

Climate Change Vulnerability Question	Y/N	Justification of Answer	Climate Change Vulnerability Issue
<b>Water Demand</b>			
Are there major industries that require cooling/process water in your planning region?	N	No major industries in the area	
Are crops grown in your region climate-sensitive? Would shifts in daily heat patterns, such as how long heat lingers before night-time cooling, be prohibitive for some crops?	N	No crops grown in the area	
Do groundwater supplies in your region lack resiliency after drought events?	Y	The groundwater table consistently decreases until another event occurs; however, there have been no water shortages to date	Inability to use groundwater storage to buffer drought
Are water use curtailment measures effective in your region?	Y	The Region responded well to conservation mandates during the last drought	Limited ability to conserve further
Does water use vary by more than 50% seasonally in parts of your region?	Y	The area is characterized by high summer and low winter use; up to four times in urban areas, and approximately doubled in other areas.	Limited ability to meet summer demand
Are some instream flow requirements in your region either currently insufficient to support aquatic life, or occasionally unmet?	N	There are no stream flow requirements in the area	
<b>Water Supply</b>			
Does a portion of the water supply in your region come from snowmelt?	Y	The Whitewater flume provides spring and summer snowmelt from San Bernardino Mountains as well as some from the San Gorgonio River	Decrease in local surface supply
Does part of your region rely on water diverted from the Delta, imported from the Colorado River, or imported from other climate-sensitive systems outside your region?	Y	SGWPA supplies SWP water to the Region	Decrease in imported supply
Would your region have difficulty in storing carryover supply surpluses from year to year?	Y	Our region has sufficient physical storage to carry over supply surpluses from year to year.	Decrease in seasonal reliability
Does part of your region rely on coastal aquifers? Has salt intrusion been a problem in the past?	N	This Region is not on the coast	
Has your region faced a drought in the past during which it failed to meet local water demands?	N	The Region has always been able to meet demands - but this has required some levels of conservation to be employed.	
Does your region have invasive species management issues at your facilities, along conveyance structures, or in habitat areas?	N	None have been identified.	
<b>Water Quality</b>			
Are increased wildfires a threat in your region? If so, does your region include reservoirs with fire-susceptible vegetation nearby which could pose a water quality concern from increased erosion?	N	Yes increased wildfires are a threat, but there are no open reservoirs that would be impacted by those events	
Does part of your region rely on surface water bodies with current or recurrent water quality issues related to eutrophication, such as low dissolved oxygen or algal blooms? Are there other water quality constituents potentially exacerbated by climate change?	N	All natural surface water is ephemeral in the region and there is no surface water storage facilities.	
Are seasonal low flows decreasing for some waterbodies in your region? If so, are the reduced low flows limiting the waterbodies' assimilative capacity?	N	There are no surface waterbodies.	
Are there beneficial uses designated for some water bodies in your region that cannot always be met due to water quality issues?	N	None have been identified	
Does part of your region currently observe water quality shifts during rain events that impact treatment facility operation?	Y	<i>Are there issues at the Banning Heights Plant?</i>	Increase in treatment needs and costs
<b>Sea Level Rise</b>			
Has coastal erosion already been observed in your region?	N	Not a coastal area	
Are there coastal structures, such as levees or breakwaters, in your region?	N	Not a coastal area	
Is there significant coastal infrastructure, such as residences, recreation, water and wastewater treatment, tourism, and transportation at less than six feet above mean sea level in your region?	N	Not a coastal area	
Is there land subsidence in the coastal areas of your region?	N	Not a coastal area	
Are there climate-sensitive low-lying coastal habitats in your region?	N	Not a coastal area	
Are there areas in your region that currently flood during extreme high tides or storm surges?	N	Not a coastal area	
Do tidal gauges along the coastal parts of your region show an increase over the past several decades?	N	Not a coastal area	
<b>Flooding</b>			
Does critical infrastructure in your region lie within the 200-year floodplain?	Y	There are areas that lie within the 200-year floodplain, which also overlap the 100-year floodplain	
Does aging critical flood protection infrastructure exist in your region?	N	None have been identified.	Increases in inland flooding

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Have flood control facilities (such as impoundment structures) been insufficient in the past?	Y	There are some places where the capacity is insufficient in extreme flood events	
Are wildfires a concern in parts of your region?	Y	<i>There are some areas of the region where, if impacted by a wildfire, an increase in flash flooding would result during a storm</i>	Increases in flash flooding
Does part of your region lie within the Sacramento-San Joaquin Drainage District?	N	The region is not in that area	
<b>Ecosystem and Habitat</b>			
Does your region include inland or coastal aquatic habitats vulnerable to erosion and sedimentation issues?	N	<i>The region does not typically have aquatic habitats</i>	Increased impacts to water dependent species
Does your region include estuarine habitats which rely on seasonal freshwater flow patterns?	N	<i>None have been identified</i>	
Do climate-sensitive fauna or flora populations live in your region?	Y	Assuming all flora and fauna are climate sensitive	
Do estuaries, coastal dunes, wetlands, marshes, or exposed beaches exist in your region? If so, are coastal storms possible/frequent in your region?	N	Not a coastal area	
Do endangered or threatened species exist in your region? Are changes in species distribution already being observed in parts of your region?	Y	None yet identified	Decrease in available necessary habitat
Does the region rely on aquatic or water-dependent habitats for recreation or other economic activities?	N	No real aquatic habitats or resources	
Are there areas of fragmented estuarine, aquatic, or wetland wildlife habitat within your region? Are there movement corridors for species to naturally migrate? Are there infrastructure projects planned that might preclude species movement?	N	No fragmentation and no project planned that would preclude movement	
Does your region include one or more of the habitats described in the Endangered Species Coalition's Top 10 habitats vulnerable to climate change?	N	None have been identified	
Are there rivers in your region with quantified environmental flow requirements or known water quality/quantity stressors to aquatic life?	N	No flow requirements	
<b>Hydropower</b>			
Is hydropower a source of electricity in your region?	N	There is no longer any hydropower	Decrease in hydropower potential
Are energy needs in your region expected to increase in the future? If so, are there future plans for hydropower generation facilities or conditions for hydropower generation in your region?	N	<i>Flows are insufficient to warrant construction of a hydropower plant(s).</i>	