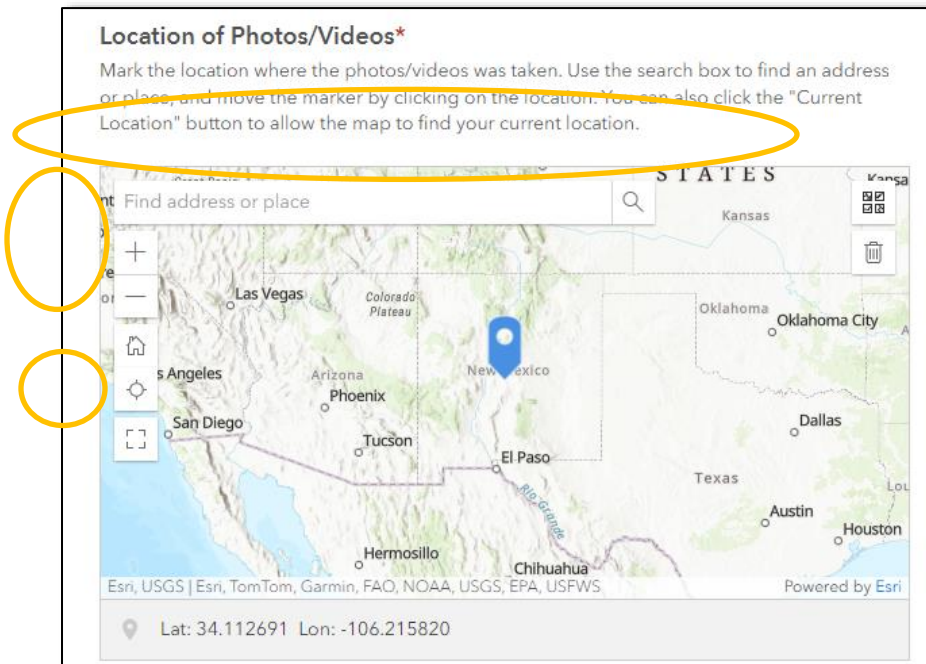

Figure 3 Survey Map with Location Marker.

4. Brief description of the photos/videos.

Write up 5000 characters about what is happening in the photos and videos. This step is optional.

Figure 4 Description Text Box.

5. Flood depth

Select the estimated depth of the flood shown on the photos/videos. This does not have to be measured or calculated, it can be based on your own judgement.

Figure 5 Flood Depth Selection Bar.

6. Answer the yes-no questions about the flood.
- Indicate whether the photos or videos show a flash flood.
- Indicate whether the photos or videos show any flood damage (e.g. debris on the road).
- Indicate whether the location of the photos and videos has been flooded in the past.
- Indicate whether the location has had damage from previous flooding events (optional).

You may answer "I don't know" to any of the 3 questions.

Figure 6 Yes-No Question Selection Buttons.

7. Accept the terms and conditions and submit form

Statement of Acknowledgement*

Read the Terms & Conditions of participating in this survey below.

○ I acknowledge that I have read the Terms & Conditions of participating in this survey.

Terms & Conditions

License to use your uploaded content

We do not claim ownership of your content that you provide through this form and you are free to share your content with anyone else, wherever you want. However, we need certain legal permissions from you (known as a "license"). When you upload content that is covered by intellectual property rights through this form, you hereby grant to us a non-exclusive, royalty-free, transferable, sub-licensable, worldwide license to host, use, distribute, codify, run, copy, publicly perform or display, translate, and create derivative works of your content. Once your content is submitted it cannot be deleted by you on your own.

You further represent, warrant and agree that the content you provide through this form will not violate or infringe upon the rights of any third party, including copyright, trademark, privacy, publicity or other personal or proprietary rights, and will not contain false, intentionally misleading, libelous, defamatory or otherwise unlawful statements.

Submit

Figure 7 Acknowledgement Statement and Selection Button.

Data Collection Form – Spanish

The data collection form is also available in Spanish. The Spanish version can be accessed by clicking on the text in the upper left above the form that says English-US and select Español-México.

Español-México

English-US

Español-México

...ra Base de Datos de Inundaciones Comunitarias en...

Esta encuesta recopila fotos y/o videos que yeventos de inundación en el Estado de Nuevo México. Los resultados se muestran en el mapa de la Base de Datos de Inundaciones Comunitarias en Nuevo México.

Este formulario le permite subir hasta 10 fotos y/o hasta 5 videos de *una* locación. Para enviar fotos/videos de diferentes locaciones, complete un nuevo formulario (un formulario por locación).

Este formulario es únicamente para la recopilación de datos y no debe utilizarse para buscar ayuda en caso de emergencias en tiempo real. Para emergencias, llame al 911.

