



COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

Memorandum

To: Executive Director's Office
Platte River Recovery Implementation Program

From: Jojo La, Colorado Water Conservation Board

CC: Kent Crowder, Jackson County Water Conservancy District

Date: April 30, 2019

Subject: **Colorado's Annual Report for 2018**

The following items for Colorado's annual reporting on its Plan for Future Depletions are attached:

- Colorado's North Platte Annual Accounting for the Year 2018
- Colorado Population Estimates for the Year 2018
- Use of Water in the North Platte River Basin for the Water Year 2018

Jon Altenhofen, Northern Colorado Water Conservancy District, will be providing depletion reporting for the South Platte Basin in a separate memo.



NORTH PLATTE ANNUAL ACCOUNTING FORM FOR YEAR 2018

1. Irrigated acres during year: 104,771 acres X 0.83 acre-feet (af)/acre* = 86,960 af
2. Population during year: 1,371 people X 0.088 af/person** = 121 af
3. Total new post-1997 industrial uses: 1,069 af
Listed out by absolute water right case no., type of use sought, applicant, diversion amount decreed, and af of consumptive use (CU) decreed:
 - a) Drilling and well completion (fracking) operations by SandRidge Energy equaled 1,069 acre-feet of consumptive depletions for 2018.
4. Total new post-1997 piscatorial, wildlife & environmental uses (PWEUs): 25 af
- not incidental to agriculture
Listed out by absolute water right case no., type of use sought, applicant, diversion amount decreed, and af of CU decreed:
 - a) The decree issued in Case No. 10CW57 is for an instream flow water right held by the CWCB to preserve the natural environment for 4.0 cfs from April 1 through July 15 and 0.7 cfs from July 16 through March 31. The CU is 0 af.
 - b) The decree issued in Case No. 10CW48 is for an absolute surface water right for freshening flows and maintenance of a 4-acre fish pond owned by Donald Right for 1 cfs. The diversion will occur during the irrigation season (June 1 to October 31). The CU is estimated from information from the court application and is estimated to be 5.92 af for evaporation.
 - c) The decree issued in Case No. 13CW3018 is for an absolute instream flow water right held by the CWCB to preserve the natural environment for 3.6 cfs (May 1 – July 31), 1.0 cfs (August 1 – September 30) and 0.5 cfs (October 1 – April 30). The CU is 0 af.
 - d) The decree issued in Case No. 17CW3019 is for an absolute surface water right of 38.6 acre-feet for the Lake Creek Wetlands over 18.5 acres for wildlife propagation. Evaporative loss, CU, is 19.2 acre-feet.

TOTAL CU = 88,175 af
BASELINE CU 111,785 af
ANNUAL CU OVERRUN(+)/UNDER RUN(-) = -23,610 af

* This 0.83 af/acre CU factor may be significantly higher if a high altitude crop coefficient is used. Current information demonstrates that the CU for irrigated pasture grass, assuming a full water supply, could be as high as 1.82 af/acre, or higher. Nevertheless, Colorado agrees to use the 0.83 af/acre factor for the first increment, and will not seek a change of this factor from the Governance Committee during the first increment.

** 0.2504 af/person diversion X 35% CU = 0.088 af/person (Based on applying South Platte Basin M&I assumptions to Jackson County as of July of the year that begins the increment [i.e. July 2007]. The 2007 South Platte Basin M&I per capita use was changed to 0.2504 af/person by the Governance Committee on October 13, 2009.)

Notes

- 1) If total af of CU ever totals more than 111,785 af (177 af for population baseline and 111,608 af for agricultural baseline) under the current set of assumptions, then Colorado would propose mitigation as described below. Note, this does not add in the CU for pre-1997 PWEUs or pre-1997 industrial uses because these uses will not be used to offset other types of uses that are new depletions.
- 2) Total annual overruns and under runs to these benchmarks will be quantified and reported. If a total overrun occurs, Colorado will provide a mitigation plan for the review and approval of the Governance Committee. The mitigation plan will identify the total annual overrun that occurred, and offer a means to replace the overruns in the year following the year the overruns occurred.



COLORADO

Department of Local Affairs

Division of Local Government

April 15, 2019

Jojo La
Endangered Species Policy Specialist
Colorado Department of Natural Resources
1313 Sherman St. Room 718

Dear Ms. La:

According to the Platte River Recovery Implementation Program the State Demography Office shall report annually population changes in each of the three regions and in Jackson County.

