



Winter Water Prep Meeting

October 16, 2020

Last Year's Ending Totals

WINTER WATER PROGRAM REPORT

COLORADO DIVISION OF WATER RESOURCES

DIVISION ENGINEER WATER DIVISION TWO

PROVISIONAL

NOVEMBER 15, 2019 THROUGH MARCH 14, 2020

Entity	0-100,000 AF System Percent	Theoretical 100,000 AF System	Amity & Holbrook	103,106 AF System Percent	Theoretical 103,106 AF System	Gross Theoretical Total	Amity Transit Loss	Net Theoretical Total	Colorado Canal System Total	Pueblo Reservoir Total	John Martin Reservoir Total	Canal Diversions	System Status
Bessemer	21.50	6192.00	-----	21.50	738.21	6930.21	35.49	6894.71	-----	6894.71	-----		0.00
Highline	28.87	8314.56	-----	28.87	991.26	9305.82	47.66	9258.16	-----	9258.16	-----		0.00
Oxford	6.96	2004.48	-----	6.96	238.97	2243.45	11.49	2231.96	-	2,231.96	-----		0.00
Catlin	31.72	9135.36	-----	31.72	1089.11	10224.47	52.37	10172.11	-----	10,172.11	-----		0.00
Consolidated	9.57	2756.16	-----	9.57	328.59	3084.75	15.80	3068.95	-----	3,068.95	-		0.00
Riverside	0.46	132.48	-----	0.46	15.79	148.27	0.76	147.51	-----	147.51	-----		0.00
West Pueblo	0.92	264.96	-----	0.92	31.59	296.55	1.52	295.03	-----	295.03	-----		0.00
Colorado	15.01	10687.12	-----	17.07	1758.31	12445.43	63.74	12381.69	11,193.87	1,187.82	-----	-	0.00
Holbrook	11.97	8522.64	356.00	14.05	1447.23	10325.87	52.89	10272.98	-----	10,272.98	-----	-	0.00
Fort Lyon	53.60	38163.20	-----	50.88	5240.93	43404.13	-----	43404.13	0.00	957.58	0.00	42,446.54	0.00
Amity	19.42	13827.04	2750.00	18.00	1854.10	18431.14	94.40	18336.74	-----	-----	11,955.47	6,381.28	0.00
Totals:	200.00	100000.00	3106.00	200.00	13734.08	116840.08	376.11	116463.97	11,193.87	44,486.81	11,955.47	48,827.82	0.00

Pueblo Balance Account:	-												
System Grand Total:	116,840.08												
										Pueblo Balance Account Usage		0.00	
										System Grand Total At This Time:			
										Last Year = 100,072 AF			
										Last Five Year Average = 130,216 AF			
										Last 20-Year Average = 131,418 AF			

Comments:	Stopped Ft Lyon Storage Canal diversions on 2/18 to deliver all streamflow to JMR for the remainder of the season. Will be moving the Balance Account water in Pueblo Rsvr to JMR to help balance the system								Arkansas @ Las Animas		Winter Water @ JMR		
									Winter Water	Transit Losses			
Winter Conservation Storage In John Martin Reservoir on March 14th										Amity	12331.58	376.11	11955.47
Current Year = 32,161.60 AF										Fort Lyon	0.00	0.00	0.00
Last Year = 28,428.38 AF										Consolidated		0.00	0.00
1950 - 1975 Average = 23,024.00 AF										Total:	12331.58	376.11	11955.47



19 / 20 Timeline and Actions

- ▶ Ft Lyon started diverting on November 16 and continued through February 19
- ▶ Colorado Canal started diverting on November 16 and continued through December 10
- ▶ There were no diversions to the Holbrook nor Great Plains
- ▶ The river through Pueblo maintained 100 cfs through the season

Shortfall in John Martin Reservoir

- ▶ We had trouble getting enough water to JMR resulting in Amity having all the storage in JMR and still had to have 6,381 a/f in Adobe Reservoir.
- ▶ That was even with the Ft Lyon stopping on February 19th.
- ▶ Storage in JMR:

▶ Nov 16 – Nov 30	934.15 a/f
▶ Dec 1 – Dec 15	750.82 a/f
▶ Dec 16 – Dec 31	663.78 a/f
▶ Jan 1 – Jan 15	652.90 a/f
▶ Jan 16 – Jan 31	545.80 a/f
▶ Feb 1 – Feb 15	529.26 a/f
▶ Feb 16 – Feb 29	2,649 a/f
▶ Mar 1 – Mar 15	5,229.85 a/f

