

## **IMPROVE Steering Committee Meeting Summary September 11-13, 1985**

The second IMPROVE Steering Group meeting was held September 11 through 13, 1985, at the Albright Training Center, Grand Canyon, Arizona. The primary objective of the meeting was to select tentative sites for long-term monitoring. The following is a summary of the site selection process used, results, and a discussion of the review process.

### **Site Selection Process**

The basis for the site selection process was that all of the 156 visibility-protected federal Class I areas would be evaluated in terms of four site selection criteria. The criteria are anticipated visibility change, scenic sensitivity and value, existing visibility problems, and the number of other visibility-protected areas that could be represented. Weights were not assigned to these criteria.

Representatives of the land management agencies researched each of their visibility-protected areas prior to the steering group meeting. Summary data were used to aid in discussions of the salient characteristics of each area. The areas were organized geographically (see attached list), though they were discussed individually.

The visibility-protected areas were segregated into four divisions based upon the majority vote of the five IMPROVE participant organizations. These divisions are, in fact, divisions of a priority-ordered list of the sites from the highest priority site to receive monitoring, to the lowest site which would receive monitoring if resources permitted. Though it is not possible to accurately determine the number of monitoring sites which are consistent with the IMPROVE program budget, it is generally thought that a minimum of 20 and a maximum of about 35 sites is affordable. With this in mind, the first division contained the 20 highest priority areas, those where monitoring is reasonably assured. No ordering within this division was attempted.

The second division contains ordered sites from number 21 to 36. Ordering in the second division was considered critical since the lower numbered areas are more likely to receive monitoring than the higher numbered areas. The third division contains the next 37 priority-ordered sites from 37 to 73. Though monitoring of third division sites is desirable, it is improbable due to resource limitations. The final 83 visibility-protected areas, (fourth division) are lowest in priority for monitoring. Neither the third nor fourth division areas were ordered within their division because the unlikely prospect of monitoring for more than 36 areas made the process academic.

Some areas in divisions II, III, and IV were identified as alternative monitoring locations for specific areas in higher priority divisions. The purpose of designating alternatives was to provide a substitute for an otherwise higher priority area in case that area is impractical for a monitoring location. Alternate areas were chosen because they share many of the same site selection characteristics of the higher priority area for which they are alternates.

### **Results**

A list of all visibility-protected areas organized geographically and indicating the division, order (for division II only), and alternate status is attached. Also attached is a summary list of the first two divisions with the second division in priority order.

## **Review Process**

The steering group agreed to a two-stage review process of the sites selected for long-term monitoring. The first stage is internal review by the IMPROVE participant agencies, especially the land managers at the areas where monitoring is likely. Problems identified by the internal review will be addressed prior to a public review.

The participants will prepare a brief narrative for each of their areas within the first and second divisions. The narrative should include information pertinent to the site selection criteria, with emphasis on the characteristics of the area which most influences their selection. Since site selection was a steering group function, representatives of each participant agency will be given an opportunity to review and comment on draft narrative statements. The IMPROVE steering group chairman will act as editor for the narratives and will prepare a brief description of the site selection process for public review.

The brief description of the site selection process, list of areas indicating priority division (and for the second division their rank), and the narratives for the first two divisions will be circulated to interested parties. A file containing copies of the information used to select sites will be made available to the public by its being included in the EPA docket.

## **Other Items**

Copies of the draft Memorandum of Agreement (MOA) among the five agencies and a draft subagreement to transfer funds from EPA to NPS were circulated to the participants for comment.

A brief discussion was conducted of the nature of contracts necessary to deploy and operate the long-term monitoring program. It was felt that three separate contracts would be established for aerosol monitoring and one for optical monitoring. Separate aerosol carbon, ion, and elemental analysis contracts would be established with one of the three contracts (probably the one for elemental analysis), also including mass and optical absorption analysis plus sampler maintenance. Each of the four contractors would be responsible for providing data on 9-track magnetic tape and for establishing and maintaining a quality control procedure and documentation.

## **Action Items**

All FLM representatives

Prepare narratives for all division I and II areas and circulate to steering group representatives (by October 4).

Circulate list of areas for each division to affected field and regional representatives for review and comment. Report adverse comments to the steering group chairman (by October 4).