¡Por favor mantengase seguro! Solo tome fotos/videos y complete este formulario si es seguro hacerlo.

Para llenar este formulario en Español, haga click en "English-US" arriba a la izquierda, y seleccione "Español-México".

Si tiene más información sobre el contenido que está enviando, escriba un correo electrónico a nmflood@edac.unm.edu.

Gracias por participar en esta encuesta, y recuerde:
Cuando Haya Inundación, De La Vuelta, No Se Ahogue.

Subir Fotos

Suba un máximo de 10 fotos de una locación. Para subir fotos tomadas en otros lugares, someta una nueva encuesta por cada locación.

1   Soltar image aquí o seleccionar image (número de archivos permitidos: 1 - 10)   📷

Subir Video

Suba un máximo de 5 videos de una locación. Para subir videos tomadas en otros lugares, someta una nueva encuesta por cada locación.

Figure 8 Spanish Data Collection Form.

New Mexico Community Flooding Database Map

Navigating the Map

The New Mexico Community Flooding Database Survey Map is where all of the survey results are displayed. Anyone can access the map through a link and be able to view other submissions.

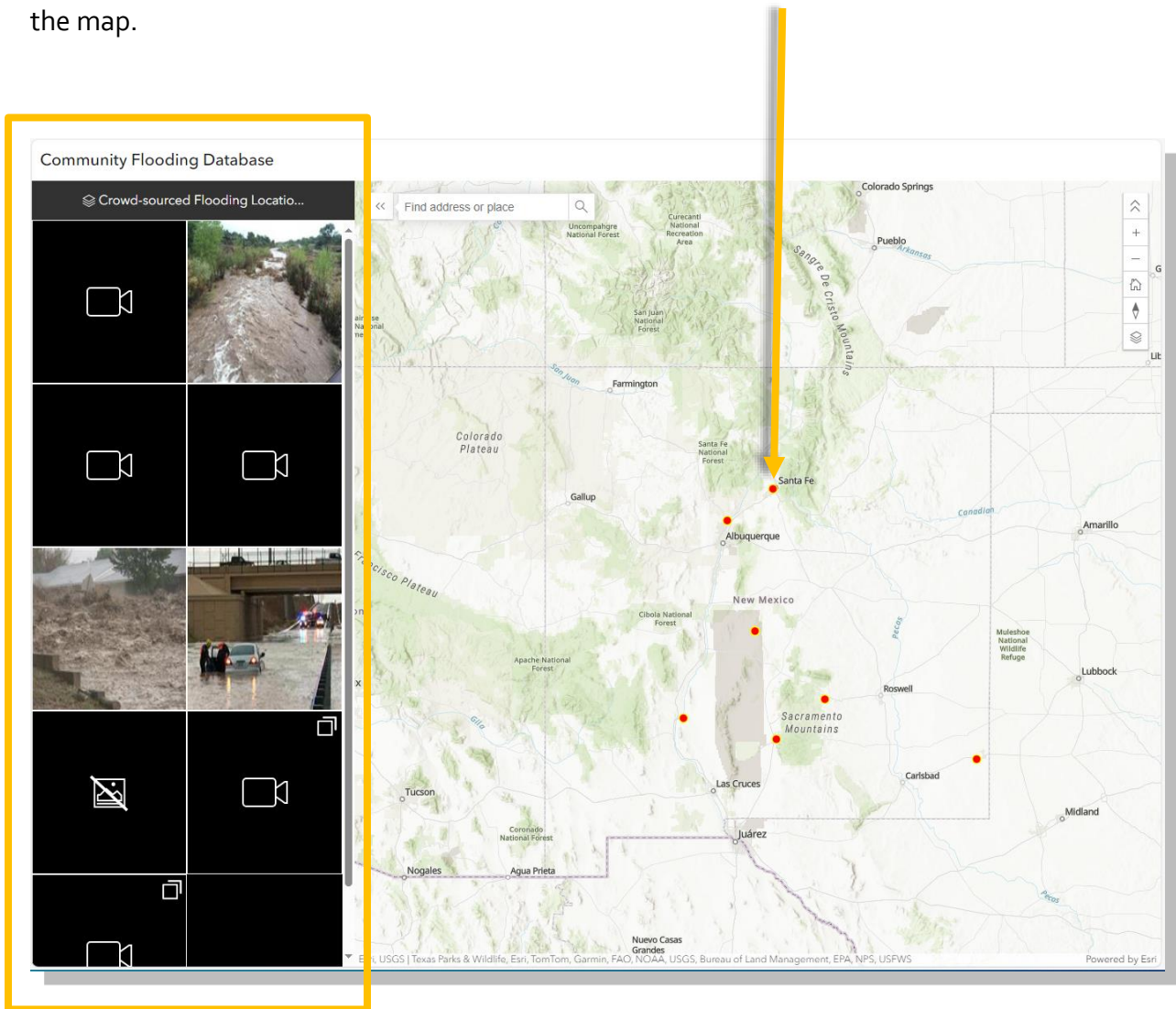The left side bar has all of the photos and videos.   Each video/photo corresponds to a point on the map.