Historical Storage

Winter Water Totals





Current WW Carryover Balances in Pueblo Reservoir

▶ Colorado Canal	760 a/f
▶ Consolidated	146 a/f
▶ Highline	1,778 a/f
▶ Oxford	231 a/f
▶ Riverside	<u>40 a/f</u>
▶ Total	2,955 a/f

PWWSP “Fall Meeting”

October 16, 2020

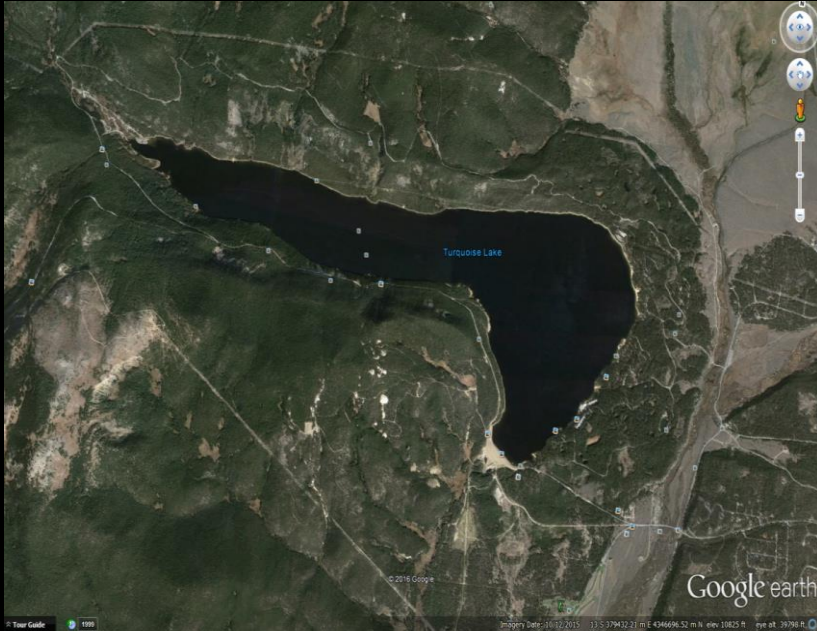
✓ Available Storage

✓ Above Pueblo

✓ Below Pueblo

✓ 2020 & 2021 PWWSP Estimate

Turquoise Reservoir



- Total Storage Around Nov. 14th
 - 111,398 Af (2014)
 - 114,986 Af (2015)
 - 113,006 Af (2016)
 - 107,919 Af (2017)
 - 99,443 Af (2018)
 - 122,628 Af (2019)
 - 93,639 (10/13/2020)
- Total capacity:
 - 129,440 Ac/Ft

Twin Lakes Reservoir



- Total Storage Around Nov. 14th
 - 121,535 Af (2014)
 - 113,416 Af (2015)
 - 104,596 Af (2016)
 - 114,779 Af (2017)
 - 97,756 Af(2018)
 - 125,031 Af (2019)
 - 103,022 (10/13/2020)
- Total capacity:
 - 141,000 Ac/Ft

Clear Creek Reservoir



- Total Storage Around Nov. 14th
 - 6,227 Af (2014)
 - 6,102 Af (2015)
 - 6,063 Af (2016)
 - 5,863 Af (2017)
 - 5,801 Af (2018)
 - 6,254 Af (2019)
 - 4,553 (10/13/2020)
- Total capacity:
 - 9,213 Ac/Ft

