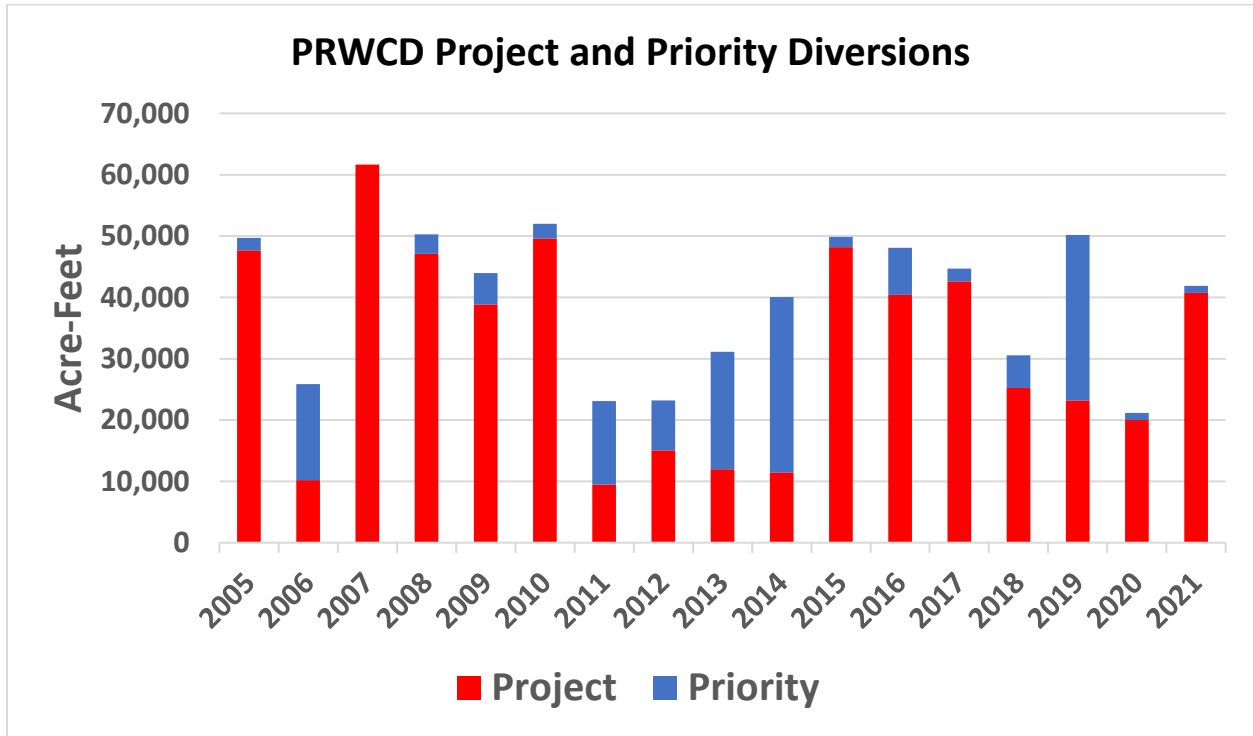


PURGATOIRE RIVER WATER CONSERVANCY DISTRICT

ARKANSAS RIVER COMPACT ADMINISTRATION MEETING – DECEMBER 9, 2021

PRWCD OPERATIONS SUMMARY - 2021



PRWCD 2005-2021 Project and Priority Diversions:

