

Northern Great Plains Inventory and Monitoring (I&M) Program

Annual Meeting

January 14-15, 2004

Rapid City SD



NATIONAL PARKS OMNIBUS MANAGEMENT ACT OF 1998

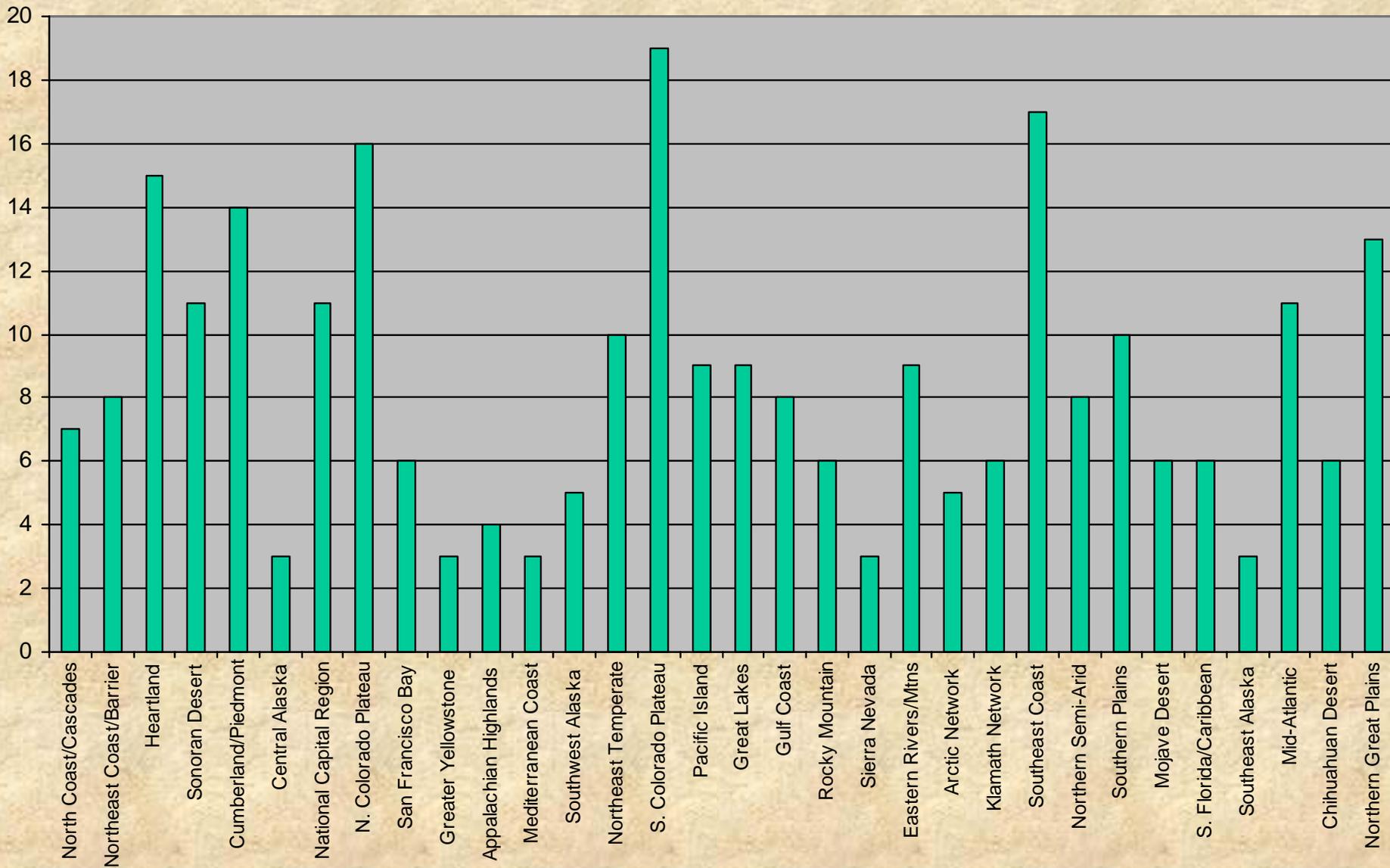
The Secretary shall undertake a program of inventory and monitoring of National Park System resources to establish baseline information and to provide information on the long-term trends in the condition of National Park System resources. The monitoring program shall be developed in cooperation with 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.

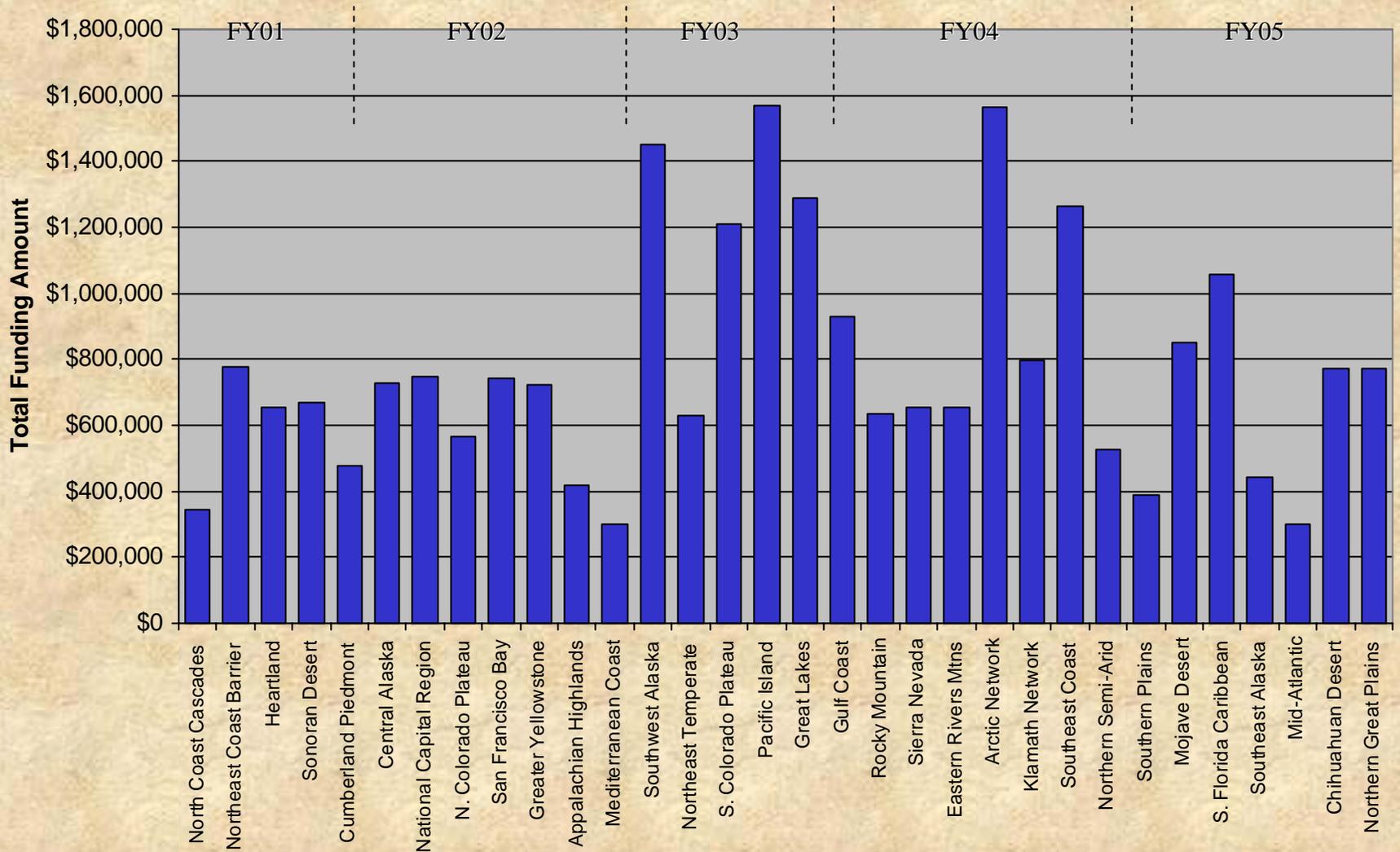
National Park Service I&M Networks



of Parks in Each Network

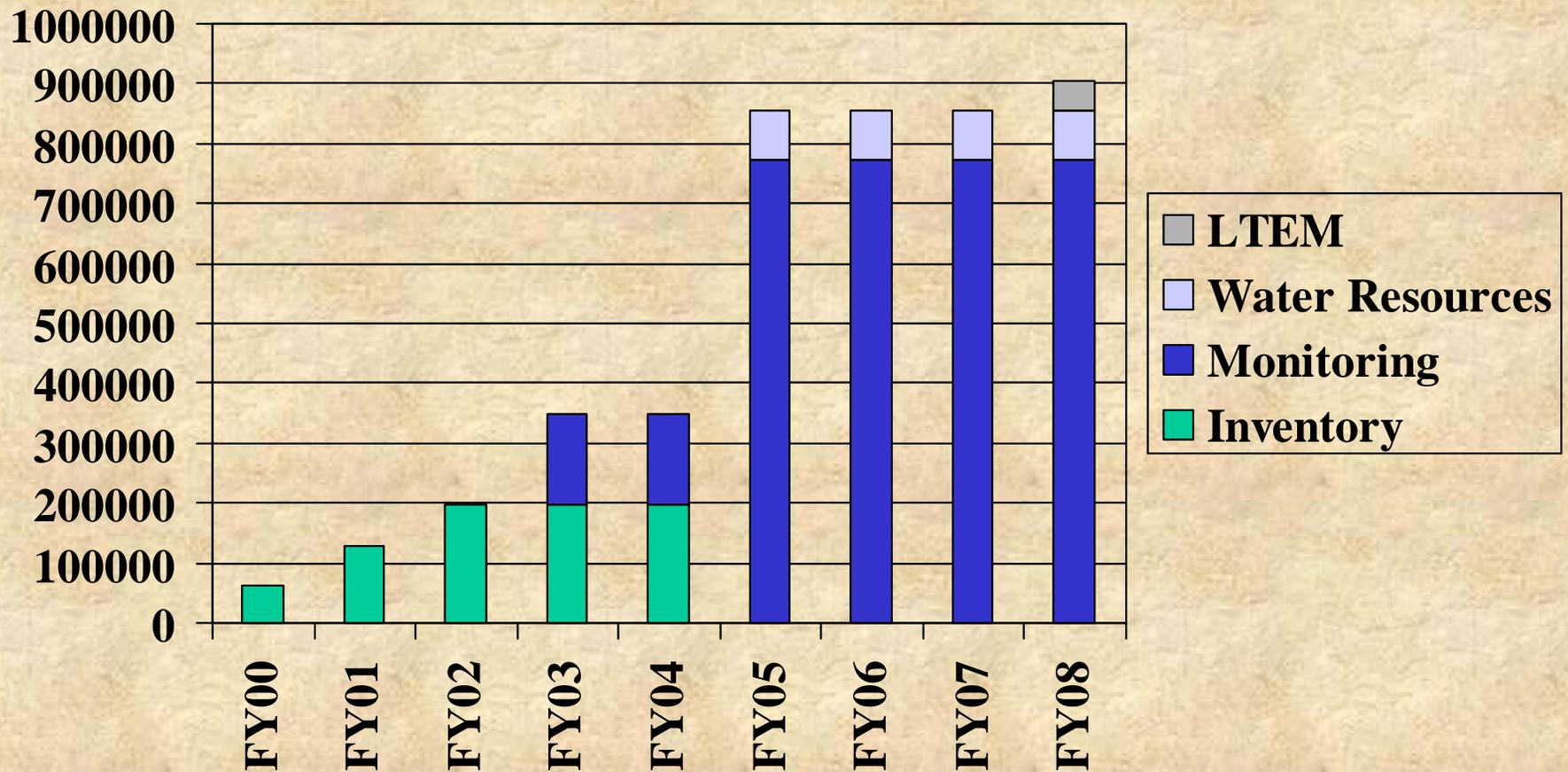


Network Vital Signs Funding Allocation and Year Scheduled for Full Funding



Note – NGPN does not include funds from Prairie Cluster LTEM. Amounts do not include water quality funds.

