

Appendix R2.16

Livestock Grazing

Appendix R2.16 Livestock Grazing

This appendix presents data supporting the analysis in Volume IV, Chapter IV.16. This appendix is organized as follows.

- Section R2.16.1 – No Action Alternative – Grazing Allotments: Tables R2.16-1 through R2.16-5
- Section R2.16.2 – Preferred Alternative – Grazing Allotments: Tables R2.16-6 through R2.16-10
- Section R2.16.3 – Alternative 1 – Grazing Allotments: Tables R2.16-11 through R2.16-15
- Section R2.16.4 – Alternative 2 – Grazing Allotments: Tables R2.16-16 through R2.16-20
- Section R2.16.5 – Alternative 3 – Grazing Allotments: Tables R2.16-21 through R2.16-25
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- Section R2.16.7 – No Action Alternative – BLM Grazing Land: Tables R2.16-31 through R2.16-32
- Section R2.16.8 – Preferred Alternative – BLM Grazing Land: Tables R2.16-33 through R2.16-37
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- Section R2.16.11 – Alternative 3 – BLM Grazing Land: Tables R2.16-46 through R2.16-49
- Section R2.16.12 – Alternative 4 – BLM Grazing Land: Tables R2.16-50 through R2.16-53
- Section R2.16.13 – No Action Alternative – Non-BLM Grazing Land: Tables R2.16-54 through R2.16-55
- Section R2.16.14 – Preferred Alternative – Non-BLM Grazing Land: Tables R2.16-56 through R2.16-57
- Section R2.16.15 – Alternative 1 – Non-BLM Grazing Land: Tables R2.16-58 through R2.16-59
- Section R2.16.16 – Alternative 2 – Non-BLM Grazing Land: Tables R2.16-60 through R2.16-61
- Section R2.16.17 – Alternative 3 – Non-BLM Grazing Land: Tables R2.16-62 through R2.16-63
- Section R2.16.18 – Alternative 4 – Non-BLM Grazing Land: Tables R2.16- 64through R2.16-65

Note on Rounding of Data. The following general rounding rules were applied to calculated values: values greater than 1,000 were rounded to nearest 1,000; values less than 1,000 and greater than 100 were rounded to the nearest 100; values of 100 or less were rounded to the nearest 10, and therefore totals may not sum due to rounding. In cases where subtotals are provided, the subtotals and the totals are individually rounded. The totals are not a sum of the rounded subtotals; therefore the subtotals may not sum to the total within the table.

R2.16.1 No Action Alternative BLM Grazing Allotments

**Table R2.16-1
Potential Acres of Grazing Allotment Impacts by Technology Type by Ecoregion Subarea – No Action Alternative**

Ecoregion Subarea	Grazing Allotment in Ecoregion Subarea (acres)	Potential Grazing Allotment Impacts by Technology Type (acres)				
		Solar	Wind	GT	Transmission	Total Impacts
Cadiz Valley and Chocolate Mountains	115,000	2,000	0	0	0	2,000
Imperial and Borrego Valley	0	0	0	0	0	0
Kingston and Funeral Mountains	306,000	4,000	0	0	0	4,000
Mojave and Silurian Valley	175,000	0	0	0	200	200
Owens River Valley	181,000	0	0	0	0	0
Panamint Death Valley	152,000	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	402,000	10	100	0	100	200
Piute Valley and Sacramento Mountains	26,000	0	0	0	0	0
Providence and Bullion Mountains	415,000	5,000	0	0	300	6,000
West Mojave and Eastern Slopes	823,000	4,000	2,000	0	700	7,000
Total	2,595,000	15,000	2,000	0	1,000	19,000

Table R2.16-2
Estimated Acres of Grazing Allotments in Conservation by Ecoregion Subarea – No Action Alternative

Ecoregion Subarea	Grazing Allotment in Ecoregion Subarea (acres)	Existing Protected Areas (acres)	BLM Conservation Designations (acres)	Total Area in Conservation (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains	115,000	48,000	12,000	60,000	52%
Imperial and Borrego Valley	0	0	0	0	0%
Kingston and Funeral Mountains	306,000	103,000	53,000	156,000	51%
Mojave and Silurian Valley	175,000	75,000	40,000	116,000	66%
Owens River Valley	181,000	10,000	300	10,000	6%
Panamint Death Valley	152,000	16,000	5,000	21,000	14%
Pinto Lucerne Valley and Eastern Slopes	402,000	38,000	81,000	119,000	30%
Piute Valley and Sacramento Mountains	26,000	0	23,000	23,000	89%
Providence and Bullion Mountains	415,000	173,000	105,000	278,000	67%
West Mojave and Eastern Slopes	823,000	62,000	147,000	209,000	25%
Total	2,595,000	525,000	467,000	993,000	38%

Table R2.16-3
Potential Acres of Grazing Allotment Impacts by Technology Type within BLM Lands – No Action Alternative

Solar	Wind	GT	Transmission
<i>CDCA</i>			
11,000	600	0	600
<i>Caliente</i>			
30	20	0	0
<i>Bishop</i>			
0	0	0	0

