



— BUREAU OF —
RECLAMATION

2019 Report to the Pecos River Commission

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September 10, 2020

Reclamation's Pecos Basin Projects



- **Carlsbad Project**
 - Sumner Dam and Lake
 - Brantley Dam and Reservoir
 - Avalon Dam and Lake
- **Fort Sumner Project**
 - Fort Sumner Diversion Dam



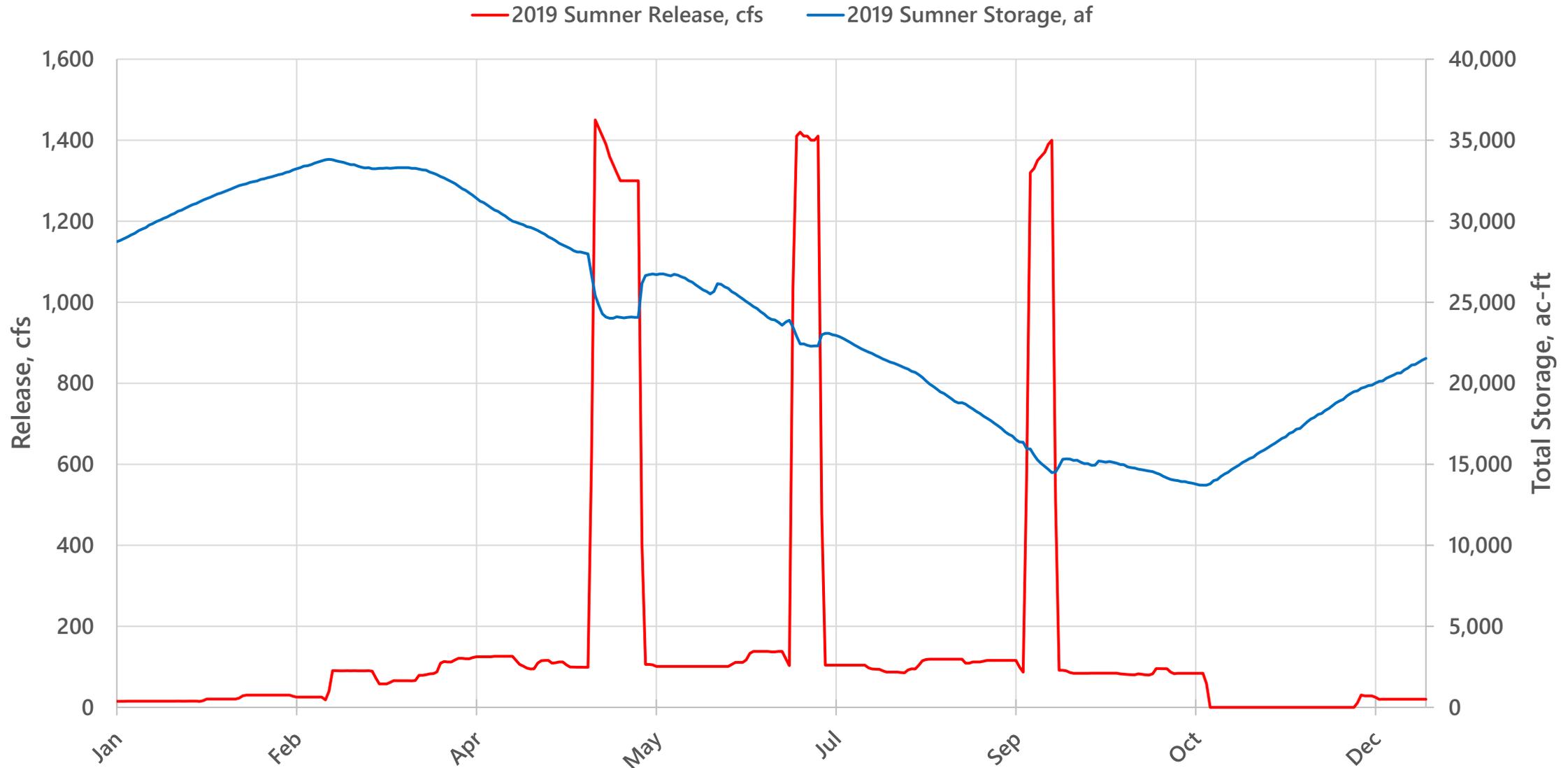
2019 Carlsbad Project Operations



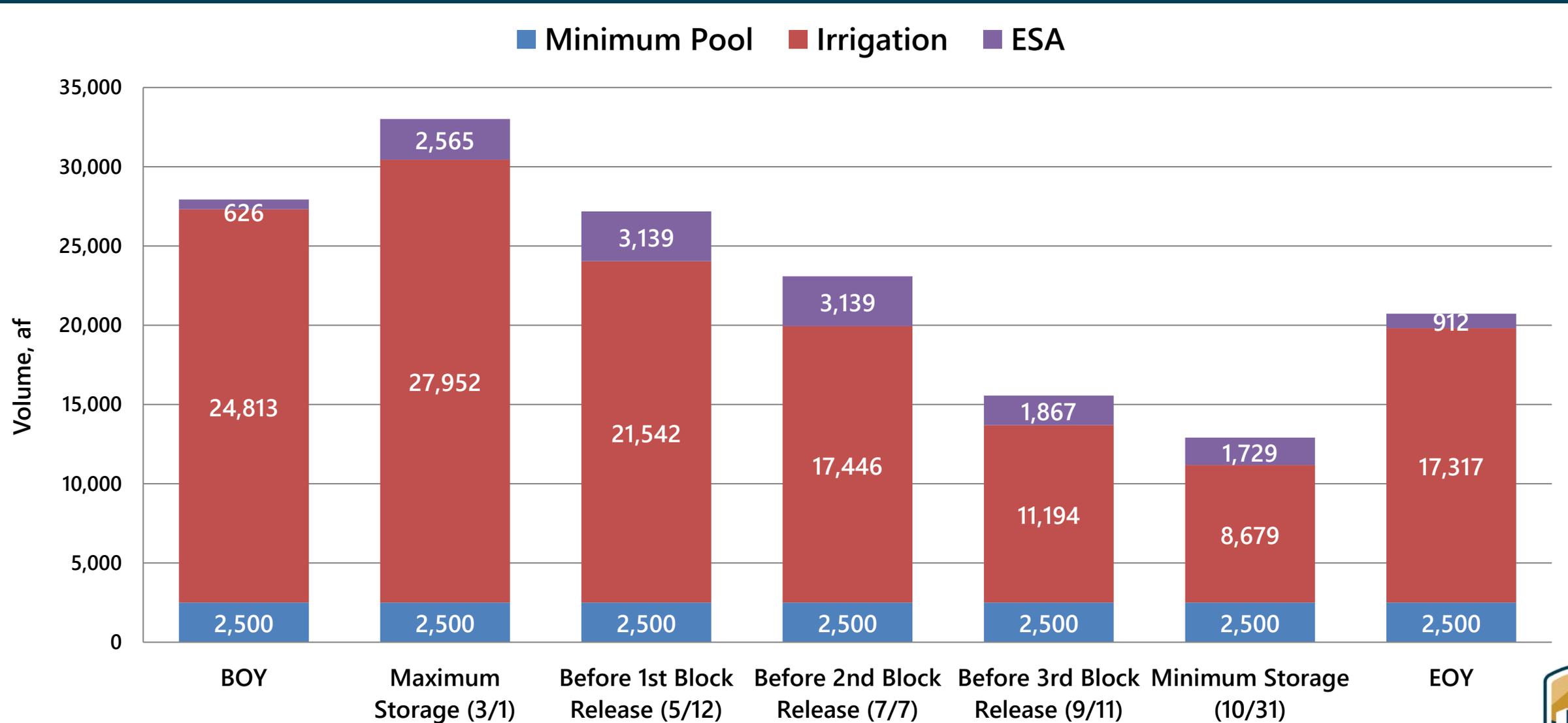
Sumner Operations

- **May 13 to 27: 15 day block release**
 - Santa Rosa to Sumner, 37,177 af, 100% efficiency
 - Total CID release, Sumner to Brantley, 33,976 af, 78% efficiency
- **July 5 to 17: 9 day block release**
 - Santa Rosa to Sumner, 24,365 af, 89% efficiency
 - Total CID release, Sumner to Brantley, 21,653 af, 76% efficiency
 - 1,817 af from Santa Rosa left in Sumner
- **September 4 to 8: 5 day block release, curtailed due to precipitation**
 - Santa Rosa to Sumner, 21,711 af, 95% efficiency
 - Total CID release, Sumner to Brantley, 19,466 af, 86% efficiency

