

Example Functional Acre Calculations

COLORADO

Habitat Type	Acres	4th Order Site Vegetation Condition	Modifiers						Functional Acres
			4th Order			3rd Order		2nd Order	
			Cheatgrass	Conifer Cover	Site-Level Antropogenic Feature Disturbance	Distance to Lek	Availability of Sagebrush Cover	Landscape Disturbance Index	
Breeding	160	0.5	0.8	1	0.75	1	N/A	0.92	44.16
Summer	160	0.6	1	1	0.75	N/A	1	0.92	66.24
Winter	160	0.8	N/A	1	0.75	N/A	N/A	0.92	88.32

WYOMING

Habitat Type	Acres	4th Order Site Vegetation Condition	Modifiers						Functional Acres
			4th Order			3rd Order		2nd Order	
			Cheatgrass	Conifer Cover	Site-Level Antropogenic Feature	Distance to Lek	Availability of Sagebrush Cover	Landscape Disturbance Index	
Breeding	160	0.5	0.8	1	0.75	1	N/A	0.92	44.16
Summer	160	0.6	1	1	0.75	N/A	1	0.92	66.24
Winter	160	0.8	N/A	1	0.75	N/A	N/A	0.92	88.32

For Colorado & Wyoming:

Functional Acres =
Area x Vegetation Condition (4th Order) x Site Context Modifiers (4th Order) x Local Context Modifiers (3rd Order) x Landscape Context Modifiers (2nd Order)

NEVADA

Habitat Type	Acres	Pre-Modified Site-Scale (4th Order) Habitat Function	Modifiers		4th Order Function	Modifiers				3rd Order Function	Overall Habitat Function	Functional Acres
			4th Order			3rd Order						
			Invasive Annual Grass	Distance to Sagebrush Cover		Anthropogenic Disturbance	Distance to Lek	Habitat Suitability Index	Distance to Late Brood-Rearing Habitat			
Breeding	17	0.61	1	N/A	0.61	0.8	1	0.7	1	0.56	0.34	5.8
Late Brood-Rearing	17	0.88	0.8	1	0.70	0.8	N/A	0.7	N/A	0.56	0.39	6.7
Winter	17	0.64	N/A	N/A	0.64	0.8	N/A	0.7	N/A	0.56	0.36	6.1

For Nevada:

Functional Acres = Area x Overall Habitat Function
Overall Habitat Function = 4th Order Habitat Function x 3rd Order Habitat Funtiton
4th Order Habitat Function = Pre-Modified Site-Scale Habitat Function x Product of Site-Scale (4th Order) Modifiers
3rd Order Habitat Function = Product of Local-Scale (3rd Order) Modifiers

Vegetation Attribute Weighting Values

			Colorado		Wyoming		Nevada		Oregon	
Habitat Type	Habitat Function	Vegetation Attribute	Function Weight	Attribute Weight	Function Weight	Attribute Weight	Function Weight	Attribute Weight	Function Weight	Attribute Weight
BREEDING	Cover / Refugia	Sagebrush Height	50%	10%	66.7%	10%	50%			
		Sagebrush Canopy Cover		15%		25%		20%		
		Grass Canopy Cover		12.5%		16.68%				
		Grass Height		12.5%		16.68%				
		Total Shrub Canopy Cover						30%		
	Forage	Forb Cover	50%	16.7%	33.3%	16.7%	50.0%			
		Forb Species Richness		16.7%				25%		
		Forb Cover that is Noxious Weeds		16.7%		16.7%				
		Perennial Forb Canopy Cover						25%		
SUMMER / LATE BROOD- REARING	Cover / Refugia	Grass Canopy Cover	30%	15%	33.3%	33.3%	25%			
		Grass Height		15%						
		Perennial Grass Canopy Cover						25%		
	Forage	Forb Cover	70%	23.3%	66.7%	33.4%	75%			
		Forb Species Richness		23.3%				37.5%		
		Forb Cover that is Noxious Weeds		23.3%		33.4%				
		Perennial Forb Canopy Cover						37.5%		
WINTER		Sagebrush Height		50%		50%		50%		
		Sagebrush Canopy Cover		50%		50%		50%		