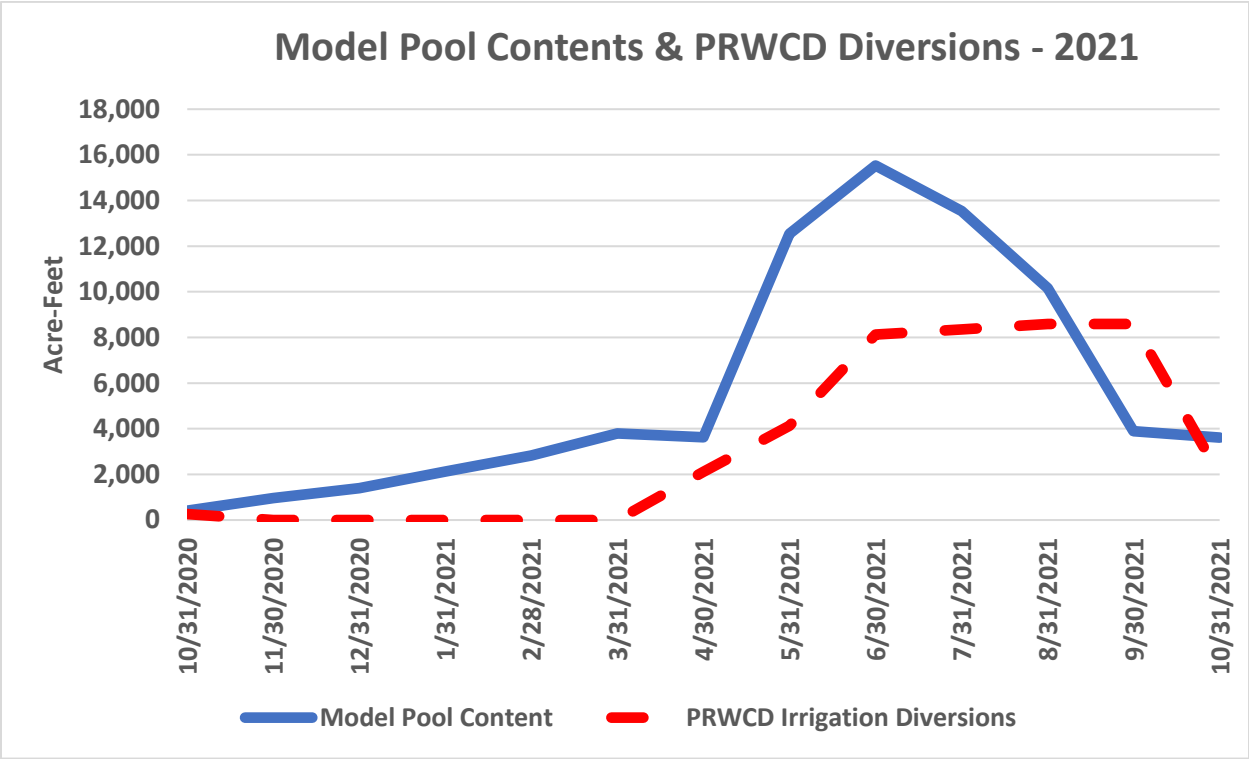
PRWCD Total Diversions for 2021: 41,863 ace-feet;

2005-2020 average is 40,425 acre-feet.

Project Administration Diversion Component = 40,709 acre-feet.

Priority Administration Diversion Component = 1,154 acre-feet.

