

## Notes on PDtrib input files for 2026

**2026ACGWStribs\_cfs.prn** was compiled using the Model Allocator Tool to extract water right PODs. Data were summarized by water right.

Commercial stockwater rights were included in the Raft (assumed to land apply wastewater)

Cooling water rights were included in the Raft (land application of wastewater mentioned in water right conditions)

**2026ACGWStribs\_CU.prn** was compiled using the 2017 and 2022 irrigated lands delineations clipped by irrigation GW right POUs to estimate groundwater irrigated area.

2021-2025 WMIS data were compiled for groundwater PODs outside the ESPAM boundary within each tributary area. For each WMIS point, the average of measured years was calculated (years with missing data were not included in the average). WMIS points designated to be measured with no data for any year were reviewed and an estimated value based on water right diversion volumes was applied if appropriate. WMIS points designated “no rights” or “unused” were assumed to be unused if no data were entered for any year. WMIS points designated “waived” were assigned an average annual diversion volume of 5 AF/year.

The 2021-2025 average groundwater diversion volume for each tributary area was divided by the estimated groundwater-irrigated area to provide an estimated volume of use per acre. Efficiency data were not available. Consumptive use estimated using CDL crop mix data and ET-IDWR average precipitation deficit data suggest efficiency is very high, so the volume of use per acre calculated using WMIS data was used as input to the PDtrib tool.

For input into the transient ESPAM2.2 simulation, the seasonal volume of impact calculated for each tributary was distributed across the irrigation season using CDL crop mix data and ET-IDWR average monthly annual precipitation deficit data.