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## Trip Generation Worksheet

Diamond Creek Vineyards Use Permit Major Modification P19-00177-MOD and  
Exception to the Roads and Street Standards  
Planning Commission Hearing – January 21, 2026



A Tradition of Stewardship  
A Commitment to Service

## WINERY TRIP GENERATION WORKSHEET

Planning, Building & Environmental Services

1195 Third Street, Suite 210

Napa, CA 94559-3082

(707) 253-4417

### PROJECT DESCRIPTION

**Clear Form**

Winery Name: \_\_\_\_\_

Date Prepared: \_\_\_\_\_

Existing Entitled Winery	Harvest	Non-Harvest
Number of Full Time Employees*	Weekday 6	6
	Weekend 6	1
Number of Part Time Employees*	Weekday 2	2
	Weekend 2	1
Maximum Daily Visitation	Weekday 22	10
	Weekend 10	10
Annual Gallons of Production	10,000	10,000
Annual Tons of Grape Haul	62.5	N/A
Number of Visitors at the Largest Event that occurs two or more times per month, on average	Weekday 22	22
	Weekend 10	10

Proposed Winery	Harvest	Non-Harvest
Number of Full Time Employees*	Weekday 8	8
	Weekend 8	1
Number of Part Time Employees*	Weekday 3	2
	Weekend 3	1
Maximum Daily Visitation	Weekday 10	10
	Weekend 10	10
Annual Gallons of Production	25,000	25,000
Annual Tons of Grape Haul	156.2	N/A
Number of Visitors at the Largest Event that occurs two or more times per month, on average	Weekday 10	10
	Weekend 10	10

\*Number of full time and part time employees should represent the max number of employees that will be working on any given day (including all vendors and contractors employed for the largest event that occurs two or more times per month on average).

## TRIP GENERATION

Existing Winery					Harvest	Non-Harvest
<u>Maximum Daily Weekday Traffic (Friday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	6	6	3.05 one way trips/employee	FT Employee Daily Trips	18.3	18.3
PT Employees	2	2	1.9 one way trips/employee	PT Employee Daily Trips	3.8	3.8
Max Visitors	22	10	2.6 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	16.9	7.7
Max Event	22	22	2.6 visitors/vehicle for 2 one way trips	Max Event Daily Trips	16.9	16.9
Gallons of Production	10,000		0.000018 truck trips	Production Daily Trips	0.2	0.2
Tons of Grape Haul#	62.5		0.013889 truck trips	Grape Haul Daily Trips	0.9	0.0
				<b>Total Weekday Daily Trips</b>	<b>57</b>	<b>47</b>
				<b>Total Weekday Peak Hour Trips*</b>	<b>14</b>	<b>10</b>
<u>Maximum Daily Weekend Traffic (Saturday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	6	1	3.05 one way trips/employee	FT Employee Daily Trips	18.3	3.1
PT Employees	2	1	1.9 one way trips/employee	PT Employee Daily Trips	3.8	1.9
Max Visitors	10	10	2.8 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	7.1	7.1
Max Event	10	10	2.8 visitors/vehicle for 2 one way trips	Max Event Daily Trips	7.1	7.1
Gallons of Production	10,000		0.000018 truck trips	Production Daily Trips	0.2	0.2
Tons of Grape Haul#	62.5		0.013889 truck trips	Grape Haul Daily Trips	0.9	0.0
				<b>Total Weekend Daily Trips</b>	<b>38</b>	<b>20</b>
				<b>Total Weekend Peak Hour Trips*</b>	<b>12</b>	<b>6</b>
<u>Maximum Annual Traffic</u>						
				<b>Total Annual Trips**</b>	<b>15,293</b>	

