

**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.

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 ^a	2B ^a	2C	3	4 and 4A	5	6A	6B	6C	7	8	9	2D	5A
Permanent Surface Impact	5,587.6	19,532.0	13,743.1	5,603.0	19,532.0	13,743.1	5,416.0	4,765.3	5,343.8	5,587.6	19,532.0	13,743.1	5,455.0	5,455.0	3,332.7	4,938.4	4,306.3
Alfalfa and Alfalfa Mixtures	960.5	5,062.2	1,942.1	950.4	5,050.0	1,942.1	948.9	882.8	948.9	960.5	5,062.2	1,942.1	960.5	960.5	791.2	849	817.7
Apples	0.0	30.8	18.9	0.0	30.8	18.9	0.0	0.0	0.0	0.0	30.8	18.9	0.0	0.0	0.0	0.0	0.0
Asparagus	337.7	961.7	0.0	337.7	961.7	0.0	337.7	7.7	337.7	337.7	961.7	0.0	337.7	337.7	539.3	0.0	0.0
Beans (dry)	0.0	0.0	6.4	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0
Beans Green	1.0	1.5	0.0	1.0	1.5	0.0	1.0	2.7	1.4	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Bush Berries	0.0	0.0	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Cabbage	0.0	17.1	0.0	0.0	17.1	0.0	0.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0	0.0	0.0	0.0
Cherries	1.2	10.7	0.0	1.2	10.7	0.0	1.2	2.0	1.2	1.2	10.7	0.0	1.2	1.2	0.0	0.8	0.8
Clover	0.0	0.0	6.4	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0
Corn	1,139.8	4,037.4	1,776.0	1,145.8	4,044.2	1,776.0	1,139.8	955.8	1,139.9	1,139.8	4,037.4	1,776.0	1,139.1	1,139.1	558.5	954.2	943.0
Cucurbits	0.0	53.9	371.9	0.8	53.9	371.9	0.0	3.1	0.0	0.0	53.9	371.9	0.0	0.0	6.3	0.0	0.0
Dairies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eucalyptus	0.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
Farmstead with residence	19.9	52.4	65.5	22.0	54.4	65.5	19.6	12.6	19.7	19.9	52.4	65.5	14.8	14.8	4.9	15.7	9.9
Farmstead without residence	16.6	29.8	14.2	17.2	30.4	14.2	16.0	11.3	16.0	16.6	29.8	14.2	15.4	15.4	5.6	12.2	9.9
Flowers/Nursery/Christmas	0.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
Grain sorghum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grapefruit	0.4	0.4	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.3	0.0
