

## Appendix 14C: Expanded Summary Table of Ecosystem Impacts from the WDC Action Alternatives

**Table 14C-1. Summary of Ecosystem Impacts from the WDC Action Alternatives**

in acres

Type of Habitat Affected	Non-Wetland Avoidance Option				Wetland Avoidance Option			
	A1	A2	B1	B2	A1	A2	B1	B2
<i>Wildlife Habitat</i>								
Direct impacts within the right-of-way by habitat quality <sup>a</sup>								
Low	101.2	106.4	120.9	121.9	101.2	106.4	120.9	121.9
Medium	210.9	202.6	276.7	265.6	210.5	202.2	276.3	265.2
High	49.5	45.8	48.9	45.3	36.8	33.2	36.3	32.7
<b>Total</b>	<b>361.6</b>	<b>354.8</b>	<b>446.5</b>	<b>432.8</b>	<b>348.5</b>	<b>341.8</b>	<b>433.5</b>	<b>419.8</b>
Direct impacts within the right-of-way by habitat type <sup>a</sup>								
Pasture	353.2	344.0	424.2	410.8	340.2	331.0	411.2	397.8
Marsh	3.9	3.9	17.6	17.6	3.8	3.8	17.5	17.5
Riparian	1.4	5.3	1.6	2.8	1.4	5.3	1.6	2.8
Waters	3.1	1.7	3.1	1.7	3.1	1.7	3.1	1.7
<b>Total</b>	<b>361.6</b>	<b>354.8</b>	<b>446.5</b>	<b>432.8</b>	<b>348.5</b>	<b>341.8</b>	<b>433.5</b>	<b>419.8</b>

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**Table 14C-1. Summary of Ecosystem Impacts from the WDC Action Alternatives**

in acres

Type of Habitat Affected	Non-Wetland Avoidance Option				Wetland Avoidance Option			
	A1	A2	B1	B2	A1	A2	B1	B2
<i>Wildlife Habitat Buffer Zone by Type (Distance from Right-of-Way)<sup>be</sup></i>								
0 to 300 feet								
Pasture	570.4	536.8	577.1	541.2	553.2	519.6	559.9	524.0
Marsh	47.6	47.6	28.9	28.9	47.2	47.2	28.5	28.5
Riparian	2.8	9.4	3.4	7.2	2.8	9.4	3.4	7.2
Playa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waters	12.7	11.0	12.0	10.3	12.6	10.8	11.9	10.1
<b>Total</b>	<b>633.4</b>	<b>604.7</b>	<b>621.3</b>	<b>587.5</b>	<b>615.7</b>	<b>587.0</b>	<b>603.6</b>	<b>569.7</b>
300 to 800 feet								
Pasture	876.3	838.9	855.4	821.2	876.3	838.9	855.4	821.2
Marsh	195.1	195.1	128.3	128.3	195.1	195.1	128.3	128.3
Riparian	6.7	18.3	5.7	9.4	6.7	18.3	5.7	9.4
Playa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waters	35.3	35.3	37.6	37.6	35.3	35.3	37.6	37.6
<b>Total</b>	<b>1,113.4</b>	<b>1,087.6</b>	<b>1,027.0</b>	<b>996.5</b>	<b>1,113.4</b>	<b>1,087.6</b>	<b>1,027.0</b>	<b>996.5</b>
800 to 1,300 feet								
Pasture	695.8	728.5	643.6	658.7	697.1	729.9	644.9	660.1
Marsh	345.0	345.0	246.7	246.7	344.2	344.2	245.9	245.9
Riparian	12.8	30.1	12.1	14.9	12.8	30.1	12.1	14.9
Playa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waters	22.3	22.3	21.6	21.6	22.3	22.3	21.6	21.6
<b>Total</b>	<b>1,076.0</b>	<b>1,126.0</b>	<b>923.9</b>	<b>941.9</b>	<b>1,076.5</b>	<b>1,126.5</b>	<b>924.5</b>	<b>942.5</b>
1,300 feet to 3,900 feet								
Pasture	2,307.2	2,754.5	2,113.0	2,228.3	2,311.8	2,759.1	2,117.6	2,232.9
Marsh	3,327.6	3,327.6	2,312.6	2,312.6	3,328.0	3,328.0	2,313.1	2,313.1
Riparian	59.4	87.5	63.7	80.9	59.4	87.5	63.7	80.9
Playa	9.6	9.6	0.0	0.0	9.6	9.6	0.0	0.0
Waters	186.2	189.2	167.0	170.2	186.2	189.2	167.0	170.2
<b>Total</b>	<b>5,890.0</b>	<b>6,368.3</b>	<b>4,656.3</b>	<b>4,791.9</b>	<b>5,895.0</b>	<b>6,373.4</b>	<b>4,661.4</b>	<b>4,797.0</b>

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**Table 14C-1. Summary of Ecosystem Impacts from the WDC Action Alternatives**

