A New Water Plan for Oklahoma

Water Infrastructure Inventory

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Water Infrastructure Inventory

Oklahoma Water Plan
Public Water Supply Assessment

- A cooperative venture between Oklahoma’s Regional Councils of Government and the Oklahoma Water Resources Board.
- Part of the Oklahoma Water Plan Update (due 2011).
- Assess the capacity and condition of Oklahoma’s water systems to create system-level improvement plans/projects
GeoCIP

- Geographic Information Systems (Geo)
- Capital Improvement Planning (CIP)

Substate Planning Districts
What is GeoCIP©?

- GeoCIP© is a standardized process for creating a GIS based inventory of community assets to be used in annually evaluating asset conditions, setting improvement priorities for those assets & update the community capital budget.
Community Benefits

- Comprehensive digital maps of assets
- Detailed attribute data of assets
- Capital Needs & Budget based on real data
- Decision makers & staff can be involved in process
- Data files easily updated in ArcView and/or Excel
Why?

State Capital Improvement Planning Act: 1992 (House Bill 2375)

- “There is hereby created a Long-Range Capital Planning Commission to advise & assist the Legislature in providing for capital facilities in this state.” “The Commission shall prepare each year a state capital plan for addressing state, regional & local public capital facility needs...”
- The Oklahoma Legislature asked the Oklahoma Department of Commerce to provide it with a statewide capital improvement plan based on regional plans.
  - ODOC funded community CIP grants to aide local government in developing GIS-based inventories of capital assets summarized at the Substate level for regional reports.
Anatomy

- General Guidance
  - Computer Forms
  - Field Form Instructions
- Administration
  - Buildings & Facilities/Equipment
- Field Forms
  - Administration, Public Safety
  - Analysis & Summary
  - Transportation
  - Storm Drainage
  - Water & Sewer
- Public Safety
  - Fire
  - Homeland Security
- Properties
  - Areas, Buildings & Facilities
  - Equipment & Rolling Stock
- Transportation
  - Streets, Bridges
  - Equipment & Rolling Stock
- Utilities
  - Water
    - Sewer
    - Storm Drainage
- Analysis
  - Capital Project Summary
  - Total Capital Needs Summary
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- Utilize GeoCIP to assess Oklahoma’s rural water systems (utilize OWRB Rural Water Survey data)
- Expand effort to include CIP communities
Toolkit...

- Field Forms
- General Guidance
- Raw Water Lines
- Distribution Lines
- Water Sources
- Water Towers
- Pump Stations
- Connections/Shut Off Valves
Steps...

- Inventory Assets
- Gather Existing Maps
- Compile Draft Map
- Digitize Maps
- Collect Detailed Attribute Data
- Input Data into GIS platform
- Create GIS Layers
- Quality Control
- Agency Review
- Add to State Database
The OCWP Water System Database will leverage information from several existing databases:
- Department of Commerce – GeoCIP
- DEQ – Safe Drinking Water Information System (SDWIS)
- OWRB – Water Rights, Water Quality, and Well Logs

Collaboration between State Agencies to share data and reduce duplication of effort.
Water System Database

- Combination of Several Existing Databases
- Multi-Agency Effort
  - Association of Regional Councils
  - Department of Commerce
  - Department of Environmental Quality
  - Water Resources Board
- Data for Over 800 Communities and Rural Water Systems
- Serving over 3.4 Million People
Partners...

- OWRB
- Oklahoma Water Resources Research Institute
- Oklahoma Rural Water Association
- Oklahoma Municipal League
- Oklahoma Dept. of Commerce
- Oklahoma Dept. of Environmental Quality
- USDA-Rural Development
- Natural Resources Conservation Service
- Substate Planning Districts
More to Come...

- **Field Verification**
  - GPS
  - 1 meter accuracy

- **Annual Process**
  - Update Maps & Attributes
  - Revise Needs & Budget

- **Enhancements**
  - DOQ’s
  - Additional Layers

- **Metadata**
  - Common Information
  - Specific Information