Review and comment on draft MOA and subagreements by September 30.

All steering group representatives

Review and comment on division I and II areas narratives (by October 21).

Attend next meeting in Ft. Collins, Colorado  
(November 5 and 6).

Marc Pitchford

Prepare a draft meeting summary and agenda for  
next meeting for review by steering group (by  
September 27).

Compile and edit (based on review comments)  
narratives and prepare site selection summary (by  
November 5).

William Malm and  
Marc Pitchford

Prepare draft work statements for IMPROVE  
monitoring contracts (by November 5)

Bruce Polkowsky

Prepare final MOA and subagreement and circulate  
for signatures (by October 15)

Attachments

-- end --

## **IMPROVE Steering Committee Meeting Agenda**

Dates: September 11 – 13, 1985

Location: Albright Training Center, Grand Canyon, AZ

### September 11

- 1:00 pm      Status of EPA funds, etc.
- 1:15 pm      Discussion of site selection process
- 2:00 pm      Selection of tentative sites and alternates within geographic areas (screening process). Areas 1-11

### September 12

- 8:00 am      Continue screening process. Areas 12-22
- 11:30 am     Lunch
- 1:00 pm      Ordering of selected sites (first through the 20<sup>th</sup>)

### September 13

- 8:00 am      Continue ordering sites (21<sup>st</sup> through the 39<sup>th</sup>)
- 11:30 am     Lunch
- 1:00 pm      Continue ordering sites (40<sup>th</sup> through the 50<sup>th</sup>)
- 1:30 pm      Discussion of final steps in site selection
- 2:00 pm      Discussion of proposed administrative approach for the monitoring program (contracts, schedules, etc.)
- 2:30 pm      Plan for next IMPROVE meeting
- 3:00 pm      Adjourn

**IMPROVE Steering Committee Meeting Participants  
September 11 – 13, 1985**

<u>Name</u>	<u>Organization</u>	<u>Phone</u>
Bruce Polkowsky	OAQPS – EPA/RTP, NC	FTS 629-5540
Brian Mitchell	NPS – Air Quality Div./Denver, CO	FTS 776-8761
William Malm	NPS – Fort Collins, CO	303 221-5341
Marc Pitchford	EPA – Las Vegas, NV	FTS 545-2363
Jim Blankenship	Forest Service/ Ft. Collins, CO	FTS 323-1236
Ty Berry	USFWS – Washington, DC	FTS 343-4048
Bud Rolofson	USFWS – AQD/Denver, CO	FTS 776-8765
Scott F. Archer	BLM – Denver, CO	FTS 564-7122
Keith Yarborough	NPS – Santa Fe, NM	FTS 476-1412

IMPROVE Monitoring Sites Priority List

GEOGRAPHIC GROUP	PRIORITY DIV.(RANK)	AREA NAME (Alternate Status)	FLM
1	III	Roosevelt Campobello Int'l Park	N/A
	I	Acadia NP	USDI-NPS
	III	Moosehorn Wilderness	USDI-FWS
	IV	Great Gulf Wilderness	USDA-FS
	II (22)	Presidential Range-Dry River Wilderness	USDA-FS
2	IV	Lye Brook Wilderness	USDA-FS
	III	Brigantine Wilderness	USDI-FWS
	IV	Swanquarter Wilderness	USDI-FWS
2	II (29)	Cape Romain Wilderness	USDI-FWS
3	III	Virgin Islands NP	USDI-NPS
4	IV	Chassahowitzka Wilderness	USDI-FWS
	II (36)	Everglades NP	USDI-NPS
	IV	St. Marks Wilderness	USDI-FWS
	IV	Breton Wilderness	USDI-FWS
	IV	Okefenokee Wilderness (Wolf Island alternate)	USDI-FWS
	III	Wolf Island Wilderness	USDI-FWS
5	III	Cohutta Wilderness	USDA-FS
	I	Great Smoky Mountains NP	USDI-NPS
	IV	Joyce Kilmer – Slickrock Wilderness (Great Smoky alternate)	USDA-FS
	IV	Linville Gorge Wilderness	USDA-FS
	III	Shining Rock Wilderness	USDA-FS
	IV	James River Face Wilderness	USDA-FS
	I	Shenandoah NP	USDI-NPS
	III	Dolly Sods Wilderness	USDA-FS
	IV	Otter Creek Wilderness	USDA-FS
6	IV	Sipsey Wilderness	USDA-FS
	III	Mammoth Cave NP	USDI-NPS
7	IV	Isle Royale NP (B. Water Canoe alternate)	USDI-NPS
	IV	Seney Wilderness	USDI-FWS
	II (34)	Boundary Waters Canoe Area Wilderness	USDA-FS
	IV	Voyageurs NP (B. Water Canoe alternate)	USDI-NPS
8	IV	Hercules – Glades Wilderness	USDA-FS
	IV	Mingo Wilderness	USDI-FWS
	IV	Caney Creek Wilderness	USDA-FS
	III	Upper Buffalo Wilderness	USDA-FS
	II (31)	Wichita Mountains Wilderness	USDI-FWS

