



**Drought Vulnerability and Risk Assessment Form
Tribal Drinking Water Systems**

Background and purpose: The drought vulnerability and risk assessment form for Tribal drinking water systems is a follow-up to the initial drought assessment. This assessment provides a more quantitative evaluation of specific factors related to vulnerability and risk, and uses a broad range of information on management, water supply, and water demand. Findings will be used to evaluate the relative level of drought vulnerability and risk, and prioritize follow-on planning activities collaboratively with the Tribes.

Instructions: Provide a response for each of the 12 factors and obtain a total score, which suggests an overall level of drought vulnerability and risk. The range of scores and suggested drought vulnerability and risk are:

Range of total scores and related drought vulnerability and risk

- 0 to 20 suggests a very low vulnerability/risk
- 21 to 40 suggests a low vulnerability/risk
- 41 to 60 suggests a medium vulnerability/risk
- 61 to 80 suggests a high vulnerability/risk
- 81 to 100 suggests a very high vulnerability/risk

General information:

A	Date of assessment	May 4, 2015
B	Name of Tribe	
C	Name of water system	
D	EPA public water system ID number	
E	Number of Indian homes on system	
F	Number of non-residential and non-Indian homes on system	

Factors related to drought vulnerability and risk

No.	Factor	Range of responses	Score
1	Does the Tribe have a written drought contingency and/or emergency plan? Formalized and/or adopted drought contingency plan..... Draft drought contingency or emergency plan..... No drought contingency or emergency plan.....	0 5 10	10
2	Does the water system have customer water meters and/or has the Tribe implemented use reduction practices? Individual water meters and implemented water use reduction practices..... Limited water meters and/or marginal water use reduction practices..... No water meters and limited or no water use reduction practices.....	0 2 5	5
3	What is the percent of average seasonal precipitation in the hydrologic region where the tribal water system is located? 100% or greater than average..... 75% to 99% of average..... 50% to 74% of average..... 25% to 49% of average..... Less than 25% of average..... http://cdec.water.ca.gov/snow/bulletin120/index2.html#	0 2 5 7 10	10
4	What is the drought monitor condition where the tribal water system is located? D0 Abnormally dry..... D1 Moderate drought..... D2 Severe drought..... D3 Extreme drought..... D4 Exceptional drought..... http://droughtmonitor.unl.edu/Home/StateDroughtMonitor.aspx?CA	1 2 3 7 10	10
5	What is the current primary source of water supply? Groundwater well in formations with high permeability, surface water with up-stream storage or inter-tie..... Groundwater well in formations with moderate permeability or surface water with a low channel dam..... Groundwater well in formations with low permeability or surface water with no up-stream storage or dam..... http://www.water.ca.gov/groundwater/bulletin118/qwbasins.cfm	0 2 5	5
6	What are the provisions for a reliable alternative other water supply source? An alternative water source exists such as surface water, groundwater well, or system inter-tie..... No alternative water source exists; however there are feasible and probable options (e.g. less than 5 miles)..... No alternative water source exists and there are limited feasible or probable options (e.g. greater than 5 miles)..... Note: feasible/probable options related to factors including ground formations, proximity to adjacent water system, etc.	0 2 5	5
7	What is the current production of the water supply source? Meets or exceeds demand (e.g. 200 gallons/person/day) at standard pumping cycle..... Greater than 100 gallons/person/day at standard pumping cycle..... 75 to 100 gallons/person/day and pumping cycle exceeds standard rate..... 50 to 75 gallons/person/day and pumping cycle exceeds standard rate..... 30 to 50 gallons/person/day and pumping cycle exceeds standard rate..... Less than 30 gallons/person/day and pumping cycle exceeds standard rate.....	0 2 4 7 10 15	15
8	How much has the available water supply decreased as a percentage after May 1 (measured as flow, safe yield, specific capacity, etc.)? Limited/normal change (e.g. 10% or less) in available water supply..... Moderate change (e.g. 10 to 25%) in available water supply..... Severe change (e.g. 25 to 35%) in available water supply..... Extreme change (e.g. 35 to 50%) in available water supply..... Exceptional change (e.g. greater than 50%) in available water supply.....	0 3 7 10 15	15
9	What is the anticipated future additional decrease in the available water supply over the next 30-day period ? Unlikely or limited change (e.g. an additional 5% or less decrease) in available water supply..... Likely and moderate change (e.g. an additional 5 to 15% decrease) in available water supply..... Very likely and severe change (e.g. an additional 15% or greater decrease) in available water supply.....	0 5 10	10
10	What is the variation in seasonal water use from winter (e.g. January/February) to summer (June/July/August)? Less than 50% in variation from winter to summer..... 50% to 100% in variation from winter to summer..... Greater than 100% in variation from winter to summer.....	0 2 5	5
11	Who are the customers and are there any vulnerable populations (e.g. elderly, children less than 5 yrs.) served by the system? Residential customers with limited vulnerable populations..... Residential customers with significant number of vulnerable populations..... Residential customers with health clinic and/or school/day-care facilities.....	0 2 5	5
12	Are there other critical local considerations or factors for vulnerability and risk? Provide a score based on level of considerations; which may include previous capacity to meet local water demands during water shortages or system without water service for extended periods during the year. No or limited level of other considerations and factors..... Moderate level of other considerations and factors..... Significant level of other considerations and factors.....	0 2 5	5
Total score The total score should be compared with the range of scores listed above in order to determine a level of drought vulnerability and risk for the water system.			100