Funding Chronology and Amounts for NGPN



Baseline Inventories Status as of Today

12 Basic Inventory Datasets

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.

NatureBib

- **NatureBib is a merging of air, deer, geology, paleontology, and other literature databases**
- **Will be linked to NPSpecies and the Water Resources bibliography**
- **Online (to NPS employees only) and local MS Access versions available**
- **Not a catalog**
- **Contact is Wendy Schumacher**

Base Cartography Inventory

- **Completed for all 13 parks**
- **Includes boundaries, transportation network, and other features**
- **Available online at:**
<http://science.nature.nps.gov/nrftp/>



Status of Geologic Inventories in NGPN

	Scoped	Scoping Date	Scoping Summary Completed	Digital Geologic Map Status
AGFO	yes	3/3/2003	yes	needed
BADL	yes	6/11-12/2002	in-progress	in-progress
DETO	yes	6/10/2002	in-progress	needed
FOLA	yes	3/3/2003	yes	needed
FOUS	no	N / A		unknown
JECA	yes	6/10/2002	in-progress	needed
KNRI	no	N / A		unknown
MNRR	no	N / A		unknown
MORU	yes	6/11/2002	in-progress	needed
NIOB	no	N / A		unknown
SCBL	yes	3/3-4/2003	yes	needed
THRO	yes	6/10/2002	in-progress	complete
WICA	yes	6/10/2002	in-progress	needed

Soils Map Status

- AGFO, JECA, MORU, SCBL, WICA, MORU have maps meeting NPS needs;
 - however may revisit AGFO and SCBL
 - JECA, MORU, and WICA may need updating to new soil system
- BADL originally considered complete but maps not joining properly - may require scoping session this summer
- DETO map may be out of date

Weather Data Inventory



- **Inventory considered to be done by the National Weather Service and available from the National Climate Data Center and at: <http://science.nature.nps.gov/nrftp/>**



Air Quality

- **Completed for all I&M parks.**
- **Products include real data and information on monitoring stations, estimated values and interactive map, web cams and other neat products.**
- **Is available online.**

View Of Painted Canyon, Theodore Roosevelt National Park



View Of Painted Canyon, Theodore Roosevelt National Park

Picture Last Updated: 1/8/2004 8:47 AM MST

Current Conditions

as of 1/8/2004 8:00 AM MST

OZONE

Current 8-hour average ozone concentration (ppb)

25



- * At or above 85ppb for 8 hours, children, the elderly, and people with respiratory problems should reduce outdoor activity.
- ** At or above 105ppb for 8 hours, all people should reduce outdoor activity.

Current 1-hour average ozone concentration (ppb)

17

Today's maximum 8-hour average ozone concentration (ppb)

27

Today's maximum 1-hour average ozone concentration

30

Yesterday's maximum 8-hour average ozone concentration (ppb)

32

Yesterday's maximum 1-hour average ozone concentration

35

PARTICULATE MATTER

Current 24-hour average PM-2.5 concentration (ug/m3)

5.3

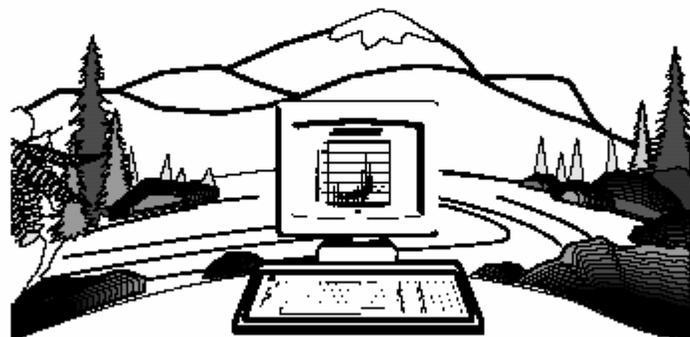
Water Quality Data

- **All NGPN parks have completed Baseline Water Quality Data Inventory and Analysis Report (aka “Horizon Report”)**
- **Level 1 inventories were conducted at KNRI (1999), SCBL (2000), and MORU (2001)**

BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

**Agate Fossil Beds
National Monument**

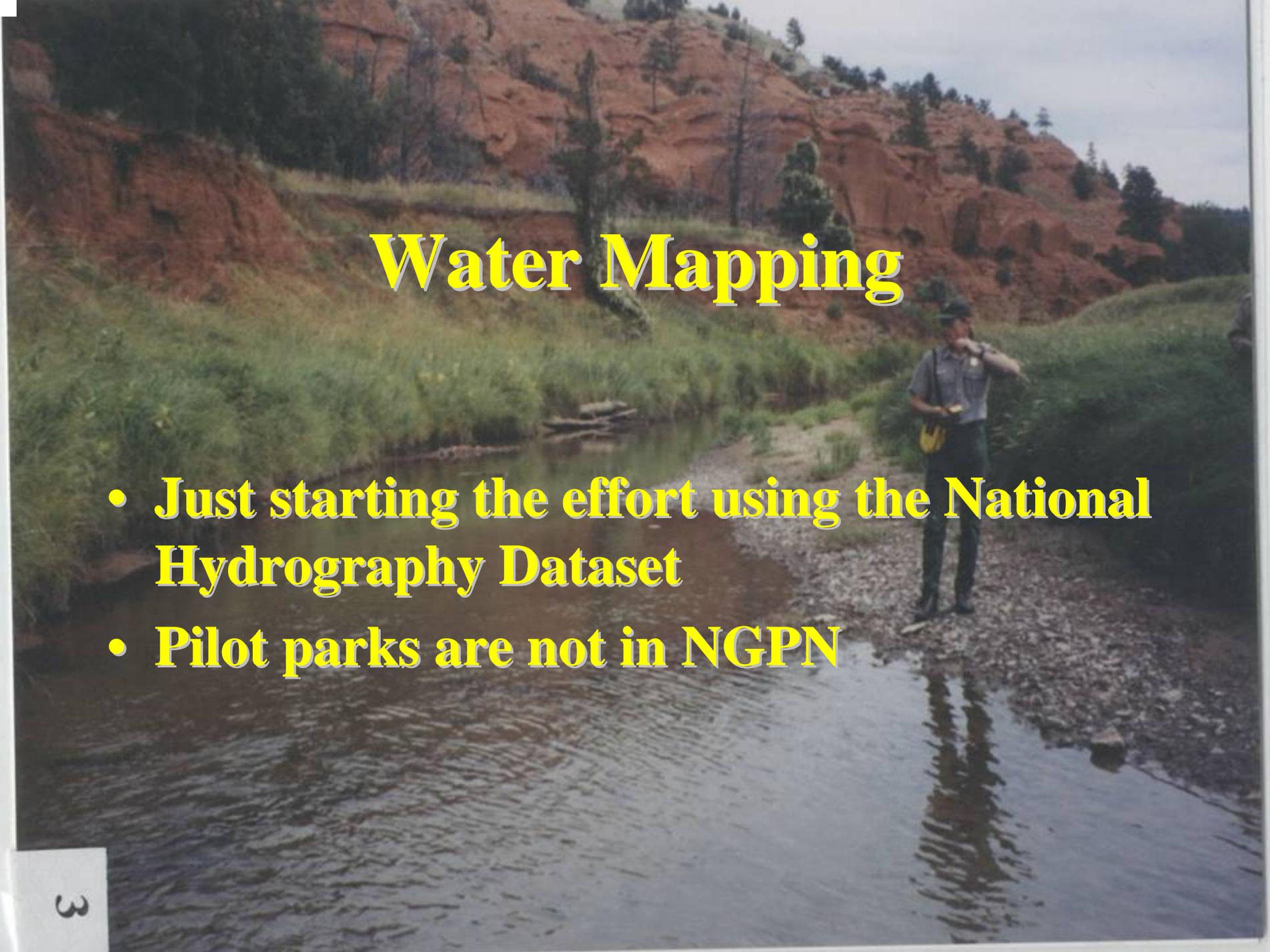


**WATER RESOURCES DIVISION AND
SERVICEWIDE INVENTORY AND
MONITORING PROGRAM**



*national water center - department of the interior
rest nation - water - technology*

Water Mapping

A photograph of a person standing on a rocky riverbank next to a stream. The person is wearing a light-colored shirt, dark pants, and a cap, and is holding a yellow bag. The background features a red rock cliff with sparse vegetation. The text 'Water Mapping' is overlaid in yellow on the image.

- **Just starting the effort using the National Hydrography Dataset**
- **Pilot parks are not in NGPN**

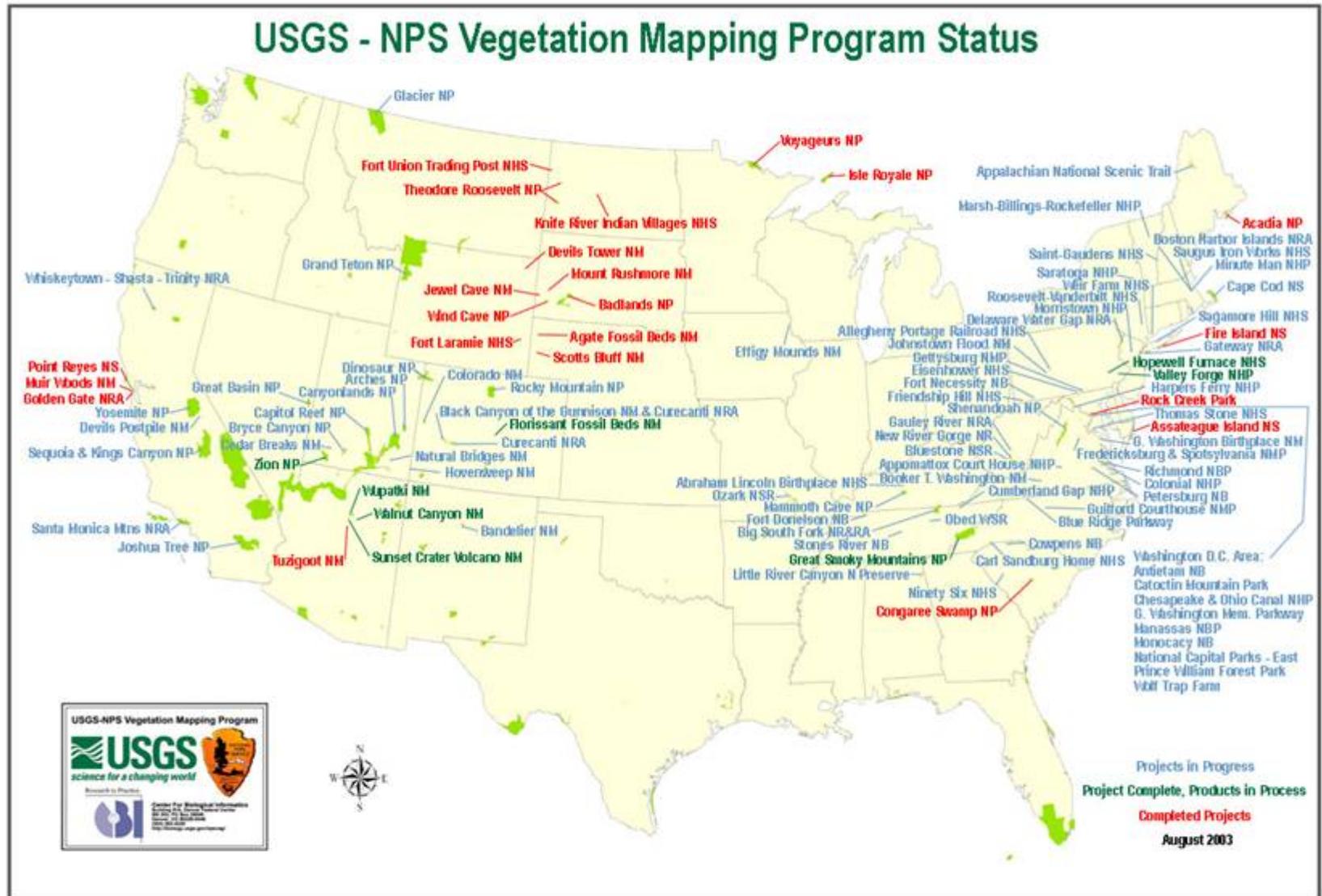
Vegetation Mapping - Products



- Aerial photography
- Field Data
- Classification Report (Description and Key)
- Accuracy Report
- Vegetation Map Data (digital)

