PRESENTATION SUMMARY

- Introduction
 - Overview (M. Ryan)
 - Geography
 - Living with the Red (M. Clamen)
 - Conclusions and Recommendations
- Accomplishment's
 - Improvements in Flood Forecasting (D. Luna)
- Mitigation (Structural/non-structural/Policy/Legislation changes)
 - North of the Border
 - Manitoba (D. McNeil)
 - South of the Border
 - US Federal (J. DeHarnais)
 - US State—Minnesota (Dale Frink)
- Summary
 - What's next? (M. Ryan)
- Questions



Minnesota Flood Response and Recovery Red River Valley

Prepared by:

Kent Lokkesmoe Director Division of Waters Minnesota Department of Natural Resources

Presented by: Dale Frink





The 1997 flood changed attitudes.

Minnesota Flood Hazard Mitigation Program began in 1989.

It provides 50% state cost share for projects that will reduce flood damages. (For large projects in small communities, the state has picked up most of the local share.)



Funding History for Minnesota's Flood Hazard Mitigation Program







Structure Acquisitions

Over 2,400 Purchased Statewide



Sherlock Park in East Grand Forks Entire neighborhood bought and moved after 1997 flood

Spring, 1





THIOL INGOINT

Minnesota



Farmstead Ring Dikes

Constructed over 225 Farm Ring Dikes



Ring Dike in Red River Valley



Minnesota Department of Natural Resources

Floodplain Management



Level of Protection

U.S. – 100 year flood elevation MN – 100 year +1 foot Netherlands Rivers with gradient – 250 yr Rivers – 1250 yr North Sea – 10,000 yr



Observations

- Money flows to disasters.
- Recovery will take longer and cost more than you estimate.
- Requiring a higher level of protection should be considered.
- Flood Hazard Mitigation is cost effective.