Table R2.16-4
Estimated Acres of Grazing Allotments within Existing BLM Land Designations – No Action Alternative

Existing SRMAs (acres)	Existing ACECs (acres)	Areas Managed for Recreational Emphasis
<i>CDCA</i>		
0	648,000	492,000
<i>Caliente</i>		
0	50	60
<i>Bishop</i>		
29,000	0	0

Table R2.16-5
Estimated Acres of Allotments on BLM Land Designations Outside Plan Area –
No Action Alternative

Existing SRMAs (acres)	Existing ACECs (acres)
217,000	8,000

R2.16.2 Preferred Alternative BLM Grazing Allotments

**Table R2.16-6
Potential Acres of Grazing Allotment Impacts by Technology Type and Ecoregion Subarea Plan Wide – Preferred Alternative**

Ecoregion Subarea	Grazing Allotments by Ecoregion Subarea (acres)	Potential Grazing Allotment Impacts by Technology Type (acres)				
		Solar [†]	Wind [‡]	GT*	Transmission	Total Impacts
Cadiz Valley and Chocolate Mountains	115,000	0	0	0	0	0
Imperial and Borrego Valley	0	0	0	0	0	0
Kingston and Funeral Mountains	306,000	2,000	0	0	0	2,000
Mojave and Silurian Valley	175,000	0	0	0	20	20
Owens River Valley	181,000	500	0	1,000	200	2,000
Panamint Death Valley	152,000	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	402,000	700	200	0	1,000	2,000
Piute Valley and Sacramento Mountains	26,000	0	0	0	0	0
Providence and Bullion Mountains	415,000	300	0	0	70	400
West Mojave and Eastern Slopes	823,000	7,000	600	0	300	8,000
Total	2,595,000	11,000	800	1,000	2,000	15,000

Table R2.16-7
Estimated Acres of Grazing Allotments within Reserve Design Lands by Ecoregion Subarea Plan Wide – Preferred Alternative

Ecoregion Subarea	Grazing Allotments in Ecoregion Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mtns	115,000	48,000	57,000	100	105,000	91%
Kingston and Funeral Mountains	306,000	103,000	129,000	1,000	233,000	76%
Mojave and Silurian Valley	175,000	100,000	46,000	1,000	147,000	84%
Owens River Valley	181,000	24,000	44,000	3,000	71,000	39%
Panamint Death Valley	152,000	16,000	68,000	300	84,000	55%
Pinto Lucerne Valley and Eastern Slopes	402,000	38,000	151,000	1,000	190,000	47%
Piute Valley and Sacramento Mountains	26,000	0	24,000	0	24,000	90%
Providence and Bullion Mountains	415,000	179,000	167,000	4,000	350,000	84%
West Mojave and Eastern Slopes	823,000	63,000	226,000	77,000	366,000	44%
Total	2,595,000	570,000	911,000	88,000	1,570,000	61%

Table R2.16-8
Potential Acres of Grazing Allotment Impacts by Technology Type on BLM Lands – Preferred Alternative

Solar	Wind	GT	Transmission
<i>CDCA</i>			
5,000	200	1,000	1,000
<i>Caliente</i>			
0	0	0	0
<i>Bishop</i>			
0	0	0	0

Table R2.16-9
Estimated Acres of Grazing Allotments in BLM Land Designation – Preferred Alternative

Allotments on BLM LUPA Lands (acres)	Allotments in BLM Land Designations						
	SRMAs (acres)	NLCS (acres)	ACEC (acres)	Wildlife Allocation (acres)	LWCs (acres)	Trail Management Corridors (acres/miles)	
<i>CDCA</i>							
1,854,000	249,000	622,000	467,000	0	70,000	315,000	223.0 miles
<i>Caliente</i>							
7,000	0	10	60	6,000	0	700	3.3 miles
<i>Bishop</i>							
89,000	29,000	0	5,000	0	0	0	0 miles

Table R2.16-10
Estimated Acres of Allotments on BLM LUPA Lands Outside of Plan Area – Preferred Alternative

Allotments Within BLM LUPA Lands Outside the Plan Area	BLM LUPA Designation			
	Proposed NLCS (acres)	Existing & Proposed ACECs (acres)	Trail Management Corridors (acres/miles)	
350,000	89,000	93,000	50	0.28 miles

R2.16.3 Alternative 1 BLM Grazing Allotments

Table R2.16-11

Estimated Acres of Grazing Allotments within DFAs by Technology Type and Ecoregion Subarea – Alternative 1

