



IN REPLY REFER TO:

United States Department of the Interior

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



CCA-1000
2.2.4.23

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

To: Prineville Reservoir Storage Contractors

Subject: Final Storage Allocations for 2022, Prineville Reservoir, Crooked River Federal Reclamation Project, Oregon

Dear Ladies and Gentlemen:

The 2022 date of allocation¹ for Prineville Reservoir occurred on May 19, 2022, and this letter is being sent to inform Crooked River Project contractors of their Final 2022 Prineville Reservoir Storage Allocations—*i.e.*, the amount of storage water available for use. No evidence was received by the Bureau of Reclamation to support changes to carryover quantities described in the April 8, 2022 letter, so carryover amounts shown in the yellow-highlighted Column D on Attachment 1 have remain unchanged. Your final 2022 storage allocation can be found in the blue-highlighted Column K on Attachment 1.

Important Reminder: As indicated in our earlier correspondence of April 8, 2022, project contractors are required to follow the procedure (included as an enclosure on this letter) to request delivery of your storage during this irrigation season. This procedure for requesting and delivering storage from Prineville Reservoir during the 2022 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/cca0/projects/PrinevilleResStorage/PrinevilleResStorage.html>

If you have any questions, please contact Mr. Gregg Garnett, Bend Field Office Manager, at (541) 389-6541, ext 226.

Sincerely,

TALMADGE
OXFORD

Digitally signed by
TALMADGE OXFORD
Date: 2022.05.27 07:33:34
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Talmadge Oxford
Columbia-Cascades Area Manager

Enclosures

¹ "Date of allocation" refers to the date on which the reservoir reaches its maximum storage content. CC. See the next page.

cc: Kyle Gorman, Oregon Water Resources Department Regional Manager
Bill Nashem, Crooked River Watermaster

Identical Letters Sent To:

NOTE: Names and Addresses Redacted from Original to protect privacy

Link to Dry Year Plan Distribution List provided electronically.

Attachment 1: Final Storage Allocation Table

May 24, 2022

Prineville Reservoir Storage Contracts			Final Water Year 2022 Storage Allocations								
A	B	C	D	E	F	G	H	I	J	K	L
Contractor	Contract Amount (acre-feet)	% of Contracted	October 1, 2021 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 7/16-10/26 (acre-feet)	WY2022 Allocation Before Loss (acre-feet)	Estimated Reservoir Losses (acre-feet)	Estimated Sedimentation Loss (acre-feet)	WY2022 Storage Allocation After Loss (acre-feet)	WY2022 Storage Allocation After Loss (% of Contract)
Ochoco Irrigation District	57,899	67.24%	13,475	4,212	24,987	1,294	32,956	2,342	1,050	29,564	51%
Peoples Irrigation Co.	3,497	4.06%	814	0	1,509	78	2,245	160	63	2,022	58%
Ulupalakua Ranch, Inc.	2,176	2.53%	506	0	939	49	1,397	99	39	1,258	58%
Quail Valley Ranch, LLC	1,243	1.44%	289	0	536	28	798	57	23	719	58%
Quail Valley Ranch II, LLC	1,205	1.40%	280	0	520	27	774	55	22	697	58%
City of Prineville	724	0.84%	168	0	312	16	465	33	13	419	58%
William Sigman	350	0.41%	81	0	151	8	225	16	6	202	58%
Low Line Ditch Company	330	0.38%	77	0	142	7	212	15	6	191	58%
Jack & Kathryn Riley	286	0.33%	67	0	123	6	184	13	5	165	58%
Larry & Barbara Goss	135	0.16%	31	0	58	3	87	6	2	78	58%
Butler Ranch, Inc.	104	0.12%	24	0	45	2	67	5	2	60	58%
Billie Estridge	97	0.11%	23	0	42	2	62	4	2	56	58%
South Valley Bank & Trust	84	0.10%	20	0	36	2	54	4	2	49	58%
Clara Varcoe	50	0.06%	12	0	22	1	32	2	1	29	58%
Crooked River Water LLC	39	0.05%	9	0	17	1	25	2	1	23	58%
Crooked River Water LLC	19	0.02%	4	0	8	0	12	1	0	11	58%
Nick & Mary Maithonis	19	0.02%	4	0	8	0	12	1	0	11	58%
Robert Dellenback	16	0.02%	4	0	7	0	10	1	0	9	58%
McKay Creek Land (OID)	2,740	3.18%	2,740	2,740	1,182	61	1,121	80	50	992	36%
NUID Temp Contract	10,000	11.61%	0	0	4,316	223	4,092	291	181	3,620	36%
City of Prineville 5100	5,100	5.92%	5,100	5,100	2,201	114	2,087	148	92	1,846	36%
Contracted Storage Totals	86,113	100%	23,729	12,052	37,162	1,924	46,915	3,334	1,561	42,020	49%
Uncontracted Storage	62,520		6,361	6,361	0	0	0	0	0	0	0%
Total Active Capacity	148,633		30,090	18,413	37,162	1,924	46,915	3,334	1,561	42,020	28%

