

Navigating the Iowa DNR's Floodplain Viewer

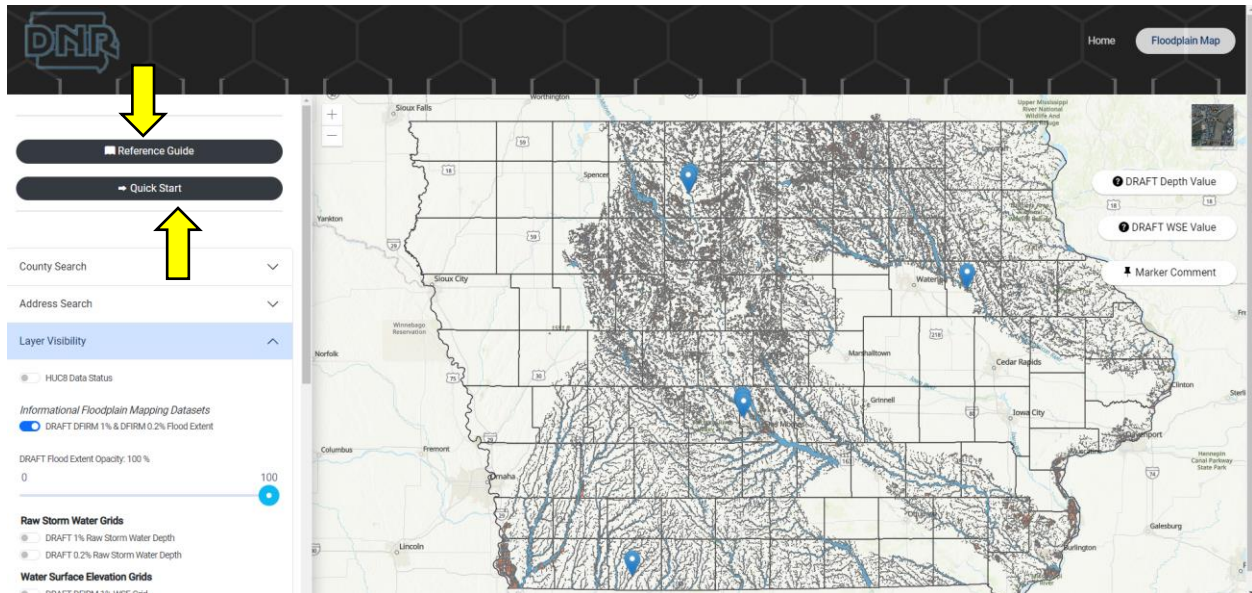
Navigate to the Iowa DNR's 2D BLE floodplain maps website at <https://www.iowadnr.gov/floodplainmap>. Click on the image below "Iowa Floodplain Mapping Data Platform" to open the viewer.

The screenshot shows the Iowa Department of Natural Resources website. The top navigation bar includes links for HOME, HUNTING, FISHING, THINGS TO DO, PLACES TO GO, CONSERVATION, ENVIRONMENTAL PROTECTION, and ABOUT DNR. The main content area is titled "FLOOD PLAIN MAPPING" and features a sidebar with categories like Air Quality, Land Quality, Water Quality, and Animal Feeding Operations. The "Land Quality" category is selected, showing sub-items such as Emergency Planning (EPCRA), Solid Waste, Waste Planning & Recycling, and Flood Plain Management. The main content area includes a "History of the Program" section, a "Iowa Floodplain Mapping Data Platform" section with a map image and a yellow arrow pointing to it, and a "County-wide Flood Insurance Rate Maps (FIRMs)" section.