Ecoregion Subarea	Grazing Allotments by Ecoregion Subarea (acres)	Potential Grazing Allotment Impacts by Technology Type (acres)				
		Solar	Wind	GT	Transmission	Total Impacts
Cadiz Valley and Chocolate Mountains	115,000	0	0	0	0	0
Imperial and Borrego Valley	0	0	0	0	0	0
Kingston and Funeral Mountains	306,000	0	0	0	0	0
Mojave and Silurian Valley	175,000	0	0	0	30	30
Owens River Valley	181,000	4,000	0	0	1,000	5,000
Panamint Death Valley	152,000	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	402,000	600	30	0	1,000	2,000
Piute Valley and Sacramento Mountains	26,000	0	0	0	0	0
Providence and Bullion Mountains	415,000	300	0	0	100	500
West Mojave and Eastern Slopes	823,000	3,000	100	0	200	4,000
Total	2,595,000	8,000	200	0	3,000	11,000

Table R2.16-12
Estimated Acres of Grazing Allotments within Reserve Design Lands by Ecoregion Subarea – Alternative 1

Ecoregion Subarea	Grazing Allotments in Ecoregion Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains	115,000	48,000	57,000	100	105,000	91%
Imperial Borrego Valley	0	0	0	0	0	0%
Kingston and Funeral Mountains	306,000	103,000	126,000	2,000	230,000	75%
Mojave and Silurian Valley	175,000	100,000	42,000	2,000	144,000	82%
Owens River Valley	181,000	24,000	43,000	4,000	71,000	39%
Panamint Death Valley	152,000	16,000	68,000	300	84,000	55%
Pinto Lucerne Valley and Eastern Slopes	402,000	38,000	145,000	1,000	184,000	46%
Piute Valley and Sacramento Mountains	26,000	0	24,000	0	24,000	90%
Providence and Bullion Mountains	415,000	179,000	165,000	4,000	348,000	84%
West Mojave and Eastern Slopes	823,000	63,000	237,000	88,000	388,000	47%
Total	2,595,000	570,000	906,000	101,000	1,577,000	61%

Table R2.16-13
Potential Acres of Grazing Allotment Impacts by Technology Type on BLM Lands – Alternative 1

Solar	Wind	GT	Transmission
<i>CDCA</i>			
5,000	20	0	2,000
<i>Caliente</i>			
0	0	0	0
<i>Bishop</i>			
0	0	0	100

Table R2.16-14
Estimated Acres of Grazing Allotments in BLM Land Designation – Alternative 1

Allotments on BLM LUPA Lands (acres)	Allotments in BLM Land Designations					
	SRMAs (acres)	NLCS (acres)	ACEC (acres)	Wildlife Allocation (acres)	LWCs (acres)	Trail Management Corridors (acres/miles)
<i>CDCA</i>						
1,854,000	258,000	207,000	862,000	6,000	0	22,000 223.0 miles
<i>Caliente</i>						
7,000	0	0	70	6,000	0	30 3.3 miles
<i>Bishop</i>						
89,000	29,000	0	5,000	0	0	0 0 miles

Table R2.16-15
Estimated Acres of Allotments on BLM LUPA Lands
Outside of Plan Area —
Alternative 1

Allotments Within BLM LUPA Lands Outside the Plan Area	BLM LUPA Designation			
	Proposed NLCS (acres)	Existing & Proposed ACECs (acres)	Trail Management Corridors (acres/miles)	
350,000	57,000	44,000	50	0.28 miles

R2.16.4 Alternative 2 BLM Grazing Allotments

**Table R2.16-16
Potential Acres of Grazing Allotment Impacts by Technology Type and Ecoregion Subarea – Alternative 2**

Ecoregion Subarea	Grazing Allotments by Ecoregion Subarea (acres)	Potential Grazing Allotment Impacts by Technology Type (acres)				
		Solar	Wind	GT	Transmission	Total Impacts
Cadiz Valley and Chocolate Mountains	115,000	0	0	0	0	0
Imperial and Borrego Valley	0	0	0	0	0	0
Kingston and Funeral Mountains	306,000	700	100	0	300	1,000
Mojave and Silurian Valley	175,000	10	0	0	90	100
Owens River Valley	181,000	400	30	800	300	2,000
Panamint Death Valley	152,000	0	0	0	40	40
Pinto Lucerne Valley and Eastern Slopes	402,000	600	300	0	2,000	3,000
Piute Valley and Sacramento Mountains	26,000	0	0	0	0	0
Providence and Bullion Mountains	415,000	100	60	0	300	400
West Mojave and Eastern Slopes	823,000	9,000	600	0	200	10,000
Total	2,595,000	11,000	1,000	800	3,000	16,000

Table R2.16-17
Estimated Acres of Grazing Allotments within Reserve Design Lands by Ecoregion Subarea – Alternative 2

Ecoregion Subarea	Grazing Allotments in Ecoregion Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conser- vation
Cadiz Valley and Chocolate Mountains	115,000	48,000	57,000	100	105,000	91.3%
Imperial Borrego Valley	0	0	0	0	0	0%
Kingston and Funeral Mountains	306,000	103,000	158,000	4,000	265,000	87%
Mojave and Silurian Valley	175,000	100,000	46,000	2,000	149,000	85%
Owens River Valley	181,000	24,000	43,000	4,000	71,000	40%
Panamint Death Valley	152,000	16,000	75,000	400	91,000	60%
Pinto Lucerne Valley and Eastern Slopes	402,000	38,000	137,000	12,000	187,000	47%
Piute Valley and Sacramento Mountains	26,000	0	24,000	0	24,000	90%
Providence and Bullion Mountains	415,000	179,000	178,000	4,000	360,000	87%
West Mojave and Eastern Slopes	823,000	63,000	230,000	91,000	384,000	47%
Total	2,595,000	570,000	948,000	118,000	1,636,000	63%

