Managing Water in the West

As of November 6, 2017

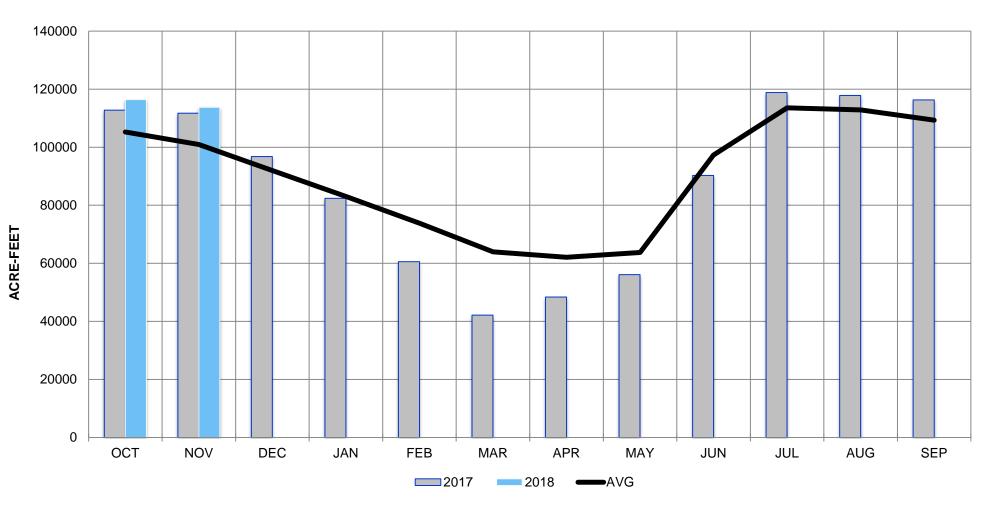
- 212,017 a/f stored in Pueblo
- 126,970 a/f of Project water
- 55,167 a/f of excess capacity water
- 29,485 a/f of winter water
- 118,403 a/f of Project space in Pueblo
- 21,736 a/f of Project space in Twin & Turquoise



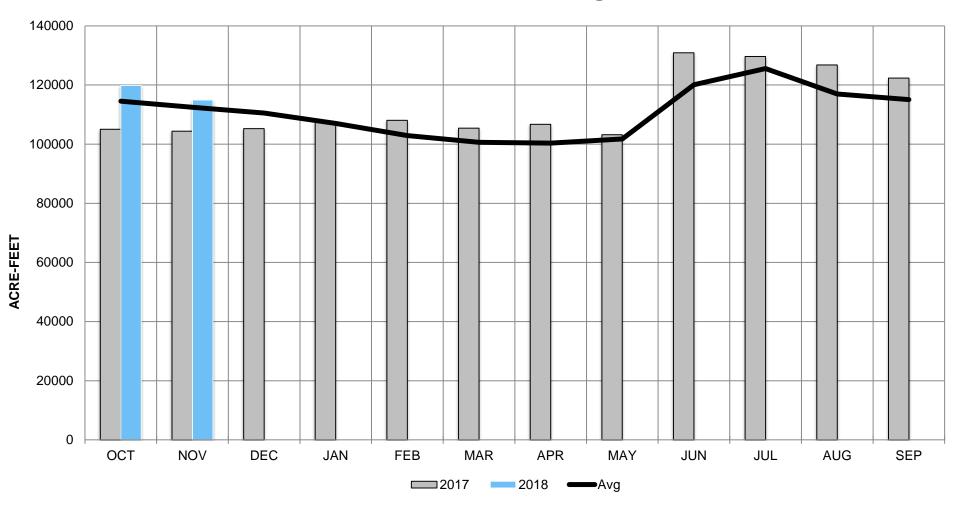
U.S. Department of the Interior Bureau of Reclamation