Vegetation Attribute Measures that are Considered Fully Functioning
(Vegetation measurements required for 100% habitat functionality)

Habitat Type	Habitat Function	Vegetation Attribute	Colorado	Wyoming
			Attribute Measure	Attribute Measure
			Arid Sites	Arid Sites
			Mesic Sites	Mesic Sites
BREEDING	Cover / Refugia	Sagebrush Height	30 - 69 cm	20 - 45 cm
			30 - 89 cm	
		Sagebrush Canopy Cover	15 - 49%	15 - 45%
		Grass Canopy Cover	≥ 5%	≥ 8%
			≥ 20%	
		Grass Height	≥ 15 cm	≥ 13 cm
		Total Shrub Canopy Cover		
		Sagebrush Shape	< 10% of sagebrush is columnar	
	Forage	Forb Cover	≥ 10%	≥ 5%
			≥ 15%	
		Forb Species Richness	≥ 7 species	
			≥ 11 species	
		Forb Cover that is Noxious Weeds	0%	0%
		Perennial Forb Canopy Cover		
SUMMER / LATE BROOD- REARING	Cover / Refugia	Grass Canopy Cover	> 10%	≥ 15%
		Grass Height	> 10 cm	
		Perennial Grass Canopy Cover		
	Forage	Forb Cover	≥ 10%	≥ 16%
		Forb Species Richness	≥ 7 species	
			≥ 11 species	
		Forb Cover that is Noxious Weeds	0%	0%
		Perennial Forb Canopy Cover		

		Slope < 5%	Slope < 5%
		Slope > 5%	Slope > 5%
WINTER	Sagebrush Height	> 30 cm	> 25 cm
		> 20 cm	> 25 cm
	Sagebrush Canopy Cover	> 20%	> 10%

Nevada	Oregon
Attribute Measure	Attribute Measure
Arid Sites	
Mesic Sites	
Meadow Sites	
≥ 20%	
≥ 35%	
≥ 5 species	
≥ 7 species	
≥ 7 species	
≥ 5%	
≥ 16%	
≥ 16%	
≥ 15%	
≥ 25%	
≥ 55%	
≥ 5 species	
≥ 7 species	
≥ 7 species	
≥ 5%	
≥ 12%	
≥ 20%	

Big Sagebrush	
Low/Black Sagebrush	
> 60 cm	
> 25 cm	
≥ 20%	
≥ 15%	

Colorado 4th Order Vegetation Attributes

Seasonal Habitat Type	Attribute Category (Weight)	Vegetation Attribute (Weight)	Categories	Functionality Score	
				Arid	
				Mesic	
Breeding [Trigger: ≥ 5% sagebrush canopy cover required]	Cover / Refugia (50%)	Sagebrush Height (10%) [Sagebrush Shape Modifier: If more than 50% of sagebrush is columnar, then the value of the height measure is reduced by 50%]	< 18 cm	0	0
			18 - 29 cm	0.5	0.5
			30 - 39 cm	1	1
			40 - 49 cm	1	1
			50 - 59 cm	1	1
			60 - 69 cm	1	1
			70 - 79 cm	0.7	1
			80 - 89 cm	0.7	1
			90 - 99 cm	0.25	0.7
			100 - 119 cm	0.25	0.6
			120 - 140 cm	0.25	0.5
			≥ 140 cm	0	0
		Sagebrush Canopy Cover (15%)	< 5%	0	0
			5 - 14%	0.5	0
			15 - 19%	1	0
			20 - 29%	1	0
			30 - 39%	1	0
			40 - 49%	1	0
			50 - 59%	0.5	0
			60 - 69%	0.25	0
			70 - 79%	0.25	0
			≥ 80%	0	0
		Grass Canopy Cover (12.5%)	1%	0.1	0
			2%	0.3	0.1
			3%	0.4	0.15
			4%	0.5	0.2
			5%	1	0.25
			6%	1	0.3
			7%	1	0.35
			8%	1	0.4
			9%	1	0.45
			10%	1	0.5
			11%	1	0.55
			12%	1	0.6
			13%	1	0.65
			14%	1	0.7
			15%	1	0.75
			16%	1	0.8
			17%	1	0.85