Deweese Reservoir



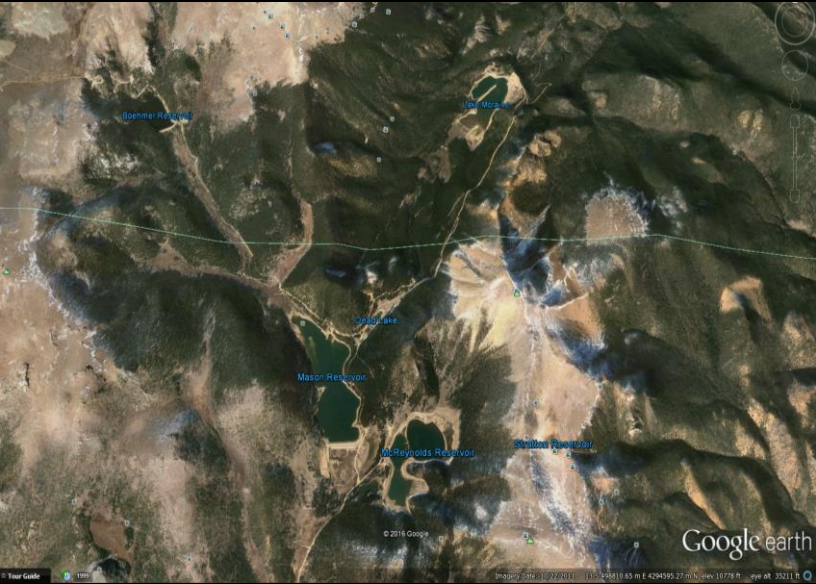
- Total Storage Around Nov. 14th
 - 2,210 Af (2014)
 - 2,843 Af (2015)
 - 2,183 Af (2016)
 - 3,499 Af (2017)
 - 1,080 Af (2018)
 - 1,929 Af (2019)
 - 1,395 (10/13/2020)
- Total capacity:
 - 4,338 Ac/Ft

Pisgah Reservoir



- Total Storage Around Nov. 14th
 - 709 Af (2014)
 - 2,192 Af (2015)
 - 1,675 Af (2016)
 - 1,801 Af (2017)
 - 1,243 Af (2018)
 - 1,319 Af (2019)
 - 1,121 (10/13/2020)
- Total capacity:
 - 2,192 Ac/Ft

South Slope Reservoirs



- Total Storage Around Nov. 14th
 - 5,382 Af (2014)
 - 5,342 Af (2015)
 - 2,719 Af (2016)
 - 2,782 Af (2017)
 - 2,700 Af (2018)
 - 4,570 Af (2019)
 - 3,668 (10/13/2020)
- Total capacity:
 - 5,416Ac/Ft

Skagway Reservoir



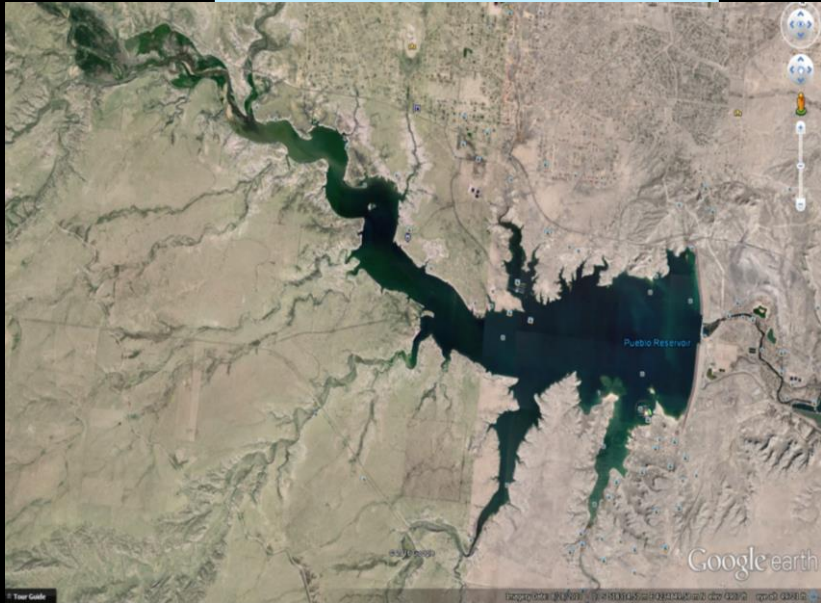
- Total Storage Around Nov. 14th
 - 1,744 Af (2014)
 - 1,915 Af (2015)
 - 1,808 Af (2016)
 - 2,074 Af (2017)
 - 1,854 Af (2018)
 - 1,659 Af (2019)
 - 1,758 (10/13/2020)
- Total capacity:
 - 2,066 Ac/Ft

Brush Hollow Reservoir

- Total Storage Around Nov. 14th
 - 805 Af (2014)
 - 2,263 Af (2015)
 - 1,??? Af (2016)
 - 3,399 Af (2017)
 - 1,859 Af (2018)
 - 1,092 Af (2019)
 - 990 (10/13/2020)
- Total capacity:
 - 3,933 Ac/Ft



