

Kaycee Flood August 27th, 2002







August 27th, 2002

- An estimated four-foot wall of water swept through the Town of Kaycee, Wyoming from flooding in the Middle Fork of the Powder River. Follow up analysis indicates the event was in the range of a 100 to 200 year event. A post flood analysis by the Wyoming Emergency Management Agency performed on August 28, 2002 reported the following flood damage: 19 trailers houses, 22 houses, and 12 of Kaycee's 15 businesses. A total of 52 structures were deemed uninhabitable and a safety concern, 22 individual homes, 5 businesses, and 25 outbuildings and vacant businesses were removed for safety concerns.

August 27th, 2002

- NRCS was authorized to come in within 24 hours to assist with the elimination of the threat to life and property through the Emergency Watershed Protection Program. This request was made by the Johnson County Commissioner, Lake DeSmet Conservation District, Powder River Conservation District, and the Town of Kaycee.
 - » *17, 000+ hours of volunteer time was logged*
 - » *7362 feet of river debris was removed*
 - » *4 bridges were protected*
 - » *2443 feet of stream bank was protected*
 - » *6390 acres of hayland and pastureland was protected*
 - » *Six utilities were protected*
 - » *Total estimated benefit: \$10,073,490.00*
 - » *The benefit cost ratio for federal expenditures was 19:1*

























For sale
Cheap!

little
water
damage
not bad



What has happened since Aug 27, 2002?

- The Town of Kaycee requested planning assistance through PRCD and NRCS October 8th, 2002. PRCD requested NRCS planning assistance November 13th, 2002.
- The Town of Kaycee also requested assistance from the U.S. Army Corps of Engineers October 15, 2002.
- This is the first time the U.S. Army Corps of Engineers and the NRCS has worked together on a project.
- George Cleek told the City Council August 10th, 2004 “By bridging two agriculture entities we are able to do a much better job of developing a plan for your town.”
- LIDAR Photography of Town Completed 7/2004
- Preliminary Investigation Report Completed 8/2004

Preliminary Investigation Report

- The Preliminary Report tests for feasibility (potentially cost effective projects) in which every dollar of protection equals a dollar of prevention. This Preliminary Investigation Report contains the following information:
 - Flood frequency and flood flow amounts.
 - Flood routing at different storm frequency events.
 - Preliminary damage estimates of varying flood events.
 - Potential damage reduction benefits
 - Preliminary environmental reviews
 - Evaluation of some very preliminary alternatives that include:
 - No Action
 - Storage or retention of flood flows
 - Channel/Diversion, Clearing/Cleaning
 - Levees, Floodwall or Dikes
 - Non-Structural: Relocation or Flood Proofing

Where do we go from here?

- Ed Burton, State Conservationist with NRCS authorized the Planning Assistance for the Kaycee Flood Prevention Project Saturday August 21st, 2004 at the Kaycee Flood Fest.
- The Kaycee Flood Prevention Project, sponsored by the Town of Kaycee and the Powder River Conservation District is to provide flood protection to the 239 residents of Kaycee, their residential and commercial properties, and the community's infrastructure with the primary purpose being flood prevention.
- **The Watershed Process includes:**
 - *Scoping: The identification of the relevant issues, concerns, and opportunities we need to address in the development of this plan.*
 - *Development of Alternatives, based on the preliminary investigation, that is acceptable to the community.*
 - *Evaluation of social, economic, and environmental effects of each alternative.*
 - *Development of cost and benefits of each alternative.*
 - *Decision of sponsors as to alternatives they want to implement.*
 - *Securing the funding and building the project.*