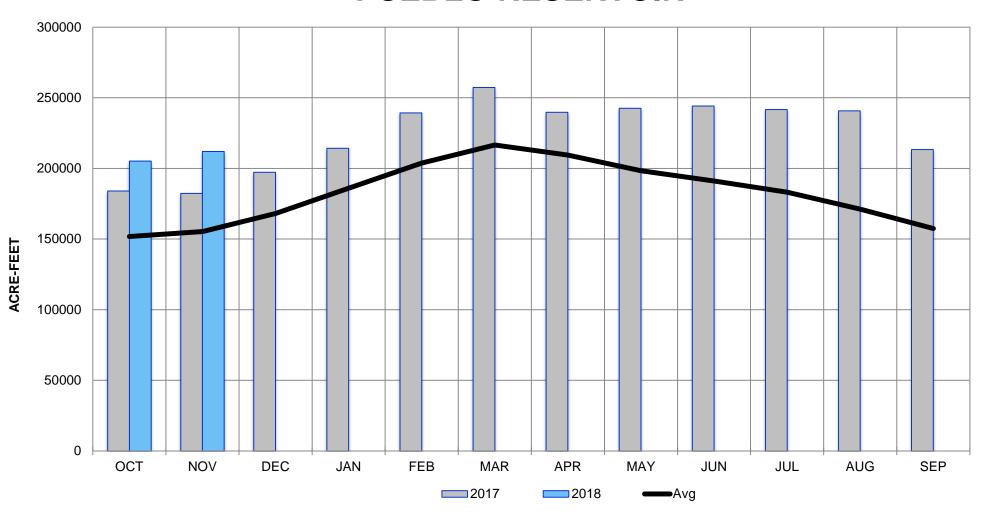
TURQUOISE LAKE



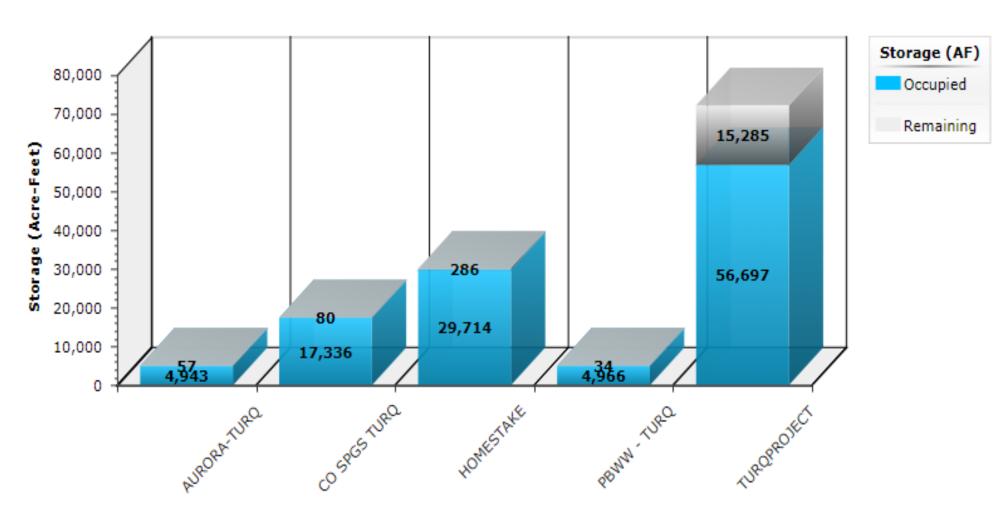
TWIN LAKES



PUEBLO RESERVOIR







Turquoise (leave 3.5KAF open)

