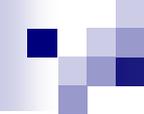


Forum Staff Group

- Task 1. Review the key strategic questions, and the status of information to address them.
- Task 2. Compile an overview of agency monitoring budgets, including proposed adds.
- Task 3. Relate monitoring activities and requests to the key monitoring questions.



Themes:

- Don't duplicate other processes
- Unified, strategic approach
 - Link to policy drivers
- Budget discipline (focus on priorities)
- Coordinate for consistency & efficiency
 - Protocols
 - Data management
 - Monitoring designs / framework



Tell the story:

- Easily understood
- Compelling
- Pertinent to:

Salmon Recovery and Watershed Health



High-level Monitoring Questions

- Many organizations have identified monitoring questions relevant to their mission.
- Our high-level questions need to help “tell the story” of *salmon recovery and watershed health*.
- CMS (adopted in 2007) and the State of Salmon in Watersheds Report are our main roadmaps.

Key Monitoring Questions

- **CMS (2002)**

- 23 key questions with 62 objectives.

- **State of Salmon in Watersheds Report**

- 13 “dashboard” questions (*derived from the Joint Natural Resources Cabinet Salmon Recovery Scorecard*).

Five high-level questions

Lumped the CMS and SOS questions into five **High Level** questions pertinent to “salmon recovery and watershed health”

1. Are salmon populations abundant, productive, and well-distributed?
2. Do habitat, harvest, hatchery, and hydropower activities benefit wild salmon and watershed health, and meet ESA requirements?
3. Is water clean and cool enough, and are flows sufficient for salmon and watershed health?
4. Are we complying with water quality requirements under the CWA and related laws?
5. Are data accessible in a timely way, to agencies and citizens?

Question #1

Are salmon populations abundant, productive, and well distributed?

Current Monitoring

■ Adult abundance	\$7,890,000	Good
■ Smolt monitoring WDFW	\$5,407,000	Fair
■ Smolt monitoring RCO	\$416,000	Fair

Proposed add

■ WDFW Fish in / Fish out	\$506,000	Fair
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Question #2

Do habitat, harvest, hatchery and hydropower activities benefit wild salmon and watershed health, and meet ESA requirements?

Current Monitoring

■ Habitat Project Implementation	\$171,000	
■ Habitat Project effectiveness	\$908,000	Poor
■ Intensively Monitored Watersheds	\$2,943,000	
■ Harvest monitoring	\$1,468,000	Very Good
■ Hatchery marking	\$6,984,000	Fair
■ Stock ID/age structure	\$2,144,000	
■ Invasive species	\$1,654,000	
■ PSAMP Components	\$1,412,000	
■ Fish passage	?	Poor

Proposed add

■ WDFW remote sensing S&T	\$411,000	Poor
■ DNR Aquatic Lands HCP	\$3,960,000	

Question #3

Is water clean and cool enough, and are flows sufficient for salmon and watershed health?

Current Monitoring

■ Long-term ambient WQ monitoring		
• Freshwater rivers/streams (targeted)	\$2,400,000	Poor
• Marine water and sediments	\$2,900,000	Fair
■ Streamflow monitoring	\$2,100,000	Poor
■ Toxics/pesticide monitoring	\$3,000,000	Poor
■ Puget Sound Status & Trends	\$610,000	Poor

Proposed add

■ Ecology/PSP Status & Trends Framework	\$1,300,000	Poor
■ WDA cola add for pesticide monitoring	\$129,000	Poor

Question #4

Are we complying with water quality requirements under the CWA, and related laws?

Current Monitoring

- | | |
|--------------------------------------|-------------|
| ■ TMDL studies and 303(d) monitoring | \$2,900,000 |
| ■ WQ modeling | \$1,900,000 |
| ■ NPDES and other permit compliance | |
| ■ Quality Assurance | \$1,030,000 |

Proposed add

- n/a

Question #5

Are data accessible, in a timely way, to agencies and citizens?

