



Communities Working Together

Water Management
and
Emergency Management

Water Resources Communities

- Water Management
 - Kansas Water Authority (KWA)
 - Kansas Water Plan
- Emergency Management
 - Commission on Emergency Planning and Response (CEPR)
 - Kansas Hazard Mitigation Plan

Flooding

- Common Concern
 - Water Management
 - Flood Control Emphasis
 - Emergency Management
 - Flood Response and Mitigation Emphasis

Kansas Water Plan

- Mandated by State Water Resources Planning Act
 - Approved by Kansas Water Authority
 - Planning and Implementation Process with Public Input
 - BACs Integral Part of Process
 - Contains Policy and Basin Sections
 - First Policy Sections Approved in 1984
 - BACs formed in 1985
 - First Basin Sections Approved in 1986

Kansas Water Plan

- Basic Policy Regarding Flooding
 - Planning Act Long Range Goal
 - “The reduction of damaging floods and of losses resulting from floods.” (K.S.A. 82a-927b)
 - Covers flood control and mitigation
 - Kansas Water Plan 2010 Objective
 - Added to KWP in 1998
 - “By 2010, reduce the vulnerability to damage from floods within identified priority communities or areas.”

Kansas Water Plan

- Policy Section History
 - 1985 Rural Flood Management
 - Land Treatment Funding
 - Watershed Construction Funding
 - Watershed Planning
 - 1985 Urban Flood Management
 - State Participation
 - Identification of Flood Hazard Areas
 - Urban Dam Construction
 - 1995 Flood Management
 - Land Use in Flood Prone Areas
 - Watershed Planning and Management

Kansas Water Plan

- Policy Section History (Continued)
 - 2005 Small Dam Safety and Rehabilitation
 - Hazard Class Change due to Development
 - Limiting Dam Owner Liability for Damages
 - Financial Assistance for Rehabilitation and Upgrades
 - 2009 Comprehensive Update
 - Policy and Institutional Framework Section
 - Summarizes Current Policy / No New Recommendations

Kansas Water Plan

- Basin Section History
 - MDC, NEO, VER, WAL Basins
- 1986 Rural Flooding
 - Priority Subwatersheds Identified
 - 1-2-3 Planning
- 1990 Flooding
 - Scope Broadened to Include Rural and Urban Flooding
 - NFIP, Stream Obstructions and County Emergency Planning
 - Priority Subwatersheds Retained

Kansas Water Plan

- Basin Section History (Continued)
 - 1994 Rural and Urban Flooding Issue Updated
 - Marais des Cygnes, Verdigris and Walnut Basins
 - Priority Subwatersheds Retained
 - 1995 Neosho Basin Flooding Subsection
 - Revised Issues
 - Watershed Planning and Management
 - Cumulative Impacts of Stream Obstruction Activities and Levees

Kansas Water Plan

- Basin Section History (Continued)
 - 1998 through 2002
 - 2010 Objectives Added in 1998
 - Annual Updates
 - Mostly Editorial
 - Priority Subwatersheds Retained

Kansas Water Plan

- Basin Section History (Continued)
 - 2003 Comprehensive FY 2005 Update
 - ID Priority Communities for Floodplain Mapping
 - Priority Subwatersheds Retained
 - Fort Scott Flooding Highlighted (MDC Basin)
 - 2009 Comprehensive Update
 - Flood Management Category
 - Applicable Programs Identified
 - Priority Subwatersheds Not Retained
 - Comprehensive Flood Assessment
 - ❖ High Priority Issue (MDC, VER and WAL)
 - ❖ Issue For Future Consideration (NEO)

Comprehensive Flood Assessment

- Recommended Actions
 - Assess Effectiveness of Existing Infrastructure
 - Clear Debris From Stream Obstructions
 - Address Dam Repair and Maintenance Needs
 - Promote NFIP Participation
 - Integrate with Floodplain and Riparian Programs
 - Minimize Government Purchase of Repetitive Loss Properties
 - Prevent Inappropriate Re-development of Repetitive Loss Properties
 - Consider Non-Structural Flood Control Methods
 - Ensure Emergency Plans Prepared for All High Hazard Dams
 - Complete Dam Breach Zone Mapping
 - Consider Additional Evaluation of Stream Obstructions in Problem Areas
 - Evaluate Flood Damages Against Cost of Watershed-Based Permitting
 - Coordinate with Counties on All Hazard Mitigation Plans

Kansas Hazard Mitigation Plan

- Federal Authority
 - Stafford Act of 1968
 - Disaster Mitigation Act of 2000
 - Needed for Hazard Mitigation Grant Program Eligibility
 - Three-year Update Cycle
- 2007 KHMP Update
 - Prepared by Kansas Hazard Mitigation Team
 - Includes Risk Assessment, Mitigation Strategy and Coordination of Local Planning Sections
 - Approved by Adjutant General

Kansas Hazard Mitigation Plan

- Risk Assessment
 - 22 Hazards Assessed
 - #2 Flooding (Winter Storm)
 - #16 Dam and Levee Failure
- Mitigation Strategy
 - 18 Flood / Dam Failure Actions

Recommended Actions

- Mitigation Plan Flood and Dam / Levee Failure
 - Provide Automatic Weather Stations
 - Rehabilitate and Repair Deficient Dams
 - Enforce/assist with Preparing Emergency Plans for High / Significant Hazard Dams
 - Develop Inundation Maps for High Hazard Dams
 - Document / Promote Participation in the NFIP, including the Community Rating System
 - Focus NFIP and CRS Outreach Efforts to Priority Areas
 - Continue Support for Floodplain Mapping Studies
 - Mitigate Repetitive Flood Loss and Severe Repetitive Flood Loss Structures
 - Complete Local Mitigation Plans
 - Improve Coordination with the Kansas Water Plan
 - Identify Priority Flood Issues in KWP Basin Sections
 - Include Flood Hazard Vulnerability in Pilot Multi-Hazard Assessment (Geary County)
 - Develop Model Local Ordinance for Regulating Dam Breach Inundation Zones

Recommended Actions

- Common Themes Between Plans
 - Flood Hazard Vulnerability Assessment
 - Promoting of NFIP Participation
 - Mitigation of Repetitive Loss Properties
 - Local Mitigation Planning
 - Dam Repair and Upgrade
 - Breach Inundation Zone Mapping
 - Dam Emergency Action Plans

Benefits of Working Together

- Increased Awareness in Both Communities
 - Build on Common Themes
 - Reduce Duplication of Effort
 - Reduce Conflict
 - Leverage Proposals
 - Reduce Cost
- Take Advantage of Water Planning and Implementation Process (EM Community)
- Access to More Funding Sources (WM Community)



Thank You