2019 Carlsbad Project Operations: Summer

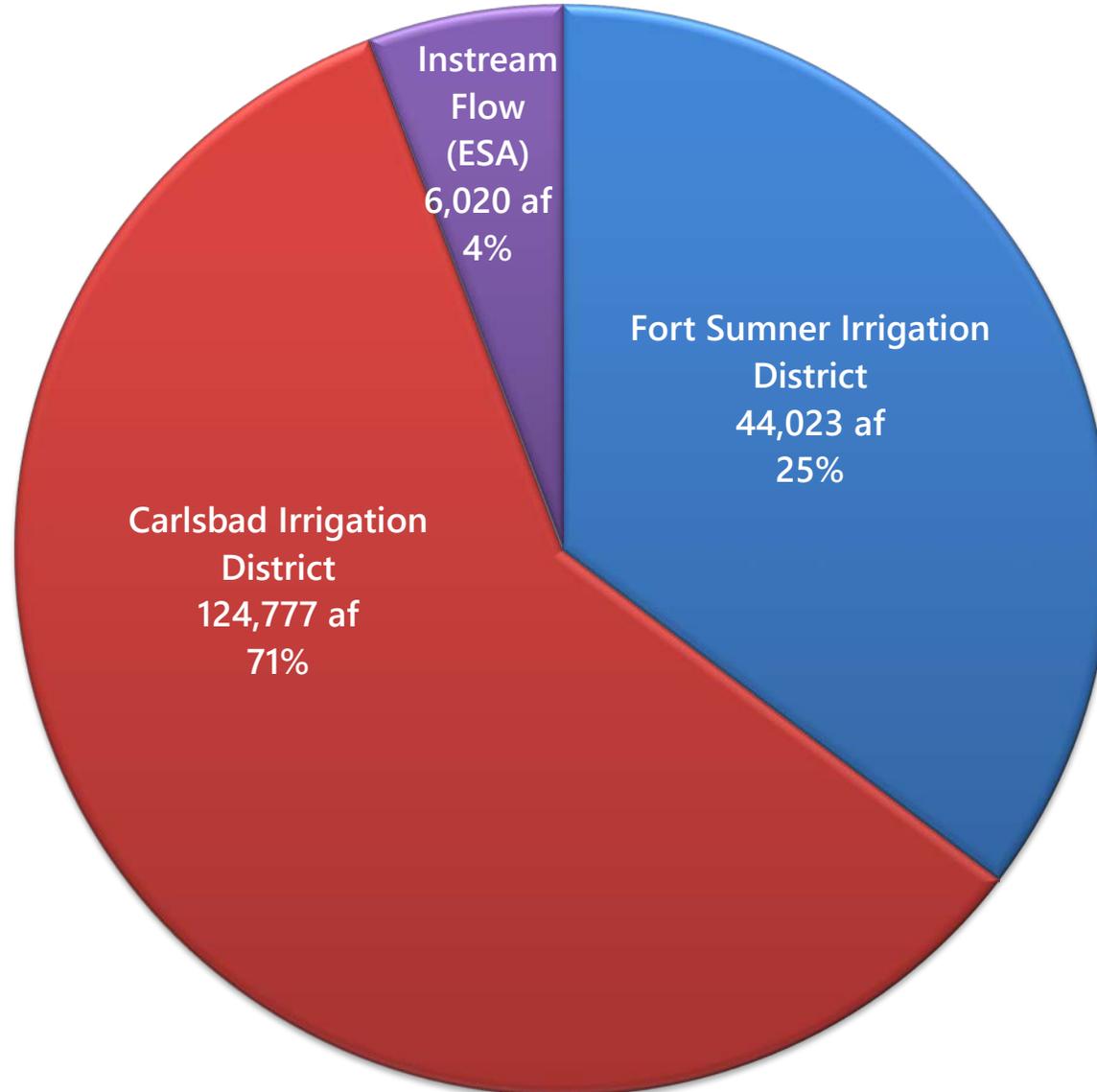


2019 Carlsbad Project Operations: Sumner Storage Volumes by Purpose



2019 Carlsbad Project Operations: Sumner Release Volumes by Purpose

Flood Control:
None in 2019



2019 Fort Sumner Irrigation Entitlement

- Allotment volume increased over 2018
- 112 days at full 100 cfs allotment
- 88% of maximum allotment



