

Meeting Summary



From: John Dickey
To: File
Meeting Date: August 20, 2014
Meeting Attendees: Committee
Subject: *LSJR Committee Meeting*

Update on Hoffman model review:

1. Received authorization from Daniel Cozad to work with LSJRC to review Hoffman model results.
2. Met with David and stakeholders (PID, WSID) to discuss thresholds relative to what is being observed in their districts this year.
3. Received recent water quality data for districts and had a preliminary look at it relative to Ag criteria for Cl, B, pH, and salinity. Brief summary of diagnostics for Almonds. PID has just provided some Almond and Walnut leaf tissue results. Main questions:
 - To what extent are salinity and specific ions (Cl, B, and pH) responsible for impacts to Almonds & Walnuts that have been observed this year?
 - How do salinity levels throughout district line up with salinity at the main diversion?
 - How do the observed impacts from salinity line up with Hoffman model predictions? This is important to know b/c it indicates how suitable the raw model results may be for setting protective thresholds.
4. Received and reviewed Hoffman model workbook in detail and provided comments to Jim/RB yesterday.
5. Evaluated sensitivity of results provided to the issues identified. Sensitivity is <1%, so results should be usable.
 - The exponential uptake model calculates root zone salinity based on two factors: a) infiltrating water (precip + applied water) salinity, and b) leaching fraction.
 - Potential error in applied water volume is small, but it affects salinity of infiltrating water.
 - Effects on unused scenarios are somewhat larger, so it may be worth exploring whether the identified issues are indeed errors, for the benefit of future model users.
6. Jim/RB have not yet had a chance to digest input. Assume we will work through issues on a relatively separate track, since the sensitivity is so low.
7. Question of how Hoffman model results look relative to stakeholder sensitivity, particularly in a year like this, may require some additional work on their part to evaluate their own, very recent situations.