

# **Northern Great Plains Inventory & Monitoring Program**

**Development  
of a  
“Vital Signs”  
Monitoring  
Plan**



# ***NATIONAL PARKS OMNIBUS MANAGEMENT ACT OF 1998***

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***The Secretary shall undertake a program of inventory and monitoring of National Park System resources to establish baseline information and to provide information on the long-term trends in the condition of National Park System resources. The monitoring program shall be developed in cooperation with other Federal monitoring and information collection efforts to ensure a cost-effective approach.***

***The trend in the condition of resources of the National Park System shall be a significant factor in the annual performance evaluation of each superintendent of a unit of the National Park System.***

# National Park Service I&M Networks



# 12 Basic Inventory Datasets

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**Natural resource bibliography**

**Base cartographic data**

**Geology map**

**Soils map**

**Weather data**

**Air quality**

**Location of air quality monitoring stations**

**Water body location and classification**

**Water quality data**

**Vegetation map**

**Species list of vertebrates and vascular plants**

**Species distribution and status of vertebrates and vascular plants of high priority to each park**



*Integrate data sets and make them more available to managers using GIS data browser.*



# The National Park Service Inventory and Monitoring

[Browse the Database](#)

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## NatureBib



A photograph of a stream in a wooded area. The stream is partially frozen with snow and ice. A large, corrugated metal pipe lies on the bank. A dog is walking on the bank. The background shows bare trees and a hillside. The text "Northern Great Plains Network Biological Inventories" is overlaid in yellow.

# Northern Great Plains Network Biological Inventories

1 23 '02



## Completed Projects

- Expected plant list by C. Reed (\$2k)
- Literature search by G. Hupton (\$3k)
- Sample design by G. Sargeant (\$2k)
- Fish Inventory by Dr. Bob White of Montana State U. (\$13k) for DETO, FOLA, MORU, SCBL, and WICA



## Current Network Field Inventories

- Herpetofauna - Ongoing by Dr. Smith of U. WY and Black Hills State
- Mammals - Ongoing by Dr. Schmidt thru U.S. Forest Service (& D. Licht)
- Birds - Ongoing by Arvind Panjabi of Rocky Mountain Bird Observatory

# Other Ongoing Projects



- Search of museums for vertebrate specimens collected from NGP Network parks
  - Principle Investigator is Dr. Hugh Genoways. Being conducted by graduate students.
  - Year 1 of 2-year project. Cost is \$10k plus CESU contribution



# Other Ongoing Projects (continued)



- Search of USD herbarium for plant specimens collected from NGP Network parks
  - Sandee Dingman conducted pilot effort
  - In collaboration with Heartlands I&M Network
  - 13% of herbarium reviewed
  - 331 vouchers with possible NPS relevance (most at BADL or MNRR)

# Vouchers



- Last spring the Voucher Committee prepared letter soliciting bids from U. of Nebraska, U. of Kansas, and U. of Minn.
- Received \$5,020 bid from U. of Minn.
- U. of Nebraska declined to bid
- U. of Kansas not part of CESU
- No Final Decision made

# 2002 Expenditures



- 48% went to agreements for field work
- 39% went to Network personnel
- 12% went to operations/administration/etc.
- 2% went to travel

# Personnel for FY2002

Dan Licht - Inventory Coordinator (0.7 FTE)

Dawn Holguin - Tech

John Dalglish - Tech

Will Powers - Tech



**FY02**





**“VITAL SIGNS”  
MONITORING PHASE**

**STILL NO MONEY FOR US!!!**