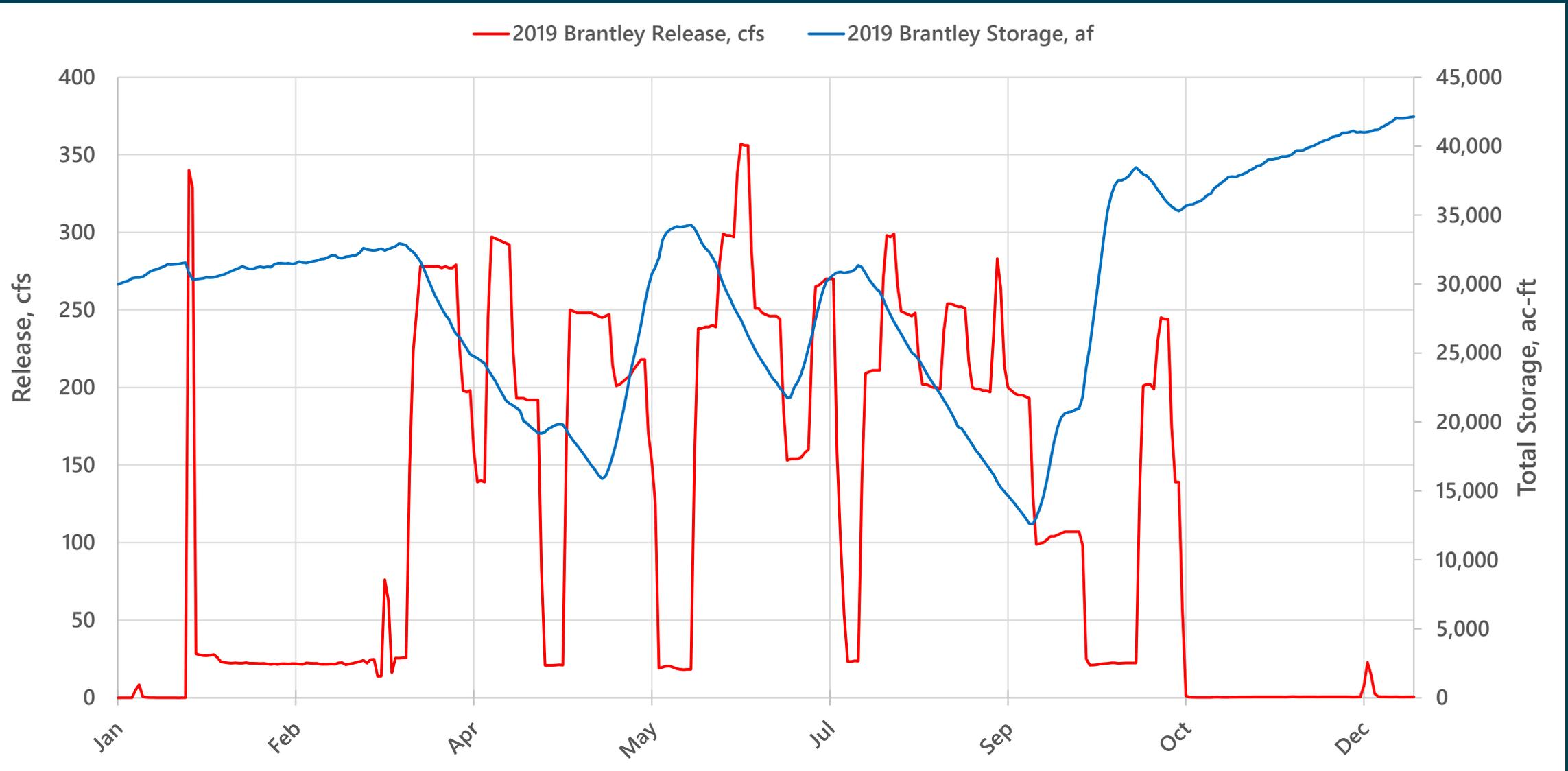
2019 Carlsbad Project Operations

Brantley Operations

- 79,715 af released for irrigation, 4,328 af released for mitigation
- 72,612 af diverted into Main Canal
- Minimal release after October 26 to reduce inflow to Avalon



2019 Carlsbad Project Operations: Brantley



Pecos Reservoir Storage

- No Brantley mitigation release for Avalon maintenance in 2019, 2020
- Brantley close to exceeding permitted conservation storage December 31, 2019
- Brantley began storing Avalon conservation storage January 5, 2020
- Four reservoirs did not exceed entitlement storage of 176,500 ac-ft
- System at 49% of full on January 1, 2019
- System at 61% of full on December 31, 2019
- System at 15% of full on September 3, 2020



