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Trip Generation Worksheet



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
PT Employees	2	2	1.9 one way trips/employee	PT Employee Daily Trips	3.8
Max Visitors	22	10	2.6 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	16.9
Max Event	22	22	2.6 visitors/vehicle for 2 one way trips	Max Event Daily Trips	16.9
Gallons of Production	10,000		0.000018 truck trips	Production Daily Trips	0.2
Tons of Grape Haul#	62.5		0.013889 truck trips	Grape Haul Daily Trips	0.9
				Total Weekday Daily Trips	57
				Total Weekday Peak Hour Trips*	14
<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
PT Employees	2	1	1.9 one way trips/employee	PT Employee Daily Trips	3.8
Max Visitors	10	10	2.8 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	7.1
Max Event	10	10	2.8 visitors/vehicle for 2 one way trips	Max Event Daily Trips	7.1
Gallons of Production	10,000		0.000018 truck trips	Production Daily Trips	0.2
Tons of Grape Haul#	62.5		0.013889 truck trips	Grape Haul Daily Trips	0.9
				Total Weekend Daily Trips	38
				Total Weekend Peak Hour Trips*	12
<u>Maximum Annual Traffic</u>					
Total Annual Trips**					15,293

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
PT Employees	3	2	1.9 one way trips/employee	PT Employee Daily Trips	5.7
Max Visitors	10	10	2.6 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	7.7
Max Event	10	10	2.6 visitors/vehicle for 2 one way trips	Max Event Daily Trips	7.7
Gallons of Production	25,000		0.000018 truck trips	Production Daily Trips	0.5
Tons of Grape Haul#	156.2		0.013889 truck trips	Grape Haul Daily Trips	2.2
				Total Weekday Daily Trips	49
				Total Weekday Peak Hour Trips*	14
<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
PT Employees	3	1	1.9 one way trips/employee	PT Employee Daily Trips	5.7
Max Visitors	10	10	2.8 visitors/vehicle for 2 one way trips	Max Visitor Daily Trips	7.1
Max Event	10	10	2.8 visitors/vehicle for 2 one way trips	Max Event Daily Trips	7.1
Gallons of Production	25,000		0.000018 truck trips	Production Daily Trips	0.5
Tons of Grape Haul#	156.2		0.013889 truck trips	Grape Haul Daily Trips	2.2
				Total Weekend Daily Trips	48
				Total Weekend Peak Hour Trips*	16
<u>Maximum Annual Traffic</u>					
Total Annual Trips**					14,661

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

#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	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	6	6
	Weekend	6	1
Number of Part Time Employees*	Weekday	2	2
	Weekend	2	1
Maximum Daily Visitation	Weekday	10	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	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	
Total Weekday Daily Trips					57	47	
Total Weekday Peak Hour Trips*					14	10	
<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	
Total Weekend Daily Trips					38	20	
Total Weekend Peak Hour Trips*					12	6	
<u>Maximum Annual Traffic</u>							
Total Annual Trips**					15,293		

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	
PT Employees	2	2	1.9 one way trips/employee	PT Employee Daily Trips	3.8	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	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	
Total Weekday Daily Trips					39	38	
Total Weekday Peak Hour Trips*					11	11	
<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	
Total Weekend Daily Trips					38	20	
Total Weekend Peak Hour Trips*					12	6	
<u>Maximum Annual Traffic</u>							
Total Annual Trips**					12,449		

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					
Net New Weekday Daily Trips				-18	-9
Net New Weekday Peak Hour Trips*				-3	1
<u>Maximum Weekend Traffic (Saturday)</u>					
If total net new daily trips is greater than 40, a TIS is required					
Net New Weekend Daily Trips				0	0
Net New Weekend Peak Hour Trips*				0	0
<u>Maximum Annual Traffic</u>					
A Traffic Impact Study is NOT Required					
Net New Annual Trips**				-2,844	

#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 Residence¹: 11.24 ADT; 0.94 during PM Peak Hour²

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".

¹ Source: ITE Trip Generation (11th Edition)

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