

Appendix E

**Economic Feasibility
Analysis Methodology**

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E-1
Vineyard Removal

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E-1: Vineyard Removal

1	Average Farm Size By Farm Size Category			
	Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi	
15 to 24.9 acres	22.0	22.0	22.0	
25 to 99.9 acres	42.4	42.4	42.4	
100 to 249.9 acres	165.8	165.8	165.8	
250 to 499.9 acres	359.0	359.0	359.0	
500 to 749.9 acres	716.0	716.0	716.0	
750 to 999 acres	874.5	874.5	874.5	
over 1,000 acres	2,469.8	2,469.8	2,469.8	

Source: USDA Agricultural Census 2007

2	Tons of Crop Per Acre				Productivity Adjustment Factors ⁽¹⁾
	Vineyards				
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi		
<i>Not Adjusted (tons of crop)</i>					
All acreage	8.99	6.52	8.15		
<i>Adjusted (tons of crop)</i>					
15 to 24.9 acres	8.02	5.82	7.27		0.892
25 to 99.9 acres	8.35	6.06	7.57		0.929
100 to 249.9 acres	8.67	6.30	7.87		0.965
250 to 499.9 acres	9.00	6.53	8.17		1.002
500 to 749.9 acres	9.33	6.77	8.46		1.038
750 to 999 acres	9.66	7.01	8.76		1.075
over 1,000 acres	9.99	7.25	9.06		1.111

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

3	Tons of Crop Per Average Farm By Size Category			
	Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi	
15 to 24.9 acres	176.4	128.1	160.0	
25 to 99.9 acres	353.5	256.6	320.7	
100 to 249.9 acres	1,438.3	1,044.0	1,304.8	
250 to 499.9 acres	3,231.6	2,345.7	2,931.6	
500 to 749.9 acres	6,680.5	4,849.2	6,060.5	
750 to 999 acres	8,446.0	6,130.7	7,662.1	
over 1,000 acres	24,663.6	17,902.7	22,374.5	

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

4	Price Per Ton of Crop (2003-2008 avg)			
	Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi	
	<i>Not Adjusted</i>	\$284.2	\$954.2	\$1,551.1

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report and US BLS

5	Annual Revenue Per Average Farm		
	Vineyards		
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
15 to 24.9 acres	\$50,133	\$122,193	\$248,241
25 to 99.9 acres	\$100,468	\$244,880	\$497,486
100 to 249.9 acres	\$408,716	\$996,206	\$2,023,840
250 to 499.9 acres	\$918,317	\$2,238,307	\$4,547,228
500 to 749.9 acres	\$1,898,397	\$4,627,157	\$9,400,290
750 to 999 acres	\$2,400,101	\$5,850,009	\$11,884,572
over 1,000 acres	\$7,008,682	\$17,082,973	\$34,704,875

Source: ADE, Inc.

6	Ten-Year Revenue Per Average Farm		
	Vineyards		
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
15 to 24.9 acres	\$501,325	\$1,221,931	\$2,482,412
25 to 99.9 acres	\$1,004,678	\$2,448,804	\$4,974,862
100 to 249.9 acres	\$4,087,164	\$9,962,059	\$20,238,399
250 to 499.9 acres	\$9,183,169	\$22,383,072	\$45,472,278
500 to 749.9 acres	\$18,983,973	\$46,271,567	\$94,002,897
750 to 999 acres	\$24,001,005	\$58,500,089	\$118,845,722
over 1,000 acres	\$70,086,821	\$170,829,730	\$347,048,746

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report and USDA Ag Census 2007