Table R2.16-18
Potential Acres of Grazing Allotment Impacts by Technology Type on BLM Lands – Alternative 2

Solar	Wind	GT	Transmission
<i>CDCA</i>			
8,000	400	800	3,000
<i>Caliente</i>			
0	0	0	0
<i>Bishop</i>			
0	0	0	40

Table R2.16-19
Estimated Acres of Grazing Allotments in BLM Land Designation —Alternative 2

Allotments on BLM LUPA Lands (acres)	Allotments in BLM Land Designations					
	SRMAs (acres)	NLCS (acres)	ACEC (acres)	Wildlife Allocation (acres)	LWCs (acres)	Trail Management Corridors (acres/miles)
<i>CDCA</i>						
1,854,000	233,000	942,000	164,000	0	79,000	597,000 223.0 miles
<i>Caliente</i>						
7,000	0	0	6,000	60	50	7,000 3.3 miles
<i>Bishop</i>						
89,000	29,000	0	5,000	0	0	51,000 0 miles

Table R2.16-20
Estimated Acres of Allotments on BLM LUPA Lands Outside of Plan Area – Alternative 2

Allotments Within BLM LUPA Lands Outside the Plan Area	BLM LUPA Designation			
	Proposed NLCS (acres)	Existing & Proposed ACECs (acres)	Trail Management Corridors (acres/miles)	
350,000	175,000	93,000	21,000	0.28 miles

R2.16.5 Alternative 3 BLM Grazing Allotments

**Table R2.16-21
Estimated Acres of Grazing Allotments within DFAs by Technology Type and Ecoregion Subarea – Alternative 3**

Ecoregion Subarea	Grazing Allotments by Ecoregion Subarea (acres)	Potential Grazing Allotment Impacts by Technology Type (acres)				
		Solar	Wind	GT	Transmission	Total Impacts
Cadiz Valley and Chocolate Mountains	115,000	0	0	0	0	0
Imperial and Borrego Valley	0	0	0	0	0	0
Kingston and Funeral Mountains	306,000	0	0	0	0	0
Mojave and Silurian Valley	175,000	0	0	0	20	20
Owens River Valley	181,000	1,000	0	1,000	400	3,000
Panamint Death Valley	152,000	0	0	0	500	500
Pinto Lucerne Valley and Eastern Slopes	402,000	800	90	0	1,000	2,000
Piute Valley and Sacramento Mountains	26,000	0	0	0	0	0
Providence and Bullion Mountains	415,000	500	0	0	100	700
West Mojave and Eastern Slopes	823,000	5,000	300	0	400	6,000
Total	2,595,000	8,000	400	1,000	3,000	12,000

Table R2.16-22
Estimated Acres of Grazing Allotments within Reserve Design Lands by Ecoregion Subarea – Alternative 3

Ecoregion Subarea	Grazing Allotments in Ecoregion Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains	115,000	48,000	57,000	100	105,000	91%
Imperial and Borrego Valley	0	0	0	0	0	0%
Kingston and Funeral Mountains	306,000	103,000	125,000	2,000	230,000	75%
Mojave and Silurian Valley	175,000	100,000	44,000	2,000	146,000	83%
Owens River Valley	181,000	24,000	43,000	3,000	70,000	38%
Panamint Death Valley	152,000	16,000	68,000	400	85,000	55%
Pinto Lucerne Valley and Eastern Slopes	402,000	38,000	141,000	2,000	180,000	45%
Piute Valley and Sacramento Mountains	26,000	0	24,000	0	24,000	90%
Providence and Bullion Mountains	415,000	179,000	166,000	4,000	348,000	84%
West Mojave and Eastern Slopes	823,000	63,000	240,000	84,000	387,000	57%
Total	2,595,000	570,000	908,000	96,000	1,573,000	61%

Table R2.16-23
Potential Acres of Grazing Allotment Impacts by Technology Type on BLM Lands – Alternative 3

Solar	Wind	GT	Transmission
<i>CDCA</i>			
3,000	70	1,000	2,000
<i>Caliente</i>			
0	0	0	0
<i>Bishop</i>			
0	0	0	40

Table R2.16-24
Estimated Acres of Grazing Allotments in BLM Land Designation – Alternative 3

Allotments on BLM LUPA Lands (acres)	Allotments in BLM Land Designations						Trail Management Corridors (acres/miles)
	SRMAs (acres)	NLCS (acres)	ACEC (acres)	Wildlife Allocation (acres)	LWCs (acres)		
<i>CDCA</i>							
1,854,000	264,000	592,000	479,000	0	79,000	597,000	223.0 miles
<i>Caliente</i>							
7,000	0	10	2,000	4,000	50	7,000	3.3 miles
<i>Bishop</i>							
89,000	29,000	0	5,000	0	0	51,000	0 miles

