

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

draft – March 2020 update – draft

Scenario Name	Shakeout v1 & Model Performance Evaluation v2 (2014 emissions / BCs / meteorology)	Representative / Planning Baseline (emissions inputs from 2014 through 2018, uses 2014 meteorology)	Regional Haze Planning Goals 2028 Projections (2014 meteorology)	Alternate Outcomes and Contribution Scenarios (2014 meteorology)	
Code	A1, A2	B	C1, C2, C3, C4	D1, D2, D3	
Timing	April 2019, Jan. 2020	February	March - April	May - June	
IWDW	Display emissions, model results, and site-level MPE results) Compares to B, C1-3	Display emissions, model results Compare to A2, C2-3, D1-4	Display emissions, model results Compares to A2, B, C1-3, D1-4	Display emissions, model results Compares to B, C1-3, D1-4	
TSS	Display emissions, model results Compares to B, C1	Display emissions, model results Compare to A2, C2-3, D1-4	Calculate and Display 2028 RPGs Display emissions, model results Compares to A2, B, C1-4, D1-3	Calculate and Display 2028 RPGs Display emissions, model results Compares to A2, B, C1-4, D1-3	
CAMx Modeling Scenarios <i>(italicized scenarios not yet in contract, or not funded or confirmed)</i>	A1) 2014v1 (no data display or distribution)	B) Current Baseline w/RepFire ¹ , also high-level CAMx source apportionment (PSAT / APCA) & zero-out runs	C1) 2028OTBb w/14fire ²	D1)* 2028OTBw/ RepFire_SOxNOxPSAT and ozone precursor APCA state by source sector	
	A2) 2014v2		C2) 2028OTBa w/RepFire ¹		
			C3) 2028PotentialAddtlControls #1 w/ Rep Fire ³		D2)* 2028OTB_WildfireFuture ⁴
			C4)** 2028PotentialAddtlControls #2 w/ Rep Fire ³		D3)* 2028OTB_RxFireFuture ⁴
			C5optional) 2028AsAdoptedAddtlControls w/ Rep Fire ⁵		
CMAQ	A2optional) 2014v2		C1optional) 2028OTBb w/14fire ¹		

* - exact timing of D series modeling scenarios to be determined

** C4 scenario to be completed in August

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 in 2 scenarios (model runs in April and August) (*in Workplan, being adding to 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 their SIPs, this scenario is likely not possible until 2021 (*unfunded at present, not in Workplan*)