7 Ten-Year Net Profit Per Average Farm @ 5.9% Avg			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
15 to 24.9 acres	\$29,578	\$72,094	\$146,462
25 to 99.9 acres	\$59,276	\$144,479	\$293,517
100 to 249.9 acres	\$241,143	\$587,762	\$1,194,066
250 to 499.9 acres	\$541,807	\$1,320,601	\$2,682,864
500 to 749.9 acres	\$1,120,054	\$2,730,022	\$5,546,171
750 to 999 acres	\$1,416,059	\$3,451,505	\$7,011,898
over 1,000 acres	\$4,135,122	\$10,078,954	\$20,475,876
Ten-Year Net Profit Per Farm (< 100 and ≥ 100 acres)			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
<100 acres	\$44,427	\$108,287	\$219,990
≥ 100 acres	\$1,490,837	\$3,633,769	\$7,382,175

Source: ADE, Inc, based on Dun & Bradstreet, Risk Management Association, and USDA Ag Census 2007

8 Cost Per Acre for Burning Alternative			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
District Estimate	\$762	\$762	\$762
Stakeholder Estimate	\$1,132	\$1,132	\$1,132

Source: SJVUAPCD staff and stakeholders

9a Cost for Burn Alternative Per Average Farm Using District Cost Estimate			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
15 to 24.9 acres	\$16,764	\$16,764	\$16,764
25 to 99.9 acres	\$32,276	\$32,276	\$32,276
100 to 249.9 acres	\$126,342	\$126,342	\$126,342
250 to 499.9 acres	\$273,532	\$273,532	\$273,532
500 to 749.9 acres	\$545,594	\$545,594	\$545,594
750 to 999 acres	\$666,369	\$666,369	\$666,369
over 1,000 acres	\$1,882,024	\$1,882,024	\$1,882,024
Cost for Burn Alternative Per Farm (< 100 and ≥ 100 acres) Using District Cost Estimate			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
<100 acres	\$24,520	\$24,520	\$24,520
≥ 100 acres	\$698,772	\$698,772	\$698,772

Source: ADE, Inc.

9b Cost for Burn Alternative Per Average Farm Using Stakeholder Estimate			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
15 to 24.9 acres	\$24,904	\$24,904	\$24,904
25 to 99.9 acres	\$47,949	\$47,949	\$47,949
100 to 249.9 acres	\$187,689	\$187,689	\$187,689
250 to 499.9 acres	\$406,350	\$406,350	\$406,350
500 to 749.9 acres	\$810,515	\$810,515	\$810,515
750 to 999 acres	\$989,934	\$989,934	\$989,934
over 1,000 acres	\$2,795,868	\$2,795,868	\$2,795,868
Cost for Burn Alternative Per Farm (< 100 and ≥ 100 acres) Using Stakeholder Cost Estimate			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
<100 acres	\$36,426	\$36,426	\$36,426
≥ 100 acres	\$1,038,071	\$1,038,071	\$1,038,071

Source: ADE, Inc.

10a Cost Per Ten-Year Net Profit Per Average Farm - District Cost Estimate			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
15 to 24.9 acres	56.7%	23.3%	11.4%
25 to 99.9 acres	54.5%	22.3%	11.0%
100 to 249.9 acres	52.4%	21.5%	10.6%
250 to 499.9 acres	50.5%	20.7%	10.2%
500 to 749.9 acres	48.7%	20.0%	9.8%
750 to 999 acres	47.1%	19.3%	9.5%
over 1,000 acres	45.5%	18.7%	9.2%
Cost Per Ten-Year Net Profit Per Avg Farm (< 100 and ≥ 100 acres) Using District Cost Estimate			
Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi
<100 acres	55.2%	22.6%	11.1%
≥ 100 acres	46.9%	19.2%	9.5%

Source: ADE, Inc.