Table R2.4-25
Estimated Acres of Allotments on BLM LUPA Lands Outside of Plan Area – Alternative 3

Allotments Within BLM LUPA Lands Outside the Plan Area	BLM LUPA Designation			
	Proposed NLCS (acres)	Existing & Proposed ACECs (acres)	Trail Management Corridors (acres/miles)	
350,000	66,000	93,000	90	0.28 miles

R2.16.6 Alternative 4 BLM Grazing Allotments

**Table R2.16-26
Potential Acres of Grazing Allotment Impacts by Technology Type and Ecoregion Subarea – Alternative 4**

Ecoregion Subarea	Grazing Allotments by Ecoregion Subarea (acres)	Potential Grazing Allotment Impacts by Technology Type (acres)				
		Solar [†]	Wind [‡]	GT*	Transmission	Total Impacts
Cadiz Valley and Chocolate Mountains	115,000	0	0	0	0	0
Imperial and Borrego Valley	0	0	0	0	0	0
Kingston and Funeral Mountains	306,000	400	0	0	0	400
Mojave and Silurian Valley	175,000	0	0	0	10	10
Owens River Valley	181,000	1,000	0	1,000	400	3,000
Panamint Death Valley	152,000	0	0	0	200	200
Pinto Lucerne Valley and Eastern Slopes	402,000	800	200	0	600	2,000
Piute Valley and Sacramento Mountains	26,000	0	0	0	0	0
Providence and Bullion Mountains	415,000	200	0	0	60	200
West Mojave and Eastern Slopes	823,000	4,000	400	0	200	5,000
Total	2,595,000	7,000	500	1,000	2,000	10,000

Table R2.16-27
Estimated Acres of Grazing Allotments within Reserve Design Lands by Ecoregion Subarea – Alternative 4

Ecoregion Subarea	Grazing Allotments in Ecoregion Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains	115,000	48,000	42,000	300	89,000	78%
Imperial Borrego Valley	0	0	0	0	0	0%
Kingston and Funeral Mountains	306,000	103,000	124,000	1,000	228,000	75%
Mojave and Silurian Valley	175,000	100,000	42,000	2,000	144,000	82%
Owens River Valley	181,000	24,000	39,000	3,000	65,000	36%
Panamint Death Valley	152,000	16,000	68,000	300	84,000	55%
Pinto Lucerne Valley and Eastern Slopes	402,000	38,000	135,000	2,000	174,000	43%
Piute Valley and Sacramento Mountains	26,000	0	24,000	0	24,000	90%
Providence and Bullion Mountains	415,000	179,000	158,000	4,000	341,000	82%
West Mojave and Eastern Slopes	823,000	63,000	239,000	84,000	386,000	47%
Total	2,595,000	570,000	870,000	96,000	1,537,000	69%

Table R2.16-28
Potential Acres of Grazing Allotment Impacts by Technology Type on BLM Lands – Alternative 4

Solar	Wind	GT	Transmission
<i>CDCA</i>			
2,000	100	1,000	1,000
<i>Caliente</i>			
0	0	0	0
<i>Bishop</i>			
0	0	0	40

Table R2.16-29
Estimated Acres of Grazing Allotments in BLM Land Designation – Alternative 4

Allotments on BLM LUPA Lands (acres)	Allotments in BLM Land Designations [†]					
	SRMAs (acres)	NLCS (acres)	ACEC (acres)	Wildlife Allocation (acres)	LWCs (acres)	Trail Management Corridors (acres/miles)
<i>CDCA</i>						
1,854,000	261,000	442,000	582,000	0	52,000	79,000 223.0 miles
<i>Caliente</i>						
7,000	0	10	60	6,000	0	50 3.3 miles
<i>Bishop</i>						
89,000	29,000	0	500	0	0	0 0 miles

Table R2.16-30
Estimated Acres of Allotments on BLM LUPA Lands
Outside of Plan Area —
Alternative 4

Allotments Within BLM LUPA Lands Outside the Plan Area	BLM LUPA Designation [†]			
	Proposed NLCS (acres)	Existing & Proposed ACECs (acres)	Trail Management Corridors (acres/miles)	
350,000	68,000	93,000	50	0.28 miles

R2.16.7 No Action Alternative Private Land by Ecoregion Subarea

**Table R2.16-31
Potential Acres of Non-BLM Grazing Land Impacts by Technology Type by Subarea – No Action Alternative**

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Potential Non-BLM Grazing Land impacts by Technology Type (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	0	0	0	90	90	1%
Pinto Lucerne Valley and Eastern Slopes	187,000	0	90	0	300	400	0.2%
West Mojave and Eastern Slopes	773,000	5,000	3,000	0	2,000	10,000	1%
Grand Total	969,000	5,000	3,000	0	2,000	10,000	1%

Table R2.16-32
Estimated Acres of Non-BLM Grazing Lands in Conservation* by Subarea –
No Action Alternative

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Existing Protected Areas (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains	0	0	0%
Imperial Borrego Valley	0	0	0%
Mojave and Silurian Valley	9,000	0	0%
Pinto Lucerne Valley and Eastern Slopes	187,000	0	0%
Providence and Bullion Mountains	100	0	0%
West Mojave and Eastern Slopes	773,000	22,000	3%
Grand Total	970,000	22,000	23%

*This summary does not reflect project-by-project mitigation generated from renewable energy and transmission development.

