

Plum Creek Reservoir  
Water for a Better Tomorrow

Kickapoo Tribe in Kansas

January 13, 2003

# Presentation

- Background
- Recent Events
- Plum Creek Reservoir Plan
- Important Issues
- Land Acquisition

# Background

- 1977 Low water impoundment dam constructed
  - 1979: Water Plant and distribution system completed.
  - Temporary Solution
  - Serve the Tribe's short-term needs until a reservoir could be built.



# Background

- 1981 Water Resources Investigation report
  - Identifies 5 potential sites for multi-purpose reservoir.
  - No engineering, geological, or technical studies made.
  - Source: primarily from the 1978 General Plan

# Background

- 1983 Kickapoo Tribe and Nemaha-Brown Watershed Board co-sponsors of a Public Law 566 application.
  - BIA Funding received for planning.
  - PL 566 planning authorized by USDA in 1991

# Background

- Public Law 86-566, The Watershed Protection and Flood Prevention Act of 1954 (Small Watershed Program)
  - Authorizes the Secretary of Agriculture to provide technical and financial assistance to local sponsors for planning and carrying out watershed projects. These watershed projects are for flood protection of agricultural lands and rural infrastructure, watershed land treatment, water quality, and agricultural water management.
  - Natural Resource Conservation Service (NRCS)

# Background

- 1994 Upper Delaware and Tributaries Watershed Plan
  - Joint effort – Tribal, Local, and Federal
  - 21 projects (20 non-tribal, 1 tribal)
  - Overriding purpose: Water supply for Tribe
  - KEY: Local sponsor with eminent domain
    - Nemaha-Brown Watershed Board

# Background

- 1998 Congress approves the Upper Delaware and Tributaries Watershed Plan.
  - BIA Funding key to approval



# RECENT EVENTS

Kickapoo Tribe in Kansas

# Recent Events

- 2000
  - Critical Water Shortage
  - Tribe installs temporary flashboards to increase the height of low water impoundment.



# Background

- 2003
  - 20 of 21 projects completed within watershed.
  - Watershed Board refuses to assert eminent domain authority on behalf of tribe.
  - Frequent Critical Water Shortages

# Recent Events

- July 17, 2003
  - Kickapoo Tribe initiates Mandatory Water Conservation Measures in response to water shortage.
    - Tribal Facilities on bottled water and sanitation only
    - No outside watering – lawns & gardens
    - Casino
      - Paper products only
      - Adjustment of sanitation processes

# Recent Events

- August 25, 2003
  - Emergency Water Transportation Project
    - BIA: \$187,000
    - 90 days @ 72,000 gal/day
    - City of Sabetha identified as source to supplement Tribal Water Plant.

# Recent Events

## – Water Transportation Problems

- Mixing Problems

- Kickapoo Water Plant
- Sabetha
- Holton
- Atchinson

- Daily Need Increased

- Reason: Water Plant offline
- Result: 72,000 → 90,000 to 120,000 gallons per day



Kickapoo Water Plant – August 27, 2003



Kickapoo Water Plant - August 27, 2003

# Recent Events

- Maintenance / Flushing of Dam
  - September 25, 2003
  - Performed by Water Plant staff.
  - Maintenance activities
  - 2 years since last action.







