Relationship with Indicators

# State Water Project

* B135 deliveries to the South Coast exhibit a satisfactory correlation with SWDI delta (non-linear r2= 0.7).
  + B135 Total deliveries exhibit a good correlation with SWDI delta with (non-linear r2= 0.8).
* DWR (water portfolio) dataset exhibits low correlation with SWDI delta (r2=0.435) for the whole record (2002-2020). By dividing into pre and post 2007, no significant improvement in r2 is observed (pre2007: r2=0.4017 and post2007: r2=0.55)
  + Comparing DWR with SWDI SC, similar correlations exist (r2=0.3843) for the whole record (2002-2020). By dividing into pre and post 2007, noticeable improvement in r2 is observed (pre2007: r2=0.696 and post2007: r2=0.553)
* SWP allocations (end of water year allocation) exhibit a good correlation with SWDI delta (linear r2= 0.76).
  + Correlating SWDI with allocations at the month it was published also yields satisfactory results (r2=0.7)
* Validation of datasets:
  + B135 and MWD datasets are very similar with very high correlation (r2 = 0.9421). However, in recent years B135 deliveries have been generally higher (especially 2010 and 2011)

# Groundwater

We only have DWR dataset on Groundwater deliveries. Shows moderate relationship between pumping intensity indicator (r2=0.58)

# Colorado River