in acres

Type of Habitat Affected	Non-Wetland Avoidance Option				Wetland Avoidance Option			
	A1	A2	B1	B2	A1	A2	B1	B2
<i>Wildlife Habitat Buffer Zone by Quality (Distance from Right-of-Way)<sup>be</sup></i>								
0 to 300 feet								
Low	131.5	144.5	92.9	97.8	130.3	143.3	91.8	96.6
Medium	382.5	352.5	430.1	403.0	380.3	350.3	427.9	400.8
High	119.4	107.8	98.4	86.7	105.0	93.4	84.0	72.3
<b>Total</b>	<b>633.4</b>	<b>604.7</b>	<b>621.3</b>	<b>587.5</b>	<b>615.7</b>	<b>587.0</b>	<b>603.6</b>	<b>569.7</b>
300 to 800 feet								
Low	141.7	143.4	136.9	129.0	140.0	141.8	135.2	127.3
Medium	635.1	619.4	593.5	583.3	636.5	620.8	594.8	584.6
High	332.6	316.5	292.5	276.5	331.2	315.2	291.2	275.2
<b>Total</b>	<b>1,109.3</b>	<b>1,079.4</b>	<b>1,022.9</b>	<b>988.8</b>	<b>1,107.6</b>	<b>1,077.7</b>	<b>1,021.3</b>	<b>987.1</b>
800 to 1,300 feet								
Low	95.4	109.7	118.0	116.3	95.2	109.5	117.8	116.1
Medium	506.7	547.1	381.6	406.0	508.0	548.3	382.9	407.2
High	473.8	469.3	424.3	419.7	473.3	468.8	423.8	419.2
<b>Total</b>	<b>1,076.0</b>	<b>1,126.0</b>	<b>923.9</b>	<b>941.9</b>	<b>1,076.5</b>	<b>1,126.5</b>	<b>924.5</b>	<b>942.5</b>
1,300 feet to 3,900 feet								
Low	378.1	469.2	412.6	420.8	381.1	472.2	415.6	423.8
Medium	1,268.9	1,524.3	998.4	1,007.3	1,268.9	1,524.3	998.4	1,007.3
High	4,243.0	4,374.8	3,245.3	3,363.8	4,245.0	4,376.9	3,247.4	3,365.8
<b>Total</b>	<b>5,890.0</b>	<b>6,368.3</b>	<b>4,656.3</b>	<b>4,791.9</b>	<b>5,895.0</b>	<b>6,373.4</b>	<b>4,661.4</b>	<b>4,797.0</b>

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**Table 14C-1. Summary of Ecosystem Impacts from the WDC Action Alternatives**

in acres

Type of Habitat Affected	Non-Wetland Avoidance Option				Wetland Avoidance Option			
	A1	A2	B1	B2	A1	A2	B1	B2
<i>Wetlands</i>								
Direct impacts within the right-of-way by wetland quality								
Category I	15.9	15.2	15.7	15.1	13.7	13.1	13.6	13.0
Category II	8.2	7.7	15.3	14.8	3.3	2.8	10.4	9.9
Category III	4.0	4.0	16.9	16.7	4.0	4.0	16.9	16.7
<b>Total</b>	<b>28.1</b>	<b>26.9</b>	<b>47.9</b>	<b>46.6</b>	<b>21.0</b>	<b>19.9</b>	<b>40.9</b>	<b>39.6</b>
Constructed <sup>c</sup>								
Open water (acres)	4.8	3.8	4.2	2.8	4.8	3.8	4.2	2.8
Open water (linear feet) <sup>d</sup>	17,309	17,854	17,316	17,202	16,890	17,435	16,897	16,784
Direct impacts within the right-of-way by wetland type								
Wet meadow	17.8	17.4	26.3	25.8	12.6	12.2	21.1	20.6
Emergent marsh	9.1	8.2	20.4	19.6	7.2	6.4	18.6	17.8
Playa	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Riparian	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
<b>Total</b>	<b>28.1</b>	<b>26.9</b>	<b>47.9</b>	<b>46.6</b>	<b>21.0</b>	<b>19.9</b>	<b>40.9</b>	<b>39.6</b>
Wetlands within 300 feet of the right-of-way by wetland type								
Wet meadow	55.8	40.6	74.8	59.4	47.8	32.6	66.8	51.4
Emergent marsh	21.9	20.8	24.0	23.0	18.0	16.9	20.1	19.1
Playa	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Riparian	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
<b>Total</b>	<b>80.5</b>	<b>64.3</b>	<b>101.6</b>	<b>85.2</b>	<b>68.7</b>	<b>52.4</b>	<b>89.7</b>	<b>73.3</b>

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**Table 14C-1. Summary of Ecosystem Impacts from the WDC Action Alternatives**

in acres

Type of Habitat Affected	Non-Wetland Avoidance Option				Wetland Avoidance Option			
	A1	A2	B1	B2	A1	A2	B1	B2
Wetlands within 300 feet of the right-of-way by wetland quality								
Category I	51.8	50.3	44.2	42.7	42.4	40.9	34.8	33.3
Category II	10.8	10.3	9.7	9.1	8.3	7.7	7.2	6.6
Category III	17.9	3.7	47.7	33.4	17.9	3.7	47.7	33.4
<b>Total</b>	<b>80.5</b>	<b>64.3</b>	<b>100.6</b>	<b>85.2</b>	<b>68.7</b>	<b>52.4</b>	<b>89.7</b>	<b>73.3</b>
Constructed <sup>c</sup>	4.4	4.4	4.7	4.9	4.4	4.4	4.7	4.9
Open water	13.2	10.3	11.8	10.5	13.2	10.3	11.8	10.5

<sup>a</sup> Low = Level 2–3 (Ranks 1–2), does **not** includes Urban, Croplands, or Hayfields;

Medium = Level 4–5 (Ranks 3–4), includes Pastures and Wetlands;

High = Level 6 (Ranks >4), includes Pastures and Wetlands, including Great Salt Lake shore areas.

<sup>b</sup> Includes both wetland and upland habitat, but does not include areas with farm buildings, barns, or other structures.

<sup>c</sup> Constructed wetlands are constructed basins such as stormwater basins.

<sup>d</sup> Includes constructed canals, major ditches, natural drainages, and named creeks.

<sup>e</sup> The four buffer distances were chosen to show the types of wildlife habitats that are within 3,900 feet of each alternative to assist in comparing alternatives. For a summary of the literature on the potential for wildlife impacts from roadways that could occur in these zones, see Section 14.4.3.9, Summary of General Direct and Indirect Wildlife Habitat Impacts from the Action Alternatives.



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