



# United States Department of the Interior



BUREAU OF RECLAMATION  
Columbia-Cascades Area Office  
1917 Marsh Road  
Yakima, WA 98901-2058

IN REPLY REFER TO:

YAK-5100  
2.2.4.23

VIA ELECTRONIC, FEDEX AND/OR U.S. MAIL

To: Prineville Reservoir Storage Contractors

From: Wylie (Chris) Duke  
Columbia-Cascades Area Office Manager

Subject: Final Storage Allocations for 2023, Prineville Reservoir, Crooked River Federal Reclamation Project, Oregon

Dear Ladies and Gentleman:

The 2023 date of allocation<sup>1</sup> for Prineville Reservoir occurred on May 30, 2023, and this letter is being sent to inform Crooked River Project contractors of their Final 2023 Prineville Reservoir Storage Allocations—*i.e.*, the amount of storage water available for use. Your final 2023 storage allocation can be found in the blue-highlighted Column K on Enclosure 1 and a description of the table can be found in Enclosure 1A.

**Important Reminder:** Project contractors are required to follow the procedure in Enclosure 2 to request delivery of your storage during this irrigation season. This procedure for requesting and delivering storage from Prineville Reservoir during the 2023 season along with weekly storage delivery reports showing your remaining storage allocation balance can be found on Reclamation's website:

<https://www.usbr.gov/pn/cca/projects/PrinevilleResStorage/PrinevilleResStorage.html>.

If you have any questions, please contact Gregg Garnett, Bend Field Office Manager, at (541) 389-6541, extension 226. If you are deaf, hard of hearing, or have a speech disability, please dial 7-1-1 to access telecommunications relay services.

Sincerely,

**WYLIE DUKE** Digitally signed by WYLIE DUKE  
Date: 2023.06.29 15:01:04  
-07'00'

Wylie (Chris) Duke  
Columbia Cascades Area Manager

INTERIOR REGION 9 • COLUMBIA-PACIFIC NORTHWEST

IDAHO, MONTANA\*, OREGON\*, WASHINGTON

\* PARTIAL

Enclosures – 3

cc: William Nashem, Crooked River Water Master OWRD,  
([william.d.nashem@water.oregon.gov](mailto:william.d.nashem@water.oregon.gov))  
Bruce Scanlon, Ochoco Irrigation District ([bruceoid@crestviewcable.com](mailto:bruceoid@crestviewcable.com))  
Peter Cooper, Reclamation, ([pcooper@usbr.gov](mailto:pcooper@usbr.gov))  
Kain Shaffer, Reclamation, ([kshaffer@usbr.gov](mailto:kshaffer@usbr.gov))  
Distributed to Dry Year Plan Distribution List electronically