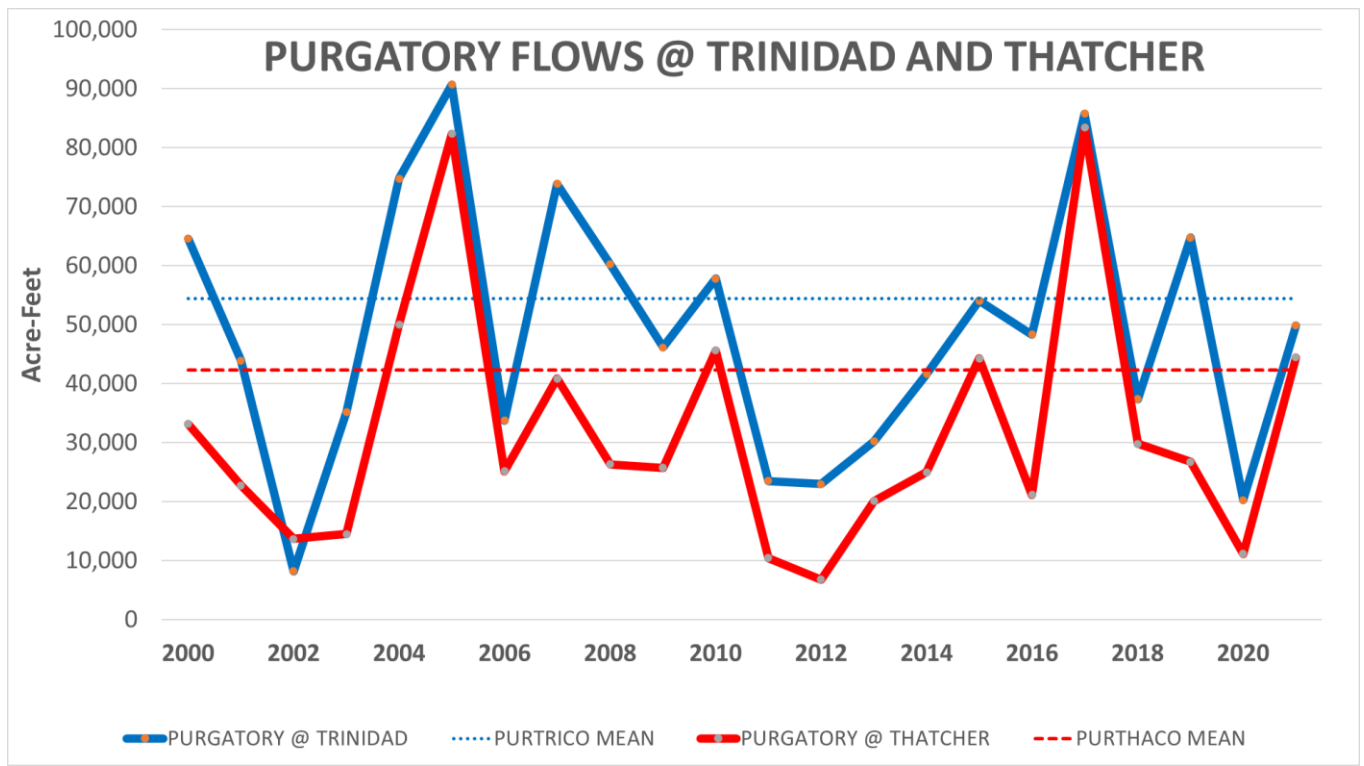
Purgatoire River basin April 1 snowpack was 120% of normal.



Model Pool Contents & PRWCD Cumulative Diversions for 2021:

Model Pool reached its maximum content of 16,226 acre-feet on June 6, 2021, following significant rains in the Purgatoire River and Lower Arkansas River basins.

The District reverted to Priority Administration near the end of September when the Hoehne Ditch reached their equivalent of 5,028 acre-feet of diversions.