Present Status

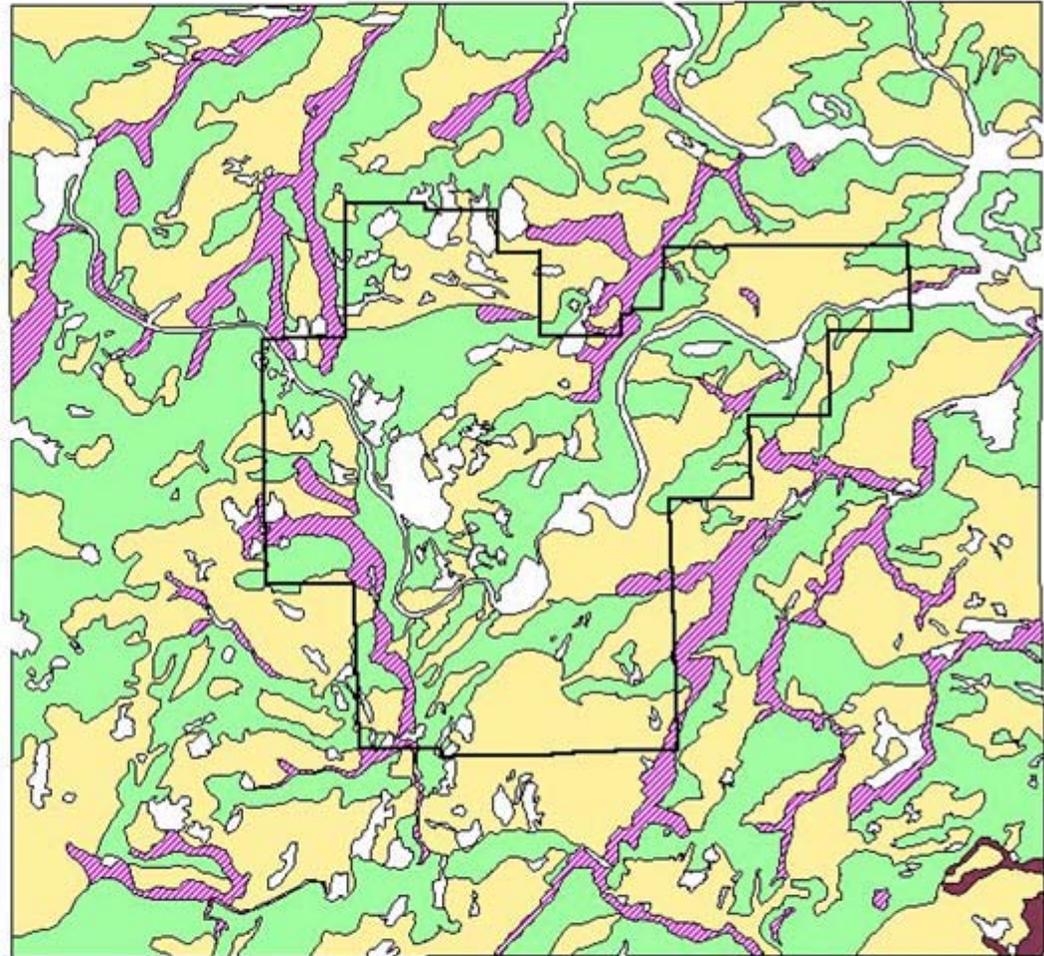
USGS - NPS Vegetation Mapping Program Status



Mt. Rushmore National Memorial Vegetation / Land Use

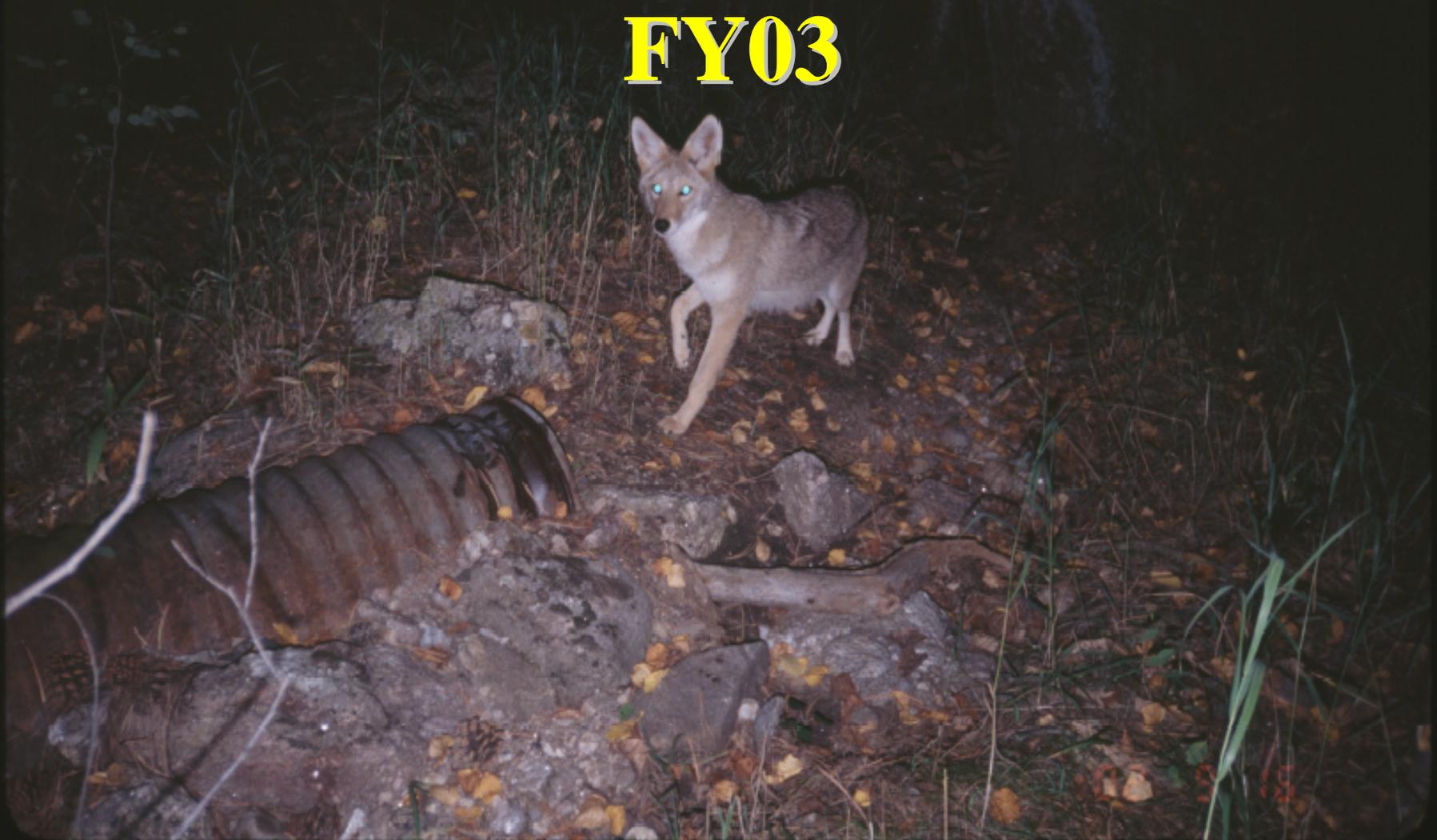
∩ Mt. Rushmore National Memorial Boundary

- Bur Oak / Ironwood Forest
- Ponderosa Pine I
- Ponderosa Pine II
- Ponderosa Pine / Juniper Woodland
- Unvegetated Land Use



Northern Great Plains Network Biological Inventories

FY03





Current Network Field Inventories

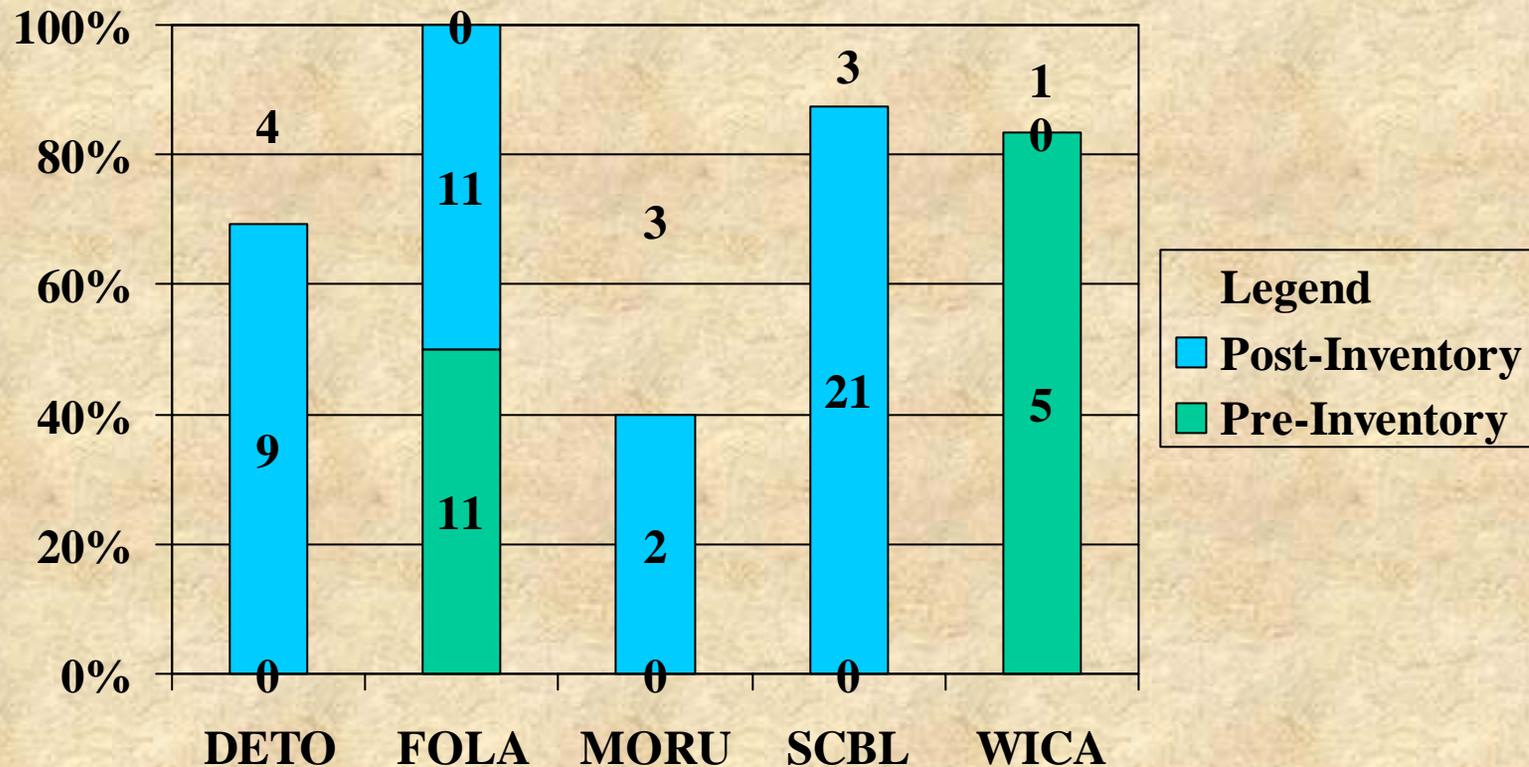
- Herpetofauna - Ongoing by Dr. Beauvais of U. WY and Dr. Smith of Black Hills State
- Mammals - Ongoing by Dr. Schmidt thru U.S. Forest Service (& D. Licht)
- Birds - Ongoing by Arvind Panjabi of Rocky Mountain Bird Observatory
- Plants – Ongoing by Bonnie Heidel of WY Natural Heritage at FOLA and Dr. Carolyn Godfread at FOUS