Idle	85.7	256.1	281.7	85.7	256.1	281.7	85.7	77.6	85.7	85.7	256.1	281.7	85.7	85.7	31.3	62.3	62.3
Kiwis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Livestock Feed Lot	0.0	0.1	4.3	0.0	0.1	4.3	0.0	0.0	0.0	0.0	0.1	4.3	0.0	0.0	0.0	0.0	0.0
Misc Deciduous	0.0	0.0	3.7	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0
Misc Grain and Hay	0.0	0.0	175.4	0.0	0.0	175.4	0.0	102.2	0.0	0.0	0.0	175.4	0.0	0.0	0.0	101.1	101.1
Misc Grasses	10.2	0.0	8.9	10.2	0.0	8.9	10.2	0.0	10.2	10.2	0.0	8.9	10.2	10.2	0.0	0.0	0.0
Misc semi-ag	142.6	878.7	536.9	144.4	876.0	536.9	138.1	144.6	137.8	142.6	878.7	536.9	140.6	140.6	105.3	143.0	126.2
Mixed (four or more)	6.1	6.1	1.1	6.1	6.1	1.1	6.1	5.7	0.1	6.1	6.1	1.1	6.1	6.1	0.0	6.0	6.0
Mixed Pasture	42.4	62.5	522.6	5.9	27.8	522.6	5.9	105.0	5.9	42.4	62.5	522.6	5.9	5.9	0.0	167.5	110.9
Native Pasture	5.4	5.4	103.9	1.0	0.0	103.9	1.0	121.2	1.0	5.4	5.4	103.9	1.0	1.0	5.7	124.7	119.1
Native Vegetation	899.2	1,291.5	1,304.0	938.2	1,331.0	1,304.0	863.6	1,114.8	846.6	899.2	1,291.5	1,304.0	872.2	872.2	964.0	1,224.4	1,043.1
Not Surveyed	0.0	0.0	12.5	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0
Olives	0.8	31.9	8.4	0.3	31.3	8.4	0.3	0.0	0.3	0.8	31.9	8.4	0.3	0.3	0.0	0.7	0.0
Onions and Garlic	0.0	80.4	5.3	0.0	80.4	5.3	0.0	0.0	0.0	0.0	80.4	5.3	0.0	0.0	0.0	0.0	0.0
Peaches and Nectarines	0.0	36.0	0.0	0.0	36.0	0.0	0.0	4.1	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0
Pears	137.7	222.7	111.3	152.5	234.2	111.3	111.9	109.0	80.7	137.7	222.7	111.3	129.3	129.3	23.1	87.6	50.0
Peppers	0.0	157.9	0.0	0.0	157.9	0.0	0.0	0.0	0.0	0.0	157.9	0.0	0.0	0.0	0.0	0.0	0.0
Potatoes	0.0	234.1	0.0	0.0	234.1	0.0	0.0	0.0	0.0	0.0	234.1	0.0	0.0	0.0	0.0	0.0	0.0
Poultry Farms	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rice	0.0	111.7	0.0	0.0	111.7	0.0	0.0	0.0	0.0	0.0	111.7	0.0	0.0	0.0	0.0	0.0	0.0
Safflower	57.4	290.7	1,210.8	51.8	284.0	1,210.8	51.8	113.3	51.8	57.4	290.7	1,210.8	33.8	33.8	1.2	148.3	83.6
Strawberries	0.0	0.0	3.3	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0