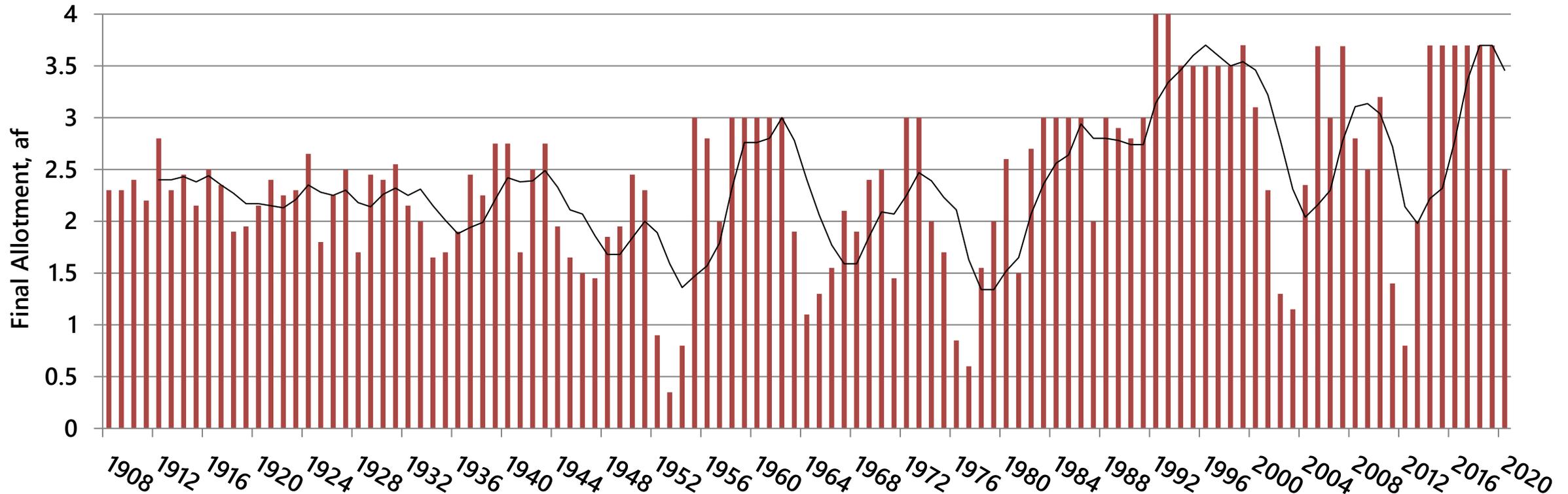
Carlsbad Project Irrigation Allotments



- 2019: full allotment 3.697 af/ac
- 2020: allotment 2.5 af/ac