GEOGRAPHIC GROUP	PRIORITY DIV.(RANK)	AREA NAME (Alternate Status)	FLM
9	IV	Lostwood Wilderness (T. Roosevelt alternate)	USDI-FWS
	II (21)	Theodore Roosevelt, NMP	USDI-NPS
	II (30)	Badlands Wilderness	USDI-NPS
	IV	Wind Cave NP (Badlands alternate)	USDI-NPS
	IV	Medicine Lake Wilderness	USDI-FWS
	IV	U.L. Bend Wilderness	USDI-FWS
10	IV	Anaconda-Pintler Wilderness	USDA-FS
	III	Bob Marshall Wilderness	USDA-FS
	IV	Cabinet Mountains Wilderness	USDA-FS
	III	Gates of the Mountains Wilderness	USDA-FS
	I	Glacier NP	USDI-NPS
	IV	Mission Mountain Wilderness	USDA-FS
	III	Red Rock Lakes Wilderness	USDI-FWS
	IV	Scapegoat Wilderness	USDI-FWS
	IV	Selway-Bitterroot Wilderness	USDA-FS
	IV	Yellowstone NP (Grand Teton alternate)	USDI-NPS
	I	Bridger Wilderness	USDA-FS
	IV	Fitzpatrick Wilderness (Bridger alternate)	USDA-FS
	II (28)	Grand Teton NP	USDI-NPS
	IV	North Absaroka Wilderness	USDA-FS
	IV	Washakie Wilderness	USDA-FS
III	Teton Wilderness	USDA-FS	
11	IV	Black Canyon of the Gunnison Wilderness	USDI-NPS
	IV	Eagles Nest Wilderness	USDA-FS
	III	Flat Tops Wilderness	USDA-FS
	IV	Great Sand Dunes Wilderness	USDI-NPS
	IV	La Garita Wilderness	USDA-FS
	IV	Maroon Bells – Snowmass Wilderness	USDA-FS
	IV	Wheeler Peak Wilderness	USDA-FS
	II (35)	Mount Zirkel Wilderness	USDA-FS
	IV	Rawah Wilderness	USDA-FS
	I	Rocky Mountain NP	USDI-NPS
	I	Weminuche Wilderness	USDA-FS
	IV	West Elk Wilderness	USDA-FS
	III	Bandelier Wilderness	USDA-FS
	IV	Pecos Wilderness	USDA-FS
	III	San Pedro Parks Wilderness	USDA-FS
12	I	Big Bend NP	USDI-NPS
	III	Guadalupe Mountains NP	USDI-NPS
	IV	Bosque del Apache Wilderness	USDI-FWS
	IV	Carlsbad Caverns NP	USDI-NPS
	II (23)	Gila Wilderness	USDA-FS
	IV	Salt Creek Wilderness	USDI-FWS
IV	White Mountain Wilderness	USDA-FS	