Annual Reports



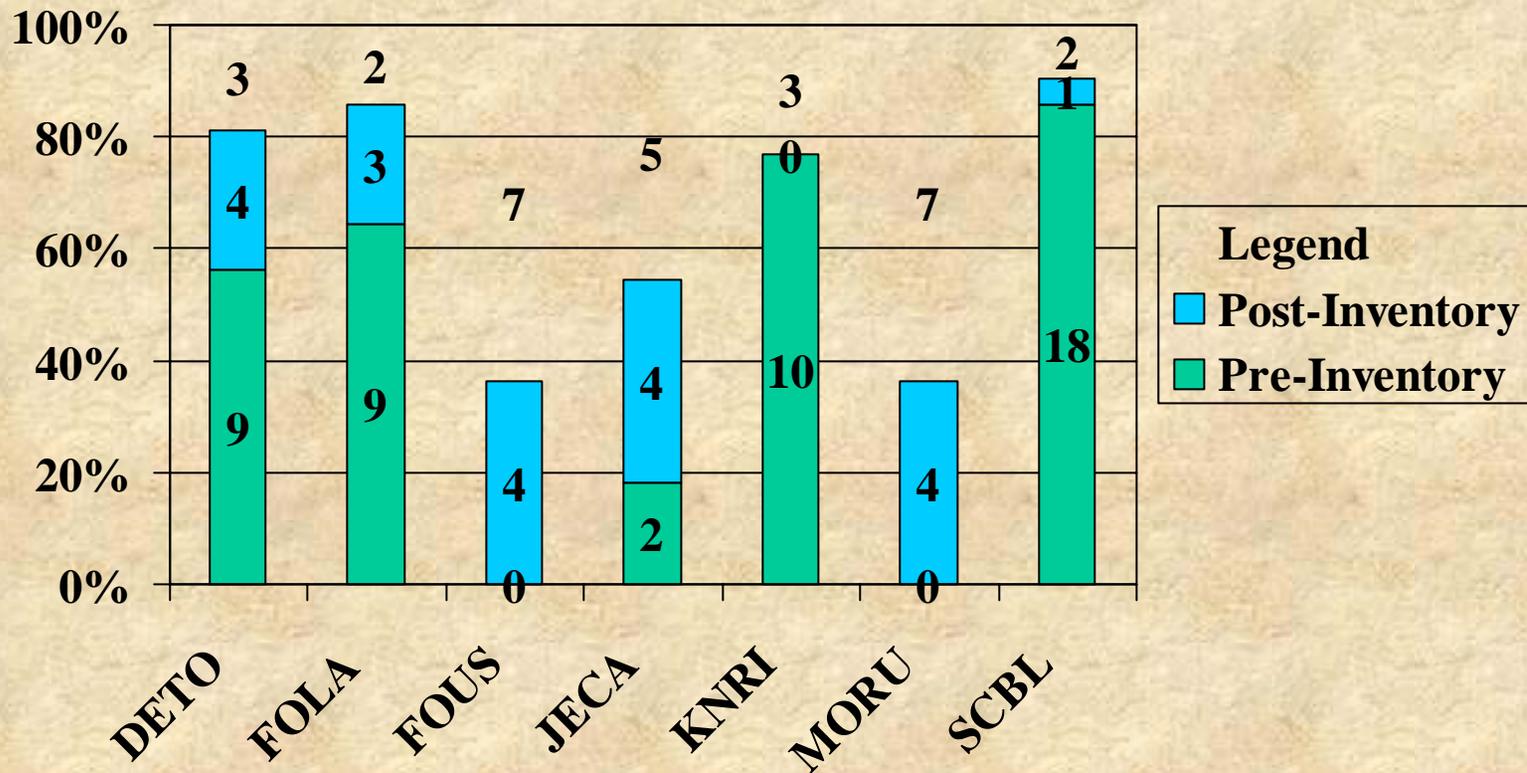
- Progress reports received for all inventories except plant inventory at FOUS. They've been distributed to Tech Committee rep
- Marcia and I will work with Investigators to assure that these get entered into IAR

Documentation of Fish at Inventoried Parks



* WICA was targeted for the plains topminnow (a state and global species of concern). FOLA had 10 documented species that were confirmed and WICA confirmed the 5 known species.

Documentation of Reptiles and Amphibians at Inventoried Parks



Note – MNRR and NIOB not yet completed. DETO had 3 documented species that were confirmed in the recent inventory, FOLA had 6, KNRI had 5, and SCBL 9

Other Projects Funded in FY03

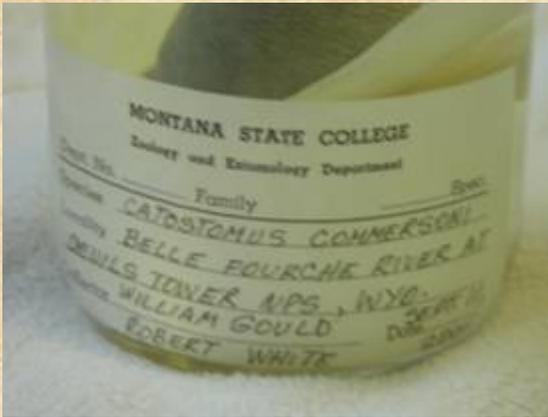


- Contributed \$10k to a rare plant study at Badlands NP.
- Contributed \$10k to conduct herp inventory at Niobrara NSR.
- Contributed about \$7.5 to a mammal and plant study at Theodore Roosevelt NP. Will identify a \$2.5k project for FY04.

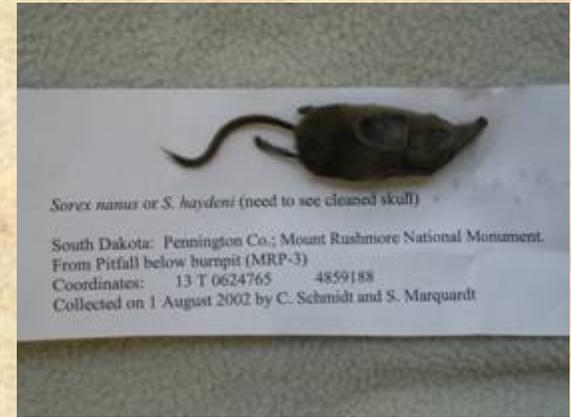


Other Ongoing Projects

- Search of U. of South Dakota herbarium for plant specimens collected from NGP Network parks
 - Katie Solberg is STEP hire doing the work
 - Final report expected in late January of 2004
 - Over 1,000 vouchers identified as coming from vicinity of parks
 - Funding contributed by the Yellowstone, Northern Colorado, and Southern Colorado Networks



Vouchers



- Developed a \$5,020 CESU agreement with the Bell Museum at the U. of Minnesota to be repository for voucher specimens
- Delivered over 100 specimens in summer of 2003
- Still need to deliver FOUS and JECA mammal vouchers



Other Activities



- Conducted “data mining” visits at numerous parks as part of Vital Signs scoping meetings
- Continued to populate, edit, and review NPSpecies database
- Scanned several hundred documents

Picture Form

ID: 238

Photograph Name BADL_xx_2001-11-01_XXXX_001.JPG

Subject Information

Scientific Name
Antilocapra americana

Time Information

Date (mm/dd/yyyy) 11/1/2001
Time (24 hour clock)

Ownership and Storage Information

Copyright Owner Daniel Licht
NPS Usage Rights Non commercial use only

Main Switchboard



Picture Database 2003

- Data Entry
- Data Browsing and Editing
- Equipment Administration
- Database Administration
- Queries

Version 1. Developed by the Northern Great Plains Inventory and Monitoring Network of the National Park Service. Contact Dan Licht for more information.

Person(s) In Photo
(separate by commas)

Camera Station ID#

Park Code BADL

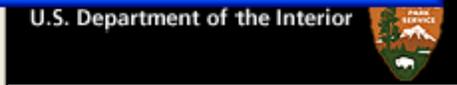
UTM Northing
UTM Zone Accuracy (m) Camera angle

General Location Just north of Badlands Loop Road.

