

MANAGEMENT STRATEGY · BASELINE

Current operations with historical land use

A management strategy in the COEQWAL scenario library

This strategy follows the COEQWAL Current Operations scenario with one change: agricultural water demands are set from the older 2004–2013 average land-use dataset instead of the 2020 LandIQ map. Operating rules, TUCP actions, and everything else match the Current Operations.

This brief describes *the “Current Operations with Historical Land Use” scenario*, one of 28 management strategies in the COEQWAL scenario library. Each strategy is simulated once under each of five hydroclimates; the references note at the end of this brief lists the model runs.

§2 WHAT THIS STRATEGY CHANGES

The strategy changes the land-use assumption that sets agricultural water demands. The COEQWAL Current Operations scenario uses a 2020 map of irrigated agriculture (the LandIQ dataset); this strategy instead uses the 2004–2013 average land use, which matches that used in DWR's 2023 Delivery Capability Report release.

Land use enters CalSim through the irrigation demands calculated for each demand unit, so the difference between the two datasets appears in the model as a difference in how much water is needed for agricultural purposes, and where. All operating rules — including the active TUCP actions — are unchanged from the COEQWAL Current Operations scenario.

§3 THE CONFIGURATION IN DETAIL

The table compares the eight operational fields that define this strategy against current operations — the strategy that represents existing operational rules, recent (2020) land use, and TUCPs. Rows that match current operations are shown in light gray; rows that differ are highlighted.

ASPECT	CURRENT OPERATIONS	THIS STRATEGY
TUCP actions	Active	Active
SGMA actions	None	None
Land use	2020 LandIQ	2004–2013 average
Delta regulations	Standard	Standard
BiOps	2019 / 2020 ITP	2019 / 2020 ITP
Infrastructure	Standard	Standard
Flows	Standard	Standard
Allocation / priorities	Standard	Standard

§4 LINEAGE AND SOURCE

The configuration used in this scenario follows DWR's 2023 Delivery Capability Report baseline but modified to activate TUCP actions. While the COEQWAL Current Operations scenario is further modified to use the 2020 LandIQ dataset, this strategy retains the earlier 2004–2013 average, so these two scenarios isolate the land-use assumption. The CalSim model files for this strategy are referenced by the run IDs in the references note at the end of this brief.

§5 RELATED STRATEGIES

RELATED STRATEGIES — BASELINE

Current operations. Existing operational rules with recent (2020) land use and TUCP actions — the current-operations anchor the other strategies are compared against.

Current operations without TUCPs. Current operations with TUCP actions deactivated.

Current USBR operations without TUCPs. Operating rules from USBR's 2024 Long-Term Operations plan (Alt2v1), with TUCP actions deactivated.

Current USBR operations. Operating rules from USBR's 2024 Long-Term Operations plan (Alt2v1), with 2020 land use and TUCP actions active.

§6 WHAT THIS DOESN'T SAY

This brief describes a scenario representation in CalSim, not a real-world policy proposal or implementation plan. The strategy as modeled may not capture all details necessary to support direct translation to actual operations. The brief does not predict, evaluate, or recommend any outcome — it describes what the scenario changes about CalSim's representation of the system. For what the model produces under this strategy, see the result briefs referenced in §7.

§7 SEE RESULTS FOR THIS STRATEGY

To see modeled outcomes for the current-operations family across all nine key outcomes at the reference hydroclimate, see the *BASELINES* brief.

To see outcomes at a specific location of interest, see the relevant LOI briefs — particularly those for agricultural locations in the Sacramento and San Joaquin valleys.

Compare this strategy in the data explorer → (<https://coeqwal.org/explore?strategy=s0011>)

REFERENCES — MODEL RUNS

Each strategy is simulated once under each of five hydroclimates. The table lists the model run behind this strategy and the current-operations run it is compared against, for each hydroclimate, so any reader can trace this page to specific CalSim runs.

HYDROCLIMATE	THIS STRATEGY	CURRENT OPERATIONS
Historical hydroclimate (adjusted)	s0011	s0020
Moderate climate stress (EC-Earth3-Veg)	s0133	s0134
Moderate-high climate stress (cc50)	s0048	s0047
High climate stress (cc95)	s0057	s0056
Extreme climate stress (TaiESM1)	s0107	s0108

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