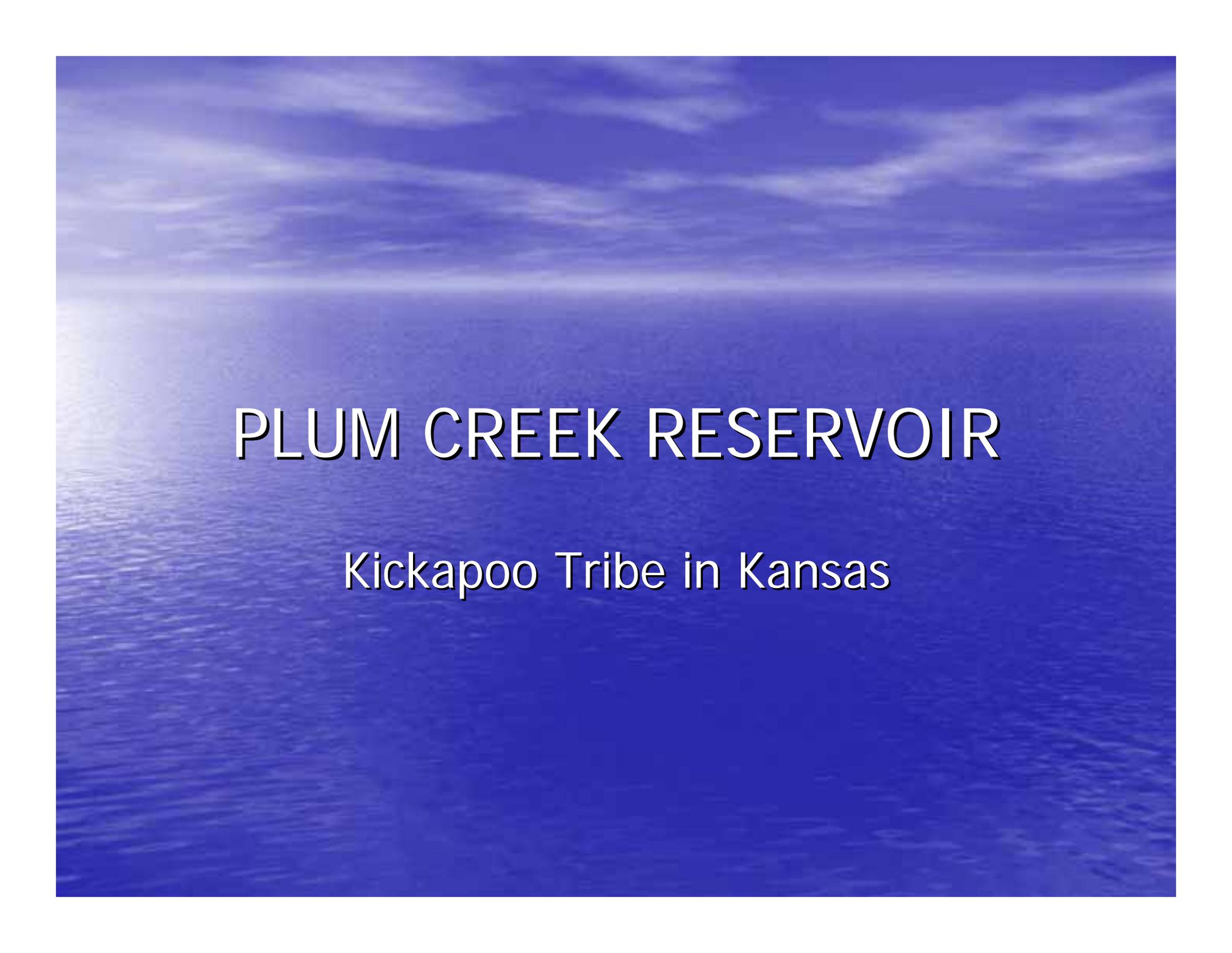
# Recent Events

- Clarifier Repairs
  - EPA Set-aside funds
  - Work began Oct. 20, 2003
  - Approx. 4 weeks
  - Timing Issue