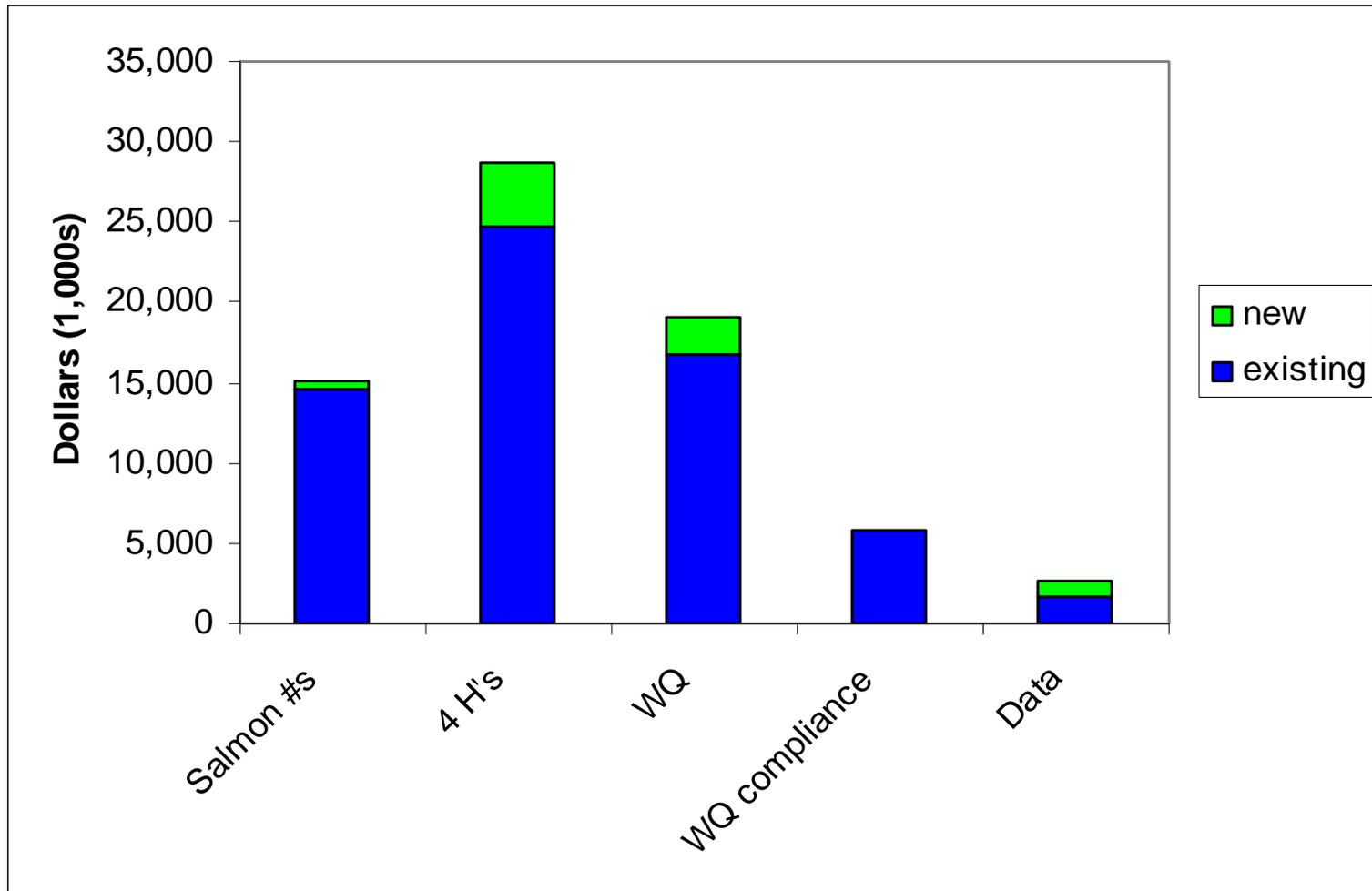
Current Monitoring

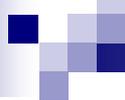
- State of salmon in watersheds report \$40,000
- PRISM
- EIM WQ database and WQ data exchange \$500,000
- Smolt monitoring data exchange (in development)
- Lakes and rivers GIS layer \$253,000
- SSHIAP \$550,000
- WCC conservation practices database \$600,000
- Habitat project work schedule

Proposed add

- Establish common state GIS hydrolayer \$891,000

Budget Level by Key Question





Next Steps:

1. Concurrence on high-level questions?
2. Budget workgroup to continue refining agency budget #s and splits?
3. Establish staff work-group(s) to begin addressing coordination of protocols and data management?
4. Scale issues are part of the story...