Pueblo Reservoir



- Total Storage Around Nov. 14th
 - 171,493 Af (2014)
 - 182,949 Af (2015)
 - 182,229 Af (2016)
 - 206,187 Af (2017)
 - 186,210 Af (2018)
 - 190,959 Af (2019)
 - 178,192 Af (10/13/2020)
- Total capacity:
 - 311,384 Ac/Ft including the Joint Use Pool
 - 245,373 Ac/Ft Not including the Joint Use Pool
 - Estimated 37,587 Ac/Ft of PWWSP Water on March 15, 2020
 - 2,955 Ac/Ft Carry-Over
(2,955+37,587=40,542)

Colorado Canal System



- Total Storage Around Nov. 14th
 - 27,429 Af (2014)
 - 32,525 Af (2015)
 - 29,371 Af (2016)
 - 50,068 Af (2017)
 - 22,362 Af (2018)
 - 32,243 Af (2019)
 - 14,775 (10/13/2020)
- Total capacity:
 - 52,517 Ac/Ft

Holbrook Canal System



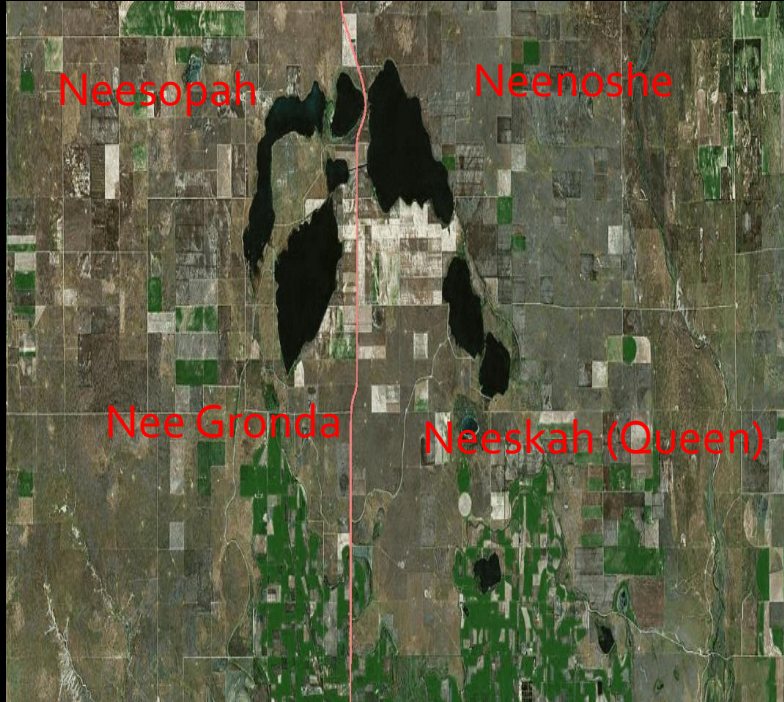
- Total Storage Around Nov. 14th
 - 3,104 Af (2014)
 - 2,061 Af (2015)
 - 1,663 Af (2016)
 - 4,009 Af (2017)
 - 366 Af (2018)
 - 3,409 Af (2019)
 - 13 (10/13/2020)
- Total capacity:
 - 9,700 Ac/Ft

Fort Lyon Canal System



- Total Storage Around Nov. 14th
 - 6,930 Af (2014)
 - 38,564 Af (2015)
 - 48,279 Af (2016)
 - 64,219 Af (2017)
 - 5,728 Af (2018)
 - 12,180 (2019)
 - 8,938 (10/13/2020)
- Total capacity:
 - 78,720 Ac/Ft