Carlsbad Irrigation District Allotments by Year

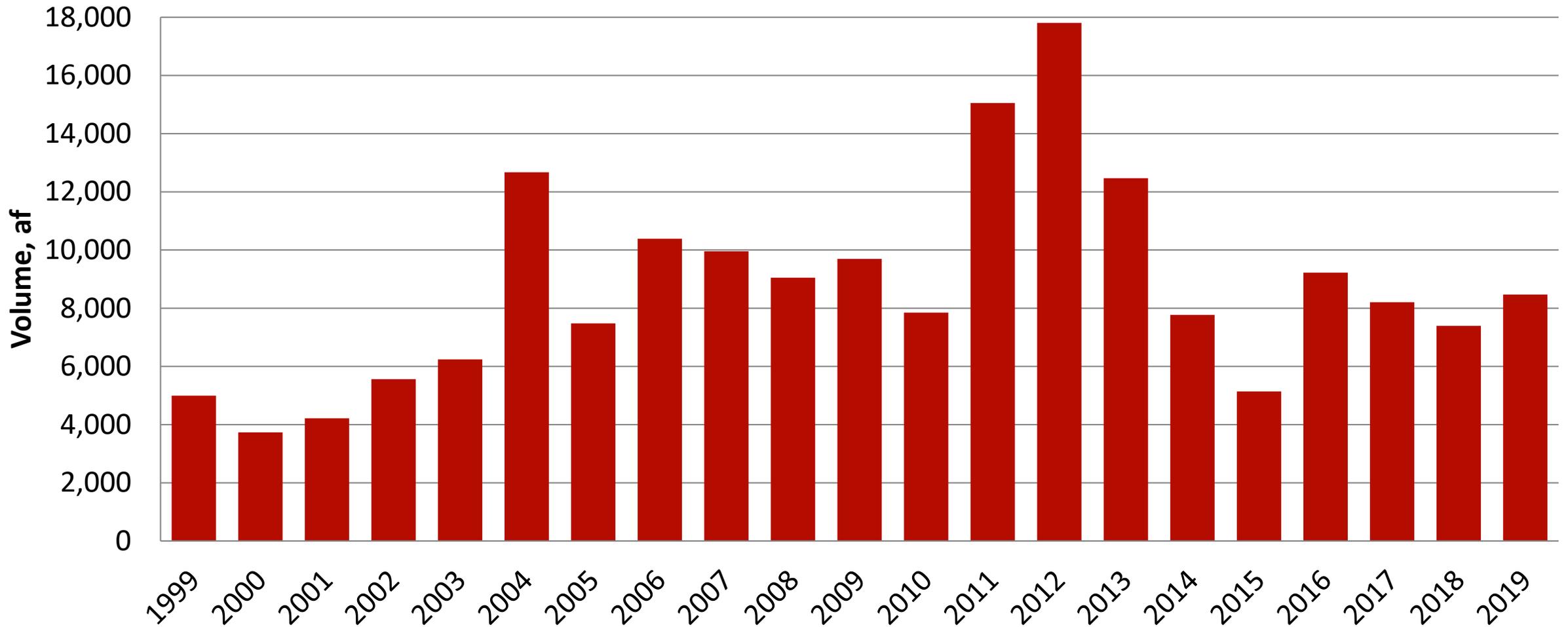
■ Final Allotment, af — 5 per. Mov. Avg. (Year)



