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RECLAMATION

# Bureau of Reclamation Columbia-Pacific Northwest Monitoring Update

Heidi McMaster

Regional Integrated Pest Management  
Coordinator

# 2023 Monitoring Update

- In place since mid 2000s
- Reservoirs prioritized based off of risk criteria



Risk Category	Score	Reservoir	Ca Level (mg/L) (*3 weight)	pH (*3 weight)	Total P (ug/L) (*1.5 weight)	Secchi (m) (*.5 weight)	DO (mg/L) (*3 weight)	Mean Temp (*3 weight)	Conductivity (us/cm) (*1.5 weight)	Alkalinity (*.5 weight)	Hardness (*.5 weight)	Chlorophyll (.5 weight)	Total N (ug/L) (1.5 weight)
	81.5	Palisades	4	3	4	2	3	3	4	4	4	4	3
1	81.5	FDR	3	3	3	2	4	4	4	3	3	1	1
2	81	American Falls	4	4	4	2	2	4	4	4	4	3	1
3	81	Cascade	1	4	4	4	4	4	2	1		3	4
4	77	Ririe	4	3	4	2	2	3	4	4	4	1	3
5	74.5	Walcott	4	4	4	4	2	4	4	4	4	3	1
6	74.5	Island Park	3	3	4	2	2	4	4	3	3	4	1
8	73	Bully Creek	4	3	4	4	2	4	4	4	4	3	2
9	70.5	Banks Lake	3	2	3	2	4	4	4	3		1	2
12	69	Haystack	1	4	4	4	4	4	4	2	2	2	1
13	69	Thief Valley	3	3	4		3	4	4	4	3	3	1
15	68	Lake Lowell	3	3	4	4	3	3	4	3		1	2

Risk Category	Score	Reservoir	# Boat Launches into waterbody (*1.5 weight)	Motorized watercraft (*1.5 weight)	Moorage (*1.5 weight)	Water-based Events (*.5 weight)	T&E Species (*1 weight)	# hydro- facilities and water intakes (*.5 weight)
	81.5	Palisades	4	4	4		1	
1	81.5	FDR	4	4	4	4	3	
2	81	American Falls	4	4	1	1	3	4
3	81	Cascade	4	4	4	4	3	
4	77	Ririe	4	4	4		1	
5	74.5	Walcott	2	4	1		1	
6	74.5	Island Park	4	4	4		1	
8	73	Bully Creek	2	4	1		1	
9	70.5	Banks Lake	4	4	1	1	1	
12	69	Haystack	2	4	1		1	
13	69	Thief Valley	2	4	1		1	
15	68	Lake Lowell	2	4	1		1	3

4 x per year		2 x per year		1 x per year		1x every 3	
<b>Palisades</b>	MIN	Spectacle Lake	WAP	Cold Springs	RR	McKay	RR
<b>American Falls</b>	MIN	Conconully	WAP	Unity	BPR	Arrowrock	BPR
<b>Banks</b>	ISM	Lake Chelan	WAP	Agate	RR	Cle Elum	YAV
<b>Cascade</b>	BPR	Salmon	WAP	Rimrock	YAV	Bumping	YAV
<b>Ririe</b>	MIN	Billy Clapp	CBP	Little Wood	MIN	Keechelus	YAV
<b>Island Park</b>	MIN	Moses Lake	CBP	Owyhee	BPR	Wasco	RR
<b>Walcott</b>	MIN	Potholes	CBP	Mann Creek	BPR	Grassy	MIN
<b>Bully Creek</b>	BPR	Scootney	CBP	Kachess	YAV	Fish Lake	RR
<b>Jackson</b>	MIN	Haystack	RR	Anderson Ranch	BPR	Fourmile Lake	RR
		Thief Valley	BPR	Black Canyon	BPR	Crescent Lake	RR
		Wickiup	RR	Henry Hagg	RR		
		Crane Prairie	RR	Howard Prairie	RR		
		Lake Lowell	BPR				
		Prineville	RR				
		Hungry Horse	HH				
		Lake Roosevelt (4x locations in reservoir)	GC				

# 2023 Sample Summary

- 40 Reservoirs Sampled
  - 63 Sample Events
  - 70+ Sample Points
- Samples analyzed via CPLM – Boise Water Quality Lab
- eDNA – Denver Ecological Lab



# Reclamation Priorities

- Snake River Basin Monitoring
- eDNA
- Funding/Partnerships



Heidi McMaster, MPH  
Regional IPM & Mussels Coordinator

208-860-9649 CELL

[hmcmaster@usbr.gov](mailto:hmcmaster@usbr.gov)



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