10b	Cost Per Ten-Year Net Profit Per Average Farm - Stakeholder Estimate			
	Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi	
15 to 24.9 acres	84.2%	34.5%	17.0%	
25 to 99.9 acres	80.9%	33.2%	16.3%	
100 to 249.9 acres	77.8%	31.9%	15.7%	
250 to 499.9 acres	75.0%	30.8%	15.1%	
500 to 749.9 acres	72.4%	29.7%	14.6%	
750 to 999 acres	69.9%	28.7%	14.1%	
over 1,000 acres	67.6%	27.7%	13.7%	
Cost Per Ten-Year Net Profit Per Avg Farm (< 100 and ≥ 100 acres) Using Stakeholder Cost Estimate				
	Vineyards			
	Grapes (wine grapes only)	Grapes (raisin & table)	Kiwi	
<100 acres	82.0%	33.6%	16.6%	
≥ 100 acres	69.6%	28.6%	14.1%	

Source: ADE, Inc.

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E-2 Other Orchard Removal

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E-2: Other Orchard Removal

Average Farm Size By Farm Size Category												
Other Fruits - Orchards												
	Apricot	Avocado	Cherries	Nectarine	Olive	Peach	Persimmon	Plum	Pomegranate	Figs		
15 to 24.9 acres	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0		22.0
25 to 99.9 acres	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4		42.4
100 to 249.9 acres	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.8		165.8
250 to 499.9 acres	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0		359.0
500 to 749.9 acres	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0	716.0		716.0
750 to 999 acres	874.5	874.5	874.5	874.5	874.5	874.5	874.5	874.5	874.5	874.5		874.5
over 1,000 acres	2,469.8	2,469.8	2,469.8	2,469.8	2,469.8	2,469.8	2,469.8	2,469.8	2,469.8	2,469.8		2,469.8

Source: USDA Agricultural Census 2007

Tons of Crop Per Acre												
Other Fruits - Orchards												
	Apricot	Avocado	Cherries	Nectarine	Olive	Peach	Persimmon	Plum	Pomegranate	Figs		
Not Adjusted (tons)	7.82	2.73	2.76	8.21	2.99	13.22	6.70	6.02	4.02	1.51		Productivity Adjustment Factors
Adjusted (tons)	6.97	2.43	2.47	7.32	2.66	11.79	5.98	5.37	3.59	1.35		0.892
15 to 24.9 acres	7.26	2.53	2.57	7.62	2.77	12.28	6.22	5.59	3.73	1.40		0.929
25 to 99.9 acres	7.54	2.63	2.67	7.92	2.88	12.76	6.47	5.81	3.88	1.46		0.965
100 to 249.9 acres	7.83	2.73	2.77	8.22	2.99	13.24	6.71	6.03	4.03	1.51		1.002
250 to 499.9 acres	8.11	2.83	2.87	8.52	3.10	13.72	6.96	6.25	4.17	1.57		1.038
500 to 749.9 acres	8.40	2.93	2.97	8.82	3.21	14.20	7.20	6.47	4.32	1.62		1.075
750 to 999 acres	8.68	3.03	3.07	9.12	3.32	14.69	7.45	6.69	4.47	1.68		1.111

3	Tons of Crop Per Average Farm By Size Category										
	Other Fruits - Orchards										
	Apricot	Avocado	Cherries	Nectarine	Olive	Peach	Persimmon	Plum	Pomegranate	Figs	
15 to 24.9 acres	153.4	53.5	54.2	161.1	58.6	259.5	131.5	118.1	78.9	29.6	
25 to 99.9 acres	307.5	107.3	108.7	322.9	117.5	520.0	263.6	236.7	158.1	59.3	
100 to 249.9 acres	1,250.9	436.6	442.2	1,313.4	477.9	2,115.3	1,072.4	963.0	643.1	241.3	
250 to 499.9 acres	2,810.5	980.9	993.6	2,951.0	1,073.8	4,752.6	2,409.5	2,163.7	1,445.0	542.1	
500 to 749.9 acres	5,810.0	2,027.7	2,054.1	6,100.6	2,219.9	9,824.9	4,981.1	4,473.0	2,987.2	1,120.7	
750 to 999 acres	7,345.4	0.0	2,597.0	7,712.8	2,806.5	12,421.4	0.0	5,655.1	0.0	1,416.9	
over 1,000 acres	21,449.7	0.0	7,583.5	22,522.6	8,195.5	36,272.4	0.0	16,513.7	0.0	4,137.5	

