

WESTAR-WRAP Emissions and Modeling Scenarios – Display and Comparison Specifications

draft – January 2020 update - draft

| Scenario Name | Shakeout (2014 initial emissions v1 / BCs, met) | Model Performance Evaluation (2014 final actual v2 emissions / BCs and meteorology) | Representative / Planning Baseline (mix of emissions inputs 2014-18 with 2014 meteorology) | Regional Haze Planning Goals 2028 Projections (2014 meteorology) | Alternate Outcomes and Contribution Scenarios (2014 meteorology) | |
|--|---|--|--|---|---|---|
| Code | A1 | A2 | B | C1, C2, C3 | D1, D2, D3, D4 | |
| Timing | April 2019 | January 2020 | February | March | April - May | |
| IWDW | Wiki display, No on-line data display | Display emissions, model results, and site-level MPE results) Compares to B, C1-3 | Display emissions and model results Compares to A2, C2-3, D1-4 | Display emissions and model results Compares to A2, B, C1-3, D1-4 | Display emissions and model results Compares to B, C1-3, D1-4 | |
| TSS | | Display emissions and model results Compares to B, C1 | Display emissions and model results Compare to A2, C2-3, D1-4 | Calculate and Display 2028 RPGs Display emissions and model results Compares to A2, B, C1-3, D1-4 | Calculate and Display 2028 RPGs Display emissions and model results Compares to A2, B, C1-3, D1-4 | |
| CAMx Modeling Scenarios <i>(italicized scenarios not yet in contract, or not funded or confirmed)</i> | A1) 2014v1 | A2) 2014v2 | B) Current Baseline w/RepFire ¹ , also high-level CAMx source apportionment (PSAT / APCA) & zero-out runs | C1) 2028OTBw/14fire ² | D1) 2028OTBw/ RepFire_SOxNOxPSAT and ozone precursor APCA state by source sector | |
| | | | | C2) 2028OTBw/RepFire ¹ | | |
| | | | | C3) 2028PotentialAddtlControls w/ Rep Fire ³ | | D2) 2028OTB_WildfireFuture ⁴ |
| | | | | C4) 2028AdoptedAddtlControls w/ Rep Fire ⁵ | | D3) 2028OTB_RxFireFuture ⁴ |
| | | | | | | D4) 2028OTBwith2028BCs ⁶ |
| CMAQ | A1) 2014v1 | A2optional) 2014v2 | | C1optional) 2028OTBw/14fire ¹ | | |

¹ 2014 International Anthro contribution adjustment option available from this modeling scenario (by difference)

² 2014 or Representative/Current Baseline Rx fire contribution adjustment option available from either of these scenarios, respectively

³ Will utilize inputs from 13 contiguous states when available early 2020, to be scheduled for completion Spring 2020 (*in Workplan but not in current contract*)

⁴ Fire paired in space and time with RepFire activity, these sensitivity scenarios give potential for wildfire and Rx fire contributions to Reasonable Progress Goals, relative to C2-4 scenarios

⁵ Controls adopted by states in SIPs, this scenario is likely not possible until late 2020 or early 2021 (*unfunded at present, not in Workplan*)

⁶ Different Boundary Conditions from 2014, so if run, could also be used as International Anthro adjustment option (*unfunded at present, not in Workplan*)