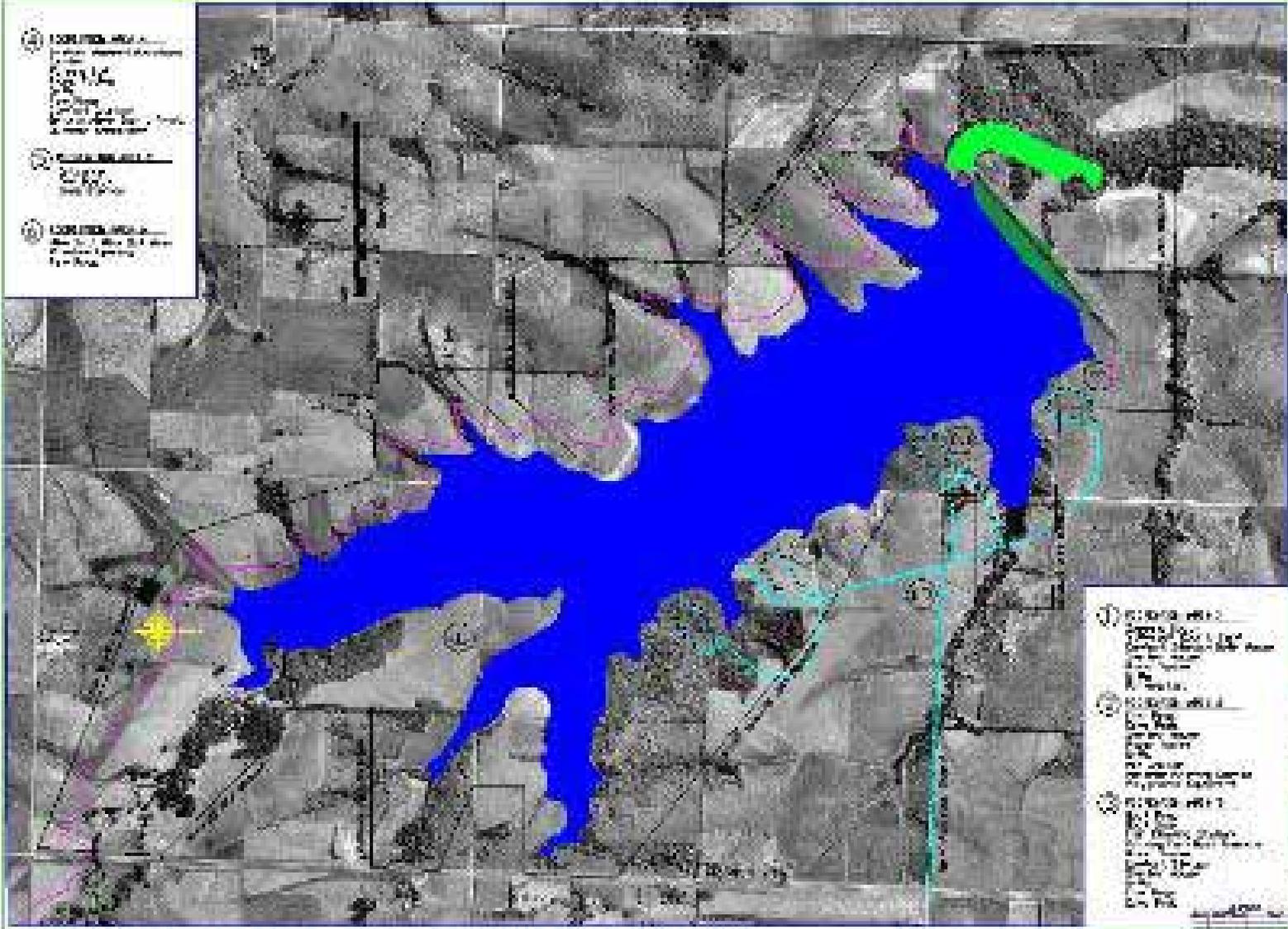
Kickapoo Water Plant – October 24, 2003



# PLUM CREEK RESERVOIR

Kickapoo Tribe in Kansas

- ④ **LOCALITY AREA**
  - 1. Local Interest Area
  - 2. Local
  - 3. Local
  - 4. Local
  - 5. Local
  - 6. Local
  - 7. Local
  - 8. Local
  - 9. Local
  - 10. Local
- ⑤ **LOCALITY AREA**
  - 1. Local
  - 2. Local
  - 3. Local
  - 4. Local
  - 5. Local
  - 6. Local
  - 7. Local
  - 8. Local
  - 9. Local
  - 10. Local
- ⑥ **LOCALITY AREA**
  - 1. Local
  - 2. Local
  - 3. Local
  - 4. Local
  - 5. Local
  - 6. Local
  - 7. Local
  - 8. Local
  - 9. Local
  - 10. Local