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

4	Price Per Ton of Crop (2003-2008 avg)										
	Other Fruits - Orchards										
	Apricot	Avocado	Cherries	Nectarine	Olive	Peach	Persimmon	Plum	Pomegranate	Figs	
Not Adjusted	609	1,612	4,208	906	784	572	1,602	1,048	1,368	1,327	

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report and US BLS

5	Actual Crop Acreage										
	Other Fruits - Orchards										
	Apricot	Avocado	Cherries	Nectarine	Olive	Peach	Persimmon	Plum	Pomegranate	Figs	
Not Adjusted	9,508.4	520.6	25,877.8	38,823.0	16,661.2	57,514.2	1,243.2	46,255.2	4,238.6	8,914.4	

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

6		Annual Revenue Per Average Farm	
		Other Fruits - Orchards	
		Weighted Average	
15 to 24.9 acres		\$136,478	
25 to 99.9 acres		\$273,508	
100 to 249.9 acres		\$1,112,665	
250 to 499.9 acres		\$2,499,971	
500 to 749.9 acres		\$5,168,084	
750 to 999 acres		\$6,546,841	
over 1,000 acres		\$19,117,835	
		Revenue Per Average Farm (< 100 and ≥ 100 acres)	
	<100 acres	\$204,993	
	≥ 100 acres	\$6,889,079	

Source: ADE, Inc.

7		Ten-Year Revenue Per Average Farm	
		Other Fruits - Orchards	
		Weighted Average	
15 to 24.9 acres		\$1,364,779	
25 to 99.9 acres		\$2,735,076	
100 to 249.9 acres		\$11,126,652	
250 to 499.9 acres		\$24,999,714	
500 to 749.9 acres		\$51,680,841	
750 to 999 acres		\$65,468,409	
over 1,000 acres		\$191,178,353	
		Ten-Year Revenue Per Average Farm (< 100 and ≥ 100 acres)	
	<100 acres	\$2,049,927	
	≥ 100 acres	\$68,890,794	

Source: ADE, Inc.

8	Ten-Year Net Profit Per Average Farm @ 3.6% (Fruit/Tree Nut Avg)
	Other Fruits - Orchards
	Weighted Average
	\$49,132
	\$98,463
	\$400,559
	\$899,990
	\$1,860,510
	\$2,356,863
	\$6,882,421
	Ten-Year Profit Per Average Farm (< 100 and ≥ 100 acres)
	<100 acres \$73,797
	≥ 100 acres \$2,480,069

Source: ADE, Inc.

9	Cost Per Acre for Burning Alternative
	Other Fruits - Orchards
	Apricot \$161
	Avocado \$161
	Cherries \$161
	Nectarine \$161
	Olive \$161
	Peach \$161
	Persimmon \$161
	Plum \$161
	Pomegranate \$161
	Figs \$161
	District/industry \$161

Source: SJVUAPCD staff and stakeholders

10		Cost for Burn Alternative Per Average Farm	Other Fruits - Orchards
			Weighted Average
15 to 24.9 acres			\$3,542
25 to 99.9 acres			\$6,820
100 to 249.9 acres			\$26,694
250 to 499.9 acres			\$57,794
500 to 749.9 acres			\$115,276
750 to 999 acres			\$140,795
over 1,000 acres			\$397,645
		Cost Per Average Farm (< 100 and ≥ 100 acres)	
	<100 acres		\$5,181
	≥ 100 acres		\$147,641

Source: ADE, Inc.

11		Cost Per Ten-Year Net Profit Per Average Farm	Other Fruits - Orchards
			Weighted Average
15 to 24.9 acres			7.2%
25 to 99.9 acres			6.9%
100 to 249.9 acres			6.7%
250 to 499.9 acres			6.4%
500 to 749.9 acres			6.2%
750 to 999 acres			6.0%
over 1,000 acres			5.8%
		Cost Per Ten-Year Profit Per Average Farm (< 100 and ≥ 100 acres)	
	<100 acres		7.0%
	≥ 100 acres		5.95%

Source: ADE, Inc.

