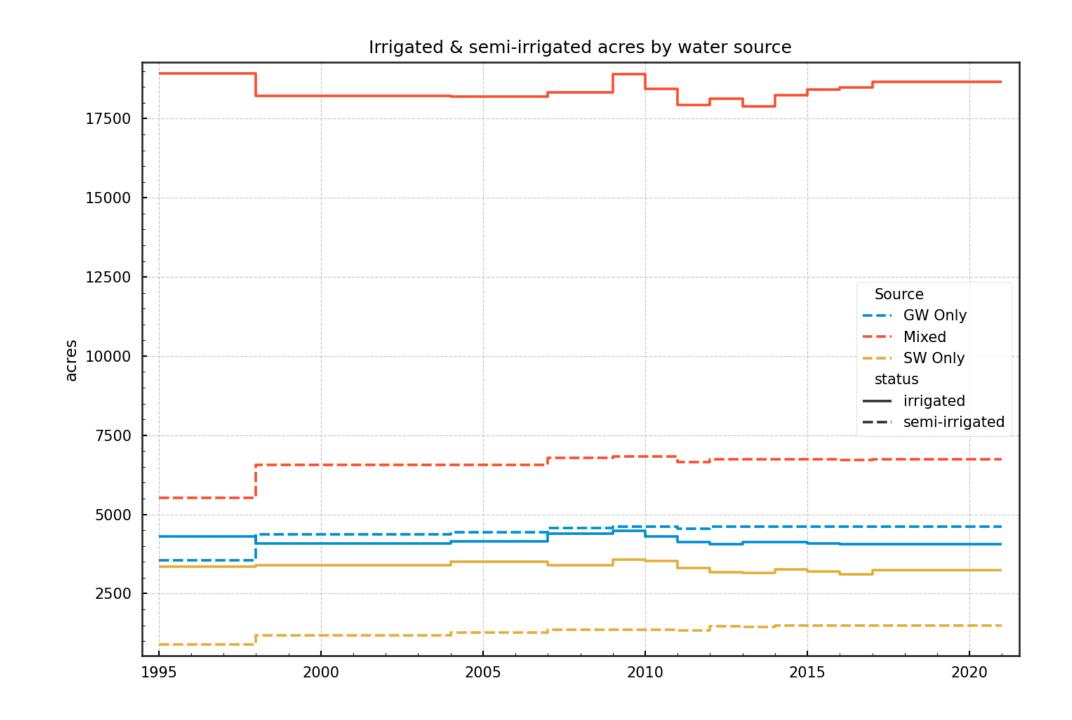


IDAHO DEPARTMENT OF

Alex Moody WRV MTAC October 25, 2023

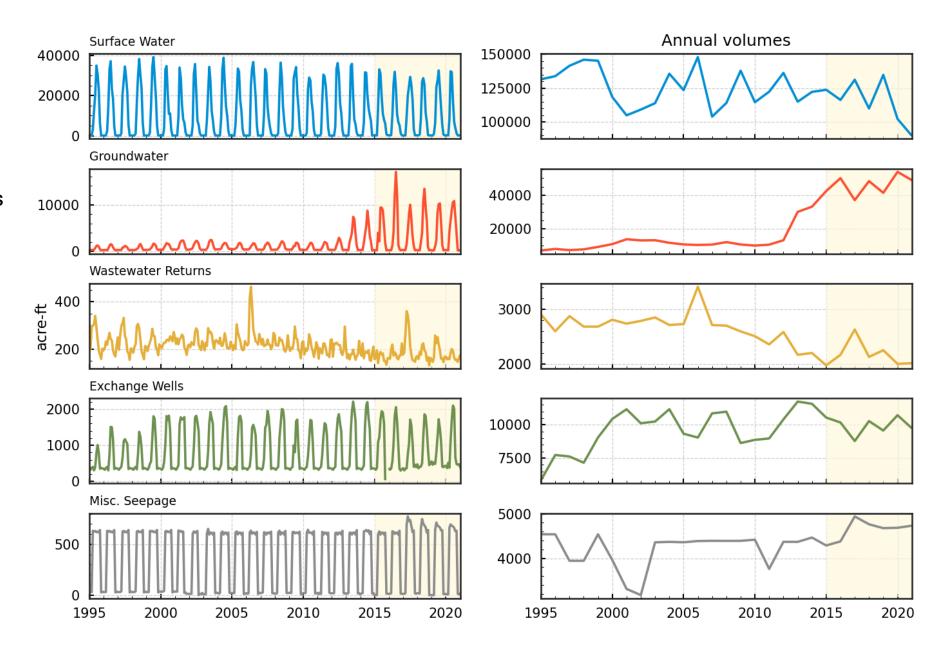
Updates for WRV 1.2

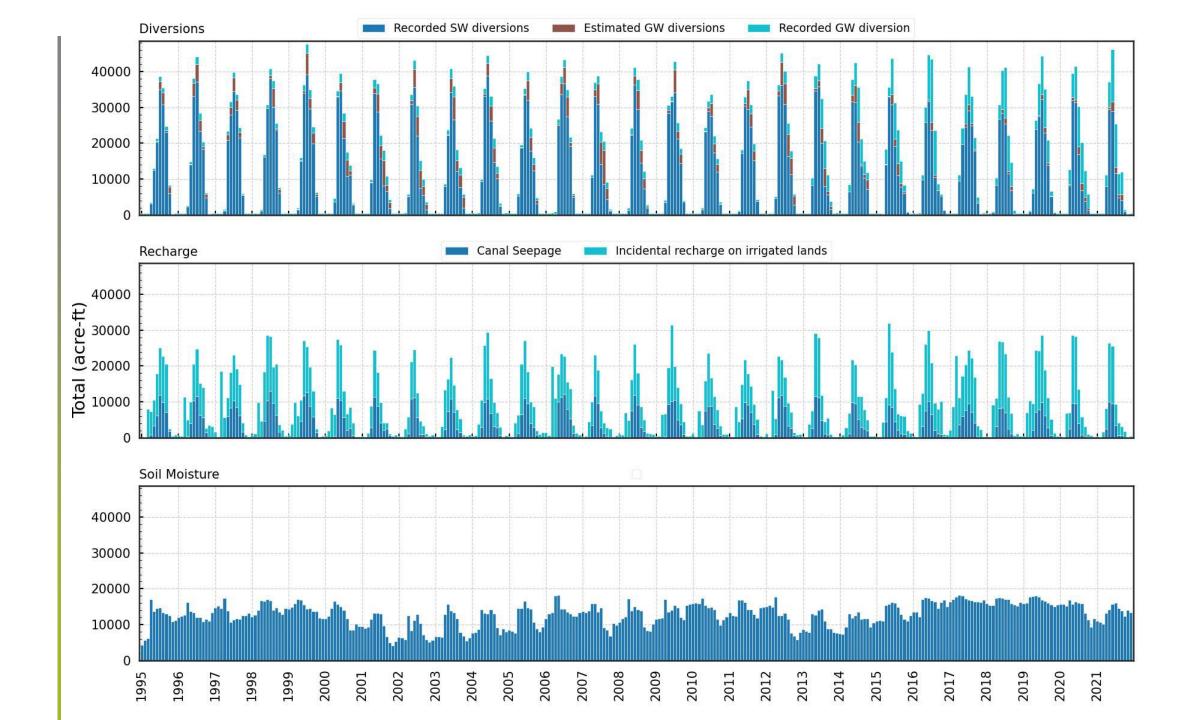
- Extended water budget from 2015 to 2021
- METRIC ET from 2015 to 2021, all years
- 6 new irrigated lands datasets
 - **2012**, 2013, 2014, 2015, 2016, 2017
- Annual pumping from WMIS records, 2013 through 2021
- Watermaster delivery records
- Added soil moisture reservoir to estimated pumping and incidental recharge estimates