			18%	1
				0.9
			19%	1
				0.95
			≥ 20%	1
				1
		Grass Height (12.5%)	1 cm	0
			2 cm	0.0125
			3 cm	0.05
			4 cm	0.05
			5 cm	0.075
			6 cm	0.075
			7 cm	0.1
			8 cm	0.2
			9 cm	0.3
			10 cm	0.5
			11 cm	0.7
			12 cm	0.8
			13 cm	0.9
			14 cm	0.95
			15 cm	1
			> 15 cm	1
	Forage (50%)	Forb Cover (16.7%)	0%	0
				0
			1 - 5%	0.5
				0.5
			5 - 7%	0.8
				0.5
			7 - 10%	0.8
				0.8
			10 - 15%	1
				0.8
			> 15%	1
				1
		Forb Species Richness (16.7%)	< 2 species	0
				0
			2 species	0.4
				0.4
			3 species	0.6
				0.5
			4 species	0.75
				0.6
			5 species	0.85
				0.65
			6 species	0.95
				0.7
			7 species	1
				0.8
			8 species	1
				0.85
			9 species	1
				0.9
			10 species	1
				0.95
			≥ 11 species	1
				1
		Forb Cover that is Noxious Weeds (16.7%)	0	1
			50	0.5
			100	0
	Cover / Refugia (30%)	Grass Canopy Cover (15%)	0%	0
			1 - 4%	0.5
			5 - 10%	0.75
			> 10%	1
		Grass Height (15%)	0 cm	0
			1 - 4 cm	0.5
			5 - 10 cm	0.75
			> 10 cm	1
		Forb Cover (23.3%)	0%	0
			1 - 4%	0.5
			5 - 6%	0.7
			7 - 9%	0.9
			10 - 14%	1
			15 - 20%	1
			> 20%	1

Summer [Trigger: Presence of mesic forbs required]	Forage (70%)	Forb Species Richness (23.3%)	< 2 species	0
				0
			2 species	0.4
				0.4
			3 species	0.6
				0.5
			4 species	0.75
				0.6
			5 species	0.85
				0.65
			6 species	0.95
				0.7
			7 species	1
				0.8
			8 species	1
				0.85
			9 species	1
				0.9
			10 species	1
				0.95
			≥ 11 species	1
				1
		Forb Cover that is Noxious Weeds (23.3%)	0	1
			50	0.5
			100	0
Winter [Trigger: ≥ 5% sagebrush canopy cover required]			Slope < 5%	Slope < 5%
			Slope > 5%	Slope > 5%
		Sagebrush Height (50%)	0 - 9 cm	0
				0
			10 - 20 cm	0.5
				0.5
			20 - 30 cm	0.5
				1
			> 30 cm	1
				1
		Sagebrush Canopy Cover (15%)	< 5%	0
			5 - 15%	0.5
			15 - 20%	0.5
			> 20%	1