Figure 9 New Mexico Community Flooding Database map navigation.

Media Side Bar

The media sidebar displays the photographs or videos that have been uploaded via the data form.

If the media sidebar has an entry with an image thumbnail, then it is a photo. An icon showing a video camera means there that the entry has a video. An icon showing an image with a slash through it means that there is was an error in uploading and no attachment uploaded in the entry.

Figure 10 Media Side Bar Icons.

Viewing Media

Click on a video or photo to open and view it. The corresponding point on the map will be highlighted in teal blue to indicate the location of the photo/video. Once you have opened the photo or video you can view the location information, description, date of flood and other

information provided during upload. You can also click a point on the map to view the media and associated information.

Figure 11 New Mexico Community Flooding Database Map Navigation.
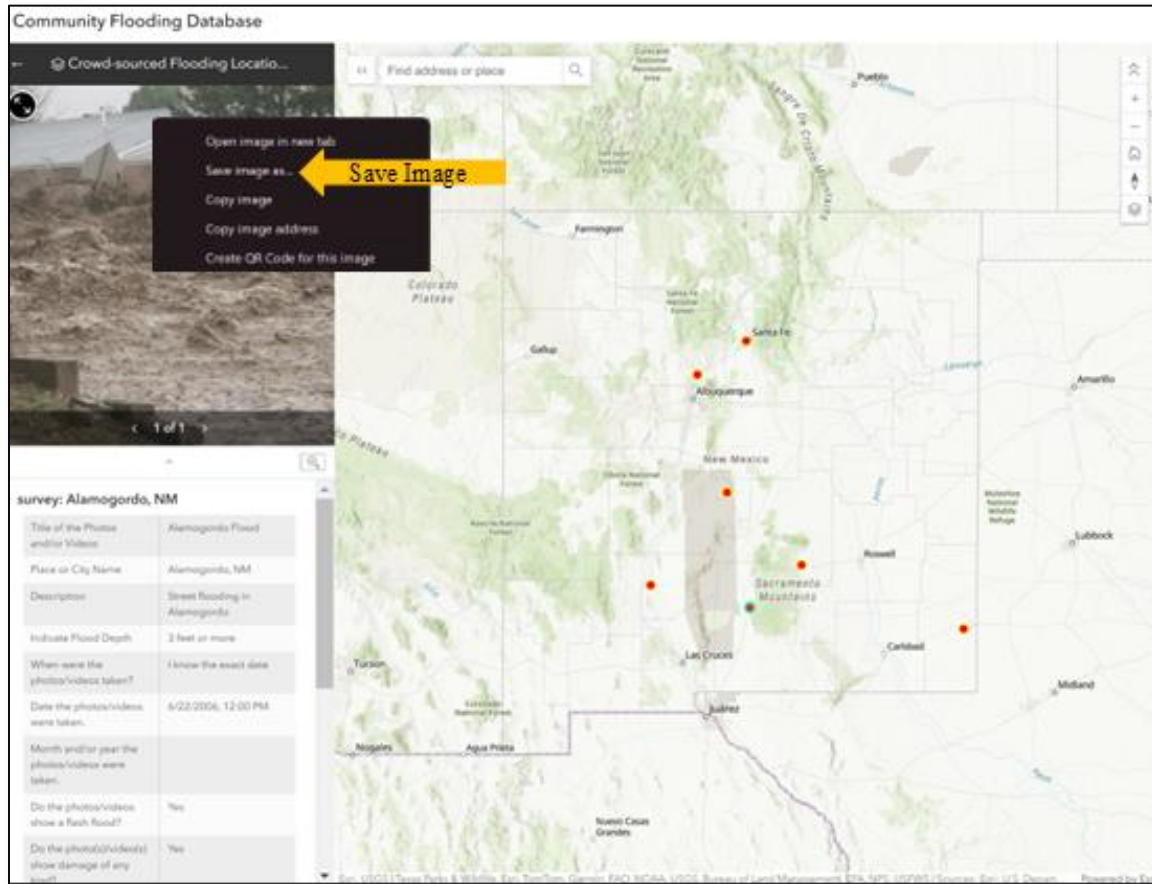
Downloading Media

Figure 11 New Mexico Community Flooding Database Map Navigation.