Diversion and Flow Records

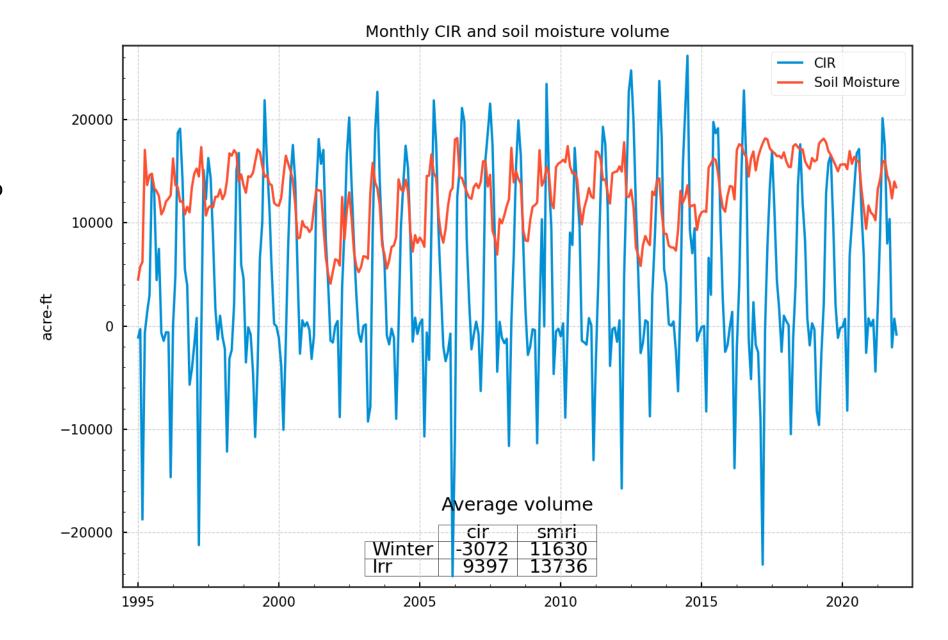
- Groundwater includes annual pumping values from WMIS starting in 2013
- Slight increase in miscellaneous seepage from Brockway Reports (Valley Club, Dry Lot, Seaman's)

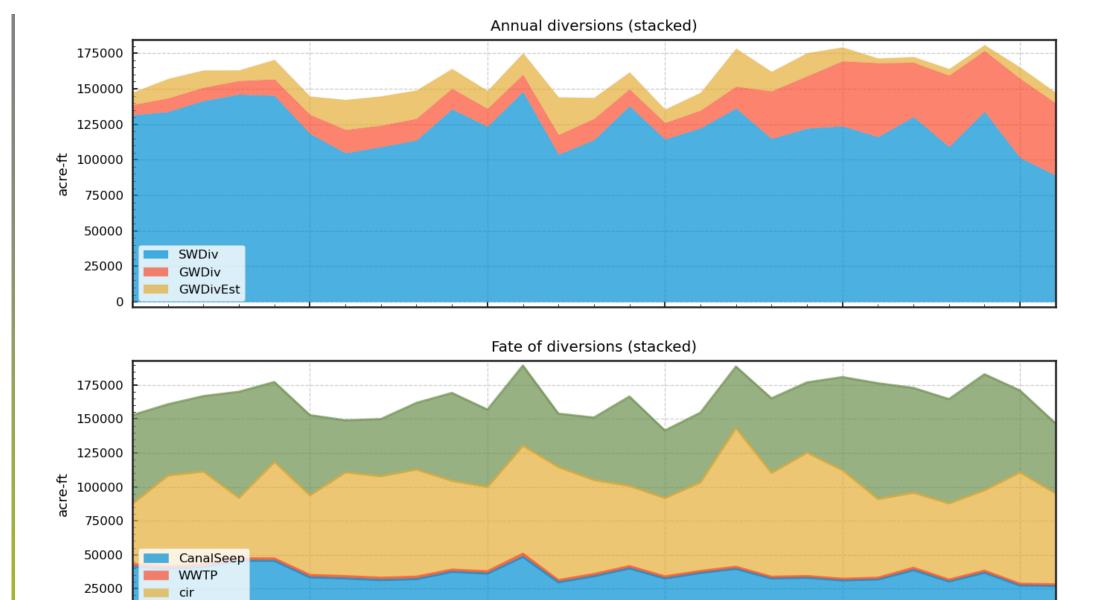




Soil Moisture

- Excess winter precip fills soil moisture
- Soil moisture meets most demand in early/late irrigation season.