Great Plains System



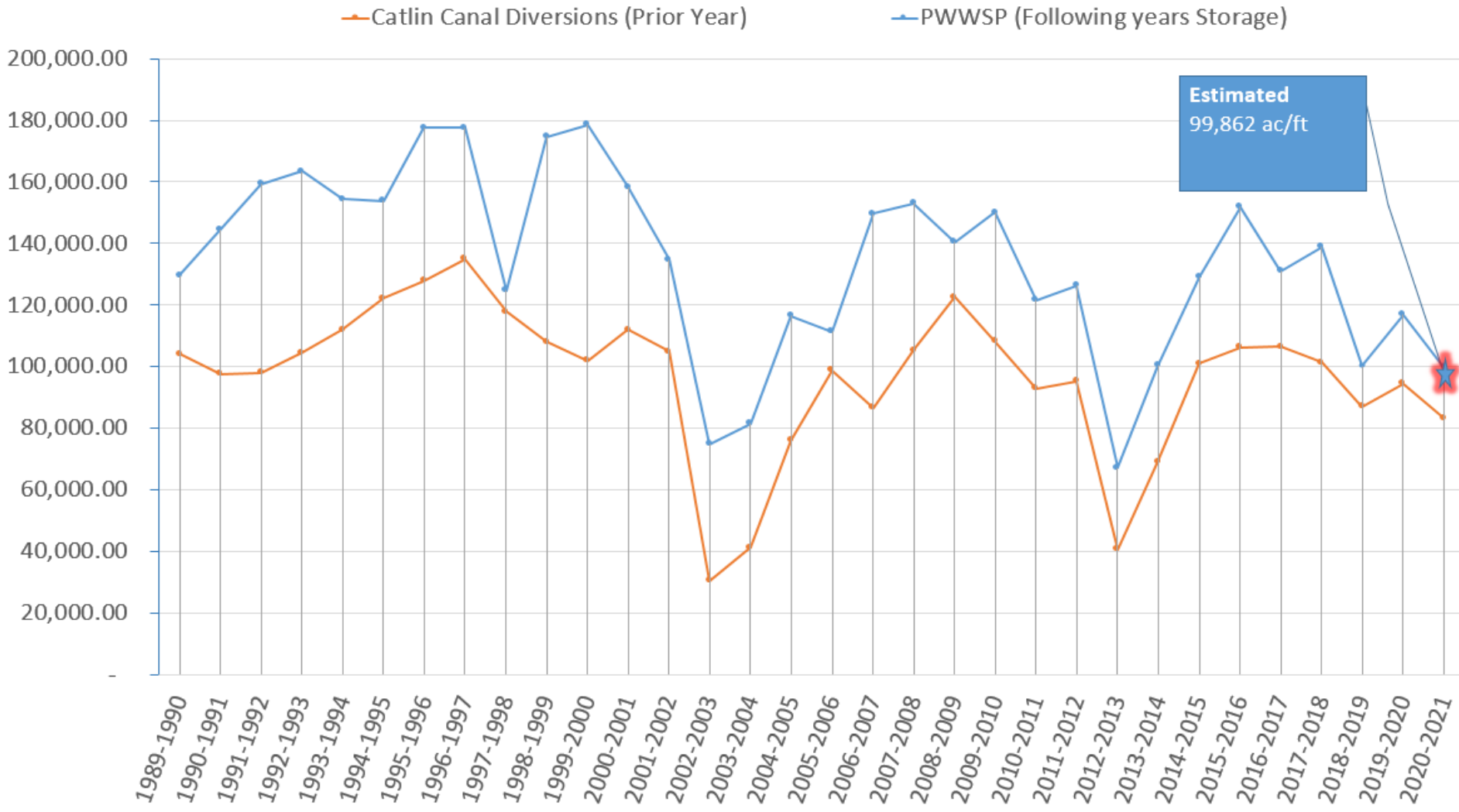
- Total Storage Around Nov. 14th
 - 0 Af (2014)
 - 7,902 Af (2015)
 - 6,855 Af (2016)
 - 34,000 Af (2017)
 - 0 Af Active Pool (2018)
 - 0 Active Pool (2019)
 - 0 (10/13/2020)
- Total capacity:
 - 256,000 Ac/Ft

