

## SMALL WINERY WATER REQUIREMENTS FOR PROCESSING

by Robert Steinhauer.

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The Napa County Guidelines For Estimating Winery Water Use is 2.15 acre feet per 100,000 gal. That calculates to 7 gal. of water for 1 gal. wine. This is for processing only and does not include domestic or landscape.

I used a 5 acre parcel. If you take out driveways, turn space and winery (no residence) you would net out about 3 to 3.5 acres, net vine acres.

I arbitrarily used 3.75 tons/net vine acre. (3.5 acres X 3.75 tons=13.1 tons); I used 13 tons.

$60 \text{ cases/ton} = 780 \text{ cases. } 780 \text{ cases} \times 2.40 \text{ gal./case} = 1872 \text{ gal. total.}$

$1872 \text{ gal. wine} \times 7 \text{ gal. water} = 13,104 \text{ gal. of water used; this is } 0.040 \text{ acre feet of water needed.}$

If they purchased 50% more grapes this would of course double the processing need for water.

For every increment of 1 net vine acre, on a given property, the processing water need would be 375 gal. of water.

Also what would happen to waste water for these new wineries?

Does the city have a compliance officer to insure compliance with permits?

I would suggest that we discuss the Napa County requirement that the parcel size be 10 acres or more.