TURQUOISE RESERVOIR

Total Capacity 129,398 Acre Feet

Bottom of the Boat ramp for Turquoise is elevation 9830.00 65,233 a/f

FRYINGPAN – ARKANSAS PROJECT 63,062 ACRE FEET OF USEABLE SPACE

CF&I - COLORADO SPRINGS UTILITIES

17,416 ACRE FEET

HOMESTAKE – COLORADO SPRINGS UTILITIES 15,000 ACRE FEET

HOMESTAKE – AURORA

15,000 ACRE FEET

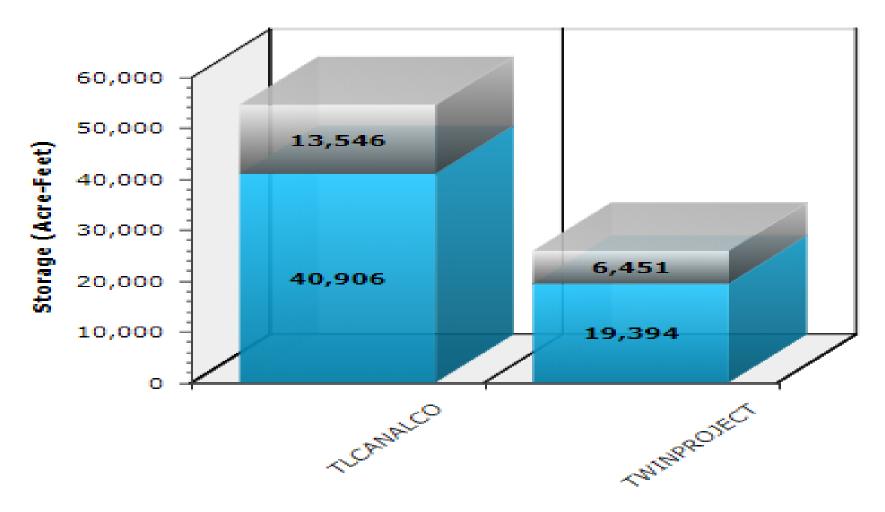
CF&I – AURORA

5,000 ACRE FEET

CF&I – PUEBLO BOARD OF WATER WORKS 5,000 ACRE FEET

FRYINGPAN-ARKANSAS
PROJECT
DEAD/INACTIVE

8,920 ACRE FEET



Twin

TWIN LAKES RESERVOIR & FOREBAY

<u>Provisional 5-8-15</u>: Total Capacity 151,998 Acre Feet – 498 a/f because of tilted glory hole at Twin Lakes = 151,500 a/f with 22,581 being useable Project space if TLCC has at least 11,205 a/f of their water in storage.

Forebay

Useable project space if required (would affect power production) 7,318

Dead 3.825 = 11.143 Acre feet

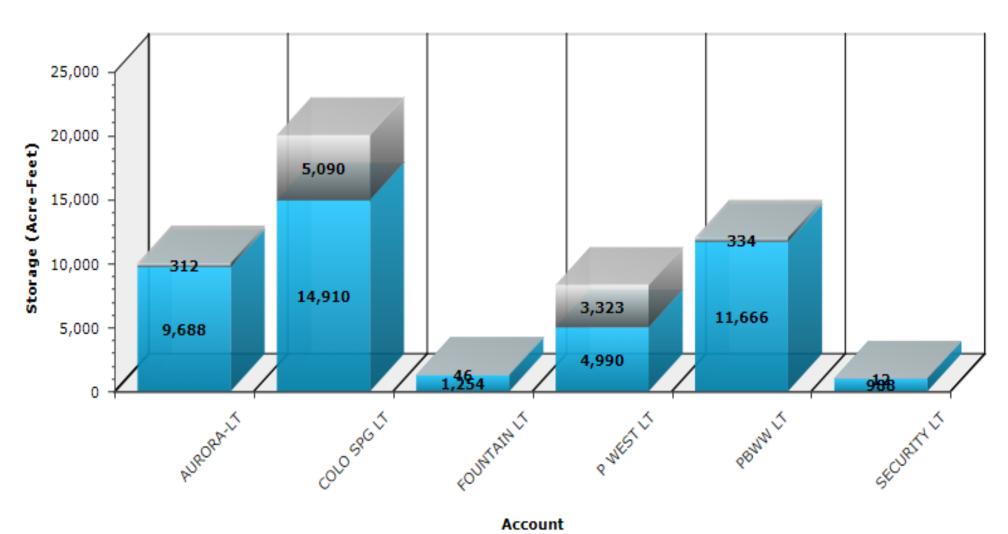
12,967 a/f of usable Project space + inactive (9,614) = 22,581 if there is at least 11,205 a/f of TLCC water is storage so that the Power Plant remains operable.