Study Name

Study Name

Close Form

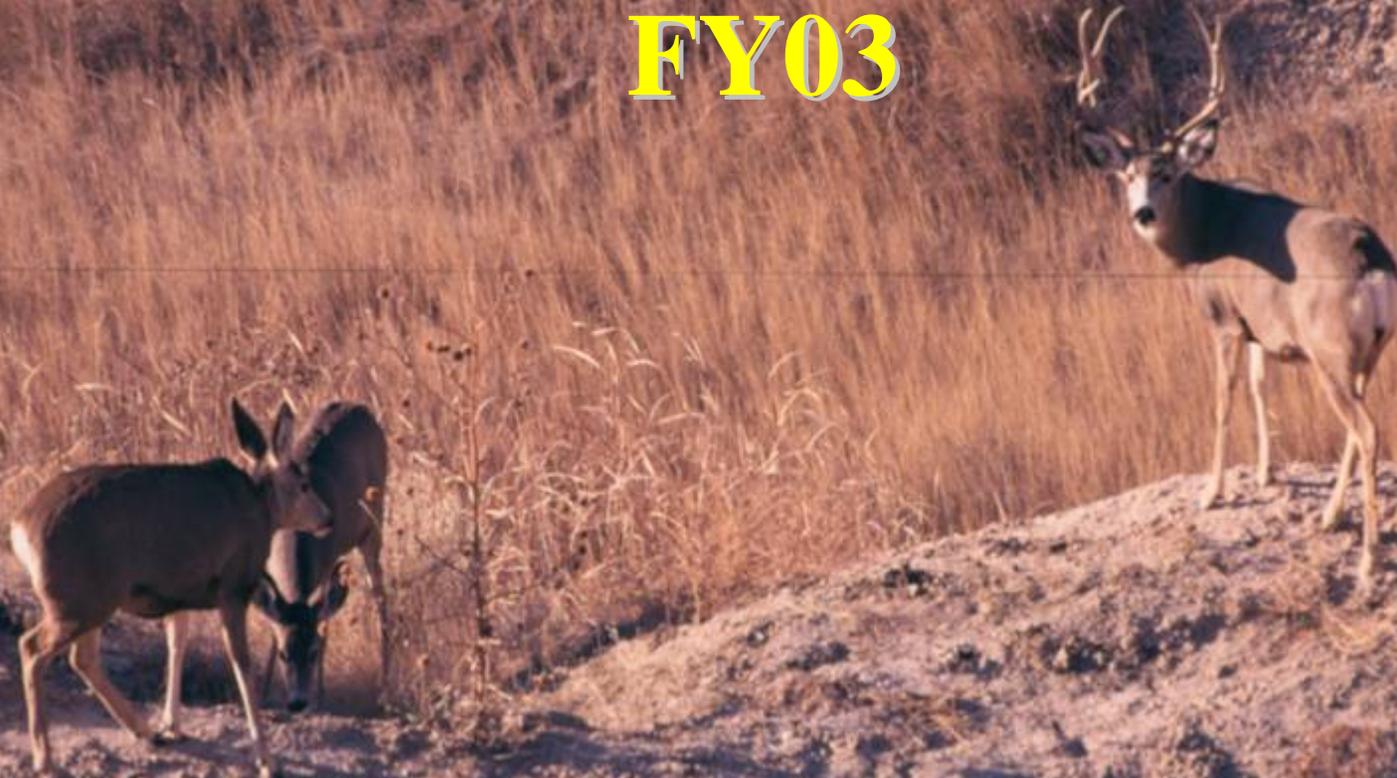


FY03 Inventory Expenditures



- 45% went to agreements for field work
- 41% went to Network personnel
- 11% went to operations/administration/etc.
- 3% went to travel

**“VITAL SIGNS”
MONITORING PHASE
FY03**



In FY03 we:

- Received \$150k in startup funds for Vital Signs monitoring. These are permanent \$.
- Conducted a park-specific Vital Signs scoping meeting at every park (AGFO done in FY02, THRO done only for plants).
- Developed agreements and/or began work on vegetation, water, and air quality monitoring

Vegetation Monitoring



- Amy Symstad of USGS-BRD is collecting existing plant monitoring data, coordinating with parks and other vegetation monitoring programs, and developing a draft monitoring protocol
- Amy's involvement will decrease this spring, but she will continue to assist the program
- Only cost to I&M Program is for some travel in FY04.

Water Quality



- Established a \$125k agreement with Dr. Nels Troelstrup of South Dakota State U. to develop water quality portion of plan
- Will collect existing information, coordinate with parks on issues and stressors, and develop monitoring plan
- Project includes field assessment for water quality and macro-invertebrates
- His staff includes Jill Jensen (graduate student), a GIS technician and a lab technician

Air Quality



- David Pohlman is MWRO Air Quality Specialist assisting us
- Has developed air quality report for NGPN
- Will continue to assist us in air quality monitoring for duration of planning effort
- No cost to NGPN

Writing the Plan



- Have started writing Phase I of the plan
- Will probably oversee writing of the subsequent Phases
- Cost to NGPN is way too much!

Potential Vital Signs

From the Park-specific Preliminary Scoping Meetings

AGFO	BADL	DETO
<ul style="list-style-type: none">•Aquatic macro-inverts•Plant communities•Deer•Fish•Turtles	<ul style="list-style-type: none">•Plant community•Range monitoring•Exotics after treatment•Rare plants•Small mammal response to fire•Lepidoptera response fire•Birds in certain habitats•Soil chemistry•Air quality effects on lichens•Water quality•Fossils•Soundscape	<ul style="list-style-type: none">•Prairie dog population•Exotic plant species•Air quality•Riparian forest•Prairie falcon nesting•Viewscape•Surrounding land use•Migratory birds•Butterflies•River geomorphology•Herps in regard to pesticide use.

Potential Vital Signs

From the Park-specific Preliminary Scoping Meetings

FOLA	FOUS	JECA
<ul style="list-style-type: none">•Drinking water•Federally listed species•State watch list plants with emphasis on fire, exotics, herbicides, biocontrol•Air quality•Noxious weeds•CWD and West Nile•Riverine water quality•Landscape and land use	<ul style="list-style-type: none">•Vegetation communities•Birds•Amphibians in the floodplain•Air quality•Soil characteristics•Butterflies•Inverts in response to pesticides.	<ul style="list-style-type: none">•The cave (most likely abiotic measures such as temperature)•Water quality in the springs•Vegetation monitoring•Bats (may want to expand current efforts)

Potential Vital Signs

From the Park-specific Preliminary Scoping Meetings

KNRI	MNRR	MORU
<ul style="list-style-type: none">•Vegetation (with emphasis on exotics)•Prairie community restoration efforts•Tree regeneration in the floodplain•Air quality (in regards to power plants)• Deer abundance•Burrowing/digging mammals•Water quality on the Knife River	<ul style="list-style-type: none">•Goat Island and other acquisitions•Cottonwood monitoring•Wetland/backwater changes•Exotic invasive plants•Ponca and Spirit Mound State assistance•Sandbar habitat	<ul style="list-style-type: none">•Geology of The mountain•Visibility from Iron Mountain road (air quality)•Water quality and quantity•Number and distribution of mountain goats (and potential impact on plants)•Health of old growth pine forest•Vegetation community as a whole•Exotic plants•Pine beetles

Potential Vital Signs

From the Park-specific Preliminary Scoping Meetings

NIOB	SCBL	THRO
<ul style="list-style-type: none">•Water quantify on the Niobrara•Backwater changes•Vegetation plots in riparian and upland and in regards to fire and regeneration•Aquatic biota (inverts, herps).	<ul style="list-style-type: none">•Prairie plant community (with emphasis on exotics abundance and distribution)•Water quality and quantity from canal	N/A

Potential Vital Signs

From the Park-specific Preliminary Scoping Meetings

WICA

- Air quality
- Vegetation community
- Forage production and biomass
- Browse
- Cave biota including algae
- Abiotic resources in caves
- Large ungulates
- Herd health
- Adjacent land practices
- Water quality (macro-invertebrates) in streams, springs, and caves
- Water quantity

- Dust in the cave
- Songbirds
- Bat use of caves (other than Wind Cave)
- Impact of air quality on vegetation
- Raptors
- Butterflies
- Diseases of mid-size carnivores
- Fish census
- Climatological data
- Small mammals

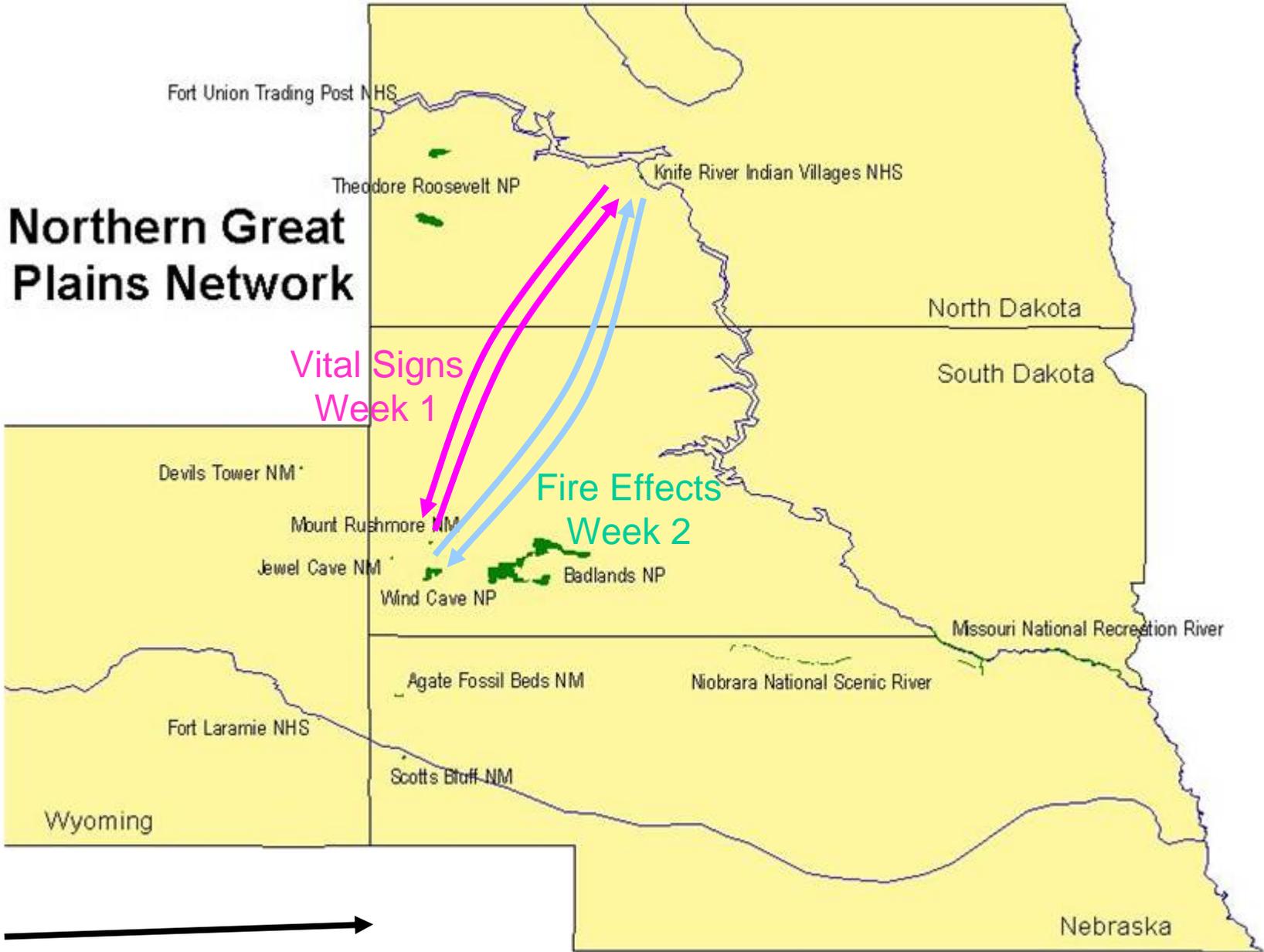
We are Coordinating with Fire Effects and EPMT



WE WANT TO MAXIMIZE EFFICIENCY!