On the second page you will find a table with the defined regions and the State Demography Office (SDO) estimates for January 2018 and forecast for January 1, 2019 and population increase for the period. The population is expected to increase by 58,137 in the whole South Platte River Basin between January 1, 2018 and January 1, 2019.

You have also asked for the population estimates and forecasts for Jackson County for the same time period. Their estimates and forecasts are January 1, 2018 = 1,371 and January 1, 2019 = 1,363, and the expected decline to be 8 people. With changes these small and margins of error, the population is considered to be flat.

Please be aware the estimates and forecasts are produced as vintages and will be revised annually. The data for these estimates and forecasts are based on vintage 2017 work and released November 2018. The estimates will change based on updates to administrative records. The forecast will change dependent upon economic and social conditions within the state and nationally. These data are available on our webpage at: demography.dola.colorado.gov.

Please contact me with any questions regarding the estimates and forecasts.

Regards,

Elizabeth Garner
State Demographer
Colorado Department of Local Affairs



Colorado Population Estimates and Forecasts - Platte River Recovery Implementation Program
Source: State Demography Office, Department of Local Affairs April 2019.

Counties	SDO Jan 2018	SDO Jan 2019 Forecast	Pop. Change 2018-19
Boulder	324,522	327,817	3,295
Broomfield 55%	38,014	39,051	1,037
Larimer	346,466	351,612	5,146
Logan	21,986	22,169	182
Morgan	28,191	28,419	228
Phillips	4,274	4,271	-3
Sedgwick	2,308	2,294	-13
Washington	4,918	4,912	-6
Weld	309,397	319,062	9,665
Total Northern Region	1,080,076	1,099,607	19,531
Arapahoe 90%	581,832	587,522	5,690
Adams	507,975	516,957	8,982
Broomfield 45%	31,102	31,951	848
Clear Creek	9,659	9,726	67
Denver	711,879	723,796	11,917
Gilpin	6,010	6,027	17
Jefferson	577,412	581,668	4,256
Park	18,022	18,275	253
Total Central Region	2,443,891	2,475,923	32,031
Arapahoe 10%	64,648	65,280	632
Douglas	338,035	342,889	4,853
Elbert	26,141	27,230	1,090
Total Southern Region	428,824	435,399	6,575
South Platte River Basin Total	3,952,791	4,010,929	58,137
SDO - State Demography Office, November 2018			



April 5, 2019

Mr. Gordon W. Fassett, Director
Nebraska Department of Natural Resources
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Mr. Rick Deuell
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Ms. Carlie A. Ronca, Area Manager
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Ms. Rebecca Mitchell, Director
Colorado Water Conservation Board
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Dear Ms. and Messrs.;

Enclosed herewith is a copy of the report of the use of water and irrigated acres in the North Platte River drainage within the State of Colorado. The report covers the period from October 1, 2017 to September 30, 2018, and is prepared in compliance with Paragraph IX of the North Platte River Decree of the United States Supreme Court. The report reflects the acreage and water use as limited by Paragraph I(a), (b), and (c) of the Decree. The storage and acreage have been computed for each irrigation facility in the North Platte drainage and are available for inspection.

If additional information or clarification is needed, please feel free to contact me.

Sincerely,



Kevin Rein, P.E.
Director/State Engineer

Enclosure

cc: Erin Light, Division Engineer, Water Division 6



NORTH PLATTE RIVER BASIN
USE OF WATER IN COLORADO
WATER YEAR 2018

The State of Colorado reports the following use of water from the North Platte River Basin for the period October 1, 2017 to September 30, 2018. This report is made pursuant to Paragraph IX of the decree of the Supreme Court of the United States, entered October 8, 1945, in the case of State of Nebraska vs. Wyoming and Colorado, as amended.

Total area of land irrigated in Jackson County, Colorado	104,771 Acres
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Total amount of water stored for irrigation in Jackson County, Colorado	7,217 AF
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Amount of water exported from the North Platte River Basin, Jackson County, Colorado by:

Michigan Ditch	4541.6 AF
Cameron Pass Ditch	<u>98.9 AF</u>

Annual Total	4640.5 AF
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10-Year Cumulative Total	32,445 AF
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