Proposed Winery					Harvest	Non-Harvest
<u>Maximum Daily Weekday Traffic (Friday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	8	8	3.05 one way trips/employee	FT Employee Daily Trips	24.4	24.4
PT Employees	3	2	1.9 one way trips/employee	PT Employee Daily Trips	5.7	3.8
Max Visitors	10	10	2.6 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	7.7	7.7
Max Event	10	10	2.6 visitors/vehicle for 2 one way trips	Max Event Daily Trips	7.7	7.7
Gallons of Production	25,000		0.000018 truck trips	Production Daily Trips	0.5	0.5
Tons of Grape Haul#	156.2		0.013889 truck trips	Grape Haul Daily Trips	2.2	0.0
				<b>Total Weekday Daily Trips</b>	<b>49</b>	<b>45</b>
				<b>Total Weekday Peak Hour Trips*</b>	<b>14</b>	<b>13</b>
<u>Maximum Daily Weekend Traffic (Saturday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	8	1	3.05 one way trips/employee	FT Employee Daily Trips	24.4	3.1
PT Employees	3	1	1.9 one way trips/employee	PT Employee Daily Trips	5.7	1.9
Max Visitors	10	10	2.8 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	7.1	7.1
Max Event	10	10	2.8 visitors/vehicle for 2 one way trips	Max Event Daily Trips	7.1	7.1
Gallons of Production	25,000		0.000018 truck trips	Production Daily Trips	0.5	0.5
Tons of Grape Haul#	156.2		0.013889 truck trips	Grape Haul Daily Trips	2.2	0.0
				<b>Total Weekend Daily Trips</b>	<b>48</b>	<b>20</b>
				<b>Total Weekend Peak Hour Trips*</b>	<b>16</b>	<b>6</b>
<u>Maximum Annual Traffic</u>						
				<b>Total Annual Trips**</b>	<b>14,661</b>	

Net New Trips					Harvest	Non-Harvest
<u>Maximum Weekday Traffic (Friday)</u>						
			If total net new daily trips is greater than 40, a TIS is required	<b>Net New Weekday Daily Trips</b>	-8	-2
				<b>Net New Weekday Peak Hour Trips*</b>	0	3
<u>Maximum Weekend Traffic (Saturday)</u>						
			If total net new daily trips is greater than 40, a TIS is required	<b>Net New Weekend Daily Trips</b>	10	0
				<b>Net New Weekend Peak Hour Trips*</b>	4	0
<u>Maximum Annual Traffic</u>						
			<b>A Traffic Impact Study is NOT Required</b>	<b>Net New Annual Trips**</b>	<b>-632</b>	

#Trips associated with Grape Haul represent harvest season only.

\*Weekday peak hour trips are calculated as 38% of daily trips associated with visitors and production plus one trip per employee. Weekend peak hour trips are calculated as 57% of daily trips associated with visitors and production plus one trip per employee.

\*\*Annual trips represent a conservative calculation that assumes 11 weeks of harvest, all weekdays are Fridays, all weekends are Saturdays, and assumes that the largest event that occurs two or more times per month on average occurs every day.



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### PROJECT DESCRIPTION

**Clear Form**

Winery Name: \_\_\_\_\_ Date Prepared: \_\_\_\_\_

Existing Entitled Winery	Harvest	Non-Harvest
Number of Full Time Employees*	Weekday	6
	Weekend	6
Number of Part Time Employees*	Weekday	2
	Weekend	2
Maximum Daily Visitation	Weekday	22
	Weekend	10
Annual Gallons of Production		10,000
Annual Tons of Grape Haul		62.5
Number of Visitors at the Largest Event that occurs two or more times per month, on average	Weekday	22
	Weekend	10

Proposed Winery	Harvest	Non-Harvest
Number of Full Time Employees*	Weekday	6
	Weekend	6
Number of Part Time Employees*	Weekday	2
	Weekend	2
Maximum Daily Visitation	Weekday	10
	Weekend	10
Annual Gallons of Production		10,000
Annual Tons of Grape Haul		62.5
Number of Visitors at the Largest Event that occurs two or more times per month, on average	Weekday	10
	Weekend	10

\*Number of full time and part time employees should represent the max number of employees that will be working on any given day (including all vendors and contractors employed for the largest event that occurs two or more times per month on average).

## TRIP GENERATION

Existing Winery					Harvest	Non-Harvest
<u>Maximum Daily Weekday Traffic (Friday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	6	6	3.05 one way trips/employee	FT Employee Daily Trips	18.3	18.3
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Gallons of Production	10,000		0.000018 truck trips	Production Daily Trips	0.2	0.2
Tons of Grape Haul#	62.5		0.013889 truck trips	Grape Haul Daily Trips	0.9	0.0
				<b>Total Weekday Daily Trips</b>	<b>57</b>	<b>47</b>
				<b>Total Weekday Peak Hour Trips*</b>	<b>14</b>	<b>10</b>
<u>Maximum Daily Weekend Traffic (Saturday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	6	1	3.05 one way trips/employee	FT Employee Daily Trips	18.3	3.1
PT Employees	2	1	1.9 one way trips/employee	PT Employee Daily Trips	3.8	1.9
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Gallons of Production	10,000		0.000018 truck trips	Production Daily Trips	0.2	0.2
Tons of Grape Haul#	62.5		0.013889 truck trips	Grape Haul Daily Trips	0.9	0.0
				<b>Total Weekend Daily Trips</b>	<b>38</b>	<b>20</b>
				<b>Total Weekend Peak Hour Trips*</b>	<b>12</b>	<b>6</b>
<u>Maximum Annual Traffic</u>						
				<b>Total Annual Trips**</b>	<b>15,293</b>	