2022 Day of Allocation was May 19, 2022

See Attachment 1A for Storage Allocation Table Descriptions

Attachment 1A: Final Storage Allocation Table Descriptions

May 24, 2022

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, 2021 Carryover Storage (acre-feet)	Carryover storage into the 2022 season consists of the physical reservoir contents at the end of the day September 30, 2021 (30,090 acre-feet). McKay Creek Land OID (2,740 acre-feet), City of Prineville (5,100 acre-feet), and Uncontracted Storage (6,361 acre-feet) carried over 100% of their allocation into the 2022 season (totalling 14,201 acre-feet). NUID Temp Contract, no carryover entitlement. The remaining 15,889 acre-feet of carryover storage was distributed proportionally based on Contract Amount to the remaining contractors.
E	Carryover Storage Use prior to the Day of Allocation (acre-feet)	Carryover Storage use prior to the day of allocation totalled 18,413 acre-feet for winter flows 10/1/2021 through 4/10/2022: => 5,100 acre-feet of City of Prineville => 6,361 acre-feet of uncontracted storage => 2,740 acre-feet of McKay Creek Land (OID) storage and 4,212 acre-feet of Ochoco Irrigation District storage. OID storage use is adjusted for natural flow releases for diversions downstream of the dam that occurred starting 2/23 per the watermaster.
F	New Fill (acre-feet)	New fill during the winter and spring of 2022 totalled 37,162 acre-feet. The new fill was distributed proportionally based on Contract Amount to all contracted accounts.
G	Reserved for Projected 10 cfs Releases from Storage 7/16-10/26 (acre-feet)	1,924 acre-feet of New Fill has been reserved proportionally to provide 10 cfs of releases from Prineville Dam after an assumed date when irrigation deliveries cease (assumed to be 7/16 due to uncertainty) through the estimated date when natural flow into the reservoir becomes greater than 10 cfs (10/26) or releases past the dam of more than 10 cfs are being made for other purposes (including the Deschutes Basin Habitat Conservation Plan). Inflow projections are based on minimum flow data from 1993-2021 period for the Prineville River above Reservoir near Post gauge (CRPO); the volume has been calculated as that amount necessary to supplement the reservoir inflow.
H	WY2022 Allocation Before Loss (acre-feet)	WY2022 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).
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 3,334 acre-feet was determined based on a historical analysis of subtracting May 19 through September 30 computed unregulated flow (change in storage + discharge) volume at Prineville Reservoir from the May 19 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 1994-2021 period was used.
J	Estimated Sedimentation Loss (acre-feet)	Storage allocations have been adjusted proportionally based on Contract Amount to account for approximately 1,561 acre-feet of sedimentation that is estimated to have occurred in the contracted space below the 2022 day of allocation reservoir elevation since the time of the 1998 Prineville Reservoir Sedimentation Survey: (https://www.usbr.gov/tsc/techreferences/reservoir/Prineville%20Reservoir%201998%20Sedimentation%20Survey.pdf). 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	WY2022 Storage Allocation After Loss (acre-feet)	WY2022 Storage Allocation After Loss for each account is calculated as WY2022 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 2022 Season.
L	WY2022 Storage Allocation After Loss (% of Contract)	WY2022 Storage Allocation After Loss (% of Contract) is calculated as WY2022 Storage Allocation After Loss (Column K) ÷ Contract Amount (Column B).

Attachment 2: Requesting and Delivering Storage:

Date: May 24, 2022

The following procedure describes the process for requesting and delivering storage from Prineville Reservoir during the 2022 season. To allow flexibility to adapt to changing hydrologic conditions or other circumstances throughout the 2022 irrigation season, 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/cca0/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 or 541-389-6541. Weekly storage reports will be posted on Reclamation's website.

Step 1: Beginning Tuesday May 31, 2022, and each subsequent Tuesday for the remainder of the contractor's irrigation season or until contractor's storage is exhausted, the contractor will call the Ochoco Irrigation District (OID) office (541-447-6449) by 12:00 pm PT to place an order for their individual desired storage 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 individual storage 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 remaining for each contractor based on the contractor's storage allocation and to-date storage delivered from Prineville Reservoir. A Weekly Storage Report will be posted on Reclamation's website (<https://www.usbr.gov/pn/cca0/projects/PrinevilleResStorage/PrinevilleResStorage.html>) as soon as practical each week.