2019 MVS FLOOD RESPONSE

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Date: 25 July 2019
AGENDA

- Rainfall / River Stages
- Levee Performance
  - Overtopping
  - Underseepage
  - “Aging Infrastructure”
- Recovery
WATERSHED ABOVE ST. LOUIS
ST. LOUIS GAGE

- 49.58' - 1993
- 46.02' - 2019
- 43.75' - 1973

30' – Flood Stage
LEVEE PERFORMANCE - OVERTOPPING

- 90 levee districts in the St. Louis District
- 24 levee segments / 18 levee systems overtopped
- 12 levee segments confirmed breached
- Over 100,000 acres inundated

Overtopping Without Breach

Overtopping with Breach
ELSBERRY OVERTOPPING
ELSBERRY OVERTOPPING
NUTWOOD OVERTOPPING / BREACH
NUTWOOD OVERTOPPING / BREACH
CONSOLIDATED NORTH COUNTY OVERTOPPING
CONSOLIDATED NORTH COUNTY OVERTOPPING
COLUMBIA SANDBOILS
STRINGTOWN SANDBOIL
PRESTON SANDBOILS
PRESTON SANDBOILS
PRESTON SANDBOILS
LEVEE PERFORMANCE – “AGING INFRASTRUCTURE”

- Many systems in the region constructed 60+ years ago
- Many components past design life
  - Culverts
  - Sluice Gates
  - Pump Stations / Discharge Pipes
  - Closure Structures
FT. CHARTRES – GRAVITY DRAIN
ST. LOUIS – CARR ST. PUMP STATION
WOOD RIVER – EAST ALTON PUMP STATION
RECOVERY – PUBLIC LAW 84-99

- Floods between 2015 and 2017 resulted in 34 rehabilitation projects
  - Total costs over $54 Million
  - 6 projects were still in construction prior to 2019 Flood Event
- New Damages
  - 30-40 new projects anticipated
  - ~$50M Estimated
  - Requests for Assistance
    - Official window starting 26 July
    - “Preliminary” requests for assistance
    - Bulk PIR funds request
    - Initial repair at Nutwood
QUESTIONS