Here is the Good News!



It Could Be 30° Tomorrow!



Red River Basin Commission finished the Halstad Upstream Retention Report end of December

This report was sponsored by the Diversion Authority

Goal:

 to see how distributed storage could affect flooding events in the basin by defining the amount and location of storage required to achieve 20% flow reductions on the tributaries to and on the mainstem Red River upstream of Halstad, MN

Findings:

- Flood volumes on the main-stem Red River can be reduced in excess of 20% through distributed storage
 - These storage sites would provide local benefits as well as greater regional benefits to the basin
- Peak flows on the Red River's tributaries can be reduced by as much as 35% (The RRBC LTFS set a goal of 20%)

Findings:

- > 20% volume reduction translates to a crest below 40 ft in a 100 year flood event using the ACOE numbers
- 20% volume reduction translates to a crest below 38 ft using FEMA's 100 year numbers
- The 2009 flood, which is the period of record flood in F-M, would have crested at less than 38 ft with distributed storage in place

A 500 year flood event in the F-M area with distributed storage in place and the corresponding 20% volume reductions would translate to a crest of 41ft using the latest ACOE and FEMA numbers.

- Moorhead levee work should be completed this year and will be built to a minimum height of 44 ft!
- Fargo's Comprehensive Flood Control Plan is to build levees to a height of 42.5 ft!
 - So... Why a diversion???

Conclusion

- Fargo and Moorhead's first priority should be to complete their internal flood control projects
- With levees in place and \$\$ spent on distributed storage, there is little if any need for a diversion to protect the F-M area from a 100-500 year flood event

Conclusion cont.

- Distributed storage solves local watershed problems and protects the greater basin from future flood events
- An expensive diversion project has the capability of absorbing all available money for distributed storage projects which, in and of themselves, will benefit all people living in the basin