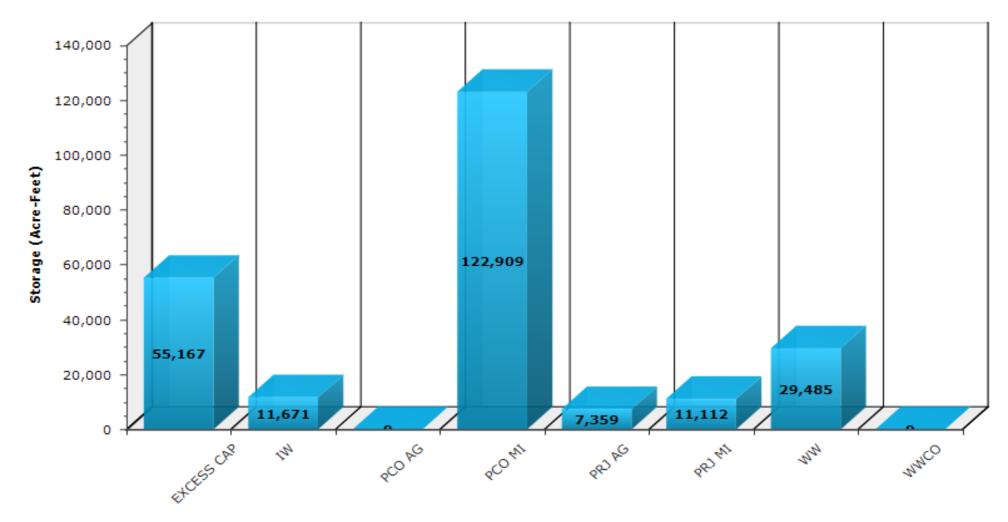
Twin Lakes Co. permanent space 54,452 a/f

9,614 a/f of Project water required to get to the top of inactive pool

Dead Pool

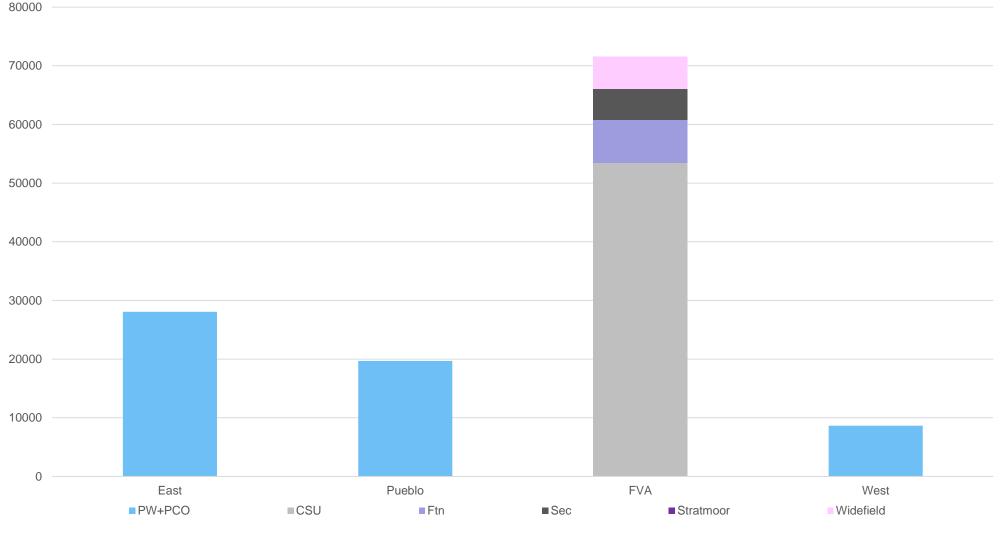
63,324 Acre Feet





Account

First Use Project + PCO Municipal Water



October 30, 2017

Total M&I PW in the system = 135,085

- EAST = 28,218
- WEST = 8,757
- PUEBLO = 19,808
- OTHER = 4,215
- FVA = 74.087
 - CSU = 58,683
 - Fountain = 7,374
 - Security = 5,503
 - *− Stratmoor* = 2,004
 - − Widefield = 5,523



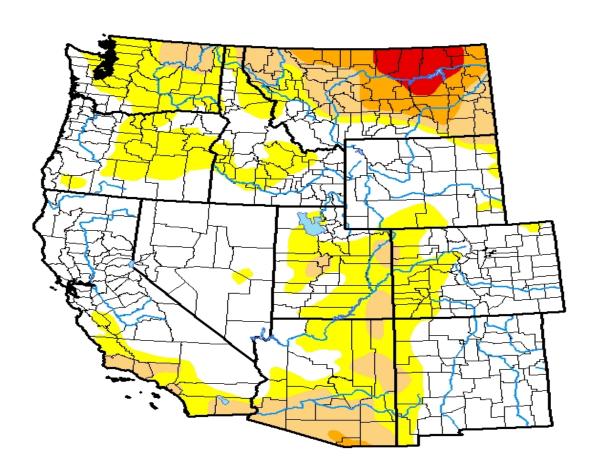
Fall Operations

- The collection system has been winterized.
- Mt Elbert conduit is currently running 375 cfs.
- At present we are moving 260 cfs of Project water from Twin to Pueblo
- Plan on moving an additional ~42,000 a/f from the upper reservoirs.
- Movement of water will be adjusted according to the forecast and customers needs.