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E-3
Citrus Orchard Removal

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E-3: Citrus Orchard Removal

1	Average Farm Size By Farm Size Category				
	Citrus Fruits - Orchards				
	Grapefruit	Lemons	Oranges (all)	Tangerines	
15 to 24.9 acres	22.0	22.0	22.0	22.0	
25 to 99.9 acres	42.4	42.4	42.4	42.4	
100 to 249.9 acres	165.8	165.8	165.8	165.8	
250 to 499.9 acres	359.0	359.0	359.0	359.0	
500 to 749.9 acres	716.0	716.0	716.0	716.0	
750 to 999 acres			874.5		
over 1,000 acres			2,469.8		

Source: USDA Agricultural Census 2007

2	Tons of Crop Per Acre					Productivity Adjustment Factors ⁽¹⁾
	Citrus Fruits - Orchards					
	Grapefruit	Lemons	Oranges (all)	Tangerines		
Not Adjusted (tons)	12.36	13.12	12.99	9.22		
Adjusted (tons)						
15 to 24.9 acres	11.03	11.71	11.59	8.23	0.892	
25 to 99.9 acres	11.48	12.19	12.06	8.57	0.929	
100 to 249.9 acres	11.93	12.66	12.54	8.90	0.965	
250 to 499.9 acres	12.38	13.14	13.01	9.24	1.002	
500 to 749.9 acres	12.83	13.62	13.48	9.58	1.038	
750 to 999 acres	13.28	14.10	13.96	9.91	1.075	
over 1,000 acres	13.73	14.58	14.43	10.25	1.111	

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

3	Tons of Crop Per Average Farm By Size Category				
	Citrus Fruits - Orchards				
	Grapefruit	Lemons	Oranges (all)	Tangerines	
15 to 24.9 acres	242.6	257.6	255.0	181.1	
25 to 99.9 acres	486.1	516.1	511.0	362.9	
100 to 249.9 acres	1,977.5	2,099.7	2,078.7	1,476.4	
250 to 499.9 acres	4,443.1	4,717.8	4,670.5	3,317.3	
500 to 749.9 acres	9,185.1	9,752.9	9,655.2	6,857.6	
750 to 999 acres	0.0	0.0	12,206.8	0.0	
over 1,000 acres	0.0	0.0	35,645.9	0.0	

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

4	Price Per Ton of Crop (2003-2008 avg)			
	Citrus Fruits - Orchards			
	Grapefruit	Lemons	Oranges (all)	Tangerines
Not Adjusted	\$675.4	\$860.9	\$483.4	\$1,192.8

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report and US BLS

5	Actual Crop Acreage			
	Citrus Fruits - Orchards			
	Grapefruit	Lemons	Oranges (all)	Tangerines
Acreage	1,997.8	7,959.4	171,367.4	10,326.6

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

6	Annual Revenue Per Average Farm	
		Citrus Fruits - Orchards Combined Citrus - Weighted Average
15 to 24.9 acres		\$132,768
25 to 99.9 acres		\$266,073
100 to 249.9 acres		\$1,082,421
250 to 499.9 acres		\$2,432,018
500 to 749.9 acres		\$5,027,607
750 to 999 acres		\$5,900,991
over 1,000 acres		\$17,231,848

Source: ADE, Inc.

7	Ten-Year Revenue Per Average Farm	
		Citrus Fruits - Orchards Combined Citrus - Weighted Average
15 to 24.9 acres		\$1,327,682
25 to 99.9 acres		\$2,660,732
100 to 249.9 acres		\$10,824,211
250 to 499.9 acres		\$24,320,180
500 to 749.9 acres		\$50,276,069
750 to 999 acres		\$59,009,908
over 1,000 acres		\$172,318,484
Ten-Year Revenue Per Average Farm (< 100 and ≥ 100 acres)		
		Citrus Fruits - Orchards Combined Citrus - Weighted Average
< 100 acres		\$1,994,207
≥ 100 acres		\$63,349,771

Source: ADE, Inc.