Northern Great Plains Network



Vital Signs
Week 1

Fire Effects
Week 2

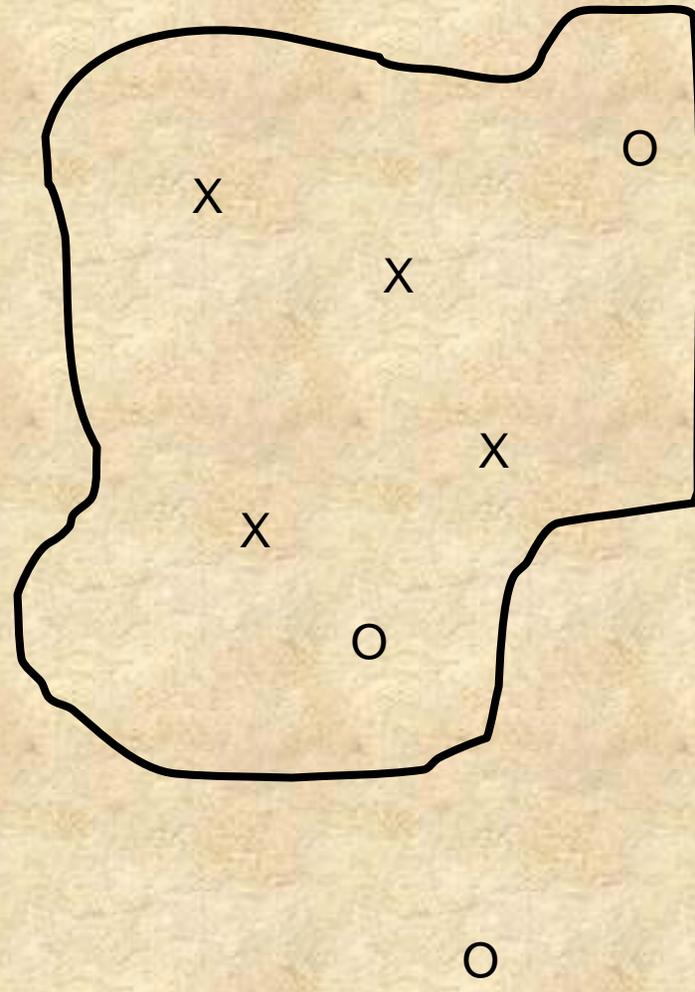
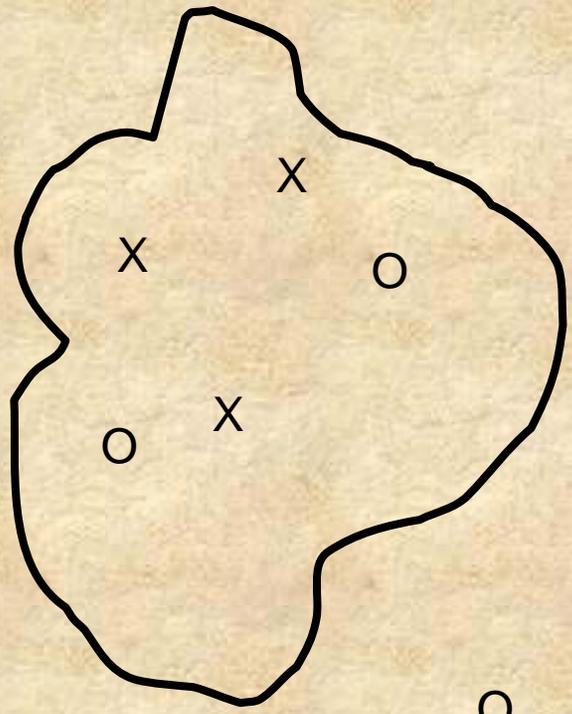


Park X

Fire Effects Plot = X

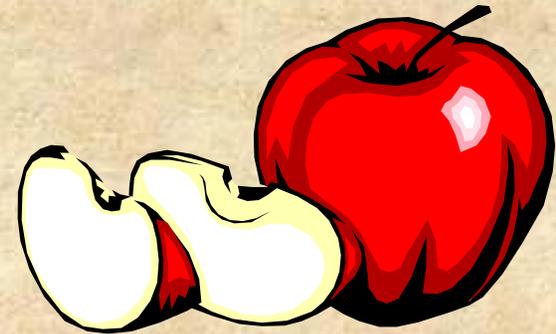
Vital Signs Plot = O

Burn Unit = 



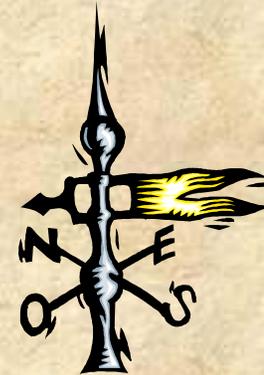
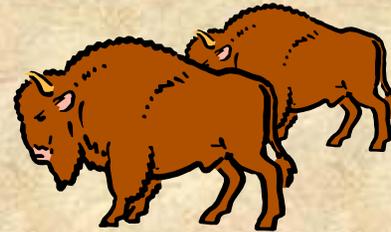
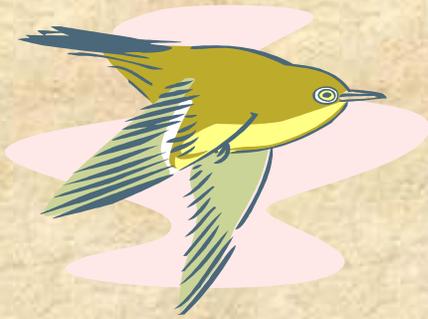
We want to be wise in our plot locations

***WE WANT TO BE ABLE TO
COMPARE OR POOL DATA!***





We Want to Supplement and Enhance Vegetation Data with Other Monitoring Projects



Meetings & Coordination in 2004



FY03 Monitoring Expenditures



- 82% went to agreements for field work
- 11% went to Network personnel
- 4% went to operations/administration/etc.
- 3% went to travel

FY04 Activities

Both Inventory and Monitoring

Inventory Budget for FY04

\$197,100

Personnel

- I&M Bio. Tech. (Data) – Wilson \$58,189
- Badlands NP Clerk – Williams \$3,180
- I&M Bio. Tech. (Botany) – Solberg \$2,000
- I&M Computer Ass. – Handberg \$10,000

Field Projects

- U.S. Forest Service - mammal inventory *\$22,574
- Rocky Mountain Bird Observatory - bird inventory \$6,614
- Theodore Roosevelt – project to be determined \$2,500

Other Projects

- Dr. Bob White - certification of fish data \$2,500
- Certification of plant data \$10,000
- Projects to be determined \$65,000

Other

- Equipment and supplies \$4,000
- Travel \$10,000
- Unexpended funds \$829

* Includes budgeted amount plus \$10k for more bat work

Monitoring Budget for FY04

\$150,000

Personnel

- I&M Coordinator – Licht \$69,000
- I&M Data Manager - vacant \$60,000

Other Expenses

- GIS hardware/software \$5,000
- Equipment and supplies \$6,000
- Travel \$10,000

Field Work Planned for FY04

- = Monitoring funds
- = Other funds
- = Inventory funds

SDSU Aquatic assessments

FS Exotic Plant study at JECA

USGS Old Growth study at MORU

Plant inventory at FOUS

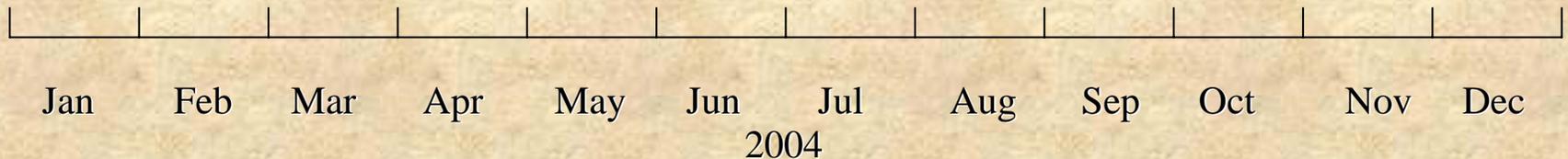
Plant inventory at FOLA

Herp inventory at NIOB and MNRR

Mammal inventories at AGFO SCBL WICA MORU MNRR

Mammal inventories – wildlife cameras

Last year of bird inventories



FY04 Tasks

- Hire Data Manager
- Hire STEP Computer Assistant
- Form Science Advisory Committee
- Visit parks to discuss water quality issues
- Keep mining data
- Certify NPSpecies data
- Keep writing the Vital Signs plan!

Administrative and other Stuff

Board of Directors

- Bill Supernaugh (Chair)
- Ruthann Knudson
- Andy Banta

- Phyllis Adams*
- Dan Licht*

On October 1, 2004 Supernaugh retires from Board, Knudson becomes Chair, and Stoll becomes a member.

* = Non-voting member

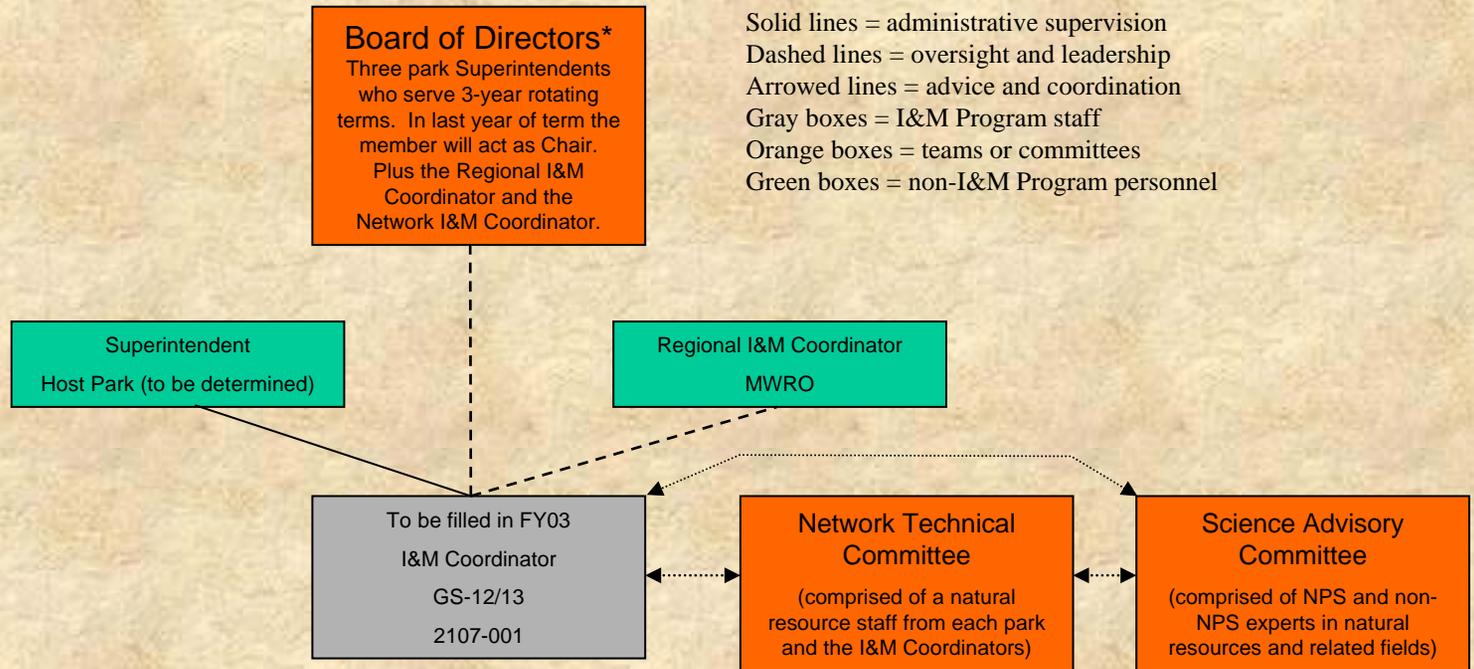
Network I&M Technical Committee

- **Agate Fossil Beds NM**
- **Badlands NP**
- **Devils Tower NM**
- **Fort Laramie NHS**
- **Fort Union Trading Post NHS**
- **Jewel Cave NM**
- **Knife River Indian Villages NHS**
- **Missouri NRR**
- **Mount Rushmore NMEM**
- **Niobrara NSR**
- **Scotts Bluff NM**
- **Theodore Roosevelt NP**
- **Wind Cave NP**
- **Ruthann Knudson**
- **Brian Kenner**
- **Jim Cheatham**
- **Ted Benson**
- **Andy Banta**
- **Todd Suess**
- **John Moeykens**
- **Wayne Werkmeister**
- **Eric Nelson**
- **Carmen Blausey**
- **Bob Manasek**
- **Penny Knuckles**
- **Dan Roddy**
- **Midwest Region I&M Coordinator***
- **Network I&M Coordinator (Chair)***
- **Phyllis Adams**
- **Dan Licht**

* = Non-voting member

NORTHERN GREAT PLAINS I&M PROGRAM OVERSITE STRUCTURE

January 4, 2004



Personnel for FY2004

Dan Licht - Inventory Coordinator (0.7 FTE)*

Marci Wilson – Biological Technician (NPSpecies, field work, etc.)