- ① **LOCALITY AREA**
  - 1. Local
  - 2. Local
  - 3. Local
  - 4. Local
  - 5. Local
  - 6. Local
  - 7. Local
  - 8. Local
  - 9. Local
  - 10. Local
- ② **LOCALITY AREA**
  - 1. Local
  - 2. Local
  - 3. Local
  - 4. Local
  - 5. Local
  - 6. Local
  - 7. Local
  - 8. Local
  - 9. Local
  - 10. Local
- ③ **LOCALITY AREA**
  - 1. Local
  - 2. Local
  - 3. Local
  - 4. Local
  - 5. Local
  - 6. Local
  - 7. Local
  - 8. Local
  - 9. Local
  - 10. Local

**ONRCS**  
OCEANIC NATURE RESERVE CENTER

**FLORIDA WETLAND BANK AND RESTORATION FOR THE HONOLULU PEOPLE'S COMMUNITY**  
January 2007

Scale	1:50,000
North Arrow	True North
Map Date	January 2007
Map Author	ONRCS
Map Reviewer	ONRCS

# Plum Creek Reservoir Plan

- Plum Creek Multi-Purpose Structure
  - Flood Control 39.4%
  - Municipal & Individual Water 57.1%
  - Recreation 3.5%
  - 100%
- Compare to Banner Creek
  - Flood Control 36.7%
  - Recreation 44.4%
  - Agricultural Water 6.3%
  - Municipal & Individual Water 12.6%
  - 100%

# Plum Creek Reservoir

- Kickapoo Tribe will be responsible for operation and maintenance of the dam after completion

# Estimated Costs

## Land Rights

1288 acres real property

**\$1,462,500**

Engineering,  
Soils, permits

\$ 875,000

Construction (66/34)

\$3,165,000

General development costs

## Water Distribution System

**\$1,400,000**

=====

## TOTAL BUDGET

**\$6,902,500**

## Kickapoo Tribe's Responsibility

**\$4,951,400**

# Size of Development

- Permanent surface water pool – 475 acres
- Permanent surface water pool with dam/spillway – 770 acres.
- Potential recreational improvement/facilities – 485 acres.
- Total project area – approximately 1200 acres

# Benefits of Plum Creek

- Water Supply
  - Reliable and Improved water supply
  - Over 1,000,000 gal/day
- Flood Control
  - Cropland, Stream bank stabilization, Road
- Recreation / Economic Development



# Land Acquisition

Multi-Purpose Reservoir  
Plum Creek  
Site 21-14

# Initial Steps

- Identification of Owners/Land Descriptions
- Obtained Title Certifications
- Obtained Appraisal Information
- Obtained IRS information regarding condemnation

# Land Acquisition

- Actions Taken
  - Identified ownership
  - Determined land descriptions
  - Obtained Title Certificates
  - Requested Appraisal Information
  - Obtained IRS Information regarding condemnations

# Land Acquisition

- 05/12/03 – General Information Letters to Landowners
- 05/23/03 – 1<sup>st</sup> Contact with Landowner – (Exchange)
- 07/24/03 – Nemaha Brown Watershed Board Meeting
- 08/04/03 – Emergency Water Planning Meetings
- 08/18/03 – Nemaha Brown Watershed Board to view Water Plant
- 08/29/03 – Transporting of Water Begins
- 11/25/03 – End to Transporting of Water
- 12/09/03 – Tax Information Letter to Landowners

# LANDOWNER SESSIONS

- 9 of 12 major owners contacted
- Clarify misunderstandings (Funding Source - Tribe)
- Offer options (Replacement/Exchange)
- Eminent Domain
- News Articles – Pro & Con
- **Does not affect homesites**

# Current Land Usage of Plum Creek Area