8 Ten-Year Net Profit Per Average Farm @ 5% Average	
	Citrus Fruits - Orchards
	Combined Citrus - Weighted Average
15 to 24.9 acres	\$66,384
25 to 99.9 acres	\$133,037
100 to 249.9 acres	\$541,211
250 to 499.9 acres	\$1,216,009
500 to 749.9 acres	\$2,513,803
750 to 999 acres	\$2,950,495
over 1,000 acres	\$8,615,924
Ten-Year Net Profit Per Average Farm (< 100 and ≥ 100 acres)	
	Citrus Fruits - Orchards
	Combined Citrus - Weighted Average
< 100 acres	\$99,710
≥ 100 acres	\$3,167,489

Source: ADE, Inc.

9 Cost Per Acre for Burning Alternative	
	Citrus Fruits - Orchards
District Estimate	\$369
Stakeholder Estimate	\$338

Source: SJVUAPCD staff and stakeholders

10a Cost for Burn Alternative Per Average Farm Using District Cost Estimate				
	Citrus Fruits - Orchards			
	Grapefruit	Lemons	Oranges (all)	Tangerines
15 to 24.9 acres	\$8,118	\$8,118	\$8,118	\$8,118
25 to 99.9 acres	\$15,630	\$15,630	\$15,630	\$15,630
100 to 249.9 acres	\$61,181	\$61,181	\$61,181	\$61,181
250 to 499.9 acres	\$132,459	\$132,459	\$132,459	\$132,459
500 to 749.9 acres	\$264,205	\$264,205	\$264,205	\$264,205
750 to 999 acres	\$0	\$0	\$322,691	\$0
over 1,000 acres	\$0	\$0	\$911,374	\$0
	Combined Citrus - Weighted Average			
15 to 24.9 acres	\$8,118			
25 to 99.9 acres	\$15,630			
100 to 249.9 acres	\$61,181			
250 to 499.9 acres	\$132,459			
500 to 749.9 acres	\$264,205			
750 to 999 acres	\$322,691			
over 1,000 acres	\$911,374			
Cost for Burn Alternative Per Average Farm (< 100 and ≥ 100 acres)				
	Citrus Fruits - Orchards			
	Combined Citrus - Weighted Average			
< 100 acres	\$11,874			
≥ 100 acres	\$326,064			

Source: ADE, Inc.

10b	Cost for Burn Alternative Per Average Farm Using Stakeholder Cost Estimate			
	Citrus Fruits - Orchards			
	Grapefruit	Lemons	Oranges (all)	Tangerines
15 to 24.9 acres	\$7,436.0	\$7,436.0	\$7,436.0	\$7,436.0
25 to 99.9 acres	\$14,316.8	\$14,316.8	\$14,316.8	\$14,316.8
100 to 249.9 acres	\$56,041.5	\$56,041.5	\$56,041.5	\$56,041.5
250 to 499.9 acres	\$121,330.7	\$121,330.7	\$121,330.7	\$121,330.7
500 to 749.9 acres	\$242,008.9	\$242,008.9	\$242,008.9	\$242,008.9
750 to 999 acres	\$0.0	\$0.0	\$295,581.0	\$0.0
over 1,000 acres	\$0.0	\$0.0	\$834,808.5	\$0.0
	Combined Citrus - Weighted Average			
15 to 24.9 acres	\$7,436			
25 to 99.9 acres	\$14,317			
100 to 249.9 acres	\$56,042			
250 to 499.9 acres	\$121,331			
500 to 749.9 acres	\$242,009			
750 to 999 acres	\$295,581			
over 1,000 acres	\$834,809			
	Cost for Burn Alternative Per Average Farm (< 100 and ≥ 100 acres)			
	Citrus Fruits - Orchards			
	Combined Citrus - Weighted Average			
< 100 acres	\$10,876			
≥ 100 acres	\$298,671			

Source: ADE, Inc.