GEOGRAPHIC GROUP	PRIORITY DIV.(RANK)	AREA NAME (Alternate Status)	FLM
13	I	Chiricahua National Monument	USDI-NPS
	IV	Chiricahua Wilderness	USDA-FS
	III	Galiuro Wilderness	USDA-FS
	IV	Mazatzal Wilderness	USDA-FS
	IV	Mount Baldy Wilderness	USDA-FS
	IV	Pine Mountain Wilderness	USDA-FS
	III	Saguero Wilderness	USDI-NPS
	IV	Sierra Ancha Wilderness (Superstition alternate)	USDA-FS
	I	Superstition Wilderness	USDA-FS
	IV	Sycamore Canyon Wilderness	USDA-FS
14	IV	Petrified Forest NP	USDI-NPS
	I	Mesa Verde NP	USDI-NPS
15	I	Grand Canyon NP	USDI-NPS
	IV	Arches NP	USDI-NPS
	I	Bryce Canyon NP	USDI-NPS
	I	Canyonlands NP	USDI-NPS
	IV	Capitol Reef NP	USDI-NPS
	IV	Zion NP	USDI-NPS
16	I	Jarbidge Wilderness	USDA-FS
	III	Craters of the Moon Wilderness (Jarbidge alternate)	USDI-NPS
	III	Sawtooth Wilderness	USDA-FS
	IV	Hells Canyon Wilderness	USDA-FS
	III	Lava Beds Wilderness	USDI-NPS
	III	Eagle Cap Wilderness (Jarbidge alternate)	USDA-FS
	IV	Gearhart Wilderness	USDA-FS
	IV	Strawberry Mountain Wilderness (Jarbidge alternate)	USDA-FS
	IV	South Warner Wilderness	USDA-FS
	17	IV	Yolla-Bolly-Middle-Eel Wilderness
III		Marble Mountain Wilderness	USDA-FS
IV		Redwood NP	USDI-FS
IV		Mountain Lakes Wilderness	USDA-FS
I		Crater Lake NP	USDI-NPS
III		Kalmiopsis Wilderness	USDA-FS
IV		Diamond Peak Wilderness	USDA-FS
III		Three Sisters Wilderness	USDA-FS
IV		Mount Washington Wilderness	USDA-FS
IV		Mount Jefferson Wilderness	USDA-FS
II (27)		Mount Hood Wilderness	USDA-FS
III		Mount Adams Wilderness	USDA-FS
IV		Goat Rock Wilderne ss	USDA-FS

<u>GEOGRAPHIC GROUP</u>	<u>PRIORITY DIV.(RANK)</u>	<u>AREA NAME (Alternate Status)</u>	<u>FLM</u>
17 (cont.)	I	Mount Rainier NP	USDI-NPS
	IV	Alpine Lakes Wilderness	USDA-FS
	IV	Pasayten Wilderness	USDA-FS
	II (26)	North Cascades NP	USDI-NPS
	IV	Glacier Peak Wilderness (N. Cascades alternate)	USDA-FS
	II (24)	Olympic NP	USDI-NPS
18	IV	Caribou Wilderness	USDA-FS
	III	Desolation Wilderness	USDA-FS
	IV	Dome Lane Wilderness	USDA-FS
	III	Emigrant Wilderness	USDA-FS
	IV	Hoover Wilderness	USDA-FS
	III	John Muir Wilderness (Sequoia alternate)	USDA-FS
	IV	Kaiser Wilderness	USDA-FS
	IV	Kings Canyon NP	USDI-NPS
	III	Lassen Volcanic NP	USDI-NPS
	III	Minarets Wilderness	USDA-FS
	IV	Mokelumne Wilderness	USDA-FS
	II (25)	Sequoia NP	USDI-NPS
	IV	Thousand Lakes Wilderness	USDA-FS
	I	Yosemite NP	USDI-NPS
19	II (33)	Pinnacles Wilderness	USDI-NPS
	IV	Point Reyes Wilderness	USDI-NPS
	IV	Ventana Wilderness	USDI-NPS
20	IV	Agua Tibia Wilderness	USDA-FS
	III	Cucamonga Wilderness	USDA-FS
	III	Joshua Tree Wilderness (San Gorgonio alternate)	USDI-NPS
	IV	San Gabriel Wilderness	USDA-FS
	I	San Gorgonio Wilderness	USDA-FS
	III	San Jacinto Wilderness	USDA-FS
	IV	San Rafael Wilderness	USDA-FS
	21	IV	Bering Sea Wilderness
IV		Simeonof Wilderness	USDI-FWS
III		Tuxdeni Wilderness	USDI-FWS
I		Mount Denali (McKinley) NP	USDI-NPS
22	IV	Haleakala NP (Hawaii Volcanoes alternate)	USDI-NPS
	II (32)	Hawaii Volcanoes NP	USDI-NPS