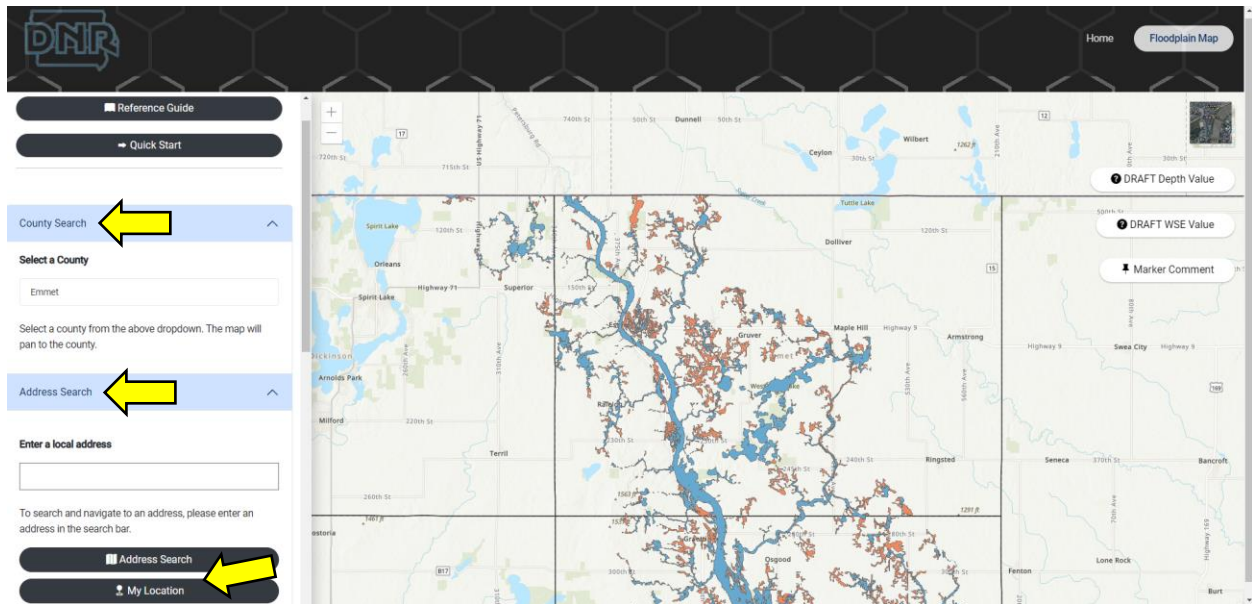
Click **I want to Explore.**

The screenshot shows the Iowa Floodplain Mapping Data Platform interface. A "Quick Start" modal window is open, displaying three main options: "View Base Level Engineering Data", "View Base Level Engineering Data" (with a sub-option "Access Base Level Engineering Data"), and "Download Datasets and Models". A yellow arrow points to the "I want to Explore" button at the bottom of the modal. The background shows a map of Iowa with various floodplain data layers overlaid, including "DRAFT Depth Value", "DRAFT WSE Value", and "Marker Comment".

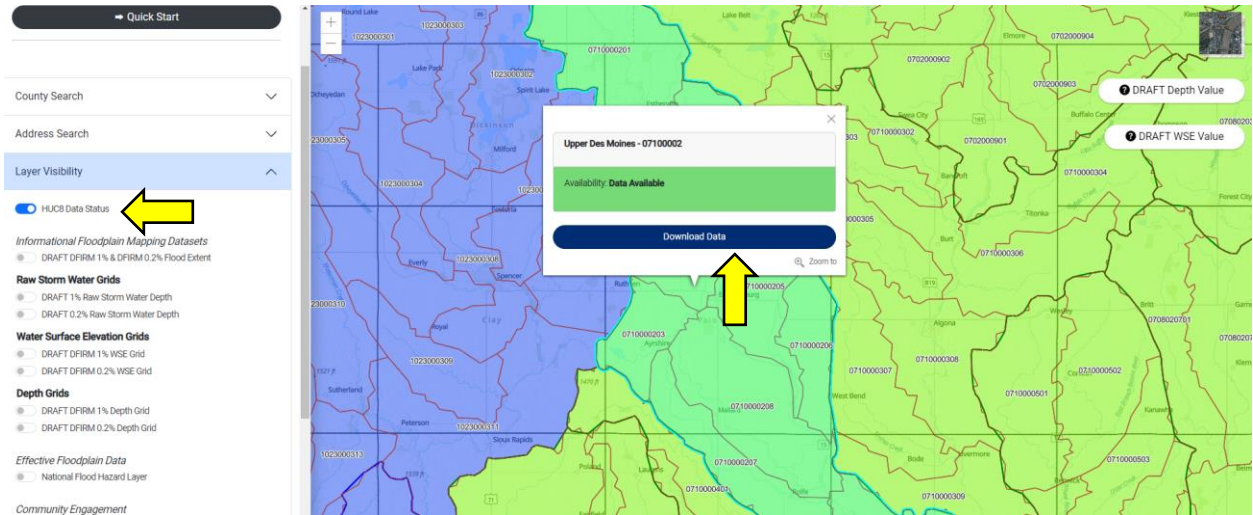
The **Reference Guide** explains the naming convention for downloadable models and details the data sets shown in the viewer. **Quick Start** takes you back to the startup page (shown above) where you have the option to view the maps or download data.