R2.16.8 Preferred Alternative Private Land by Ecoregion Subarea

Table R2.16-33

Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type by Subarea – Preferred Alternative

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Non-BLM Grazing Land in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	100	0	0	30	200	2%
Pinto Lucerne Valley and Eastern Slopes	187,000	4,000	1,000	0	2,000	7,000	4%
West Mojave and Eastern Slopes	773,000	14,000	1,000	0	600	16,000	2%
Grand Total	969,000	18,000	3,000	0	2,000	23,000	2%

Table R2.16-34
Estimated Acres of Agricultural Resources
in Study Area Lands -
Preferred Alternative

Agricultural Resource	Special Analysis Areas (acres)
Non-BLM Grazing Lands	0

Table R2.16-35
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by Subarea –
Preferred Alternative

Ecoregion Subarea	Non-BLM Grazing Land in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	0	1,000	300	1,000	15%
Pinto Lucerne Valley and Eastern Slopes	187,000	0	33,000	3,000	36,000	20%
West Mojave and Eastern Slopes	773,000	22,000	49,000	26,000	97,000	13%
Grand Total	969,000	22,000	83,000	29,000	134,000	14%

Table R2.16-36
Estimated Acres of Non-BLM Grazing Land Impacts in GCP Reserve Design Lands by Technology Type - Preferred Alternative

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Non-BLM Grazing Land in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Non-BLM Grazing Lands	970,000	18,000	3,000	0	2,000	23,000	2.3%

Table R2.16-37
Estimated Acres of Non-BLM Grazing Lands in GCP Reserve Design Lands – Preferred Alternative

Agricultural Resource	Agricultural Resources in GCP (acres)	Existing Conservation Areas (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Non-BLM Grazing Lands	970,000	22,000	29,000	51,000	5.3%

R2.16.9 Alternative 1 Private Land by Ecoregion Subarea

**Table R2.16-38
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type by Subarea – Alternative 1**

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0	0.0%
Imperial Borrego Valley	0	0	0	0	0	0	0.0%
Mojave and Silurian Valley	9,000	300	0	0	20	300	3%
Pinto Lucerne Valley and Eastern Slopes	187,000	9,000	600	0	2,000	12,000	6%
West Mojave and Eastern Slopes	773,000	13,000	700	0	400	14,000	2%
Grand Total	969,000	22,000	1,000	0	2,000	26,000	3%

Table R2.16-39
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by Subarea – Alternative 1

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conserv- ation
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	0	1,000	200	1,000	15%
Pinto Lucerne Valley and Eastern Slopes	187,000	0	34,000	800	35,000	19%
West Mojave and Eastern Slopes	773,000	22,000	45,000	36,000	104,000	13%
Grand Total	969,000	22,000	80,000	37,000	140,000	14%

Table R2.16-40
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type – Alternative 1

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Non-BLM Grazing Lands	970,000	22,000	1,000	0	2,000	26,000	3%

Table R2.16-41
Estimated Acres of Non-BLM Grazing Lands in GCP Reserve Design Lands – Alternative 1

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Existing Conservation Areas (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Non-BLM Grazing Lands	970,000	22,000	37,000	59,000	6%

R2.16.10 Alternative 2 Private Land by Ecoregion Subarea

**Table R2.16-42
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type by Subarea – Alternative 2**

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	90	0	0	20	100	1%
Pinto Lucerne Valley and Eastern Slopes	187,000	3,000	1,000	0	2,000	7,000	4%
West Mojave and Eastern Slopes	773,000	9,000	2,000	0	400	11,000	1%
Grand Total	969,000	12,000	3,000	0	3,000	18,000	2%

Table R2.16-43
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by Subarea – Alternative 2

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	0	1,000	300	1,000	15%
Pinto Lucerne Valley and Eastern Slopes	187,000	0	6,000	22,000	27,000	15%
West Mojave and Eastern Slopes	773,000	22,000	46,000	30,000	98,000	13%
Grand Total	969,000	22,000	53,000	52,000	127,000	13%

Table R2.16-44
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type – Alternative 2

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Non-BLM Grazing Lands	970,000	12,000	3,000	0	3,000	18,000	2%

Table R2.16-45
Estimated Acres of Non-BLM Grazing Lands in GCP Reserve Design Lands – Alternative 2

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Existing Conservation Areas (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Non-BLM Grazing Lands	970,000	22,000	52,000	74,000	8%