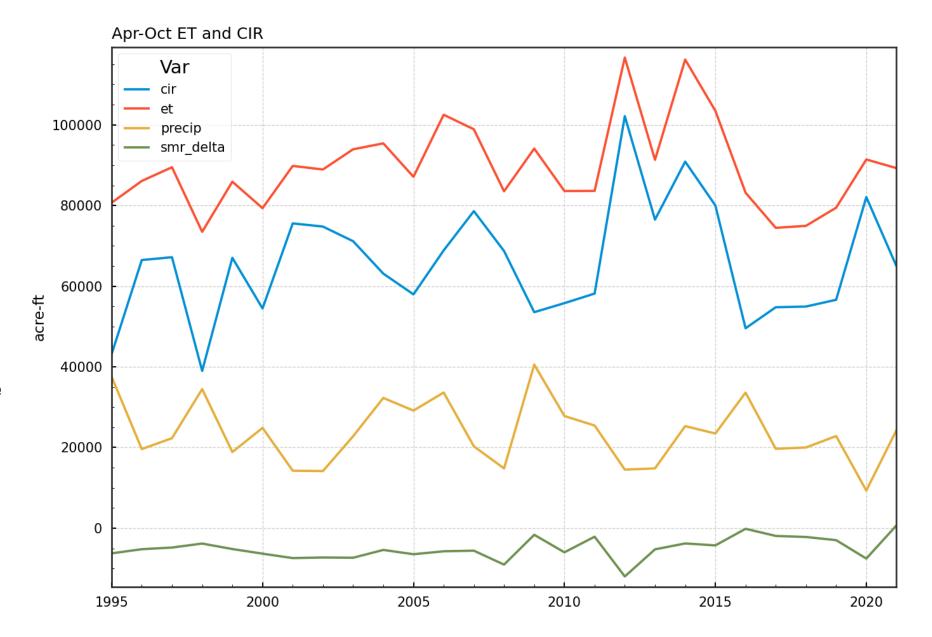


YearMonth

rech

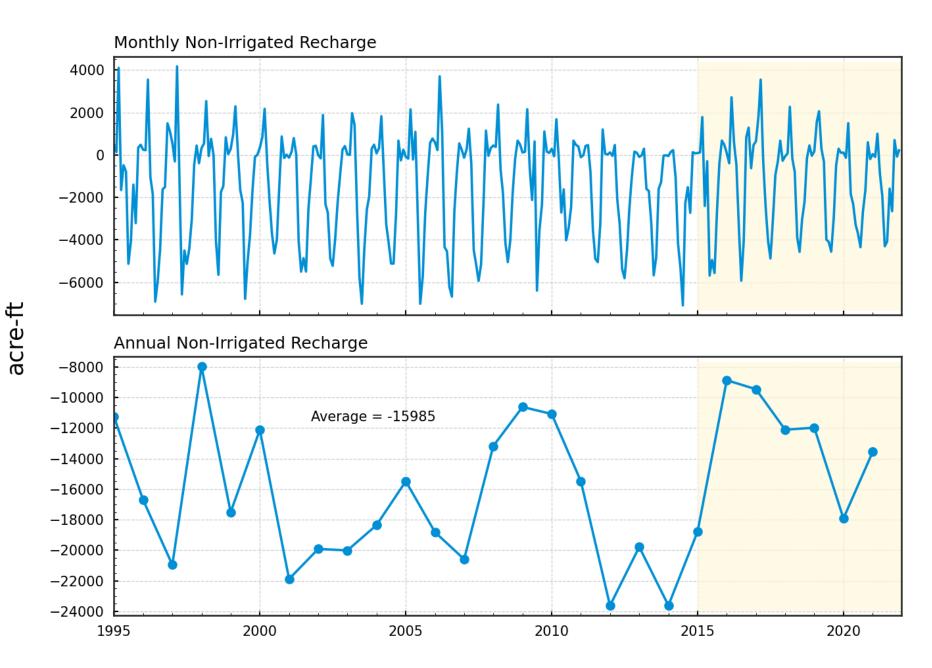
Irrigation season averages

- o ET
 - o 89,500 acre-feet
- o Precip
 - o 23,700 acre-feet
- o CIR
 - o 65,800 acre-feet
- Soil Moisture Change
 - o -5,000 acre-feet



Nonirrigated recharge

 Negative values are net aquifer discharge to wetlands and riparian consumptive use of groundwater



Tributary Underflow

- 90,600 af annually
- Scale factors
 - Low: 0.01 for Adams, Cold Springs, Greenhorn, Ohio, Slaughterhouse, Townshead
 - High: 69 for Upper BWR
- Moving average for seasonal indexing = 24 days
- Reduction factor = 5