County Search allows you to zoom to a county via a drop-down list. **Address Search** allows you to navigate to a specific address or click on **My Location** and it will zoom to where you are.



There are two ways to download data. The first is through the startup page mentioned earlier by clicking “Download Datasets and Models”. The second is to toggle on **HUC8 Data Status** to see where data is available for download. Areas in green have data available, areas in blue are in progress. Click the green area and the **Download Data** button will appear.

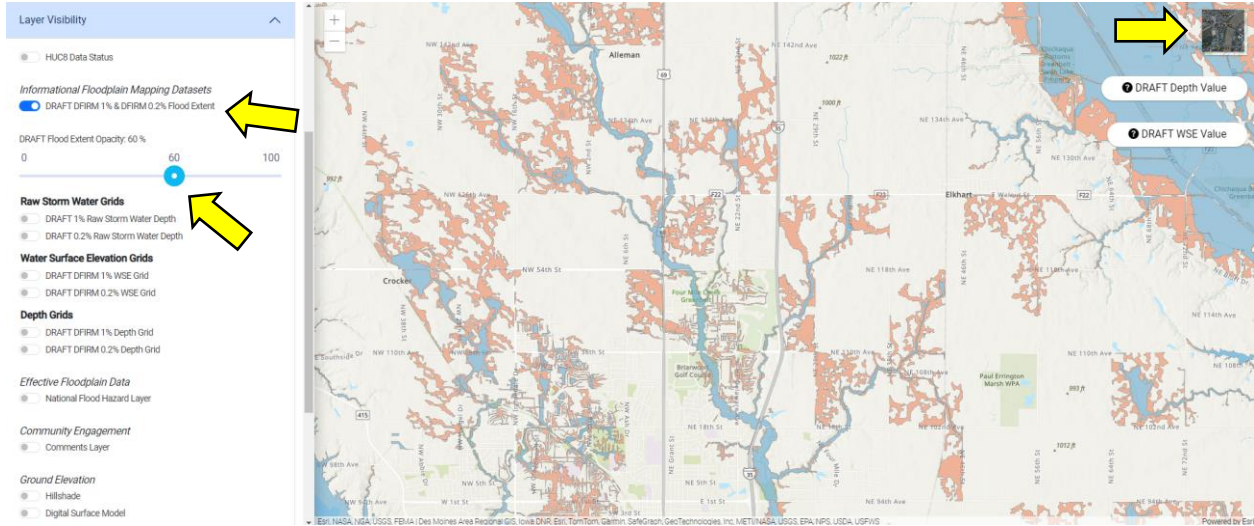


Click the **Download Data** button and a list of all downloadable files for that HUC8 will appear. Use the Reference Guide mentioned earlier to better understand the datasets available. Models are available by HUC10 and correspond with the numbers shown on the map. All other datasets are packaged by HUC8. Click anywhere outside the pop-up to close the window.