ESA Water Release



Carlsbad Project Water for Upper Critical Habitat



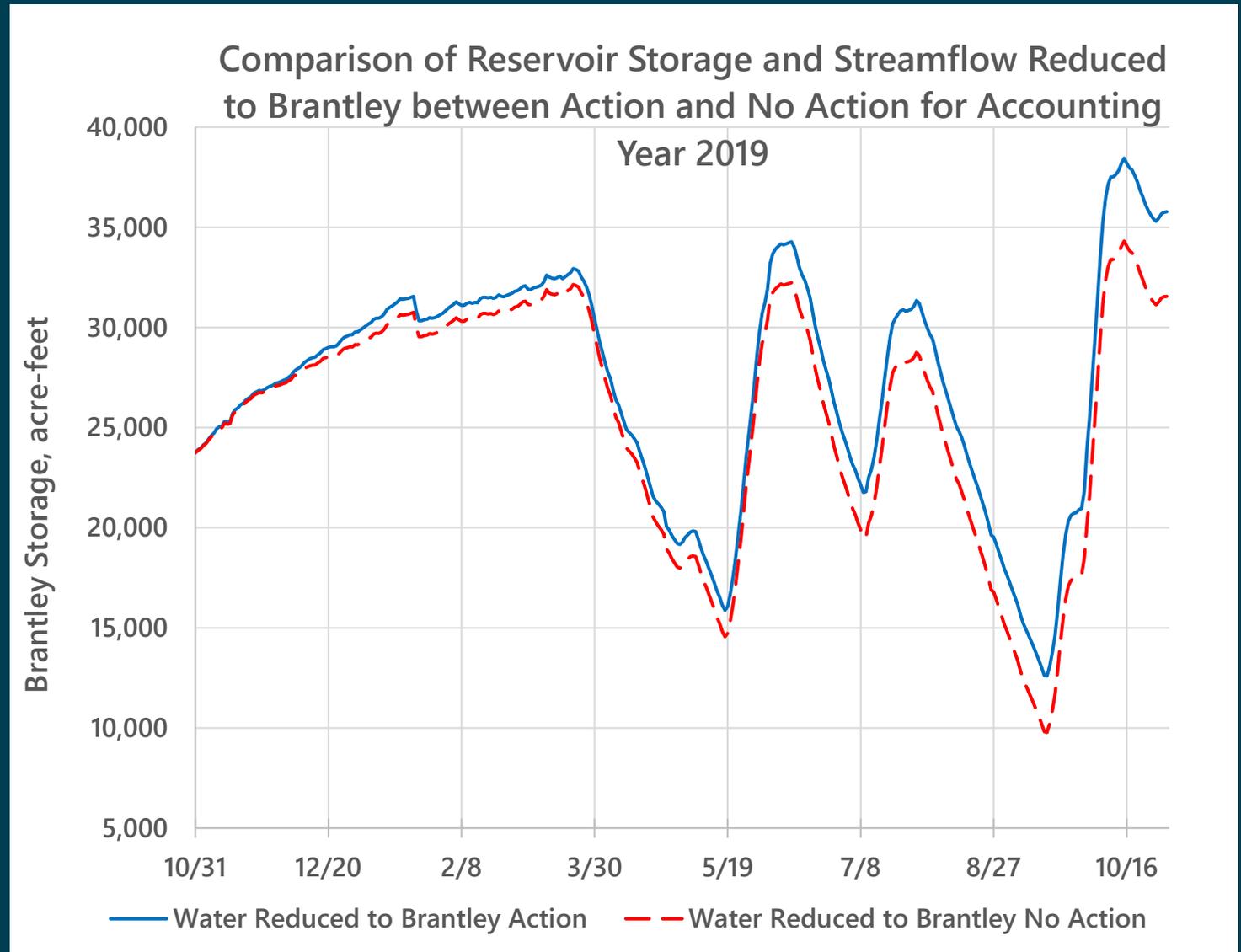
2019 Supplemental Water Summary

- Due to provisions of 2017 BO:
 - Reclamation bypasses water through Sumner to prevent river drying, which depletes CID's Sumner storage
 - Reclamation leases water from Roswell area users, paying them not to pump from Pecos River
 - Reclamation also pumps water into Brantley in exchange for water in Sumner, which is then used to keep river from drying
- In WY 2019 Reclamation purchased, leased, and pumped 9,949 ac-ft
- 7,616 ac-ft released to maintain a continuous river
- 933 ac-ft returned to Project storage



