

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

draft - November 18, 2019 - draft

Scenario Name	Shakeout (2014 initial emissions / BCs, met)	Model Performance Evaluation (2014 final actual emissions / BCs and meteorology)	Planning Baseline (mix of emissions inputs 2014-18 with 2014 meteorology)	Planning – 2028 Projections (2014 meteorology)	Alternate Outcome Scenarios (2014 meteorology)
Code	A1	A2	B	C1, C2, C3	D1, D2, D3, D4
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
<b>CAMx Modeling Scenarios</b>  <i>(italicized scenarios not yet funded or confirmed)</i>	A1) 2014v1	A2) 2014v2		C1) 2028OTBw/14fire **	
			B) Current Baseline w/RepFire *	C2) 2028OTBw/RepFire **	D1) 2028OTBw/RepFire_SOxNOxPSATstate by source sector
				C3) 2028PotentialAddtlControls w/Rep Fire	D2) 2028OTB_WildfireFuture ****
				C4) 2028AdoptedAddtlControls w/Rep Fire***	D3) 2028OTB_RxFireFuture *****
					D4) 2028OTBwith2028BCs *****
<b>CMAQ options</b>		A2optional) 2014v2		C1optional) 2028OTBw/14fire **	

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

\*\* 2014 or CurrentBaseline Rx fire contribution adjustment option available from either of these scenarios, respectively

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

\*\*\*\* fire not paired in space or time with 2014 or RepFire activity, these sensitivity scenarios could give potential future wildfire contribution relative to C2-4 scenarios

\*\*\*\*\* fire is paired in space *and* time with RepFire activity; this sensitivity scenario gives potential future Rx fire contribution relative to C2-4 scenarios

\*\*\*\*\* different BCs from 2014, so if run, could also be used as International Anthro adjustment option (*unfunded at present, not in Workplan*)