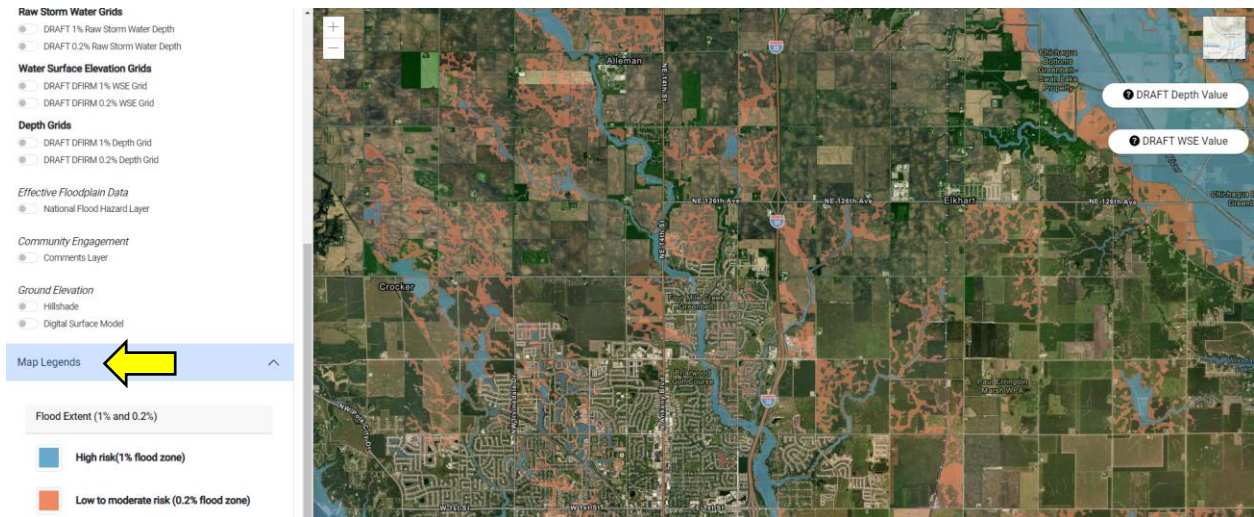
Upper Des Moines - 07100002

Datasets and Models	File Name	Download Link
Reference Guide		Download Reference Guide
HEC-RAS model or Figure	P01_0710000202_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000206_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000207_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000201_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000205_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000208_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000204_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000203_20230619.zip	Download File
HEC-RAS model or Figure	P01_0710000209_20230619.zip	Download File
Floodplain GDB	P01_07100002_20230515gdb.zip	Download File
Grid	RAW_01pct_StormWaterDepth.tif	Download File
Grid	WSE_01pct.tif	Download File
Grid	WSE_0_2pct.tif	Download File
Grid	RAW_0_2pct_StormWaterDepth.tif	Download File
Other	Velocity_HUC10s.zip	Download File
Other	P01_07100002_HUC10s.PNG	Download File

Toggle on **DRAFT DFIRM 1% & DFIRM 0.2% Flood Extent** to view the draft 100-year (1% annual chance) and draft 500-year (0.2% annual chance) flood maps. The opacity slider beneath the toggle button allows you to modify the transparency of the flood extents. Click the basemap icon on the top right to change the view to an aerial photo of the area.