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 ^a	2B ^a	2C	3	4 and 4A	5	6A	6B	6C	7	8	9	2D	5A
Sudan	23.2	25.6	351.0	23.2	25.6	351.0	23.2	80.3	23.2	23.2	25.6	351.0	23.2	23.2	0.0	73.8	73.8
Tomatoes (Processing)	89.2	1,317.1	641.3	91.5	1,319.4	641.3	89.2	384.2	86.1	89.2	1,317.1	641.3	89.1	89.1	29.3	425.4	371.4
Turf Farms	0.0	119.6	180.4	0.0	119.6	180.4	0.0	0.0	0.0	0.0	119.6	180.4	0.0	0.0	0.0	0.0	0.0
Unknown Deciduous Fruits and Nuts	13.9	79.5	0.0	13.0	78.9	0.0	2.6	29.0	2.6	13.9	79.5	0.0	13.8	13.8	0.0	13.8	0.0
Unknown Field	62.1	84.8	173.9	62.1	84.8	173.9	62.1	19.8	62.1	62.1	84.8	173.9	62.1	62.1	0.0	14.3	14.3
Unknown Grain and Hay	356.0	1,505.8	824.3	356.3	1,509.6	824.3	334.0	202.5	325.3	356.0	1,505.8	824.3	351.4	351.4	12.3	230.3	137.7
Unknown Pasture	0.0	0.0	9.8	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0
Unknown Rice	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.6	128.6
Unknown Truck Nursery and Berry	0.0	34.7	3.5	0.0	34.7	3.5	0.0	0.0	0.0	0.0	34.7	3.5	0.0	0.0	0.0	0.0	0.0
Unknown Vineyards	1,060.8	2,194.4	1,542.2	1,068.4	2,194.4	1,542.2	1,060.8	37.1	1,060.8	1,060.8	2,194.4	1,542.2	1,059.2	1,059.2	7.3	60.7	29.4
Urban	105.9	200.0	333.4	104.0	196.3	333.4	93.1	104.9	86.6	105.9	200.0	333.4	90.5	90.5	58.2	85.7	59.0
Walnuts	0.0	0.1	0.0	0.0	0.1	0.0	0.0	2.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.2	1.2
Water	11.8	43.5	14.5	11.8	43.5	14.5	11.8	7.6	11.8	11.8	43.5	14.5	11.8	11.8	4.0	7.0	7.0
Wheat	0.1	0.0	596.4	0.1	0.0	596.4	0.1	0.0	0.1	0.1	0.0	596.4	0.1	0.1	185.1	0.0	0.0
Wine Grapes	0.0	0.0	576.1	0.0	0.0	576.1	0.0	0.0	0.0	0.0	0.0	576.1	0.0	0.0	0.0	0.0	0.0
Temporary Surface Impact	1,583.9	2,457.2	3,716.6	2,091.6	3,022.6	3,716.6	1,142.2	3,729.7	1,007.7	1,583.9	2,457.2	3,716.6	1,314.7	1,314.7	1,540.7	3,123.0	2,996.8
Alfalfa and Alfalfa Mixtures	84.4	400.6	423.4	86.1	416.3	423.4	37.2	178.1	37.2	84.4	400.6	423.4	83.2	83.2	50.1	106.0	89.4
Apples	0.0	0	46.2	0.0	0.0	46.2	0.0	0.0	0.0	0.0	0	46.2	0.0	0.0	0.0	0.0	0.0
Apricots	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Asparagus	36.6	69.8	0.0	36.6	69.8	0.0	36.6	55.7	36.6	36.6	69.8	0	36.6	36.6	8.8	17.1	17.1
Beans (dry)	0.0	0.0	3.2	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	3.2	0	0	0	0.0	0.0
Beans Green	7.9	7.4	0.0	7.9	7.4	0	7.9	6.2	0.6	7.9	7.4	0	8.8	8.8	0	0.1	0.0
Bush Berries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cabbage	0.0	4.5	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
Cherries	1.1	1.4	0.0	1.1	1.4	0.0	1.1	0.4	1.1	1.1	1.4	0.0	1.1	1.1	0.0	0.0	0.0
Clover	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Corn	330.9	347.2	279.7	562.9	512.1	279.7	330.4	345.7	317.8	330.9	347.2	279.7	319.5	319.5	133.1	142.9	139.1
Cucurbits	0.0	44.6	81.0	15.1	44.6	81.0	0.0	3.1	0.0	0.0	44.6	81.0	0.0	0.0	1.6	1.1	1.1
Dairies ¹	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
Eucalyptus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Farmstead with residence	7.2	7.4	28.1	12.3	14.0	28.1	4.0	4.8	4.0	7.2	7.4	28.1	5.5	5.5	2.6	4.3	1.3
Farmstead without residence	2.8	4.7	1.3	4.5	4.6	1.3	1.7	3.0	1.2	2.8	4.7	1.3	2.6	2.6	2.7	2.2	2.0
Flowers/Nursery/Christmas	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Grain sorghum	0.0	25.2	0.0	0.0	25.2	0.0	0.0	0.0	0.0	0.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0
Grapefruit	1.1	1.1	0.0	1.1	1.1	0.0	1.1	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.5	0.0
Idle	2.2	16.6	94.1	2.2	16.6	94.1	2.2	5.8	1.8	2.2	16.6	94.1	2.2	2.2	0.1	7.5	7.5
Kiwis	0.0	0.0	7.5	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0
Livestock Feed Lot	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0