R2.16.11 Alternative 3 Private Land by Ecoregion Subarea

**Table R2.16-46
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type by Subarea – Alternative 3**

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	200	0	0	10	200	2%
Pinto Lucerne Valley and Eastern Slopes	187,000	7,000	800	0	2,000	10,000	5%
West Mojave and Eastern Slopes	773,000	13,000	1,000	0	700	14,000	2%
Grand Total	969,000	19,000	2,000	0	3,000	24,000	3%

Table R2.16-47
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by Subarea – Alternative 3

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conser- vation
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	0	1,000	300	1,000	15%
Pinto Lucerne Valley and Eastern Slopes	187,000	0	33,000	3,000	36,000	19%
West Mojave and Eastern Slopes	773,000	22,000	50,000	35,000	108,000	14%
Grand Total	969,000	22,000	85,000	38,000	145,000	15%

Table R2.16-48
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type – Alternative 3

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Non-BLM Grazing Lands	970,000	19,000	2,000	0	3,000	24,000	3%

Table R2.16-49
Estimated Acres Non-BLM Grazing Lands in GCP Reserve Design Lands – Alternative 3

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Existing Conservation Areas (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Non-BLM Grazing Lands	970,000	22,000	38,000	60,000	6%

R2.16.12 Alternative 4 Private Land by Ecoregion Subarea

**Table R2.16-50
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type by Subarea – Alternative 4**

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar [†]	Wind [‡]	GT*	Transmission	Total Impacts	Percent Impacted
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	200	0	0	10	200	2%
Pinto Lucerne Valley and Eastern Slopes	187,000	5,000	900	0	900	7,000	4%
West Mojave and Eastern Slopes	773,000	17,000	1,000	0	400	18,000	2%
Grand Total	969,000	22,000	2,000	0	1,000	25,000	3%

Table R2.16-51
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by Subarea – Alternative 4

Ecoregion Subarea	Non-BLM Grazing Lands in Subarea (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conser- vation
Cadiz Valley and Chocolate Mountains	0	0	0	0	0	0%
Imperial Borrego Valley	0	0	0	0	0	0%
Mojave and Silurian Valley	9,000	0	1,000	100	1,000	15%
Pinto Lucerne Valley and Eastern Slopes	187,000	0	33,000	3,000	35,000	19%
West Mojave and Eastern Slopes	773,000	22,000	49,000	26,000	97,000	13%
Grand Total	969,000	22,000	83,000	29,000	134,000	14%

Table R2.16-52
Estimated Acres of Non-BLM Grazing Land Impacts by Technology Type – Alternative 4

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Non-BLM Grazing Lands in DFA Footprint by Technology (acres)					
		Solar [†]	Wind [‡]	GT*	Transmission	Total Impacts	Percent Impacted
Non-BLM Grazing Lands	970,000	22,000	2,000	0	1,000	25,000	3%

Table R2.16-53
Estimated Acres of Non-BLM Grazing Lands in GCP Reserve Design Lands – Alternative 4

Agricultural Resource	Non-BLM Grazing Lands in GCP (acres)	Existing Conservation Areas (acres)	Conservation Planning Areas (acres)	Total Area in Conservation (acres)	Percent in Conservation
Non-BLM Grazing Lands	970,000	22,000	29,000	51,000	5.3%

R2.16.13 No Action Alternative Private Land by County

**Table R2.16-54
 Potential Acres of Non-BLM Grazing Lands by Technology Type by County – No Action Alternative**

County	Non-BLM Grazing Land in County (acres)	Potential Non-BLM Grazing Land impacts by Technology Type (acres)					
		Solar	Wind	GT	Transmission	Total Impacts	Percent Impacted
Kern County	330,000	2,000	1,000	0	300	3,000	1%
Los Angeles County	103,000	1,000	600	0	300	2,000	2%
San Bernardino County	536,000	2,000	1,000	0	2,000	5,000	1%
Grand Total	970,000	5,000	3,000	0	2,000	10,000	1%

Table R2.16-55
Estimated Acres of Non-BLM Grazing Lands in Conservation* by County – No Action Alternative

County	Non-BLM Grazing Land Resource in County (acres)	Existing Protected Areas (acres)	Percent in Conservation
Kern County	330,000	22,000	7%
Los Angeles County	103,000	10	0%
San Bernardino County	536,000	0	0%
Grand Total	970,000	22,000	2%

*This summary does not reflect project-by-project mitigation generated from renewable energy and transmission development.