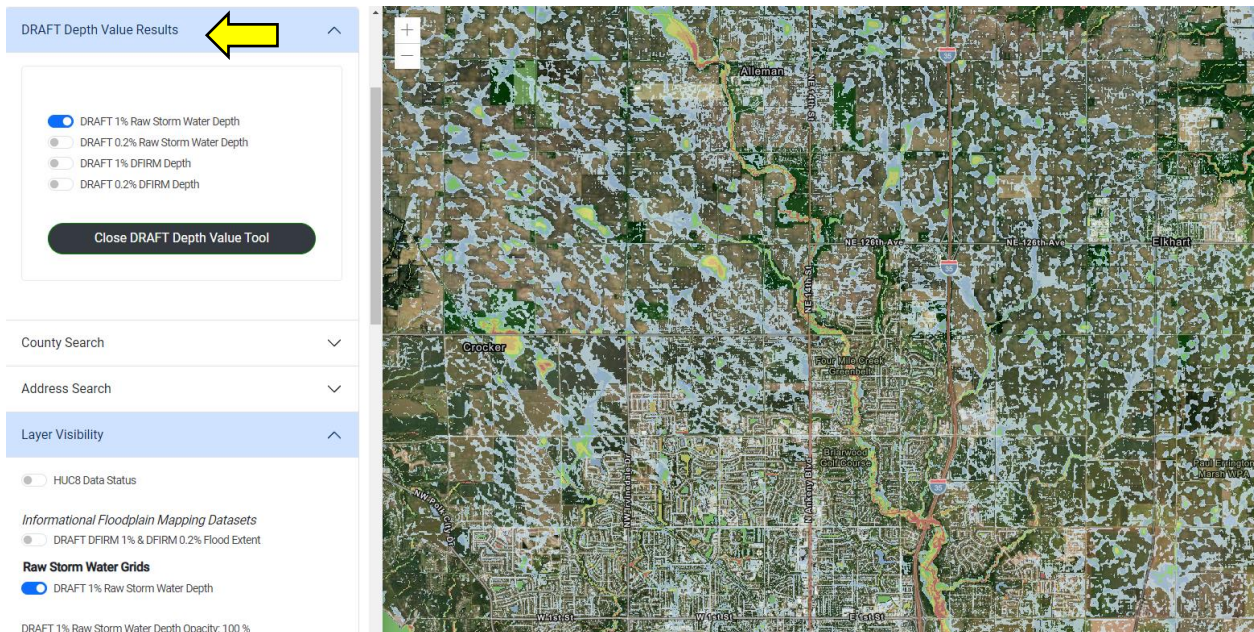
When you toggle on a layer, the legend for that layer will show up at the bottom of the left side under **Map Legends**.



Toggle on the **DRAFT 1% Raw Storm Water Depth** or **DRAFT 0.2% Raw Storm Water Depth** to view the Storm Water Depth Grids. The legend for these layers will appear at the bottom left. To obtain a depth value for a point on the map, click the **DRAFT Depth Value** button on the right side.



When you click on **DRAFT Depth Value**, the **DRAFT Depth Value Results** dropdown will appear above County Search on the left side. Click on it to expand.



Using the cross hairs, click on the Raw Storm Water Depth Grid to obtain a depth value. A point will appear indicating where the click occurred with a value bubble above. A maximum of six value points are able to appear simultaneously. Use the **Close DRAFT Depth Value Tool** button to close the results window and bring back the buttons to the right.

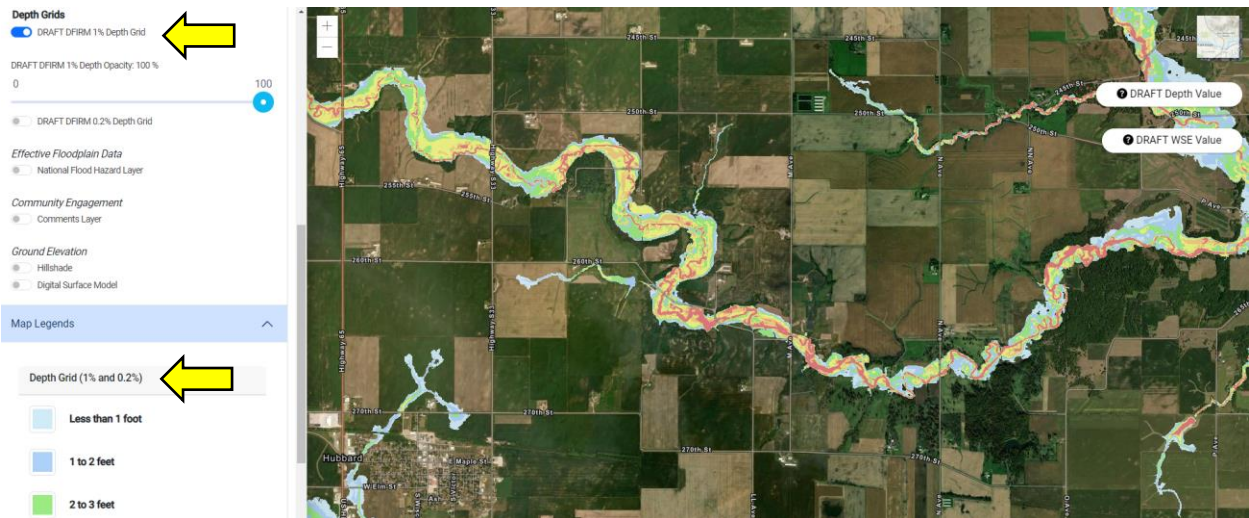
The screenshot displays a web application interface for flood depth analysis. On the left, a panel titled "DRAFT Depth Value Results" is open, showing a list of four data layers: "DRAFT 1% Raw Storm Water Depth" (selected), "DRAFT 0.2% Raw Storm Water Depth", "DRAFT 1% DFIRM Depth", and "DRAFT 0.2% DFIRM Depth". Below the list is a button labeled "Close DRAFT Depth Value Tool" with a yellow arrow pointing to it. Further down are sections for "County Search", "Address Search", and "Layer Visibility". The "Layer Visibility" section includes "HUC8 Data Status" (unchecked), "Informational Floodplain Mapping Datasets" (with "DRAFT DFIRM 1% & DFIRM 0.2% Flood Extent" unchecked), and "Raw Storm Water Grids" (with "DRAFT 1% Raw Storm Water Depth" selected). At the bottom of the panel, it shows "DRAFT 1% Raw Storm Water Depth Opacity: 100 %".

