

## Individual Crop Effects as a Result of BDCP Water Conveyance Facility Construction

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Table 14A-1 displays estimates of the temporary (and short-term) and permanent impacts to individual types of crops as a result of construction of the water conveyance facility under each alternative. Analysis relating to the economic effects on agriculture in the Plan Area and Areas of Additional Analysis in Chapter 16, *Socioeconomics*, relies on individual crop data. Because crop selection varies on a season-to-season and year-to-year basis, these data should be considered estimates based on an individual time period.



1 **Table 14A-1. Estimated Crop Acreage Lost as a Result of Construction of Water Conveyance Facilities, by Alternative**

Category and Crop Type	Alternative														
	1A	1B	1C	2A <sup>a</sup>	2B <sup>a</sup>	2C	3	4	5	6A	6B	6C	7	8	9
<b>Permanent Surface Impact</b>	<b>5,587.6</b>	<b>19,532.0</b>	<b>13,743.1</b>	<b>5,603.0</b>	<b>19,532.0</b>	<b>13,743.1</b>	<b>5,416.0</b>	<del>5,665.847</del> <b>65.3</b>	<b>5,343.8</b>	<b>5,587.6</b>	<b>19,532.0</b>	<b>13,743.1</b>	<b>5,455.0</b>	<b>5,455.0</b>	<b>3,332.7</b>
Alfalfa and Alfalfa Mixtures	960.5	5,062.2	1,942.1	950.4	5,050.0	1,942.1	948.9	<del>910.6882.8</del>	948.9	960.5	5,062.2	1,942.1	960.5	960.5	791.2
Apples		30.8	18.9		30.8	18.9					30.8	18.9			
Asparagus	337.7	961.7		337.7	961.7		337.7	7.7	337.7	337.7	961.7		337.7	337.7	539.3
Beans (dry)			6.4			6.4						6.4			
Beans Green	1.0	1.5		1.0	1.5		1.0	<del>0.22.7</del>	1.4	1.0	1.5				
Bush Berries			0.8			0.8						0.8			
Cabbage		17.1			17.1						17.1				
Cherries	1.2	10.7		1.2	10.7		1.2	<del>0.42.0</del>	1.2	1.2	10.7		1.2	1.2	
Clover			6.4			6.4						6.4			
Corn	1,139.8	4,037.4	1,776.0	1,145.8	4,044.2	1,776.0	1,139.8	<del>2,151.8955</del> <b>.8</b>	1,139.9	1,139.8	4,037.4	1,776.0	1,139.1	1,139.1	558.5
Cucurbits		53.9	371.9	0.8	53.9	371.9		3.1			53.9	371.9			6.3
