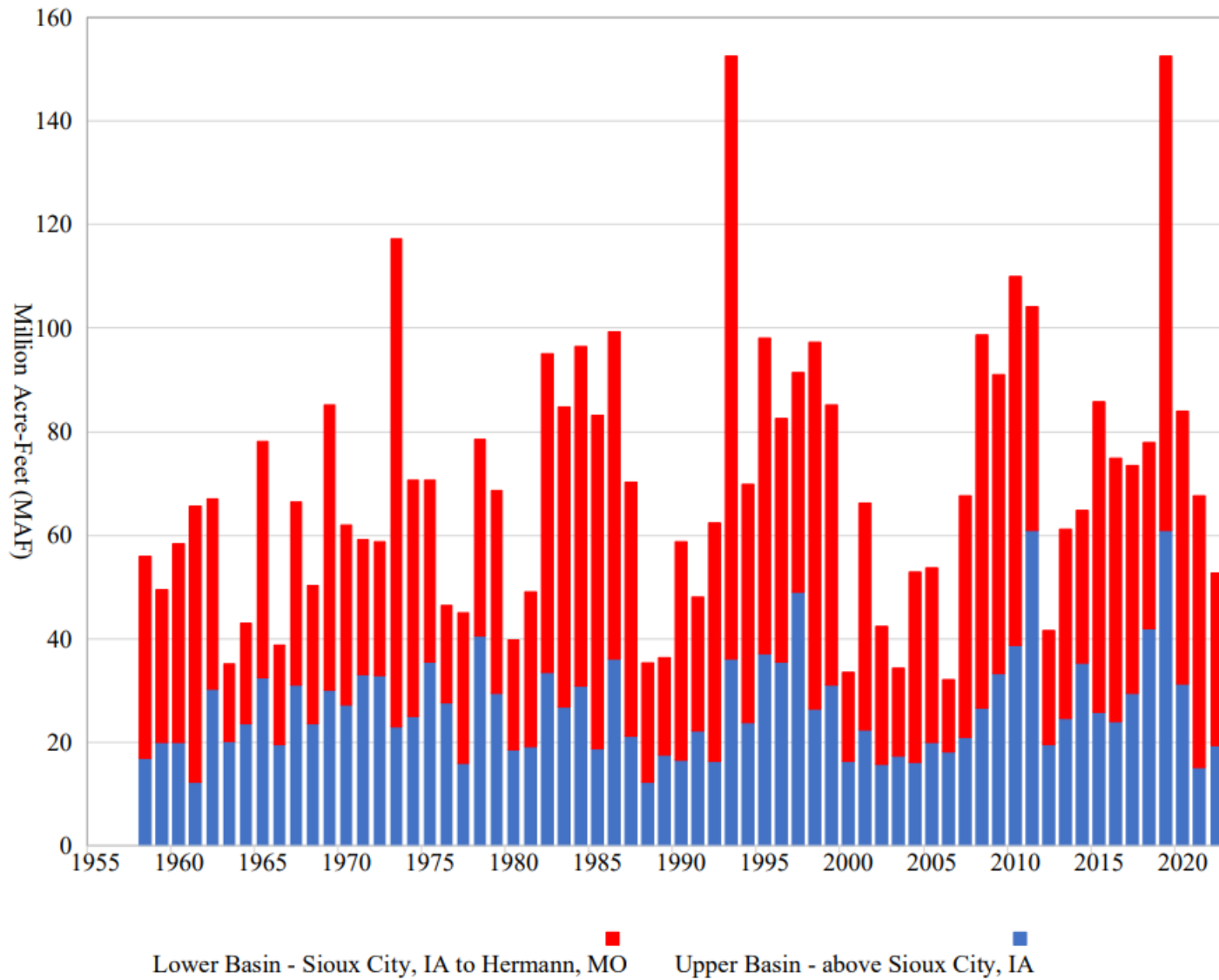


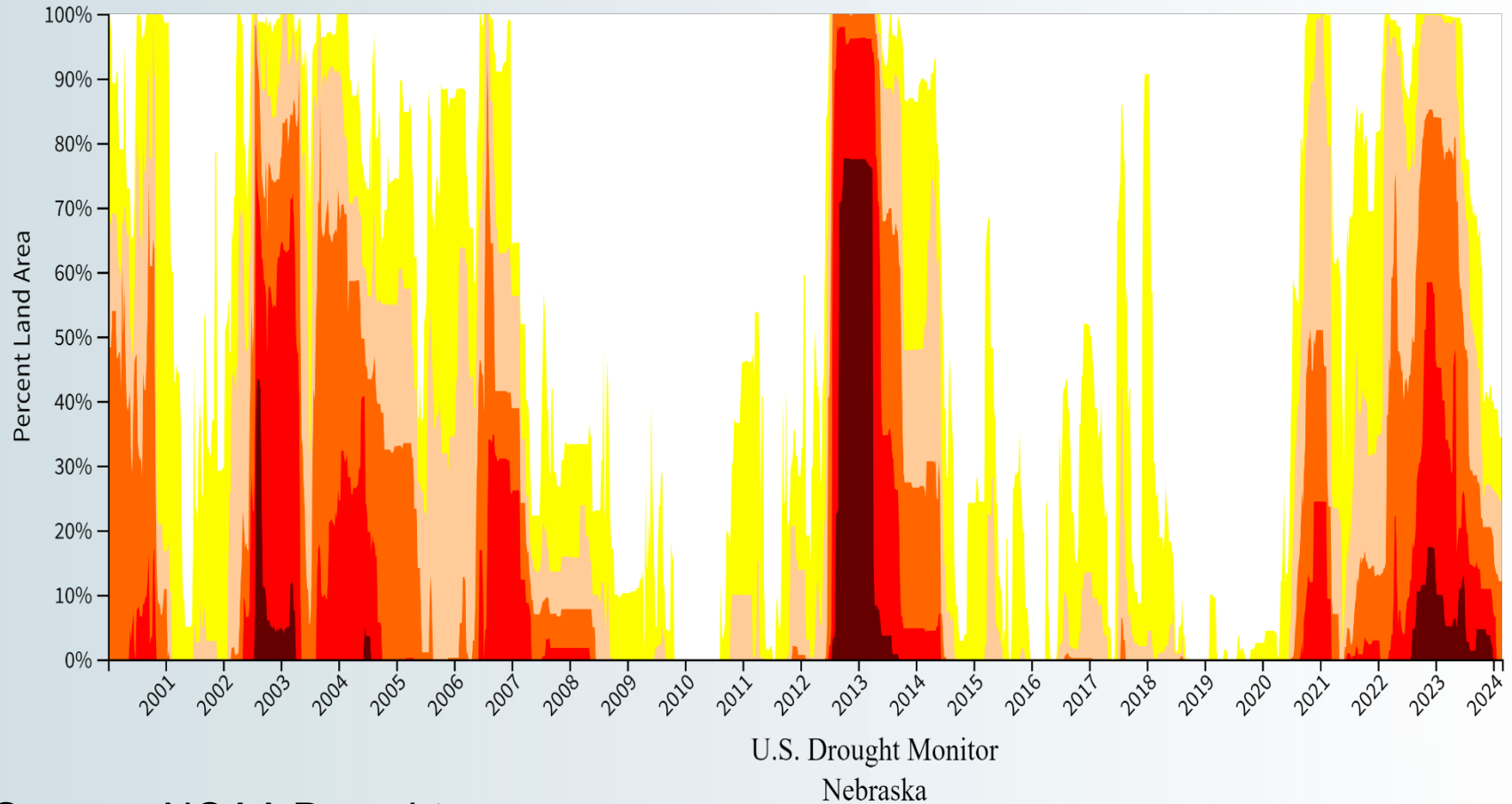
# Extreme Weather and Lower Missouri River Basin

# Missouri River Basin Annual Runoff

Figure 10. Missouri River Basin annual runoff above Hermann, MO.