11a	Cost Per Ten-Year Net Profit Per Average Farm Using District Cost Estimate	
	Citrus Fruits - Orchards	Combined Citrus - Weighted Average
15 to 24.9 acres		12.2%
25 to 99.9 acres		11.7%
100 to 249.9 acres		11.3%
250 to 499.9 acres		10.9%
500 to 749.9 acres		10.5%
750 to 999 acres		10.9%
over 1,000 acres		10.6%
	Cost per Ten-Year Net Profit per Average Farm (< 100 and ≥ 100 acres)	
	Citrus Fruits - Orchards	Combined Citrus - Weighted Average
< 100 acres		11.9%
≥ 100 acres		10.3%

Source: ADE, Inc.

11b		Cost Per Ten-Year Net Profit Per Average Farm Using Stakeholder Cost Estimate	
			Citrus Fruits - Orchards
			Combined Citrus - Weighted
			Average
	15 to 24.9 acres		11.2%
	25 to 99.9 acres		10.8%
	100 to 249.9 acres		10.4%
	250 to 499.9 acres		10.0%
	500 to 749.9 acres		9.6%
	750 to 999 acres		10.0%
	over 1,000 acres		9.7%
Cost per Ten-Year Net Profit per Average Farm (< 100 and ≥ 100 acres)			
			Citrus Fruits - Orchards
			Combined Citrus - Weighted
			Average
	< 100 acres		10.9%
	≥ 100 acres		9.4%

Source: ADE, Inc.

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E-4
Nut Prunings

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E-4: Nut Prunings

1	Average Farm Size By Farm Size Category			
		Nuts		
		Almonds	Walnut	Pecans
	15 to 24.9 acres	22.0	22.0	22.0
	25 to 99.9 acres	42.4	42.4	42.4
	100 to 249.9 acres	165.8	165.8	165.8
	250 to 499.9 acres	359.0	359.0	359.0
	500 to 749.9 acres	716.0	716.0	716.0
	750 to 999 acres	874.5	874.5	874.5
	over 1,000 acres	2,469.8	2,469.8	2,469.8

Source: USDA Agricultural Census 2007

2	Tons of Crop Per Acre				Productivity Adjustment Factors ⁽¹⁾
		Nuts			
		Almonds	Walnut	Pecans	
	<i>Not Adjusted</i>	1.004	1.843	1.122	
	<i>Adjusted (tons of crop)</i>				
	15 to 24.9 acres	0.895	1.645	1.001	0.892
	25 to 99.9 acres	0.932	1.712	1.042	0.929
	100 to 249.9 acres	0.969	1.779	1.083	0.965
	250 to 499.9 acres	1.005	1.847	1.124	1.002
	500 to 749.9 acres	1.042	1.914	1.165	1.038
	750 to 999 acres	1.079	1.981	1.206	1.075
	over 1,000 acres	1.115	2.048	1.247	1.111

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

3	Tons of Crop Per Average Farm by Size Category			
		Nuts		
		Almonds	Walnut	Pecans
	15 to 24.9 acres	19.7	36.2	22.0
	25 to 99.9 acres	39.5	72.5	44.1
	100 to 249.9 acres	160.6	295.0	179.6
	250 to 499.9 acres	360.9	662.8	403.5
	500 to 749.9 acres	746.0	1,370.3	834.1
	750 to 999 acres	943.2	1,732.4	1,054.5
	over 1,000 acres	2,754.2	5,058.9	3,079.3

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

4	Price Per Ton of Crop (2003-2008 avg)			
		Nuts		
		Almonds	Walnut	Pecans
	<i>Not Adjusted</i>	\$4,240.8	\$1,747.8	\$3,429.2

