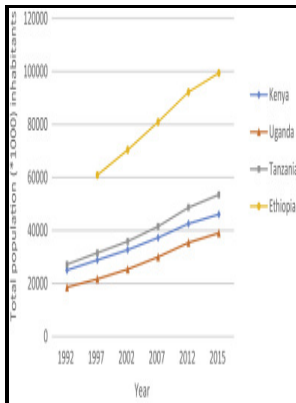


# Potential rate of development or irrigation in eastern Washington

State of Washington Water Research Center - Potential rate of development or irrigation in eastern Washington (1971 edition)



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## 2021 drought outlook calls for smart irrigation strategy

The survey included red and white wine grape cultivars from vineyards with known or suspected problems in four regions: Columbia Valley, Horse Heaven Hills, Red Mountain and Yakima Valley. Sodium, measured by exchangeable sodium percent, was significantly above the recommended range of 15 percent exchangeable soil percentage, or ESP, at which soils are considered sodic in more than 30 percent of the samples collected from soils irrigated by groundwater.

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Wine grape toxicity Saline soils can adversely affect the growth of wine grapes by affecting soil infiltration rate and soil texture. In Western Washington, high rainfall can wash away nutrients, particularly nitrates, from crop soils. Ecology has not turned a blind eye to the issue, and has proposed a task force which will start with a literature review of technical resources and an evaluation of how other states are dealing with similar issues.

## 2021 drought outlook calls for smart irrigation strategy

With a water level at 240 feet from the soil surface, the observation well near Texoma suggests a shrinking groundwater capacity to support irrigation, but surface water is limited, too. The Washington Department of Ecology regulates beneficial agricultural reuse of process wastewater through the state waste discharge permit, which allows for wastewater discharge to the ground if it is in compliance with permit conditions.

## Washington Irrigation

In a year like 2021 where rainfall and groundwater sources are expected to be limited, Warren said many no-till or strip-till growers in the Panhandle and western Oklahoma are in a good position to conserve moisture.



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