

CV-SALTS Conceptual Model - Questions to be Answered Matrix

The conceptual model will answer the following basin planning/SNMP questions:

#	Conceptual Model Question	Answered	
		Initial/Planning	CV-SNMP/Master Plan
1	Identify areas/ regions/subareas achieving water, salt, and/or nitrate balances?	Yes by color/magnitude	Detailed at the SNMP Level
2	Clearly show high priority areas? And impaired areas or Hotspots	Yes with Ex. Committee direction	Yes, in greater detail
3	Identify areas/regions/subareas are accumulating or depleting water, salt, and/or nitrate?	Visible at the Initial with magnitude	Detailed at the SNMP Level
4	Identify water, salt, and nitrate transport within and to/from Central Valley and rate	Yes, water based	Yes, water and other transport based
5	Identify rate of accumulation?	At a high level summary	Estimate depending on the available data
6	Forecast future accumulation or depletion?	No	Estimate depending on the available data
7	What are the sources of water, salt, and nitrate into the Central Valley?	yes, major sources	in higher level of detail
8	Where and at what rate salt sources enter the Central Valley?	yes, major sources	in higher level of detail
9	Forecast future magnitude of sources	No	Limited, dependent on modeling
10	Integrate additional studies by others	No	Yes if completed
11	Identify major data gaps?	Area data gaps shown	Areal and constituent gaps shown
12	Illustrates the primary drivers of salts?	Yes, as related to water and land use	Yes, in greater detail where needed
13	Show how primary drivers result different management practices?	No	No, detail level not likely adequate
14	Is temporal variability included?	No	Yes, level needed TBD
15	Are future scenarios included?	No	Yes, the level and number needed TBD
16	Integrates archetype and prototype efforts?	No	Yes
17	Supports assimilative capacity assessment and planning	No	Yes
18	Supports required elements of the SNMP	No	Yes
19	Support for management practice assessment?	No, not separately	Yes, after baseline set, review various practices

#	Conceptual Model Question	Answered	
		Initial/Planning	CV-SNMP/Master Plan
20	Support SSALTS, initial development /refinement /impact of implementation plans?	No	Yes, after baseline set, assess and plan implementation
21	Supports offsets, credits, trading related assessment?	No	Yes, but limited, further development needed
22	Identify Rate of change for concentrations in groundwater and vadose zone?	Preliminary Indication	General direction and rate where data support assessment
23	Incorporate changes to Beneficial Uses and Objectives or other standards	No	Yes
24	Indicate high level Regulatory Management Areas	Yes	Yes
25	Indicate Regulatory Management areas which may be appropriate	Preliminary Indication	Yes
26	Support BPA, CEQA, Economic, Antideg, etc.	No	Yes
27	Supports Tier 1 efforts RE Waterbodies	Yes	
28	Supports Tier 2 efforts RE Standards	Partial	Yes
29	Supports Tier 3 efforts RE Assessment	No	Yes
30	Supports Tier 4 efforts Re Implementation	No	Yes
31	Supports Monitoring planning and periodic reassessment	No	Yes

Local SNMP/Implementation
Yes
Yes, if local data exists
Higher level detail of available locally
Dependent on local modeling
Dependent on local modeling
Dependent on local data
Dependent on local data
Dependent on local data and models
Yes as completed
Areal, temporal and constituent gaps shown
Local information
Possible with better data/local knowledge
Yes
Yes
Yes
Yes
Yes depending on local implementation

Local SNMP/Implementation
Yes depending on local implementation
Yes if appropriate
Yes, depending on local modeling
Yes
Yes
Refinement
Yes
Yes