On the right, a map shows a residential area with a color-coded flood depth grid. Several purple callout boxes indicate specific depth values: 3.61, 0.36, 2.28, 4.81, 7.44, and 5.06. The map includes street names such as NE 113th Ave, NE 14th St, NE 18th St, NE 25th St, NE 36th St, NE 41st St, NE 44th St, NE 47th St, NE 51st St, NE 55th St, NE 60th St, NE 64th St, NE 68th St, NE 71st St, NE 74th St, NE 77th St, NE 80th St, NE 83rd St, NE 86th St, NE 89th St, NE 92nd St, NE 95th St, NE 98th St, NE 101st St, NE 104th St, NE 107th St, NE 110th St, NE 113th St, NE 116th St, NE 119th St, NE 122nd St, NE 125th St, NE 128th St, NE 131st St, NE 134th St, NE 137th St, NE 140th St, NE 143rd St, NE 146th St, NE 149th St, NE 152nd St, NE 155th St, NE 158th St, NE 161st St, NE 164th St, NE 167th St, NE 170th St, NE 173rd St, NE 176th St, NE 179th St, NE 182nd St, NE 185th St, NE 188th St, NE 191st St, NE 194th St, NE 197th St, NE 200th St, NE 203rd St, NE 206th St, NE 209th St, NE 212nd St, NE 215th St, NE 218th St, NE 221st St, NE 224th St, NE 227th St, NE 230th St, NE 233rd St, NE 236th St, NE 239th St, NE 242nd St, NE 245th St, NE 248th St, NE 251st St, NE 254th St, NE 257th 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Toggle on the **DRAFT DFIRM 1% WSE Grid** or **DRAFT DFIRM 0.2% WSE Grid** to view the Water Surface Elevation Grids. To obtain a water surface elevation for a point on the map, follow the same steps used to find a depth value shown above. Note: Values for the WSE grid are elevation values and NOT depth values.



Toggle on the **DRAFT DFIRM 1% Depth Grid** or **DRAFT DFIRM 0.2% Depth Grid** to view the Draft DFIRM Depth Grids. These depth grids only show depth for areas that have 1% or 0.2% annual chance floodplains. The legend for these layers will appear at the bottom left.



Toggle on the **National Flood Hazard Layer** to view the current effective floodplain data. The legend for the National Flood Hazard Layer will appear on the bottom left.

The screenshot displays a GIS application interface. On the left, a sidebar contains several sections: 'Effective Floodplain Data' with a toggle for 'National Flood Hazard Layer' (indicated by a yellow arrow), 'Community Engagement' with a toggle for 'Comments Layer', and 'Ground Elevation' with toggles for 'Hillshade' and 'Digital Surface Model'. Below this is the 'Map Legends' section, which includes 'FEMA Flood Hazard Zones' (indicated by a yellow arrow) with a legend for Zone A, AE, AH, AO (blue), Zone AE Floodway (red and blue hatched), Zone D (yellow), Zone X: 0.2% Annual Chance and 1% Depth Less Than 1 Foot (orange), and Zone X: Area with Reduced Flood Risk Due to Levee (black and orange hatched). The main map area shows an aerial view of a residential area with various streets labeled (e.g., NE 41st St, NE 43rd St, NE 45th St) and flood hazard overlays. A blue area represents the floodplain, and a red and blue hatched area represents the floodway. A yellow arrow points to the 'National Flood Hazard Layer' toggle.