## Attachment 1: Final Storage Allocation Table

May 30, 2023

Prineville Reservoir Storage Contracts			Final Water Year 2023 Storage Allocations								
A	B	C	D	E	F	G	H	I	J	K	L
Contractor	Contract Amount (acre-feet)	% of Contracted	October 1, 2022 Carryover Storage (acre-feet)	Carryover Storage Use prior to the Day of Allocation (acre-feet)	New Fill (acre-feet)	Reserved for Projected 10 cfs Releases from Storage (acre-feet)	WY2023 Allocation Before Loss (acre-feet)	Estimated Reservoir Losses (acre-feet)	Estimated Sedimentation Loss (acre-feet)	WY2023 Storage Allocation After Loss (acre-feet)	WY2023 Storage Allocation After Loss (% of Contract)
Ochoco Irrigation District	57,899	67.24%	0.0	0.0	57,899.0	0.0	57,899.0	1,242.6	1,002.9	55,653.5	96.12%
Peoples Irrigation Co.	3,497	4.06%	0.0	0.0	3,497.0	0.0	3,497.0	75.0	60.6	3,361.4	96.12%
Ulupalakua Ranch, Inc.	2,176	2.53%	0.0	0.0	2,176.0	0.0	2,176.0	46.7	37.7	2,091.6	96.12%
Quail Valley Ranch, LLC	1,243	1.44%	0.0	0.0	1,243.0	0.0	1,243.0	26.7	21.5	1,194.8	96.12%
Quail Valley Ranch II, LLC	1,205	1.40%	0.0	0.0	1,205.0	0.0	1,205.0	25.9	20.9	1,158.3	96.12%
City of Prineville	724	0.84%	0.0	0.0	724.0	0.0	724.0	15.5	12.5	695.9	96.12%
William Sigman	350	0.41%	0.0	0.0	350.0	0.0	350.0	7.5	6.1	336.4	96.12%
Low Line Ditch Company	330	0.38%	0.0	0.0	330.0	0.0	330.0	7.1	5.7	317.2	96.12%
Jack & Kathryn Riley	286	0.33%	0.0	0.0	286.0	0.0	286.0	6.1	5.0	274.9	96.12%
Larry & Barbara Goss	135	0.16%	0.0	0.0	135.0	0.0	135.0	2.9	2.3	129.8	96.12%
Butler Ranch, Inc.	104	0.12%	0.0	0.0	104.0	0.0	104.0	2.2	1.8	100.0	96.12%
Neary Living Trust	97	0.11%	0.0	0.0	97.0	0.0	97.0	2.1	1.7	93.2	96.12%
South Valley Bank & Trust	84	0.10%	0.0	0.0	84.0	0.0	84.0	1.8	1.5	80.7	96.12%
Clara Varcoe	50	0.06%	0.0	0.0	50.0	0.0	50.0	1.1	0.9	48.1	96.12%
Crooked River Water LLC	39	0.05%	0.0	0.0	39.0	0.0	39.0	0.8	0.7	37.5	96.12%
Crooked River Water LLC	19	0.02%	0.0	0.0	19.0	0.0	19.0	0.4	0.3	18.3	96.12%
Nick & Mary Maithonis	19	0.02%	0.0	0.0	19.0	0.0	19.0	0.4	0.3	18.3	96.12%
Robert Dellenback	16	0.02%	0.0	0.0	16.0	0.0	16.0	0.3	0.3	15.4	96.12%
McKay Creek Land (OID)	2,740	3.18%	0.0	0.0	2,740.0	0.0	2,740.0	58.8	47.5	2,633.7	96.12%
NUID Temp Contract	10,000	11.61%	0.0	0.0	10,000.0	0.0	10,000.0	214.6	173.2	9,612.2	96.12%
City of Prineville 5100	5,100	5.92%	0.0	0.0	5,100.0	0.0	5,100.0	109.5	88.3	4,902.2	96.12%
<b>Contracted Storage Totals</b>	<b>86,113</b>	<b>100%</b>	<b>0.0</b>	<b>0.0</b>	<b>86,113.0</b>	<b>0.0</b>	<b>86,113.0</b>	<b>1,848.1</b>	<b>1,491.6</b>	<b>82,773.3</b>	<b>96.12%</b>
<b>Uncontracted Storage</b>	<b>62,520</b>		<b>0.0</b>	<b>0.0</b>	<b>62,520.0</b>	<b>0.0</b>	<b>62,520.0</b>	<b>1,341.7</b>	<b>1,083.0</b>	<b>60,095.3</b>	<b>96.12%</b>
<b>Total Active Capacity</b>	<b>148,633</b>		<b>0.0</b>	<b>0.0</b>	<b>148,633.0</b>	<b>0.0</b>	<b>148,633.0</b>	<b>3,189.8</b>	<b>2,574.6</b>	<b>142,868.6</b>	<b>96.12%</b>

