

A “strawman” proposal to start discussion of potential inputs for model scenarios to explore the effects of optimization and projects:

Note: Deviations from Base Case shown in red font.

| Elements to be Adjusted | <u>Base Case:</u> (repeat 1985-2015) | <u>Suggestions for Design of Scenario 1:</u> Maximum Optimization of Pumping Locations & Depths | <u>Outline for Potential Future Scenario 2:</u> Addition of Recycled (and Storm?) Water to Optimized Pumping Scenario | <u>Outline for Potential Future Scenario 3:</u> Brackish Water Extraction without Treatment (discharge to ocean) | <u>Outline for Potential Future Scenario 4:</u> Brackish Water Extraction with Treatment (discharge to farms and El Rio recharge basins) |
|---|---|--|---|--|---|
| Pumping in Seawater Intrusion Mgmt. Area (SWIMA) | Historic rates | <p>Large reduction in LAS and UAS pumping.</p> <p>Install new pipelines from other mgmt. areas in Oxnard basin to partially replace groundwater formerly pumped in SWIMA.</p> | <p>Similar to Scenario 1, but with some replacement water consisting of recycled water, remainder consisting of groundwater from other parts of Oxnard basin.</p> | <p>Pumping of 10,000 AF/yr at new brackish-water extraction wells.</p> <p>No ag pumping south of brackish-water extraction wells.</p> <p>Install new wells and pipelines from other mgmt. areas in Oxnard basin to provide replacement groundwater (70 to 80% of original volumes) to properties where pumping ceased.</p> | <p>Similar to Scenario 3, but with much of the replacement water provided by treated brackish water.</p> |
| Pumping in Oxnard Pumping Depression Mgmt. Area (OPDMA) | Historic rates | <p>Large reductions in LAS and UAS pumping in <i>southern</i> OPDMA.</p> <p>Install new UAS wells (and pipelines) in <i>northern</i> OPDMA to partially replace groundwater formerly pumped in southern OPDMA.</p> <p>Uniform reduction (~35%) from historic pumping rates at existing wells in <i>northern</i> OPDMA.</p> | <p>Same as above.</p> | <p>Uniform reduction.</p> | <p>Uniform reduction.</p> |
| Pumping in West Oxnard Plain Mgmt. Area (WOPMA) | Historic rates | <p>Install new UAS wells (and pipelines) to partially replace groundwater formerly pumped in southern OPDMA and SWIMA.</p> <p>Uniform reduction (~35%) from historic pumping rates at existing wells.</p> | <p>Similar to Scenario 1.</p> | <p>Uniform reduction.</p> | <p>Uniform reduction.</p> |

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|--|---|---|--|---|---|
| Pumping in Forebay Mgmt. Area | Historic rates | Install new UAS wells (and pipelines) to partially replace groundwater formerly pumped in southern OPDMA and SWIMA. Uniform reduction (~35%) from historic pumping rates at existing wells. | Similar to Scenario 1. | Uniform reduction. | Uniform reduction. |
| Pumping in Pleasant Valley Pumping Trough Mgmt. Area (PVPTMA) | Historic rates | Uniform reduction of ~35% from historic pumping rates. | Similar to Scenario 1. | Uniform reduction. | Uniform reduction. |
| Pumping in North Pleasant Valley Mgmt. Area (NPVMA) | Historic rates | Uniform reduction of ~35% from historic pumping rates. | Similar to Scenario 1. | Uniform reduction. | Uniform reduction. |
| Delivery of Recycled and Storm Water to Agricultural Users | Historic rates | Historic rates | Increase by 3,000 AF/yr(?) | Historic rates | Historic rates |
| Recharge of Recycled and Storm Water | None | None | Increase by 2,000 AF/yr(?) | None | None |
| Application of Treated Water from Brackish Water Extraction System | None | None | None | None | Assume 5,000 AF/yr to farms in SWIM area and/or NBVC, 2,000 AF/yr product artificially recharged (when ag demand is low). |