¹ 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.

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	1A	1B	1C	2A ^a	2B ^a	2C	3	4 and 4A	5	6A	6B	6C	7	8	9	2D	5A
Misc Deciduous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Misc Grain and Hay	0.0	0.0	9.2	0.0	0.0	9.2	0.0	2.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0
Misc Grasses	0.6	0.0	0.2	2.4	19.7	0.2	0.6	0.0	0.6	0.6	0.0	0.2	0.6	0.6	0.0	0.0	0.0
Misc semi-ag	42.7	88.3	101.1	57.5	95.1	101.1	37.3	36.4	36.8	42.7	88.3	101.1	37.9	37.9	17.5	28.0	26.0
Mixed (four or more)	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.3	0.3	0.1	0.1	0.0	0.1	0.1	0.0	0.2	0.2
Mixed Deciduous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mixed Pasture	67.2	43.3	347.8	27.9	0.0	347.8	2.6	8.1	2.6	67.2	43.3	347.8	29.3	29.3	0.0	40.5	96
Native Pasture	0.3	0.5	69.8	0.2	0.2	69.8	0.2		0.2	0.3	0.5	69.8	0.4	0.4	2.8	0.0	5.5
Native Vegetation	380.3	444.3	857.3	458.3	582.3	857.3	282.7	2,411.4	265.0	380.3	444.3	857.3	311.4	311.4	1,116.1	2,252.5	2,189.1
Not Surveyed	0.0	0.0	8.6	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0
Olives	0.5	8.8	0.0	0.1	8.0	0.0	0.1	0.0	0.1	0.5	8.8	0.0	0.1	0.1	0.0	0.5	0.0
Onions and Garlic	0.0	28.0	0.0	0.0	28.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0
Peaches and Nectarines	31.1	4.6	0.0	31.1	4.6	0.0	2.4	2.2	2.4	31.1	4.6	0.0	31.1	31.1	0.0	0.0	2.1
Pears	96.0	66.2	143.5	173.2	140.7	143.5	72.4	22.3	32.0	96.0	66.2	143.5	85.1	85.1	24.2	34.6	12.0
Peppers	0.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
Potatoes	0.0	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Poultry Farms	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Rice	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Safflower	72.1	101.0	82.7	37.3	65.5	82.7	37.3	77.9	37.3	72.1	101.0	82.7	35.5	35.5	0	82.8	59.8
Strawberries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sudan	0.4	13.7	3.1	0.4	13.7	3.1	0.4	2.2	0.4	0.4	13.7	3.1	0.4	0.4	0.0	0.8	0.8
Tomatoes (Processing)	61.6	177.3	164.8	88.3	244.7	164.8	61.6	133.0	47.1	61.6	177.3	164.8	55.1	55.1	9.3	82.3	81.8
Turf Farms	0.0	39.8	50.0	0.0	39.8	50.0	0.0	0.0	0.0	0.0	39.8	50.0	0.0	0.0	0.0	0.0	0.0
Unknown Deciduous Fruits and Nuts	27.2	18.0	2.0	24.6	14.5	2.0	11.6	7.2	11.6	27.2	18.0	2.0	23.3	23.3	0.0	11.2	2.7
Unknown Field	0.2	6.4	91.1	0.2	6.4	91.1	0.2	2.2	0.2	0.2	6.4	91.1	0.2	0.2	0.0	0.0	0.0
Unknown Grain and Hay	211.6	208.9	201.9	222.7	303.2	201.9	114.4	195.3	78.1	211.6	208.9	201.9	158.4	158.4	18.2	130.2	100.6
Unknown Pasture	0.0	0.0	21.2	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0
Unknown Rice	1.0	0	0	1.0	0	0	1.0	40.2	1.0	1.0	0.0	0.0	1.0	1.0	0.0	35.0	35.0
Unknown Truck Nursery and Berry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown Vineyards	34.8	180.6	270.7	159.0	246.3	270.7	34.8	146.4	34.8	34.8	180.6	270.7	18.4	18.4	11.7	90.0	85.7
Urban	68.9	86.8	152.9	64.0	82.0	152.9	46.7	41.0	42.2	68.9	86.8	152.9	55.0	55.0	63.9	51.2	39.9
Walnuts	0.0	2.3	0.0	0.0	2.3	0.0	0.0	2.8	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
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	1.0	1.0
Wheat	9.0	0.0	61.2	9.0	0.0	61.2	9.0	0.0	9.0	9.0	0.0	61.2	9.0	9.0	77.5	0.0	0.0
Wine Grapes	0.0	0.0	104.2	0.0	0.0	104.2	0.0	0.0	0.0	0.0	0.0	104.2	0.0	0.0	0.0	0.0	0.0
Grand Total	7,171.5	21,989.2	17,459.7	7,694.6	22,554.7	17,459.7	6,558.2	8,495.0	6,351.5	7,171.5	21,989.2	17,459.7	6,769.7	6,769.7	4,873.4	8,061.4	7,303.1

Note: Table based on DWR Engineering Geodatabases Rev10, Rev3b, CCO 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.

^a Assumes Intakes 1–3, 6, and 7; otherwise, effects would be the same as Alternative 1A and 1B, respectively.

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