Proposed Winery					Harvest	Non-Harvest
<u>Maximum Daily Weekday Traffic (Friday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	6	6	3.05 one way trips/employee	FT Employee Daily Trips	18.3	18.3
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Max Event	10	10	2.6 visitors/vehicle for 2 one way trips	Max Event Daily Trips	7.7	7.7
Gallons of Production	10,000		0.000018 truck trips	Production Daily Trips	0.2	0.2
Tons of Grape Haul#	62.5		0.013889 truck trips	Grape Haul Daily Trips	0.9	0.0
				<b>Total Weekday Daily Trips</b>	<b>39</b>	<b>38</b>
				<b>Total Weekday Peak Hour Trips*</b>	<b>11</b>	<b>11</b>
<u>Maximum Daily Weekend Traffic (Saturday)</u>						
	<u>Harvest</u>	<u>Non-Harvest</u>				
FT Employees	6	1	3.05 one way trips/employee	FT Employee Daily Trips	18.3	3.1
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				<b>Total Weekend Daily Trips</b>	<b>38</b>	<b>20</b>
				<b>Total Weekend Peak Hour Trips*</b>	<b>12</b>	<b>6</b>
<u>Maximum Annual Traffic</u>						
				<b>Total Annual Trips**</b>	<b>12,449</b>	

Net New Trips					Harvest	Non-Harvest
<u>Maximum Weekday Traffic (Friday)</u>						
If total net new daily trips is greater than 40, a TIS is required					<b>Net New Weekday Daily Trips</b>	<b>-18</b>
					<b>Net New Weekday Peak Hour Trips*</b>	<b>-3</b>
<u>Maximum Weekend Traffic (Saturday)</u>						
If total net new daily trips is greater than 40, a TIS is required					<b>Net New Weekend Daily Trips</b>	<b>0</b>
					<b>Net New Weekend Peak Hour Trips*</b>	<b>0</b>
<u>Maximum Annual Traffic</u>						
<b>A Traffic Impact Study is NOT Required</b>					<b>Net New Annual Trips**</b>	<b>-2,844</b>

#Trips associated with Grape Haul represent harvest season only.

\*Weekday peak hour trips are calculated as 38% of daily trips associated with visitors and production plus one trip per employee. Weekend peak hour trips are calculated as 57% of daily trips associated with visitors and production plus one trip per employee.

\*\*Annual trips represent a conservative calculation that assumes 11 weeks of harvest, all weekdays are Fridays, all weekends are Saturdays, and assumes that the largest event that occurs two or more times per month on average occurs every day.

## ADDENDUM TO TRIP GENERATION WORKSHEET

Trip Generation Rate for a Detached Single-Family Residence<sup>1</sup>: 11.24 ADT; 0.94 during PM Peak Hour<sup>2</sup>

Effect of a Single-Family Residence on Net New Trips:

Maximum Weekday Traffic (Friday):

Net New Daily Trips:

Harvest: 1 (11 less 10\*)

Non-Harvest: 8 (11 less 3\*)

Net New Weekday Peak Hour Trips:

Harvest 0 (1 less 1)

Non-Harvest 3 (1 plus 2)

Maximum Weekend Traffic (Saturday)

Net New Daily Trips:

Harvest: 19 (11 plus 8\*)

Non-Harvest: 11 (11 plus 0\*)

## MAXIMUM ANNUAL TRAFFIC

Net New Annual Trips: 3,471 (4,103 less 632\*)

- Calculations made by adding 11.24 trips per day for the residence to the output of the trip generation worksheet section titled “Net New Trips”.

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<sup>1</sup> Source: ITE Trip Generation (11<sup>th</sup> Edition)

<sup>2</sup> Weekday 4-6PM Peak Hour Vehicle Trip Generation Rates for Adjacent Street Traffic per ITE Manual (11<sup>th</sup> Edition)