Dairies								1.4							
Eucalyptus		1.6			1.6						1.6				
Farmstead with residence	19.9	52.4	65.5	22.0	54.4	65.5	19.6	12.46	19.7	19.9	52.4	65.5	14.8	14.8	4.9
Farmstead without residence	16.6	29.8	14.2	17.2	30.4	14.2	16.0	<del>12.911.3</del>	16.0	16.6	29.8	14.2	15.4	15.4	5.6
Flowers/Nursery/Christmas		1.6			1.6						1.6				
Grain sorghum															
Grapefruit	0.4	0.4		0.4	0.4		0.4		0.4	0.4	0.4				
Idle	85.7	256.1	281.7	85.7	256.1	281.7	85.7	<del>62.277.6</del>	85.7	85.7	256.1	281.7	85.7	85.7	31.3
Kiwis															
Livestock Feed Lot		0.1	4.3		0.1	4.3					0.1	4.3			
Misc Deciduous			3.7			3.7						3.7			0.0
Misc Grain and Hay			175.4			175.4		<del>141.502.2</del>				175.4			
Misc Grasses	10.2		8.9	10.2		8.9	10.2		10.2	10.2		8.9	10.2	10.2	
Miscellaneous semi-ag	142.6	878.7	536.9	144.4	876.0	536.9	138.1	<del>144.3144.6</del>	137.8	142.6	878.7	536.9	140.6	140.6	105.3
Mixed (four or more)	6.1	6.1	1.1	6.1	6.1	1.1	6.1	<del>3.25.7</del>	0.1	6.1	6.1	1.1	6.1	6.1	
Mixed Pasture	42.4	62.5	522.6	5.9	27.8	522.6	5.9	<del>127105.0</del>	5.9	42.4	62.5	522.6	5.9	5.9	
Native Pasture	5.4	5.4	103.9	1.0		103.9	1.0	<del>117.7121.2</del>	1.0	5.4	5.4	103.9	1.0	1.0	5.7
Native Vegetation	899.2	1,291.5	1,304.0	938.2	1,331.0	1,304.0	863.6	<del>970.91.114</del> <b>.8</b>	846.6	899.2	1,291.5	1,304.0	872.2	872.2	964.0
Not Surveyed			12.5			12.5						12.5			
Olives	0.8	31.9	8.4	0.3	31.3	8.4	0.3		0.3	0.8	31.9	8.4	0.3	0.3	
Onions and Garlic		80.4	5.3		80.4	5.3					80.4	5.3			
Peaches and Nectarines		36.0			36.0			4.1			36.0				
Pears	137.7	222.7	111.3	152.5	234.2	111.3	111.9	<del>75.6109.0</del>	80.7	137.7	222.7	111.3	129.3	129.3	23.1
Peppers		157.9			157.9						157.9				
Potatoes		234.1			234.1						234.1				
Poultry Farms															
Rice		111.7			111.7						111.7				
Safflower	57.4	290.7	1,210.8	51.8	284.0	1,210.8	51.8	<del>154.7113.3</del>	51.8	57.4	290.7	1,210.8	33.8	33.8	1.2
Strawberries			3.3			3.3						3.3			

