



**US Army Corps
of Engineers**®
St. Louis District

USACE Inundation Modeling Fact Sheet



USACE prepares inundation maps to delineate areas that could be affected by flooding due to a theoretical levee failure or overtopping event. The maps are produced to better understand and communicate potential flooding scenarios and to support local emergency management officials in flood emergency preparedness activities.

While the maps were produced using best information available and are believed to be accurate for the conditions modeled, their preparation required many assumptions and include limitations, which are provided below.

- The results are specific to the flood conditions modeled. This includes the river elevation, as well as the duration of the flood.
The products developed for the Grand Tower and Degognia and Fountain Bluff levee system assume the same flooding conditions that were experienced in the 2019 flood, which reached a stage of 46.29 feet on the Cape Girardeau Gage.
- The results are specific to the levee condition modeled.
The products developed for the Grand Tower and Degognia and Fountain Bluff levee system assume the levee fails at a stage of 46.29 feet on the Cape Girardeau Gage before the levee is overtopped.
- The model does not include any localized flooding on the Big Muddy River.
- The model does not include any interior flooding due to rain events or levee seepage.



Please contact the following individuals with questions regarding these maps:

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KEY THINGS TO REMEMBER

- ♦ **Actual conditions during a levee breach may vary from those assumed, so the accuracy can not be guaranteed!**
- ♦ **The flooding depths and arrival times should be used only as a guideline for emergency planning and response actions!**