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report and US BLS

5 Actual Crop Acreage			
	Nuts		
	Almonds	Walnut	Pecans
<i>Average</i>	541,729.4	123,465.6	724.8

Source: ADE, Inc., based on Calif Ag Commissioners Annual Report

6 Annual Revenue Per Average Farm	
	Nuts Combined Nut Crops (Weighted Average)
15 to 24.9 acres	\$79,773
25 to 99.9 acres	\$159,869
100 to 249.9 acres	\$650,368
250 to 499.9 acres	\$1,461,267
500 to 749.9 acres	\$3,020,814
750 to 999 acres	\$3,819,147
over 1,000 acres	\$11,152,526
Annual Revenue Per Average Farm (< 100 and ≥ 100 acres)	
	Nuts Combined Nut Crops (Weighted Average)
< 100 acres	\$119,821
≥ 100 acres	\$4,020,824

Source: ADE, Inc.

7 Two-Year Revenue Per Average Farm	
	Nuts Combined Nut Crops (Weighted Average)
15 to 24.9 acres	\$159,546
25 to 99.9 acres	\$319,738
100 to 249.9 acres	\$1,300,735
250 to 499.9 acres	\$2,922,533
500 to 749.9 acres	\$6,041,628
750 to 999 acres	\$7,638,293
over 1,000 acres	\$22,305,052
Two-Year Revenue Per Average Farm (< 100 and ≥ 100 acres)	
	Nuts Combined Nut Crops (Weighted Average)
< 100 acres	\$239,642
≥ 100 acres	\$8,041,648

Source: ADE, Inc.

8 Two-Year Net Profit Per Average Farm @5.1% Avg	
	Nuts
	Combined Nut Crops (Weighted Average)
15 to 24.9 acres	\$8,137
25 to 99.9 acres	\$16,307
100 to 249.9 acres	\$66,337
250 to 499.9 acres	\$149,049
500 to 749.9 acres	\$308,123
750 to 999 acres	\$389,553
over 1,000 acres	\$1,137,558
Two-Year Net Profit Per Average Farm (< 100 and ≥ 100 acres)	
	Nuts
	Combined Nut Crops (Weighted Average)
< 100 acres	\$12,222
≥ 100 acres	\$410,124

Source: ADE, Inc.

9 Cost Per Acre for Burning Alternative	
	Nuts
	Combined Nut Crops (Weighted Average)
<i>District Estimate</i>	\$38

Source: SJVUAPCD staff and stakeholders

10 Cost for Burn Alternative Per Average Farm Using District Cost Estimate	
	Nuts
	Combined Nut Crops (Weighted Average)
15 to 24.9 acres	\$836
25 to 99.9 acres	\$1,610
100 to 249.9 acres	\$6,301
250 to 499.9 acres	\$13,641
500 to 749.9 acres	\$27,208
750 to 999 acres	\$33,231
over 1,000 acres	\$93,854
Cost for Burn Alternative Per Average Farm (< 100 and ≥ 100 acres) Using District Cost Estimate	
	Nuts
	Combined Nut Crops (Weighted Average)
< 100 acres	\$1,223
≥ 100 acres	\$34,847

Source: ADE, Inc.

11	Cost Per Two-Year Net Profit Per Average Farm Using District Cost Estimate	
		Nuts
		Combined Nut Crops (Weighted Average)
	15 to 24.9 acres	10.3%
	25 to 99.9 acres	9.9%
	100 to 249.9 acres	9.5%
	250 to 499.9 acres	9.2%
	500 to 749.9 acres	8.8%
	750 to 999 acres	8.5%
	over 1,000 acres	8.3%
Cost Per Two-Year Net Profit Per Average Farm (< 100 and ≥ 100 acres) Using District Cost Estimate		
	Nuts	
	Combined Nut Crops (Weighted Average)	
< 100 acres	10.0%	
≥ 100 acres	8.5%	

Source: ADE, Inc.