Category and Crop Type	Alternative														
	1A	1B	1C	2A <sup>a</sup>	2B <sup>a</sup>	2C	3	4	5	6A	6B	6C	7	8	9
Sudan	23.2	25.6	351.0	23.2	25.6	351.0	23.2	<del>72.880.3</del>	23.2	23.2	25.6	351.0	23.2	23.2	
Tomatoes (Processing)	89.2	1,317.1	641.3	91.5	1,319.4	641.3	89.2	<del>214.3384.2</del>	86.1	89.2	1,317.1	641.3	89.1	89.1	29.3
Turf Farms		119.6	180.4		119.6	180.4					119.6	180.4			
Unknown Deciduous Fruits and Nuts	13.9	79.5		13.0	78.9		2.6	<del>17.629.0</del>	2.6	13.9	79.5		13.8	13.8	
Unknown Field	62.1	84.8	173.9	62.1	84.8	173.9	62.1	<del>10.719.8</del>	62.1	62.1	84.8	173.9	62.1	62.1	
Unknown Grain and Hay	356.0	1,505.8	824.3	356.3	1,509.6	824.3	334.0	<del>273.4202.5</del>	325.3	356.0	1,505.8	824.3	351.4	351.4	12.3
Unknown Pasture			9.8			9.8						9.8			
Unknown Rice	0.0			0.0			0.0	<del>0.3128.6</del>	0.0	0.0			0.0	0.0	
Unknown Truck Nursery and Berry		34.7	3.5		34.7	3.5					34.7	3.5			
Unknown Vineyards	1,060.8	2,194.4	1,542.2	1,068.4	2,194.4	1,542.2	1,060.8	<del>83.337.1</del>	1,060.8	1,060.8	2,194.4	1,542.2	1,059.2	1,059.2	7.3
Urban	105.9	200.0	333.4	104.0	196.3	333.4	93.1	<del>85.3104.9</del>	86.6	105.9	200.0	333.4	90.5	90.5	58.2
Walnuts		0.1			0.1			<del>2.8</del>			0.1				
Water	11.8	43.5	14.5	11.8	43.5	14.5	11.8	<del>7.07.6</del>	11.8	11.8	43.5	14.5	11.8	11.8	4.0
Wheat	0.1		596.4	0.1		596.4	0.1		0.1	0.1		596.4	0.1	0.1	185.1
Wine Grapes			576.1			576.1						576.1			
<b>Temporary Surface Impact</b>	<b>1,583.9</b>	<b>2,457.2</b>	<b>3,716.6</b>	<b>2,091.6</b>	<b>3,022.6</b>	<b>3,716.6</b>	<b>1,142.2</b>	<del><b>3,577.437.29.7</b></del>	<b>1,007.7</b>	<b>1,583.9</b>	<b>2,457.2</b>	<b>3,716.6</b>	<b>1,314.7</b>	<b>1,314.7</b>	<b>1,540.7</b>
Alfalfa and Alfalfa Mixtures	84.4	400.6	423.4	86.1	416.3	423.4	37.2	<del>121.8178.1</del>	37.2	84.4	400.6	423.4	83.2	83.2	50.1
Apples		0.0	46.2		0.0	46.2					0.0	46.2			
Apricots								0.0							
Asparagus	36.6	69.8		36.6	69.8		36.6	<del>81.355.7</del>	36.6	36.6	69.8		36.6	36.6	8.8
Beans (dry)			3.2			3.2						3.2			
Beans Green	7.9	7.4		7.9	7.4		7.9	<del>8.86.2</del>	0.6	7.9	7.4		8.8	8.8	
Bush Berries															
Cabbage		4.5			4.5						4.5				
Cherries	1.1	1.4		1.1	1.4		1.1	<del>2.00.4</del>	1.1	1.1	1.4		1.1	1.1	
Clover															
Corn	330.9	347.2	279.7	562.9	512.1	279.7	330.4	<del>272.0345.7</del>	317.8	330.9	347.2	279.7	319.5	319.5	133.1
Cucurbits		44.6	81.0	15.1	44.6	81.0		<del>3.1</del>			44.6	81.0			1.6
<u>Dairies<sup>1</sup></u>								<del>1.4</del>							
Eucalyptus															
Farmstead with residence	7.2	7.4	28.1	12.3	14.0	28.1	4.0	<del>5.24.8</del>	4.0	7.2	7.4	28.1	5.5	5.5	2.6
Farmstead without residence	2.8	4.7	1.3	4.5	4.6	1.3	1.7	<del>1.93.0</del>	1.2	2.8	4.7	1.3	2.6	2.6	2.7
Flowers/Nursery/Christmas		0.7			0.7						0.7				
Grain sorghum		25.2			25.2						25.2				
Grapefruit	1.1	1.1		1.1	1.1		1.1		1.1	1.1	1.1				
Idle	2.2	16.6	94.1	2.2	16.6	94.1	2.2	<del>19.25.8</del>	1.8	2.2	16.6	94.1	2.2	2.2	0.1
Kiwis			7.5			7.5						7.5			
Livestock Feed Lot			0.1			0.1						0.1			
Misc Deciduous															
Misc Grain and Hay			9.2			9.2		2.0				9.2			
Misc Grasses	0.6		0.2	2.4	19.7	0.2	0.6		0.6	0.6		0.2	0.6	0.6	