2019 Supplemental Water: Depletions Accounting

- Accounting model shows Reclamation delivered 4,228 ac-ft more to CID with ESA operations than without
- RiverWare *Two-Stream* model used for depletion accounting



2020 Summer Operations

- Current storage: 6,728 af (September 3)
- March end of water year 2020 projections
 - Probable end of WY 2020 Storage: 9,000 af
 - Min probable end of WY 2020 Storage: 5,600 af
 - Max probable end of WY 2020 Storage: 11,800 af
- Peak storage water year 2020: 33,800 af (March 1)
- 2020 CID irrigation season release: 37,726 af (not including FSID or ESA releases)
- March projected two block releases in 2020, only one occurred



2020 Brantley Operations

- Current storage: 12,513 (September 3)
- March end of water year 2020 projections
 - Probable end of WY 2020 storage: 10,600 af
 - Min probable end of WY 2020 storage: 9,800 af
 - Max probable end of WY 2020 storage: 11,600 af
- Peak storage water year 2020: 44,439 af (January 27)
- March projected 2020 irrigation season release: 89,885 af (70,432 ac-ft released to September 3)
- No required release to Texas under Pecos Settlement



2020 Supplemental Water Program

- 2020 goal: follow water operations proposed actions in 2017 BO
 - Not Critically Dry in 2020
 - Focus on keeping river continuous
 - Use bypass as available with target flow of 35 cfs at Taiban
 - Acme flow target when using only supplemental water
 - Using Vaughan wellfield for times of extended water need
- New depletions agreement with NMISC, CID as of December 2019
- New FSID forbearance contract as of December 2019
- FSID forbearance – 3,500 ac-ft stored
- FWS allowed flexibility in Taiban flow target in early 2020



WaterSMART Activities 2019 – 2020

WaterSMART Grants in Pecos Basin:

- Small-Scale Water Efficiency Projects

- FY17 Guadalupe Soil and Water Conservation District: Acequia Restoration & Conservation Project, \$67,500 (Federal) – on-farm project improvements are progressing
- FY19 Fort Sumner Irrigation District: Canal Flow Telemetry and Automatic Head Gate Project, \$24,972 (Federal) – FSID preparing specifications to issue request for proposals

Other WaterSMART Activities

- New Applied Science Grant - \$300,000 federal cost share; awarded 8/5/2020 to NM Bureau of Geology and Mineral Resources to build water data service, develop pilot water data decision support toolset in lower Pecos Valley
- Pecos Basin Study – draft report in review; modeling results will be used as test case for new data visualization tool (RIVER)

Information on all WaterSMART Financial Assistance Programs can be found at <https://www.usbr.gov/watersmart>

Open Funding Opportunity Announcements

Water and Energy Efficiency Grants

- BOR-DO-21-F001 for up to \$2 million (federal)

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=327729>

- Eligible Projects:

Projects that seek to conserve and use water more efficiently; increase the production of hydropower; mitigate conflict risk in areas at a high risk of future water conflict; enable farmers to make additional on-farm improvements in the future, including improvements that may be eligible for Natural Resources Conservation Service (NRCS) funding; and accomplish other benefits that contribute to water supply reliability

- Application due date for FY 2021 funding: **September 17, 2020**

Announcements posted at www.grants.gov

Open FOAs continued

Water Conservation Field Services Program, Upper Colorado Basin

- BOR-UC-20-F002 for up to \$50,000 (federal)

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=324924>

- Eligible Projects:

- Water Conservation and Management Planning (WCMP)
- System Optimization Review (SOR)
- Demonstrating Conservation Project Technologies
- Proposals for on-the-ground construction activities not eligible under this FOA, however, potential projects identified via completion of above may be eligible for other grants
- Application due date for FY 2021 funding: **January 15, 2021**

Announcements posted at www.grants.gov

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Questions? Comments?



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