U.S. Drought Monitor West

October 31, 2017 (Released Thursday, Nov. 2, 2017) Valid 8 a.m. EDT



Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

David Miskus NOAA/NWS/NCEP/CPC



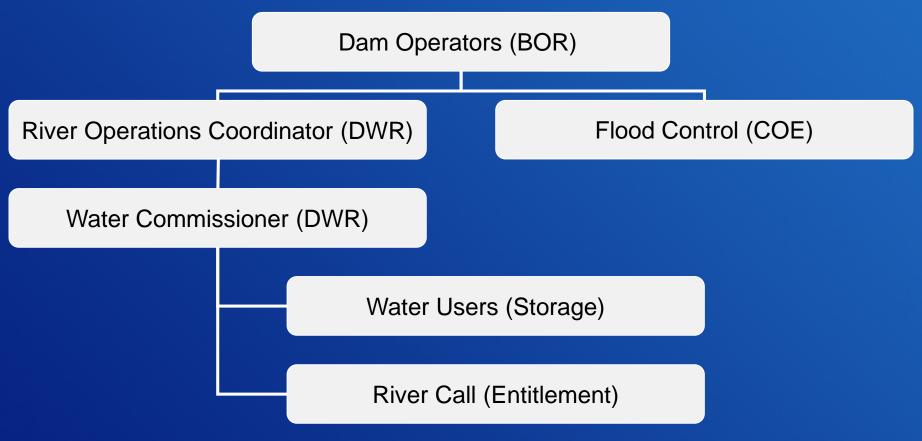






http://droughtmonitor.unl.edu/

Water operations from Pueblo Dam



RESERVOIR SPILLS

- 1984 30,580 acre-feet of 82-83 winter water 74,641 acre-feet of 84 winter water
- 1985 46,163 acre-feet of winter water
- 1987 20,179 acre-feet of winter water
- 1995 (July) 53,949 acre-feet of winter water; 24,244.84 acre-feet of If and When.

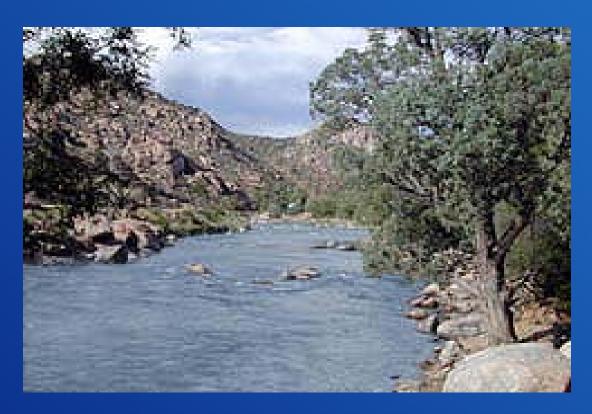
Aurora-Busk-Ivanhoe	281.36	Aurora In Pueblo	1,725.82
Pueblo Board	3,607.38	Holbrook	3,361.25
Alvin Carter	332.83	Dept of Corrections	209.65
Dept of Parks & Rec	3,482.70	Bessemer	9,877.00
Upper Ark Cons Dis	149.14	Orville Tomky	248.36
Catlin	969.35		

 1998 (April) 23,123 acre-feet of winter water; 7,205.46 acre-feet of If and When, (Safety of Dams restriction).