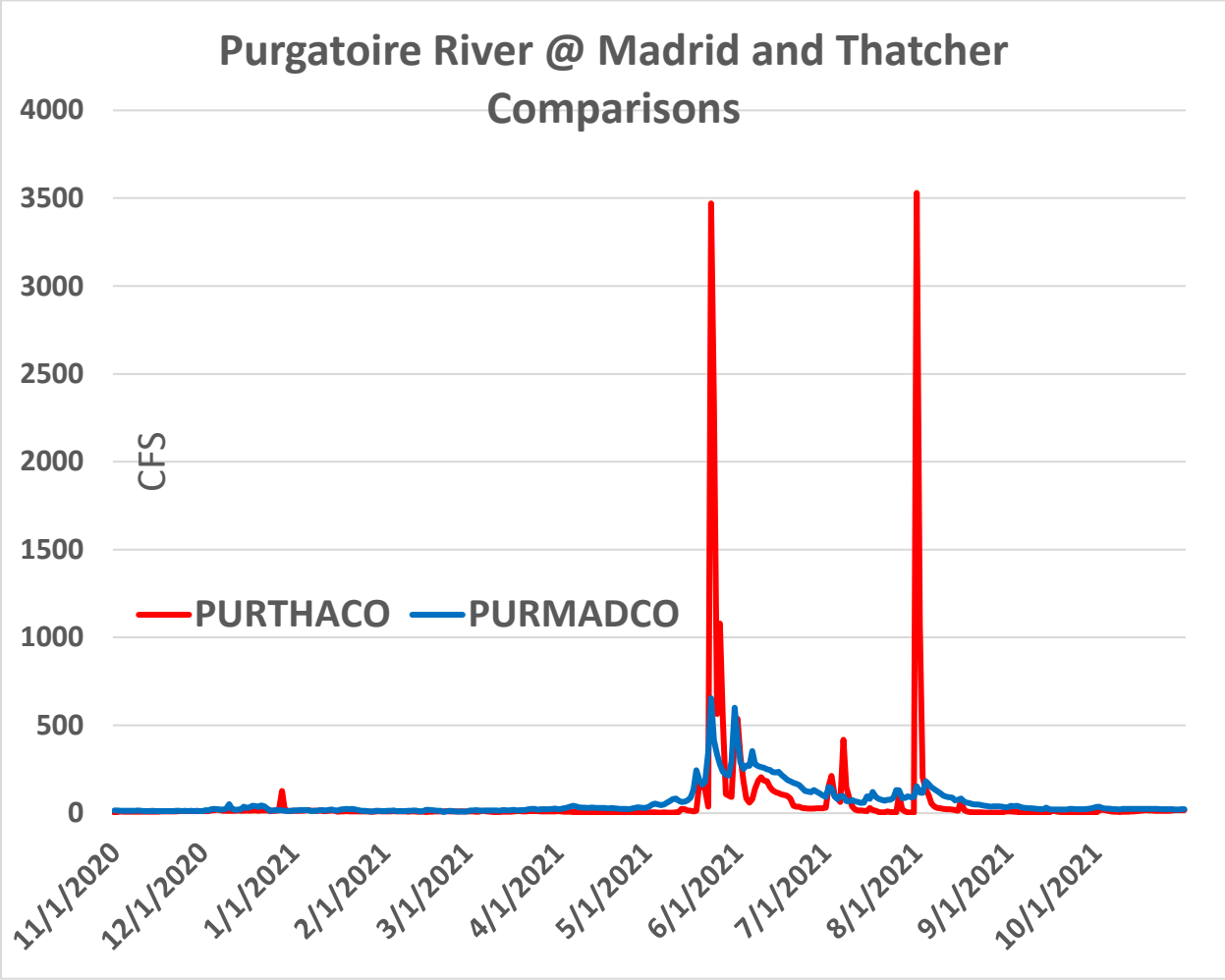


Purgatoire River Gaged Flows – Purgatoire River at the City of Trinidad (PURTRICO) and Purgatoire River at Thatcher (PURTHACO).