Toggle the **Hillshade** button on to view the terrain of the area under the layers.

The screenshot displays the same GIS application interface as above, but with the 'Hillshade' toggle under 'Ground Elevation' turned on (indicated by a yellow arrow). The map now shows a 3D terrain view with elevation shading in shades of brown and green, overlaid with the flood hazard layers. The sidebar on the left shows the 'Hillshade' toggle is active. The 'Map Legends' section is also visible. The main map area shows the same residential area with streets labeled (e.g., NE 41st St, NE 43rd St, NE 45th St) and flood hazard overlays. A yellow arrow points to the 'Hillshade' toggle.

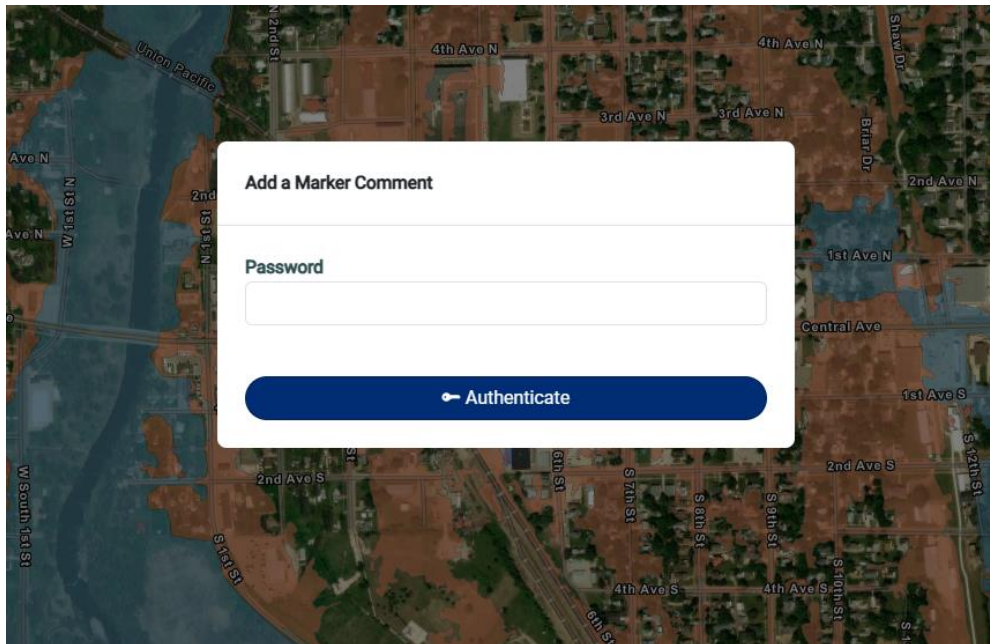
The **Digital Surface Model** is similar to the Hillshade but it also includes structures and trees.