John Martin Reservoir

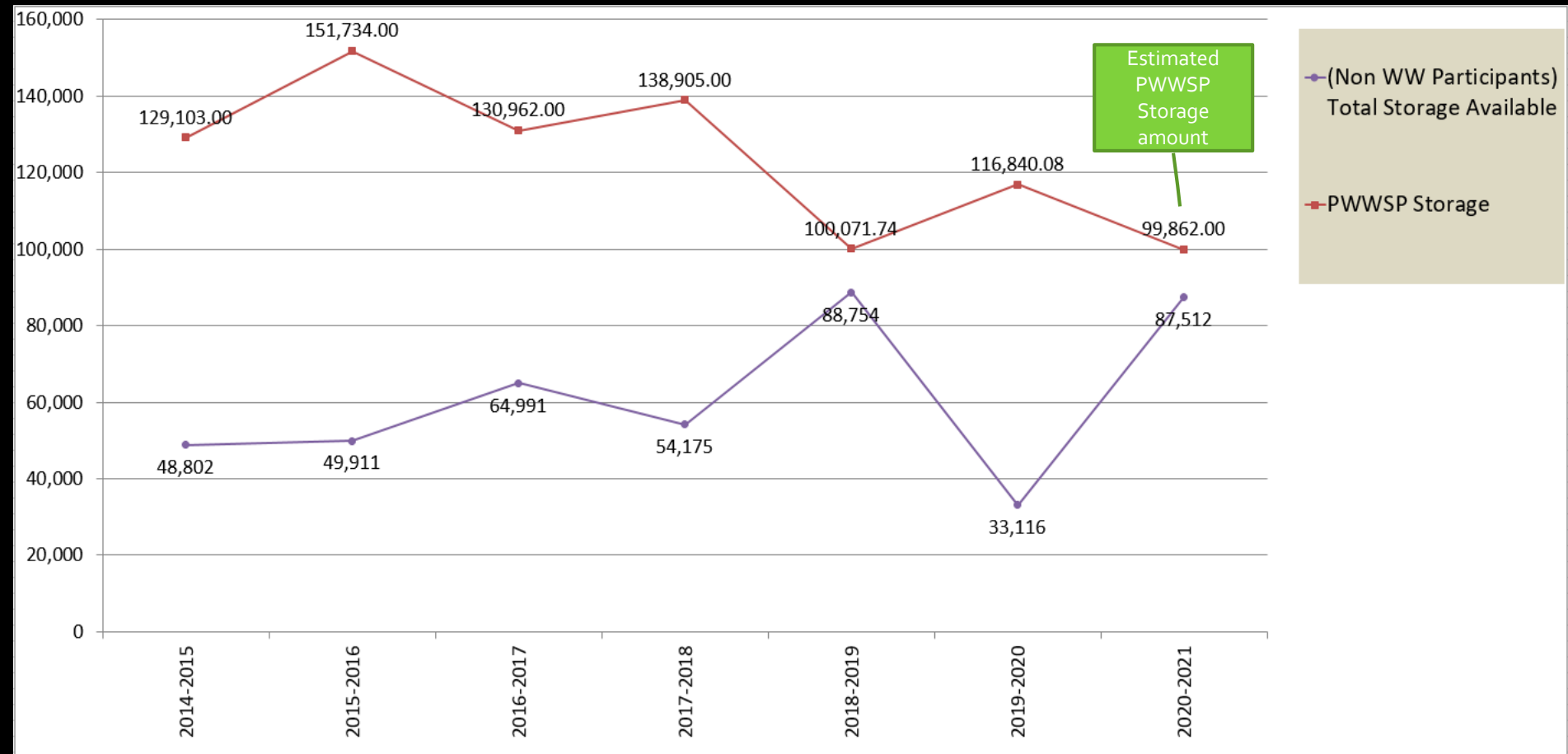


- Total Storage Around Nov. 14th
 - 9,167 Af (2014)
 - 209,072 Af (2015)
 - 102,273 Af (2016)
 - 251,447 Af (2017)
 - 133,524 Af (2018)
 - 72,147 Af (2019)
 - 34,447 (10/13/2020)
 - Total capacity:
 - 340,703 Ac/Ft
 - Only 75,000 for PWWSP water.
- Including Permanent pool





How upstream available storage relates to PWWSP



Predictions for 2021 PWWSP

- Van Oort's: 99,862 Ac/Ft
- Tyner's: 75,000 Ac/Ft
- Phil Reynolds: 70,000 Ac/Ft

November 15th @ 00:00

- End of Irrigation Season!!!!
- All PWWSP Participants Close Their Headgates
- Begin Winter Storage
 - Pueblo Reservoir reduced to 80 cfs
 - (100 cfs w\ Fish Hatchery)
 - Fort Lyon Storage Canal Sweeps River

A 3D rendered scene featuring a large, vibrant red question mark on the left side. To its right stands a white, stylized 3D human figure in a classic 'thinking' pose, with its hand resting on its chin. A horizontal grey band with white text is superimposed across the middle of the image, partially overlapping the question mark and the figure. The background is plain white.

ARE THERE ANY QUESTIONS?

FYI

- DWR is starting pond enforcement this fall.
- DWR will be looking at the distance from the point of diversion to measuring device this next irrigation season.