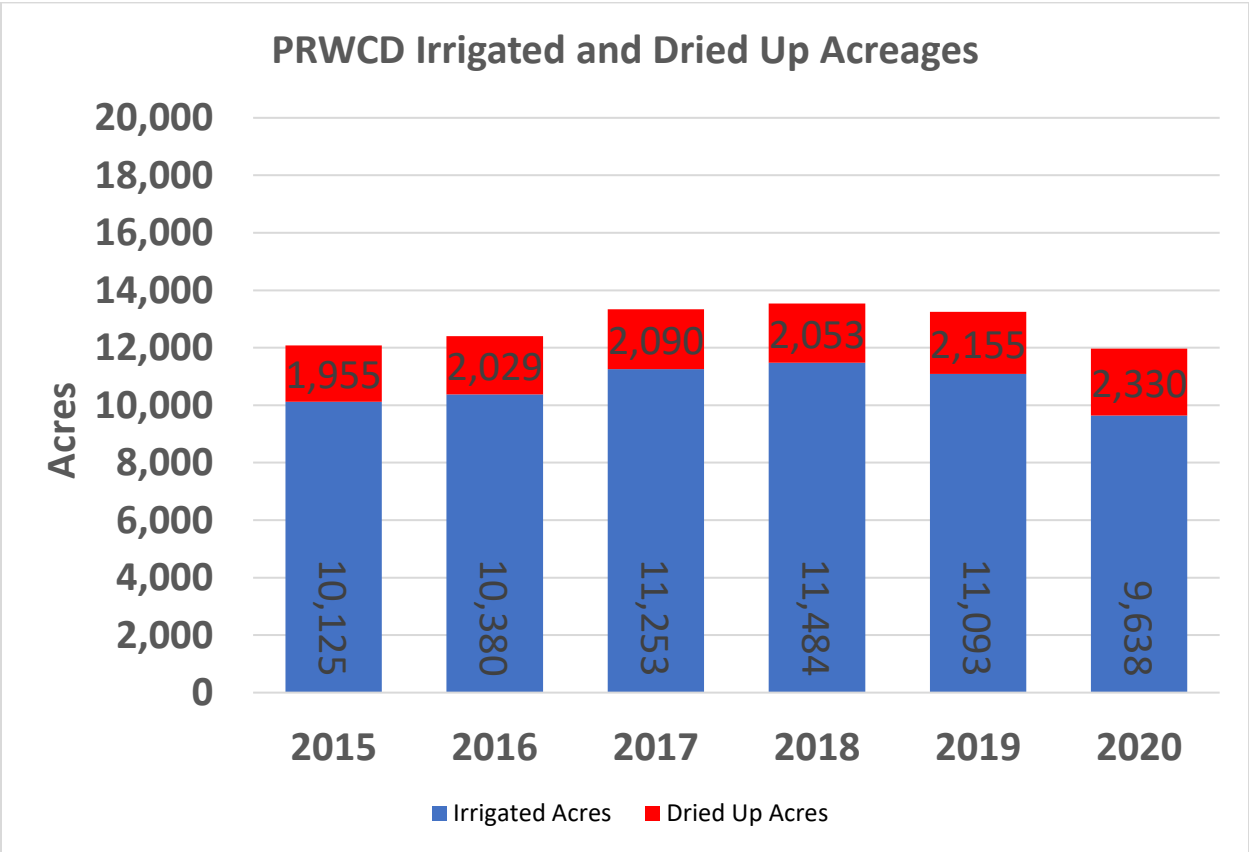
Average water year. Close to average flows at both gaging sites.

PURTRICO flows for 2021 = 49,875 acre-feet, 92% of the 1978-2020 average of 54,440 acre-feet.

PURTHACO flows for 2021 = 44,442 acre-feet, 105% of the 1978-2020 average of 42,238 acre-feet. Majority of flows occurred in short periods due to significant precipitation events occurred in late May and early August mostly below District lands.



PURTHACO flows during the May 23-31 and August 2-8 two weeks accounted for 16,000 acre-feet and 10,000 acre-feet respectively of the total 2021 volume of 44,442 acre-feet.



Irrigated Acreage Survey Results for 2015-2020.

Irrigated and dried up acreage for 2020 was 11,968 acres. A total of 19,499 acres are allowed to be irrigated by the Trinidad Project pursuant to the Operating Principles.

Survey work by the District and the Water Commissioners was conducted in August and September this year. Results from the Division Engineers Office are anticipated by this coming February 2022.

Additional Comments:

PRWCD Irrigation Improvement Rules Plan:

- Fifth year of the District’s Irrigation Improvement Rules Plan.

Plan Year	Number of Sprinklers	Total Diversions (af)
2021	22	2,050
2020	18	961
2019	16	1,652
2018	14	
2017	2	

- Return flow deficit obligations of 75 acre-feet were made up from modeled return flows and Trinidad Reservoir releases of fully consumable waters. resultant from irrigation use of leased fully consumable waters.

Livestock Water Diversions

Livestock water diversions during the 2020-2021 Non-Irrigation Season: 728 acre-feet were diverted by District ditches. A maximum of 1,200 acre-feet is allowed during the Non-Irrigation season pursuant to the Operating Principles. The District made attempts to divert water for livestock purposes for longer periods using existing river flows in order to minimize the need for reservoir releases. These operations were not satisfactory as the flow rates were too low to push these waters down the larger ditches.

Automatic Ditch Headgates

The District is anticipating installation of automatic river headgates on the Southside, Model and Hoehne Ditches this coming spring. The new gates will provide for maintenance of set flow rates and for remote control. If satisfactory, additional gates are planned.

Appreciation is expressed to Division Two staff and the Corps of Engineers for their administrative and reservoir operation support during 2021.

Questions?