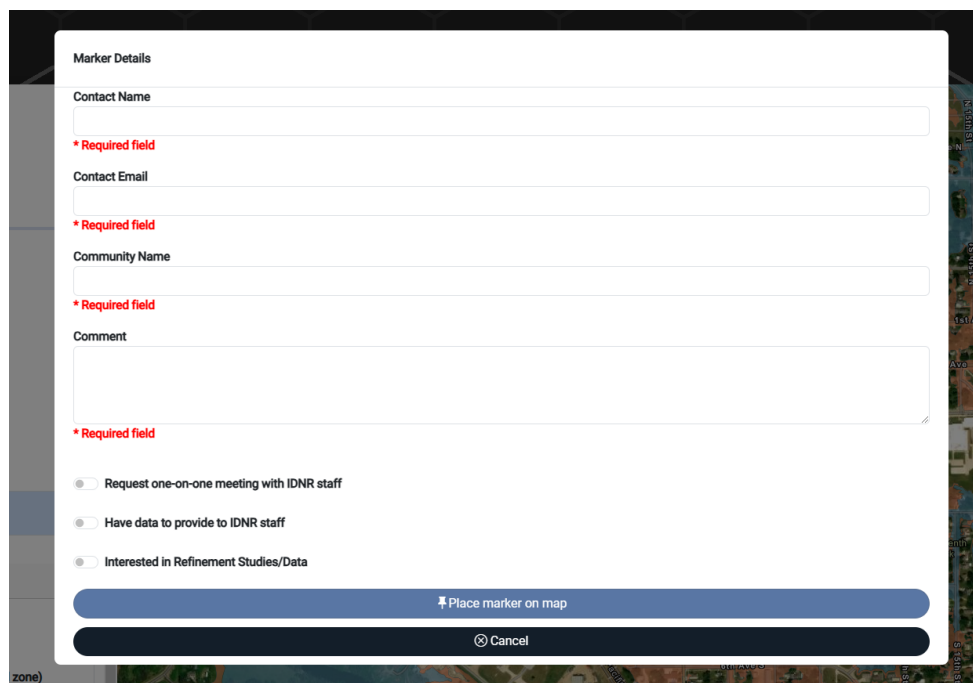
If you would like to make a comment after viewing the maps, you can do so by turning on the **Comments Layer** and clicking the **Marker Comment** button to the right.



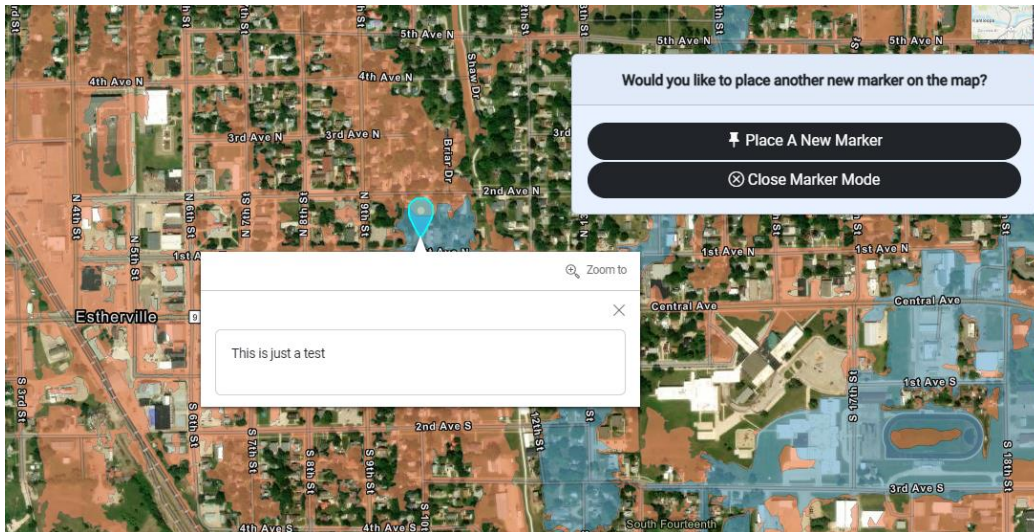
When you click the Marker Comment button, a pop-up window will appear prompting you for a password. To obtain a password to create comments, please email Jesse.soukup@dnr.iowa.gov.



After you enter the password, a Marker Details window will appear. Here you can fill out information about yourself along with any comments you might have about the maps. Please be as detailed as possible when leaving comments. Using the toggle buttons at the bottom, you may also request a one-on-one meeting to discuss your comments or provide data to help improve the maps. City officials may also express interest in refining the maps for their area.



After filling out the form, click **Place marker on map**. Next, click the point on the map that corresponds with your comment. You will then have the option of placing another marker or, if you are done, you can close marker mode.



For questions about the floodplain mapping viewer, please contact Jesse Soukup at Jesse.soukup@dnr.iowa.gov or Chris Kahle at Chris.Kahle@dnr.iowa.gov