See Attachment 1A for Storage Allocation Table Descriptions

# Attachment 1A: Final Storage Allocation Table Descriptions

May 30, 2023

Column	Column Title	Column Description
A	Contractor	The name of each contractor
B	Contract Amount (acre-feet)	The amount of the storage contract space for each contractor
C	% of Contracted	The % of the total contracted space for each contractor
D	October 1, 2022 Carryover Storage (acre-feet)	Carryover storage from the October 1, 2022 Final Storage Carryover Table is not applicable due to reservoir fill.
E	Carryover Storage Use prior to the Day of Allocation (acre-feet)	Carryover Storage use prior to the day of allocation is not applicable due to reservoir fill.
F	New Fill (acre-feet)	New fill during the winter and spring of 2023 totalled 148,633 acre-feet due to reservoir fill.
G	Reserved for Projected 10 cfs Releases from Storage (acre-feet)	Not applicable for the 2023 season because flows past A.R. Bowman Dam are anticipated to be in excess of 10 cfs for other purposes.
H	WY2023 Allocation Before Loss (acre-feet)	WY2023 Allocation Before Loss for each account is calculated as Carryover Storage (Column D) - Storage Use Prior to Day of Allocation (Column E) + New Fill (Column F) - 10 cfs Reservation (Column G). For 2023 this equals 100% of the contract amount due to reservoir fill.
I	Estimated Reservoir Losses (acre-feet)	Storage allocations have been adjusted proportionally based on Allocation before Loss to account for estimated reservoir losses (e.g. evaporation, seepage, etc.). The amount of 3,189.8 acre-feet was determined based on a historical analysis of subtracting May 30 (Day of Allocation) through September 30 (end of water year) computed unregulated flow (change in storage + discharge) volume at Prineville Reservoir from the May 30 through September 30 flow volume at the Crooked River above Prineville Reservoir near Post. Historical years with > +/- 1 Standard Deviation were excluded as outliers, and the average for the non-excluded 1994-2022 period was used.
J	Estimated Sedimentation Loss (acre-feet)	Storage allocations have been adjusted proportionally based on Allocation before Loss to account for approximately 2,574.6 acre-feet of sedimentation that is estimated to have occurred in the active reservoir space below the 2023 day of allocation reservoir elevation (full pool 3234.8 feet) since the time of the 1998 Prineville Reservoir Sedimentation Survey: ( <a href="https://www.usbr.gov/tsc/techreferences/reservoir/Prineville%20Reservoir%201998%20Sedimentation%20Survey.pdf">https://www.usbr.gov/tsc/techreferences/reservoir/Prineville%20Reservoir%201998%20Sedimentation%20Survey.pdf</a> ). The estimate is based on guidance provided in the study that used a theoretical distribution of future sediment in the reservoir computed using the Empirical Area Reduction Method.
K	WY2023 Storage Allocation After Loss (acre-feet)	WY2023 Storage Allocation After Loss for each account is calculated as WY2023 Allocation Before Loss (Column H) - Estimated Reservoir Losses (Column I) - Estimated Sedimentation Loss (Column J). This column represents the amount of storage water each contractor has available for the 2023 Season. <b>NOTE: The 2023 Storage Allocations shown in Column K are not reduced for 2023 storage allocation that has already been released for the user this season. See the latest weekly storage report for current remaining storage allocation balance.</b>
L	WY2023 Storage Allocation After Loss (% of Contract)	WY2023 Storage Allocation After Loss (% of Contract) is calculated as WY2023 Storage Allocation After Loss (Column K) ÷ Contract Amount (Column B).

## **Attachment 2: Requesting and Delivering Storage Water**

**Date: March 17, 2023**

The following procedure describes the process for requesting and delivering storage water from Prineville Reservoir. To allow flexibility to adapt to changing hydrologic conditions or other circumstances, the procedure set out below is subject to change. The latest version of the procedure can be found on Reclamation's website at:

<https://www.usbr.gov/pn/cao/projects/PrinevilleResStorage/PrinevilleResStorage.html>

Anyone with questions regarding this procedure, or who would also like to receive email notifications of procedure updates, should contact Gregg Garnett, Reclamation Bend Field Office Manager, at [ggarnett@usbr.gov](mailto:ggarnett@usbr.gov) or (541) 389-6541. Weekly storage reports will be posted on Reclamation's website.

Step 1: To request storage water, contractors must contact the Ochoco Irrigation District (OID) office (541-447-6449) prior to each Tuesday by 12:00 pm PT, requesting their desired storage water flow rate from Prineville Reservoir for the subsequent 7-day Wednesday through Tuesday period.

Step 2: OID, Reclamation, and the Watermaster will coordinate on Tuesday afternoons to determine the final flow rate target from Prineville Reservoir with consideration of the storage water flow rate orders from Step 1, reservoir inflow, and other pertinent factors.

Step 3: OID will travel to Prineville Reservoir and will set the outflow to the flow rate determined in Step 2 to the extent practical on Wednesday morning, unless conditions dictate otherwise.

Step 4: Reclamation will compute storage water remaining for each contractor based on the contractor's storage allocation and to-date storage water delivered from Prineville Reservoir. A Weekly Storage Report will be posted on Reclamation's website above as soon as practical each week.