<sup>1</sup> Modeled effects at this location are associated with a proposed power line alignment running along Lambert Road, to the east of the MPTO tunnel alignment. However, for the purposes of analysis, it is assumed that direct effects on structures associated with power lines would be avoided through design of individual towers and poles. Therefore, it is assumed that direct effects on dairy operations would be avoided.

Category and Crop Type	Alternative														
	1A	1B	1C	2A <sup>a</sup>	2B <sup>a</sup>	2C	3	4	5	6A	6B	6C	7	8	9
Miscellaneous semi-ag	42.7	88.3	101.1	57.5	95.1	101.1	37.3	<del>29,036.4</del>	36.8	42.7	88.3	101.1	37.9	37.9	17.5
Mixed (four or more)	0.1	0.1		0.1	0.1		0.1	<del>2,80.3</del>	0.3	0.1	0.1		0.1	0.1	
Mixed Deciduous															0.0
Mixed Pasture	67.2	43.3	347.8	27.9		347.8	2.6	<del>100,78.1</del>	2.6	67.2	43.3	347.8	29.3	29.3	
Native Pasture	0.3	0.5	69.8	0.2	0.2	69.8	0.2	<del>8.8</del>	0.2	0.3	0.5	69.8	0.4	0.4	2.8
Native Vegetation	380.3	444.3	857.3	458.3	582.3	857.3	282.7	<del>2,453,02.4</del>	265.0	380.3	444.3	857.3	311.4	311.4	1,116.1
								<del>11.4</del>							
Not Surveyed			8.6			8.6						8.6			
Olives	0.5	8.8		0.1	8.0		0.1		0.1	0.5	8.8		0.1	0.1	
Onions and Garlic		28.0			28.0						28.0				
Peaches and Nectarines	31.1	4.6		31.1	4.6		2.4	2.2	2.4	31.1	4.6		31.1	31.1	
Pears	96.0	66.2	143.5	173.2	140.7	143.5	72.4	<del>68,522.3</del>	32.0	96.0	66.2	143.5	85.1	85.1	24.2
Peppers		2.7			2.7						2.7				
Potatoes		1.7			1.7						1.7				
Poultry Farms		0.1			0.1						0.1				
Rice		1.0			1.0						1.0				
Safflower	72.1	101.0	82.7	37.3	65.5	82.7	37.3	<del>39,177.9</del>	37.3	72.1	101.0	82.7	35.5	35.5	
Strawberries															
Sudan	0.4	13.7	3.1	0.4	13.7	3.1	0.4	<del>7,22.2</del>	0.4	0.4	13.7	3.1	0.4	0.4	
Tomatoes (Processing)	61.6	177.3	164.8	88.3	244.7	164.8	61.6	<del>54,8133.0</del>	47.1	61.6	177.3	164.8	55.1	55.1	9.3
Turf Farms		39.8	50.0		39.8	50.0					39.8	50.0			
Unknown Deciduous Fruits and Nuts	27.2	18.0	2.0	24.6	14.5	2.0	11.6	<del>22,17.2</del>	11.6	27.2	18.0	2.0	23.3	23.3	
Unknown Field	0.2	6.4	91.1	0.2	6.4	91.1	0.2	<del>16,32.2</del>	0.2	0.2	6.4	91.1	0.2	0.2	
Unknown Grain and Hay	211.6	208.9	201.9	222.7	303.2	201.9	114.4	<del>166,5195.3</del>	78.1	211.6	208.9	201.9	158.4	158.4	18.2
Unknown Pasture			21.2			21.2		0.0				21.2			
Unknown Rice	1.0			1.0			1.0	<del>40.2</del>	1.0	1.0			1.0	1.0	
Unknown Truck Nursery and Berry		0.0			0.0						0.0				
Unknown Vineyards	34.8	180.6	270.7	159.0	246.3	270.7	34.8	<del>38,9146.4</del>	34.8	34.8	180.6	270.7	18.4	18.4	11.7
Urban	68.9	86.8	152.9	64.0	82.0	152.9	46.7	<del>48,641.0</del>	42.2	68.9	86.8	152.9	55.0	55.0	63.9
Walnuts		2.3			2.3			2.8			2.3				
Water	4.5	1.8	9.0	4.5	1.8	9.0	4.5	1.6	4.5	4.5	1.8	9.0	2.8	2.8	0.5
Wheat	9.0		61.2	9.0		61.2	9.0		9.0	9.0		61.2	9.0	9.0	77.5
Wine Grapes			104.2			104.2						104.2			
<b>Grand Total</b>	<b>7,171.5</b>	<b>21,989.2</b>	<b>17,459.7</b>	<b>7,694.6</b>	<b>22,554.7</b>	<b>17,459.7</b>	<b>6,558.2</b>	<b><del>9,242,98.4</del></b>	<b>6,351.5</b>	<b>7,171.5</b>	<b>21,989.2</b>	<b>17,459.7</b>	<b>6,769.7</b>	<b>6,769.7</b>	<b>4,873.4</b>
								<b>95.0</b>							

<sup>a</sup> Assumes Intakes 1-3, 6, and 7; otherwise, effects would be the same as Alternative 1A and 1B, respectively.

<sup>b</sup> Based on construction of north-south transmission line; otherwise, fewer total acres would be affected.

Note: Table based on DWR Engineering Geodatabases Rev10, Rev3b, [MPTO-CCO Rev2b Rev4b](#), and the EIR\_EIS\_Class1 field in the BDCP\_Landuse\_Crop database. This database contains crop information from DWR land use surveys covering counties in the study area.