





Risk

- ▼ The 2009 flood was approximately a 125 year flood event.
- Successful flood fights lead to a false sense of security.
- ✓ It would be very difficult to fight floods larger than the 2009 flood.
- ✓ Failure of emergency levees would be catastrophic.



Building of 2nd St. Levee for 2009 Fargo-Moorhead Flood







Wetter Climate?

✓ Panel of experts met to discuss hydrology

- Confirmed increasing trend in flood flow and frequency
- Cause of increasing trend is not known
- ✓ Red River has wet & dry cycles
- Currently in a wet cycle, but will eventually switch to dry cycle

Recommendations

- ✓ Use non-standard hydrologic method to estimate future flows.
- ✓ Assume that continued wet conditions are more likely than dry

Actions taken

- ✓ Corps developed modified flow/frequency curves
- ✓ Will use modified curves for sensitivity analysis of selected plan







Local Decisions

- ✓ What level of risk is tolerable?
 - ✓ 36 feet for a 500-year event.
- ✓ What locally preferred options need to be retained?
 - ✓ MN 35K, ND 30 & 35K
- ✓ Identify sponsors for construction and ongoing O&M
- Define non-federal cost sharing arrangements
 - ✓ Non-federal share of the NED plan will be 35-50% of costs
 - ✓ All costs in excess of the NED plan are 100% non-federal
- ✓ Develop local consensus