Aurora 13.69 Pueblo Board 2.93
Colorado Springs 7,188.84

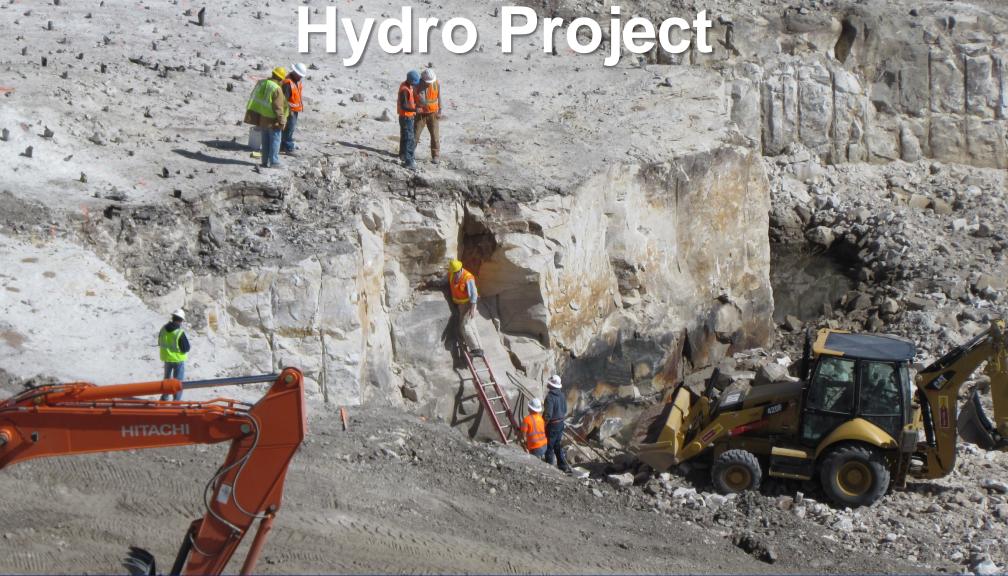
Where does the water come from?

- The average trans-mountain diversions are 139,748 acrefeet.
- The average annual flow of the Arkansas River, as measured at the Wellsville gage is 518,700 acre-feet.
- Reclamation only controls approximately 11 % of the total water passing by the Wellsville gage.



Trans-Mountain Diversions

•	Tunnel Boustead	55,000	Reclamation/SECWCD
•	Homestake Tunnel	24,878	Colorado Springs and Aurora 50/50
•	Busk-Ivanhoe	5,726	Pueblo Board of Water Works/Aurora
•	Twin Lakes Tunnel	38,371	Twin Lakes Reservoir and Canal
•	Columbine Ditch	1,597	Aurora
•	Ewing Ditch	1,011	Pueblo Board of Water Works
•	Wurtz Ditch	2,957	Pueblo Board of Water Works
•	Blue River Project	10,000	Colorado Springs Utilities
•	Larkspur Ditch	208	LAVWCD
	TOTAL	139.748 a.f.	











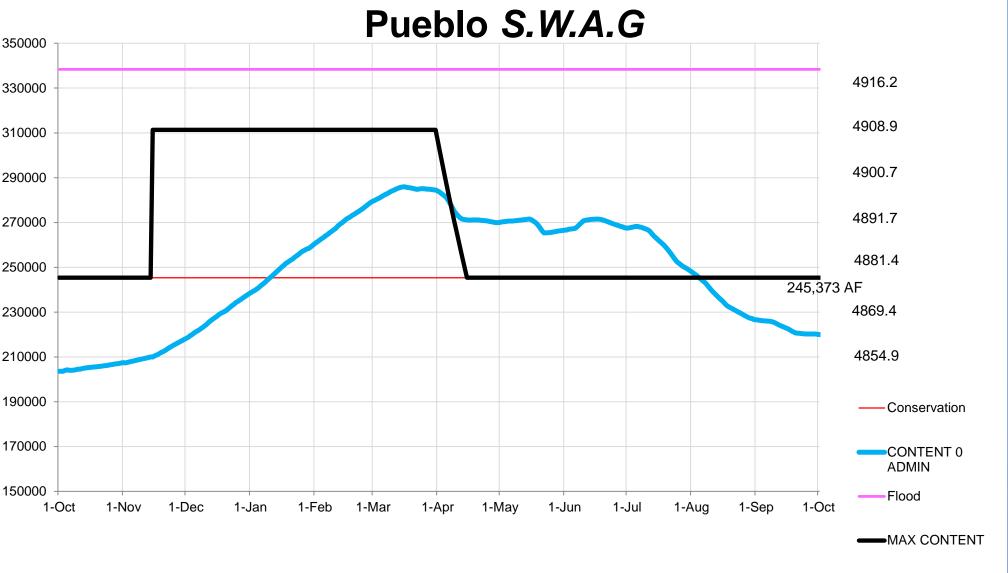












- 2016 W.W.
- 2016 Ag. Proj. W.

$$262,533 - 245,373 = 17,160$$

Boustead Imports to Date 67,009 a/f

