

Planning Support Project Description Sheet

Leader: Bruce Keating

4/6/01

1. Project Title: Statewide Color Infrared Aerial Photography

2. Objectives of the Project: Produce state-wide color IR aerial photography data set. These photos will provide an historical marker for existing resource conditions, allow broad scale resource interpretations, and support project-specific planning. This data will allow each field office to better prepare its upcoming land use planning work in all programs.

3. Relationship to Planning Issues/Criteria: This PSP will support analysis and decision-making for the following planning issues/criteria for all Land Use Plans in Wyoming:

1. Reduce wildland fire risk at urban interfaces and using prescribed fire to manage ecosystems
2. Off-highway vehicle designations
3. Development of energy minerals
4. Vegetation management
5. Opportunities for cooperation, coordination and public participation
6. Management of significant cultural, historic, and paleontological resources
7. Protect and enhance riparian areas
8. Reduce the spread of noxious weeds
9. Protect the habitat of threatened, endangered, sensitive and other important wildlife and plant species
10. Compatibility of livestock grazing with other public land uses
11. Identification of lands suitable for surface disturbing activities such as mineral exploration and development, right-of-way construction, and off highway vehicle use. Identification of lands where surface disturbances would be avoided

4. Anticipated Accomplishments: The photos will directly support inventory and monitoring work in: Non-Section 106 cultural resources inventory (BC), Abandoned mine land site inventory (BH), Geographic data acquisition and maintenance (BI), Watershed assessment (BP), Shrub, grassland vegetation inventory (BR), Weed inventory (BS), Forest and woodland vegetation inventory (BT), Wetland/Lakes inventory (BU), Stream/Riparian inventory (BV), Rangeland health evaluations (MJ), and Terrestrial habitats monitored (MO). Future land use planning work will also be enhanced by the availability of these photos.

5. Brief Description and Outline of the Project: The National Aerial Photography Program (NAPP) is a federal multi-agency program managed by the USGS with participation by some states. Wyoming is currently below the cutoff for FY 2001 funding, without local participation. This project would result in a set of color IR photography in USGS quarter quadrangle scale (one photo covers 1/4 of a 7.5' topographic map) for the entire state. The new coverage could be the base for a second generation Color Digital Orthophotoquad (DOQ). The last time the state was covered in color photography was in the early 1980s. If funded, this would be NAPPs number one priority. Funding is for the aerial flights in this FY. Additional funding will be necessary to provide a hard copy photo set or digitally scanned set for each applicable field office.

6. Detailed Project Schedule:

Contract Award 4/20,2001

Aerial Photo Flights Begin 6/1/ 2001,

Completion of Flying 9/30/2001

Photos available acceptance, delivery starting 8/1/2000,

Scanning starting 8/15/2001,

Initial Scans delivered in 8/30/2001,

Compression and initial field available in 9/15/2001,

Field delivery will continue through 1/15/2002 to complete state-wide 7,200 scans.

2002 -Unfunded

Color Digital Orthophoto production of BLM Planning Priority areas 2ndQ-FY2002.(See below)

7. Leadership/Team Organization: Contracting agent is the National Mapping Division, USGS, Reston, VA. A WSO program leader would administer the contract and serve as technical and federal agency contact. This project is truly cooperative within BLM's sub-activities, federal agencies, and at the State and County level. BLM-WY957 and the State are co-lead for this project.

8. Project Cost Breakdown :

Phase 1 Aerial Photography (FY01)

Total cost of Project \$904,507
 NAPP Program Share \$654,507
 State/Federal Share \$250,000
 (BLM-\$100,000 with **1610-\$50,000** and 2824- \$50,000)

Phase 2 Scanning, Compression, Field Distribution (FY01)(Scanning of originals at APFO, USDA of NRCS Cooperative)

Total cost of Project \$305,000
 Cooperators scanning \$100,000
1610 Scanning 7,200 images \$140,000
1610 Image Prep. Field Copy Dups- DVD \$35,000
1610 Priority Paper prints \$10,000
1610 Supplement Field Image Software \$15,000
1610 Travel/WM \$5,000

Phase 3 Digital Orthophoto (FY02+)

Entire State \$2,000,000 Cooperative Funding
1610-BLM Priority Areas \$525,000
 State Govt./Counties \$750,000
 Other Federal Agencies \$1,250,000 (FS, BOR, NRCS, GS, EPA, DOT,etc)

Funding Summary: The 1610 program would contribute \$50,000 of the State/Federal Share of the flying. The fire program is also contributing \$50,000. State/federal cooperators including various state agencies, BLM, NRCS, USFS, USGS, and BOR. An additional \$175,000 will be used for scanning images for field delivery, \$10,000 for color paper prints, and \$15,000 for FO/SO software. In following years \$525,000 for digital orthophoto production at the 1/12,000 scale of all the images and \$100,000 for film positives would be requested. The majority of the work would use cooperative agreements to consolidate contract services.

These costs are for FY 2001 only.

| WMs (#) | WMs | Travel | Equip-ment | Supplies/Materials | Contract Services | Vehicle Cost | Total Cost |
|---------|-----|---------|------------|--------------------|-------------------|--------------|------------|
| 1 | 0 | \$5,000 | 0 | \$15,000 | \$235,000 | 0 | \$255,000 |