Photos and videos can be downloaded by right-clicking on the photo and selecting save image or save video.

Navigating the map

The plus and minus buttons can be used to zoom in and out of the map or the mouse wheel can used to scroll/zoom in and out.

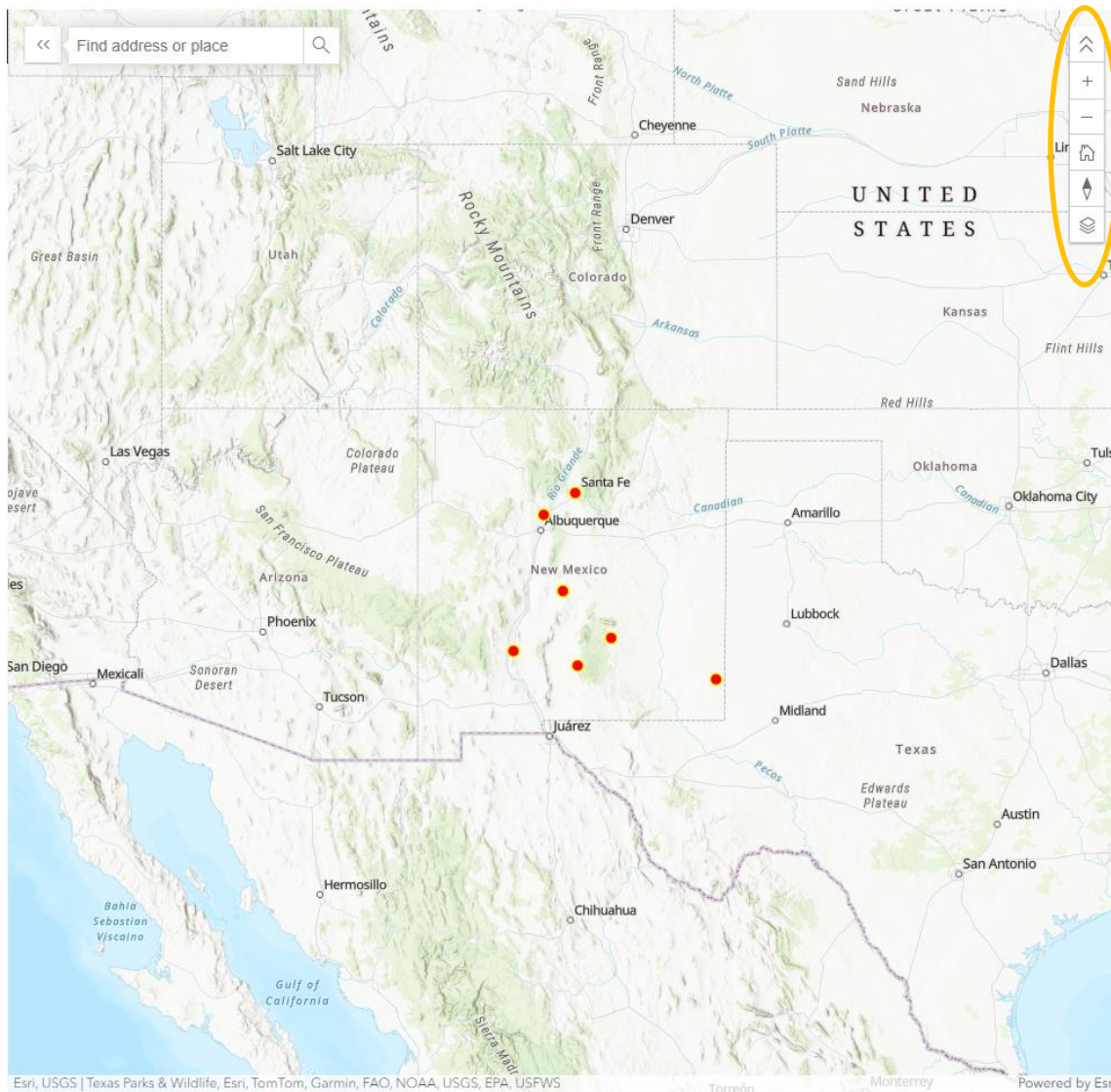Click the "Reset map orientation" button to reset the orientation of the map.

Figure 12 New Mexico Community Flooding Database Map.

🏠 Click the Home button to return to the initial map view.

⬙ Click the Layers button to see a list of the map layers. This map has two layers: the flood entry data points and county boundaries.

Crowd-sourced Flooding Location 👁

Click the "eye" icon to turn layer on and off.

Thank you for participating in the New Mexico Community Flooding Database!