

INTB Hot Start:

Simulation setup with actual data, but use prorated pumpage to 5-year average of 90 mgd

2015	2016	2017	2018	2019
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Stochastic (Bayesian Basin) Rainfall:

A set of 1000 rainfall realizations of 35 years timespan, INTB uses 15-minutes interval in WDM database, SWRE indirectly uses daily values for certain basins to generate flows for surface water allocation model.

2021	2022	2023	2024	2025	2026	2027	2028	...	2037	...	2055
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Reference INTB Simulation:

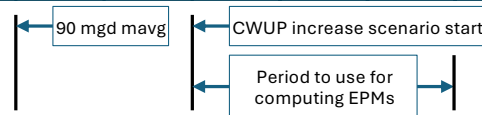
A set of 1000 INTB simulations with 30 years timespan, apply Stochastic Rainfall for each realization and a 30-year repeating well pumping pattern prorated to 90 mgd annual rate. The pumping pattern is determined from the average over 2015-2019.

INTB Hot Start	2026	2027	2028	...	2037	...	2055
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SWRE Simulation:

A set of 1000 INTB simulations with 30 years timespan, apply Stochastic Rainfall for each realization and a 30-year repeating well pumping pattern prorated to 90 mgd annual rate. The pumping pattern is determined from the average over 2015-2019.

Pumpage and Waterlevel from Hot Start	2026	2027	2028	...	2037	...	2055
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**Optimized INTB Simulation:**

A set of 1000 INTB simulations with 12 years timespan, apply Stochastic Rainfall for each realization and the 12-year well daily pumpage from SWRE output of the same realization.

INTB Hot Start	2026	2027	2028	...	2037
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