Katie Solberg – STEP Bio. Tech intermittent (USD herbarium)

Erin Handberg – STEP Computer Ass. part-time (web)

Data Manager (GIS, database)



* = Planned to be fulltime I&M Coordinator in FY05

Current Status of Administration and Support

- Alpha code for program is NGPN. Org/Account is 2107
- I&M Coordinator currently supervised by Steve Cinnamon. Permanent fulltime I&M Coordinator will be supervised by the “Host Park” Superintendent. Leadership and oversight by the Board and MWR I&M Coordinator.
- Contracting, Purchasing, Agreements handled by Ron Eilefson and others at MORU
- SPO is currently MWRO.
- Recruitment and classification by MWRO.
- Budget assistance by MWRO
- Travel by BADL for FY04
- T&A by BADL for FY04 (except Licht by MWRO)
- IT support by Weichler

Travel Restrictions and I&M

A June 2, 2003, memo from the AD for Natural Resources clarified travel for the I&M Program. It said:

- “monitoring networks receiving \$150,000 in planning funding during FY 2003 will not be expected to reduce their travel expenditures ... as a rule of thumb, these networks should expend no more than \$30,000 during FY 2003 on travel ...”
- “networks that received substantial funding increases during FY 2003 ... Given that each of these networks had only ... \$30,000 available for travel ... during FY 2002, we believe that travel reductions of approximately \$5,000 per network from FY 2002 expenditures will meet the mandated restriction.”
- We spent \$4,000 on travel in FY03. I don't know what this will mean in FY04 and beyond.

The Future!

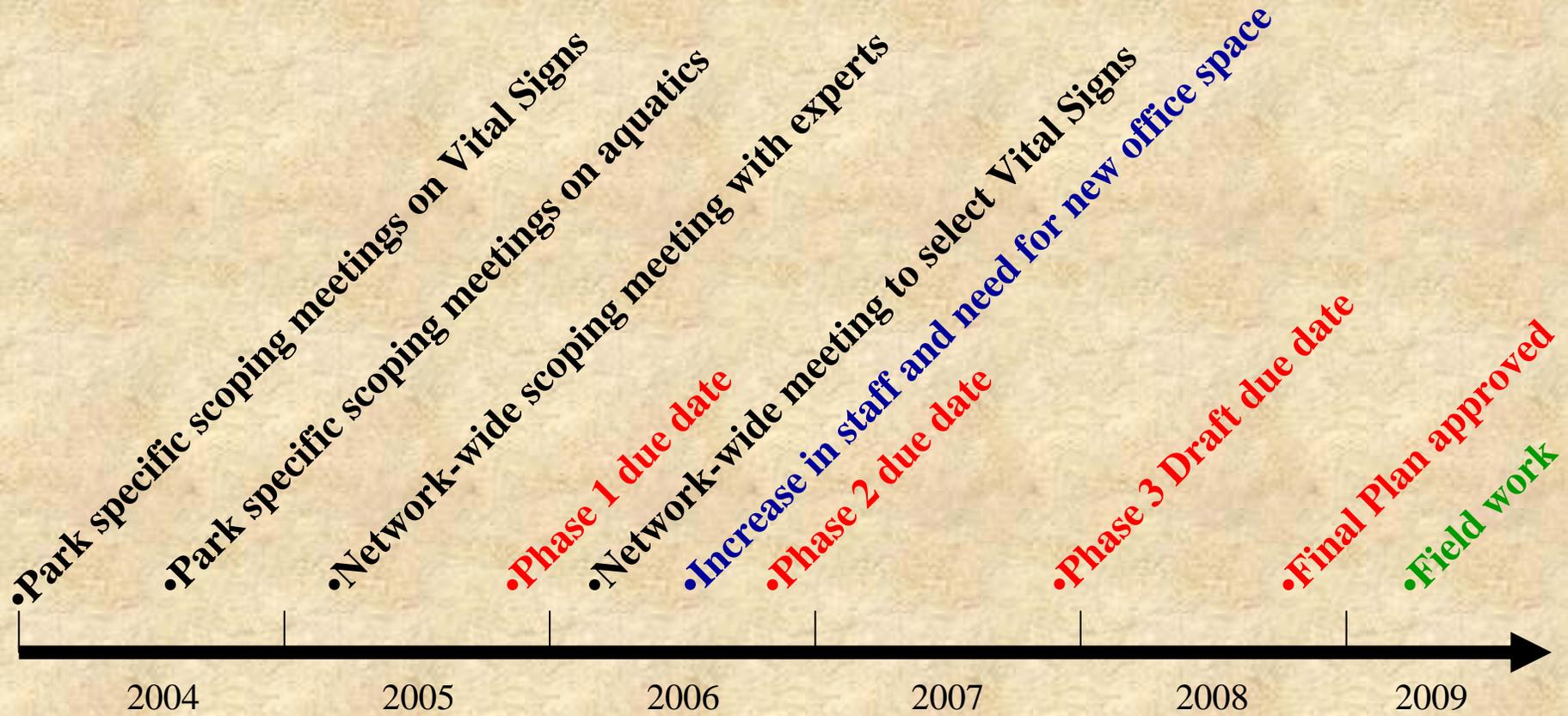


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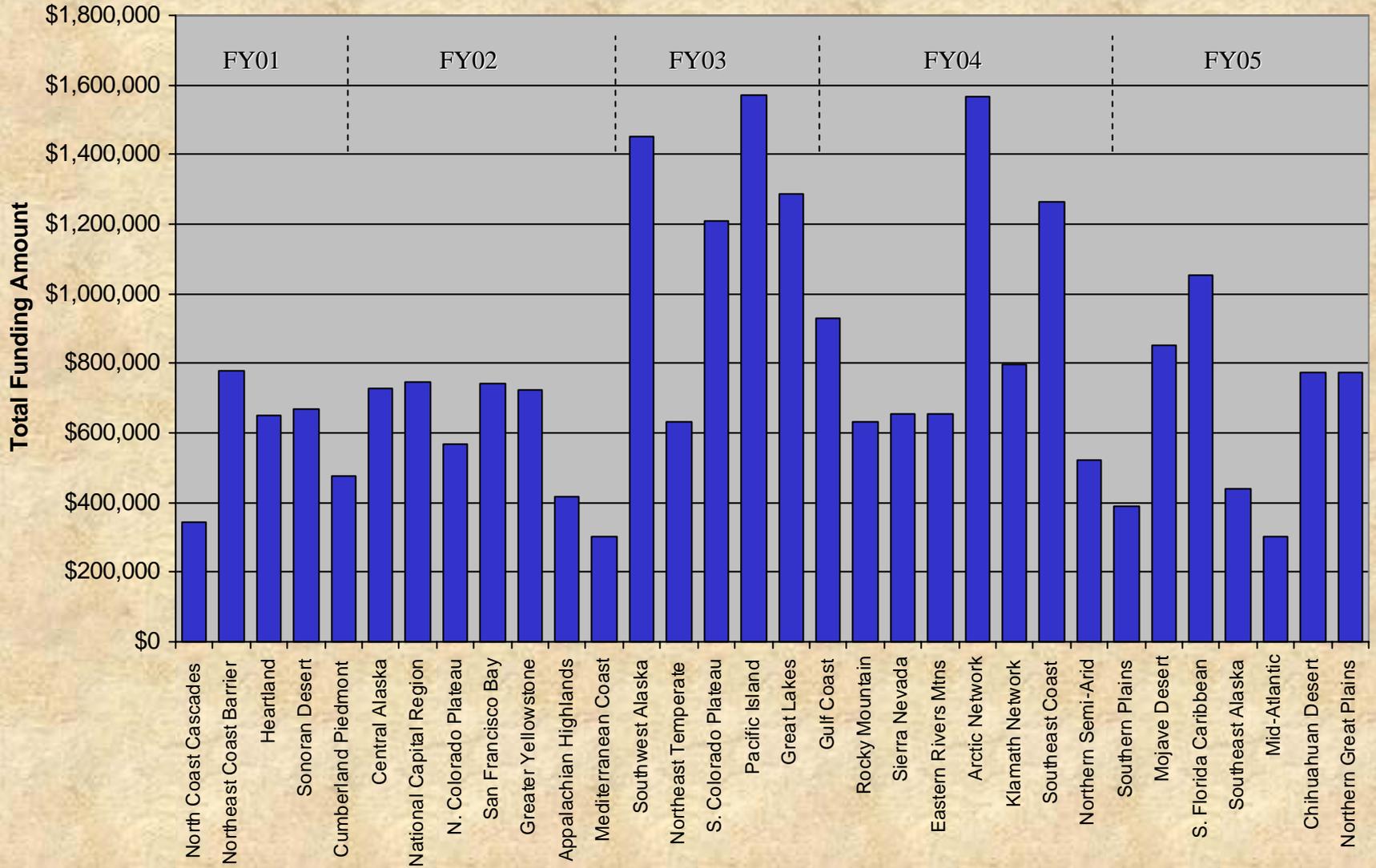
National Schedule for Vital Signs Monitoring Plans

(years are calendar years: actual deadline is Oct. 1)

<u>Network Name</u>	<u>Phase</u>	<u>1</u>	<u>2</u>	<u>3*</u>	<u>Network Name</u>	<u>Phase</u>	<u>1</u>	<u>2</u>	<u>3*</u>
1 North Coast and Cascades	02	03	05		17 Great Lakes	03	04	06	
2 Northeast Coastal/Barrier	02	03	05		18 Gulf Coast	04	05	07	
3 Heartland	02	03	05		19 Rocky Mountain	04	05	07	
4 Sonoran Desert	02	03	05		20 Sierra Nevada	04	05	07	
5 Cumberland/Piedmont	02	03	05		21 Eastern Rivers and Mtns	04	05	07	
6 Central Alaska	02	03	05		22 Arctic	04	05	07	
7 National Capital Region	02	03	05		23 Klamath	04	05	07	
8 Northern Colorado Plateau	02	03	05		24 Southeast Coast	04	05	07	
9 San Francisco Bay Area	02	03	05		25 Northern Semi-Arid	04	05	07	
10 Greater Yellowstone	02	03	05		26 Southern Plains	05	06	08	
11 Appalachian Highlands	02	03	05		27 Mojave Desert	05	06	08	
12 Mediterranean Coast	02	03	05		28 South Florida/Caribbean	05	06	08	
13 Southwest Alaska	03	04	06		29 Southeast Alaska	05	06	08	
14 Northeast Temperate	03	04	06		30 Mid-Atlantic	05	06	08	
15 Southern Colorado Plat.	03	04	06		31 Chihuahuan Desert	05	06	08	
16 Pacific Island	03	04	06		32 Northern Great Plains	05	06	08	

* Note: Regional I&M coordinators are responsible for leading and scheduling the peer review of the Phase 1 and Phase 2 reports for networks in their region, and may set earlier due dates. The Phase 3 due dates shown are for the final, peer-reviewed and revised monitoring plan. A draft of the monitoring plan is due to the Servicewide I&M Program on December 15, 9 months earlier than the date shown. The 9-month period allows time for peer-review, revisions, and approval of the monitoring plan. Due dates for the last 7 networks for Phase 2 and Phase 3 depend on funding levels in FY 2004 and FY 2005 and may change.