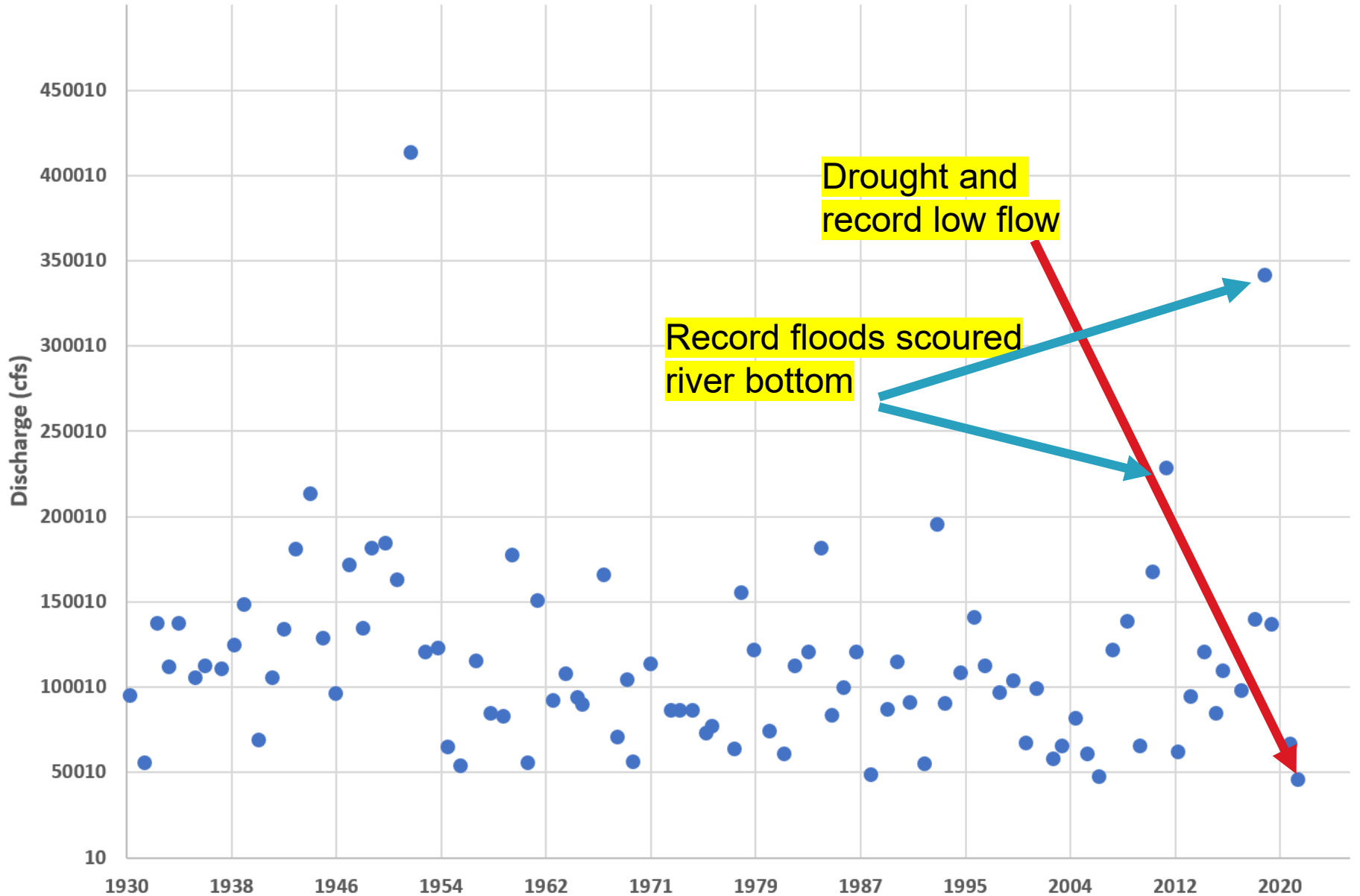
# Droughts – Nebraska 2001 – 2024



Source: NOAA Drought.gov

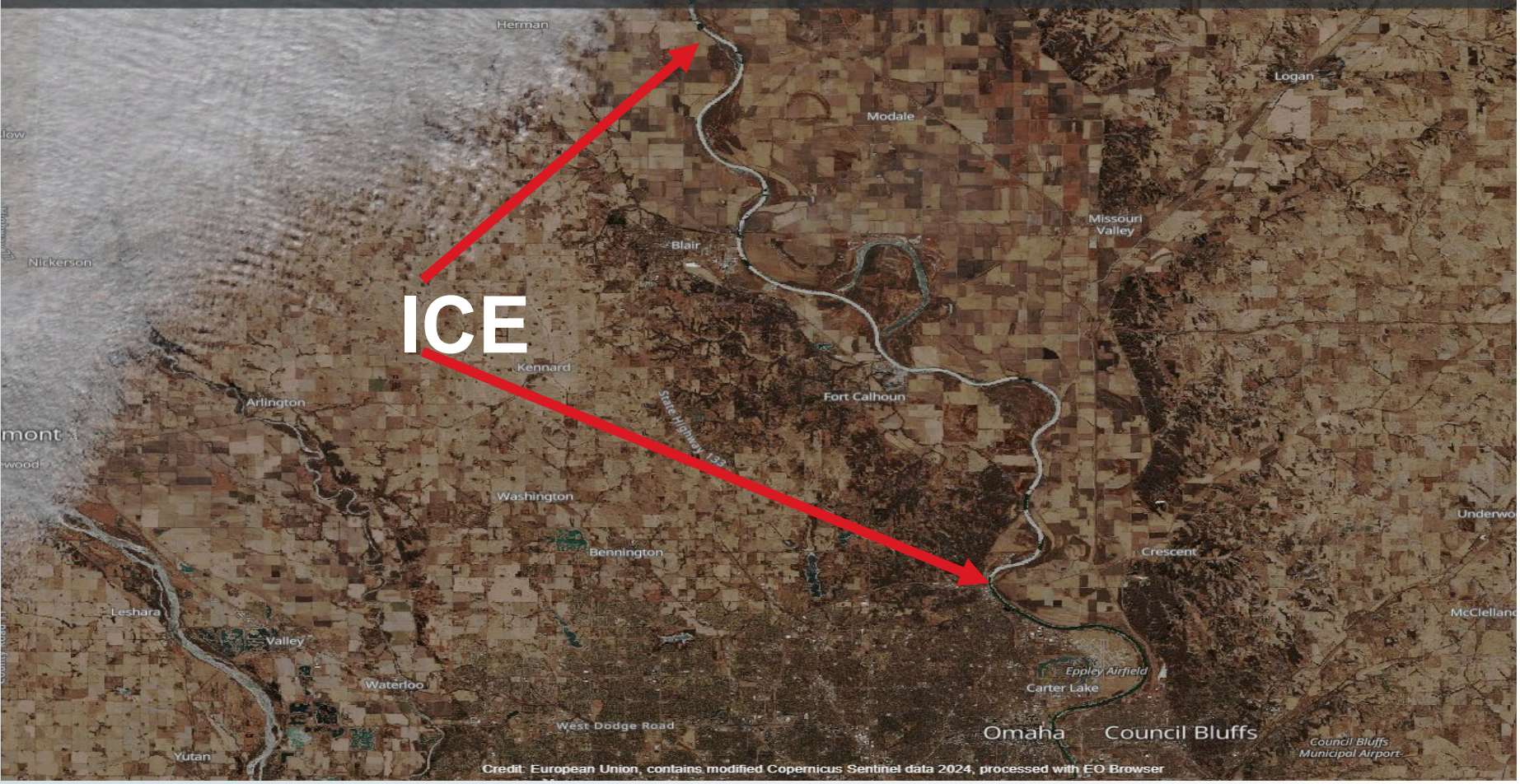


# Nebraska City, Nebraska USGS River Gage Yearly Peak Discharge



2022-12-30 00:00 - 2022-12-30 23:59, Sentinel-2 L2A, Highlight Optimized Natural Color


ICE



# Missouri River December 2022



# Cumulative Impacts of Floods and Drought on Utility Infrastructure – 2022 and 2023

- Christmas 2022 – low water flows coupled with severe cold caused 50 miles of icing on the river north of Omaha.
  - Omaha Public Power District (electricity) and Metropolitan Utilities District (drinking water) intakes were high relevant to river floor than when constructed.
  - Intakes froze and were unable to draw water from the river.
  - Event repeated in winter 2023.
- 

# State Actions

- Engagement with USACE
  - Is releasing more water from upstream dams helpful or harmful?
  - Other impacts / analysis?
- Encourage updating COOPs
- Encourage and assist with funding options to build long-term resiliency
  - BRIC, IIJA Water Security, other sources
- Encourage Congressional Action on Water Resources Development Act (WRDA 2024) to address ice jams on the Missouri River (most recent study is 40 years old)