R2.16.14 Preferred Alternative Private Land by County

**Table R2.16-56
 Potential Acres of Non-BLM Grazing Lands by Technology Type by County – Preferred Alternative**

County	Non-BLM Grazing Land in County (acres)	Potential Non-BLM Grazing Land impacts by Technology Type (acres)					
		Solar	Wind	GT	Trans- mission	Total Impacts	Percent Impacted
Kern County	330,000	3,000	500	0	50	3,000	1%
Los Angeles County	103,000	3,000	0	0	40	3,000	3%
San Bernardino County	536,000	12,000	2,000	0	2,000	17,000	3%
Grand Total	970,000	18,000	3,000	0	2,000	23,000	2%

Table R2.16-57
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by County – Preferred Alternative

County	Non-BLM Grazing Land in County (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conser- vation
Kern County	330,000	22,000	32,000	4,000	57,000	17%
Los Angeles County	103,000	10	0	7,000	7,000	7%
San Bernardino County	536,000	0	51,000	19,000	70,000	13%
Grand Total	970,000	22,000	83,000	29,000	134,000	14%

R2.16.15 Alternative 1 Private Land by County

**Table R2.16-58
Potential Acres of Non-BLM Grazing Lands by Technology Type by County —Alternative 1**

County	Non-BLM Grazing Lands in County (acres)	Potential Non-BLM Grazing Lands by Technology Type (acres)					
		Solar	Wind	GT	Trans- mission	Total Impacts	Percent Impacted
Kern County	330,000	600	20	0	40	600	0.2%
Los Angeles County	103,000	800	0	0	0	800	1%
San Bernardino County	536,000	21,000	1,000	0	2,000	24,000	5%
Grand Total	970,000	22,000	1,000	0	2,000	26,000	3%

Table R2.16-59
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by County – Alternative 1

County	Non-BLM Grazing Lands in County (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conser- vation
Kern County	330,000	22,000	34,000	11,000	68,000	21%
Los Angeles County	103,000	10	0	9,000	9,000	9%
San Bernardino County	536,000	0	46,000	17,000	63,000	12%
Grand Total	970,000	22,000	80,000	37,000	140,000	14%

R2.16.16 Alternative 2 Private Land by County

**Table R2.16-60
Potential Acres of Non-BLM Grazing Lands by Technology Type by County – Alternative 2**

County	Non-BLM Grazing Lands in County (acres)	Potential Non-BLM Grazing Land impacts by Technology Type (acres)					
		Solar	Wind	GT	Trans- mission	Total Impacts	Percent Impacted
Kern County	330,000	2,000	500	0	60	3,000	1%
Los Angeles County	103,000	2,000	60	0	60	2,000	2%
San Bernardino County	536,000	8,000	2,000	0	3,000	13,000	2%
Grand Total	970,000	12,000	3,000	0	3,000	18,000	2%

Table R2.16-61
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by County – Alternative 2

County	Non-BLM Grazing Lands in County (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conser- vation
Kern County	330,000	22,000	34,000	6,000	62,000	19%
Los Angeles County	103,000	10	0	7,000	7,000	7%
San Bernardino County	536,000	0	19,000	39,000	58,000	11%
Grand Total	970,000	22,000	53,000	52,000	127,000	13%

R2.16.17 Alternative 3 Private Land by County

**Table R2.16-62
 Potential Acres of Non-BLM Grazing Lands by Technology Type by County – Alternative 3**

County	Non-BLM Grazing Lands in County (acres)	Potential Non-BLM Grazing Land impacts by Technology Type (acres)					
		Solar	Wind	GT	Trans- mission	Total Impacts	Percent Impacted
Kern County	330,000	700	30	0	60	800	0.2%
Los Angeles County	103,000	2,000	100	0	0	2,000	2%
San Bernardino County	536,000	17,000	2,000	0	3,000	21,000	4%
Grand Total	970,000	19,000	2,000	0	3,000	24,000	3%

Table R2.16-63
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by County – Alternative 3

County	Non-BLM Grazing Lands in County (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conser- vation
Kern County	330,000	22,000	34,000	11,000	67,000	20%
Los Angeles County	103,000	10	0	9,000	9,000	9%
San Bernardino County	536,000	0	51,000	18,000	69,000	13%
Grand Total	970,000	22,000	85,000	38,000	145,000	15%

R2.16.18 Alternative 4 Private Land by County

**Table R2.16-64
 Potential Acres of Non-BLM Grazing Lands by Technology Type by County – Alternative 4**

County	Non-BLM Grazing Lands in County (acres)	Potential Non-BLM Grazing Land impacts by Technology Type (acres)					
		Solar	Wind	GT	Trans- mission	Total Impacts	Percent Impacted
Kern County	330,000	4,000	500	0	20	4,000	1%
Los Angeles County	103,000	4,000	0	0	0	4,000	3%
San Bernardino County	536,000	15,000	2,000	0	1,000	18,000	3%
Grand Total	970,000	22,000	2,000	0	1,000	25,000	3%

Table R2.16-65
Estimated Acres of Non-BLM Grazing Lands in Reserve Design Lands by County – Alternative 4

County	Non-BLM Grazing Lands in County (acres)	Existing Conservation Areas (acres)	BLM LUPA Conservation Designations (acres)	Conservation Planning Areas (acres)	Total Area in Conser- vation (acres)	Percent in Conser- vation
Kern County	330,000	22,000	32,000	4,000	58,000	18%
Los Angeles County	103,000	10	0	7,000	7,000	7%
San Bernardino County	536,000	0	51,000	18,000	69,000	13%
Grand Total	970,000	22,000	83,000	29,000	134,000	14%