Network Funding Allocation and Year Scheduled for Full Funding

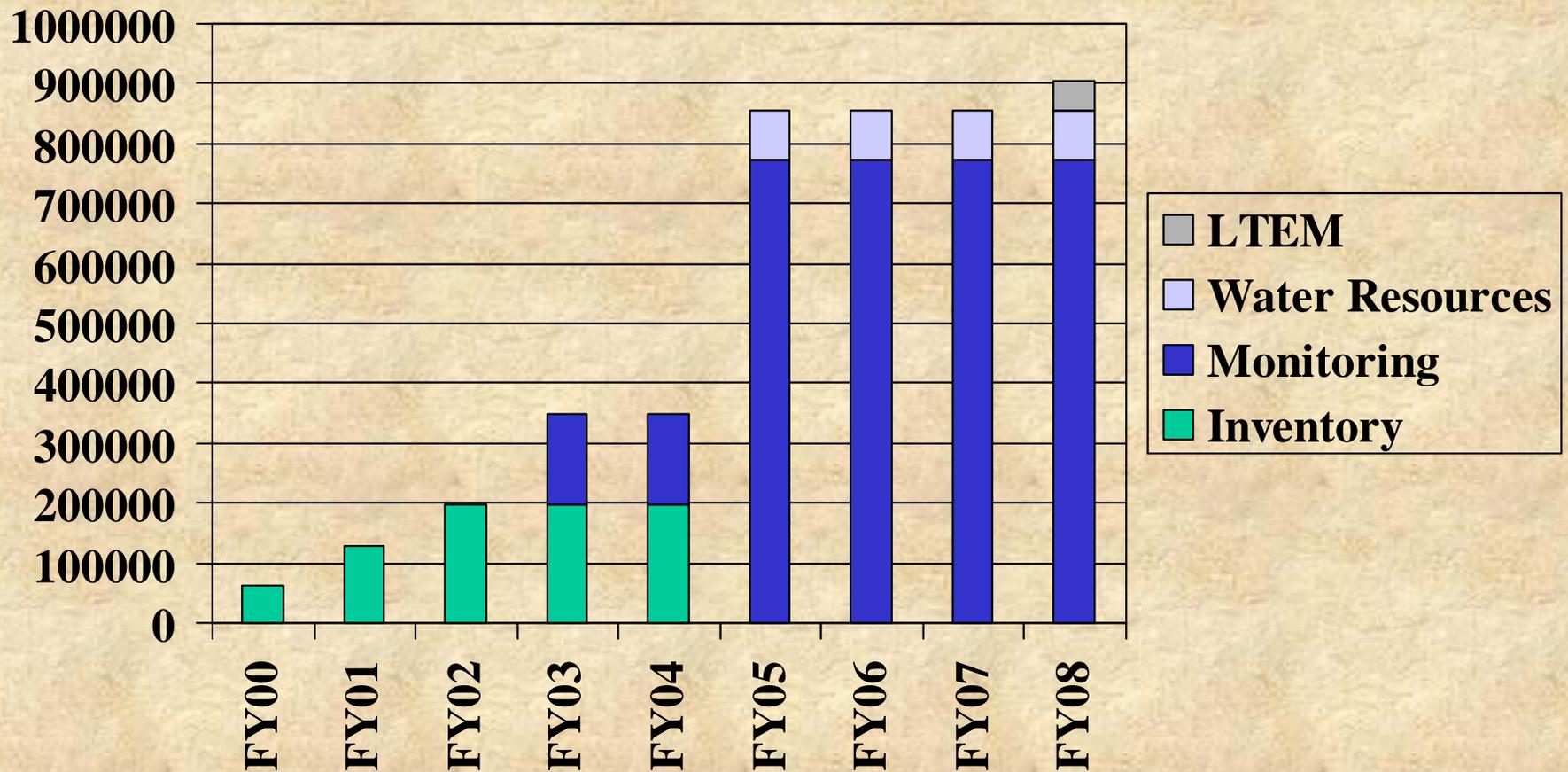


Note – NGPN does not include funds from Prairie Cluster LTEM. Amounts do not include water quality funds.

Prairie Cluster LTEM

- Scotts Bluff and Agate Fossil Beds NM are both in the Prairie Cluster LTEM *and* NGPN
- When the NGPN is ready to collect field data (2007-09?) funds will be transferred from LTEM to NGPN

Funding Chronology and Amounts for NGPN



FY05 Budget Scenarios

	FY04	FY05			
		Option 1	Option 2*	Option 3	Option 4**
Inventory	\$200k				
Monitoring	\$150k	\$775k	\$230k	\$150k	\$150k
Licht	\$70k	\$75k	\$75k	\$75k	\$75k
Wilson	\$55k	\$60k	\$60k	\$60k	\$30k
Data Man.	\$65k	\$70k	\$70k	\$70k	\$70k
Web STEP	\$10k	\$10k			
Balance	+150	+560	+25	-55k	-25k

* Assumes incremental increase from core Vital Signs funding OR \$81k from WRD.

** Assumes Wilson is furloughed for half the year.

POTENTIAL NORTHERN GREAT PLAINS ORGANIZATION CHART

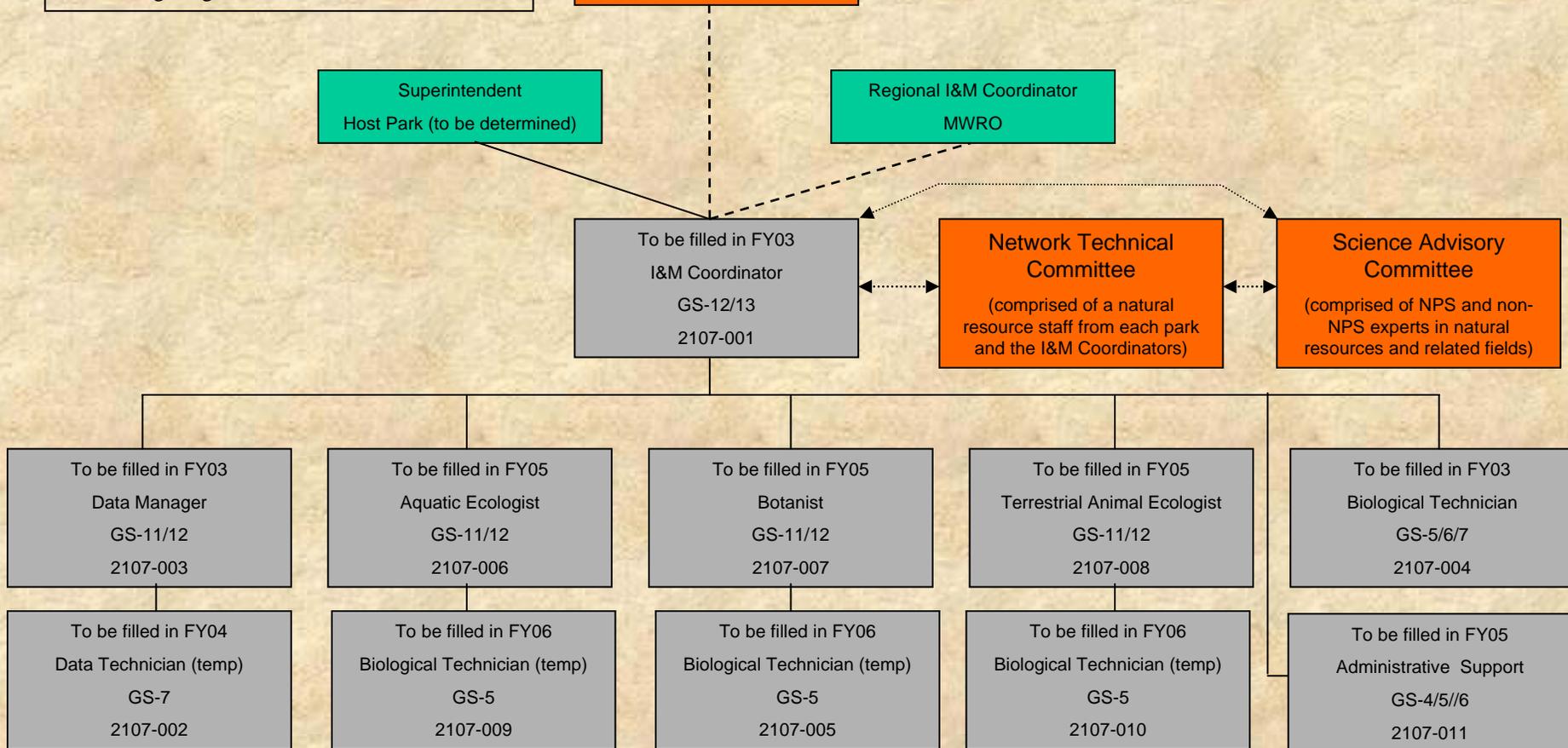
January 4, 2004

This chart is draft. The number and type of positions to be established in the I&M Program will be determined over the next few years. At this time the only firm positions are the Network I&M Coordinator (001), Data Manager (003), and Biological Technician (004). This org chart assumes no integration of I&M and Fire Effects Monitoring Programs.

Board of Directors*

Three park Superintendents who serve 3-year rotating terms. In last year of term the member will act as Chair. Plus the Regional I&M Coordinator and the Network I&M Coordinator.

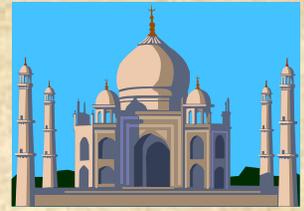
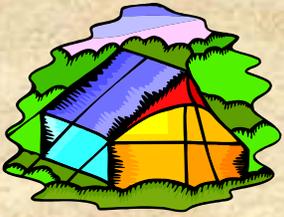
Solid lines = administrative supervision
 Dashed lines = oversight and leadership
 Arrowed lines = advice and coordination
 Gray boxes = I&M Program staff
 Orange boxes = teams or committees
 Green boxes = non-I&M Program personnel



Office Location?

Temporarily at MORU in Sculptor's Studio





Options for a Permanent Office

- MORU adds new maintenance building that includes space for I&M Program. Targeted for end of the decade. Would require an interim solution (perhaps modular offices at the park).
- Forest Service in Rapid City – it's alive – again!
- Lease commercial space in Rapid City.
- My garage.



THE END!