Wyoming 4th Order Vegetation Attributes

Seasonal Habitat Type	Attribute Category (Weight)	Vegetation Attribute (Weight)	Categories	Functionality Score
Breeding [Trigger: ≥ 5% sagebrush canopy cover required]	Cover / Refugia (66.7%)	Sagebrush Height (10%)	< 5 cm	0
			5 - 10 cm	0
			10 - 15 cm	0.33
			15 - 20 cm	0.66
			20 - 45 cm	1
			45 - 50 cm	0.6
			50 - 55 cm	0.2
			55 - 60 cm	0.15
			60 - 65 cm	0.1
			65 - 70 cm	0.05
			> 70 cm	0
		Sagebrush Canopy Cover (25%)	< 5%	0
			5 - 10%	0.33
			10 - 15%	0.66
			15 - 45%	1
			45 - 50%	0.8
			50 - 55%	0.6
			55 - 60%	0.4
			60 - 65%	0.2
			65 - 70%	0.1
			70 - 75%	0.05
			> 75%	0
		Grass Canopy Cover (16.68%)	0%	0
			1%	0.125
			2%	0.25
			3%	0.375
			4%	0.5
			5%	0.625
			6%	0.75
			7%	0.875
			8%	1
			> 9%	1
		Grass Height (16.68%)	< 5 cm	0
			6 cm	0.14
			7 cm	0.28
			8 cm	0.42
			9 cm	0.56
			10 cm	0.7
			11 cm	0.84
			12 cm	0.98
			13 cm	1
			> 13 cm	1
	Forage (33.3%)	Forb Cover (16.7%)	0%	0
			< 5%	0.5
			5%	1
			> 6%	1
		Forb Cover that is Noxious Weeds (16.7%)	0	1
			50	0.5
			100	0
Summer [Trigger: Presence of facultative forbs required]	Cover / Refugia (33.3%)	Grass Canopy Cover (33.3%)	0%	0
			1%	0.07
			2%	0.14
			3%	0.21
			4%	0.28
			5%	0.35
			6%	0.42
			7%	0.49
			8%	0.56
			9%	0.63
			10%	0.7
			11%	0.77
			12%	0.84
			13%	0.91
			14%	0.98
			15%	1
			>16%	1
			< 5%	0
			6%	0.09
			7%	0.18
			8%	0.27
			9%	0.36

	Forage (66.7%)	Forb Cover (33.4%)	10%	0.45
			11%	0.54
			12%	0.63
			13%	0.72
			14%	0.81
			15%	0.9
			16%	1
			> 16%	1
		Forb Cover that is Noxious Weeds (33.4%)	0	1
			50	0.5
			100	0

Winter [Trigger: ≥ 5% sagebrush canopy cover required]			Slope < 5%
			Slope > 5%
	Sagebrush Height (50%)	< 5 cm	0
			0
		5 - 10 cm	0
			0.2
		10 - 15 cm	0.33
			0.4
		15 - 20 cm	0.66
			0.6
		20 - 25 cm	0.99
		0.8	
	25 - 30 cm	1	
		1	
	> 30cm	1	
		1	
	Sagebrush Canopy Cover (15%)	< 5%	0
		5 - 10%	0.5
		10 - 15%	1
		> 15%	1

Nevada 4th Order Vegetation Attributes

Seasonal Habitat Type	Attribute Category (Weight)	Vegetation Attribute (Weight)	Categories	Functionality Score		
				Arid		
				Mesic Shrub		
				Meadow		
Breeding [Trigger: Combined perennial grass canopy cover and total shrub cover must exceed 30%]	Cover / Refugia (50%)	Sagebrush Canopy Cover (20%)	< 10%	0		
			10 - < 12%	0.3		
			12 - < 14%	0.55		
			14 - < 16%	0.75		
			16 - < 18%	0.85		
			18 - < 20%	0.93		
			≥ 20%	1		
		Total Shrub Canopy Cover - Including Sagebrush (25%)	< 10%	0		
			10 - < 14%	0.3		
			14 - < 20%	0.55		
			20 - < 25%	0.75		
			25 - < 30%	0.85		
			30 - < 35%	0.93		
			≥ 35%	1		
	Forage (50%)	Perennial Forb Canopy Cover (25%)	< 2%	0		
				0		
				0		
			2 - < 3%	0.4		
				0.2		
				0.2		
			3 - < 4%	0.7		
				0.2		
				0.2		
			4 - < 5%	0.9		
				0.4		
				0.4		
			5 - < 6%	1		
				0.4		
				0.4		
			6 - < 8%	1		
				0.55		
				0.55		
			8 - < 10%	1		
				0.7		
				0.7		
			10 - < 12%	1		
				0.79		
				0.79		
			12 - < 14%	1		
				0.86		
				0.86		
			14 - < 16%	1		
				0.93		
				0.93		
			≥ 16%	1		
				1		
				1		
		Forb Species Richness (25%)	< 1 Species	0		
				0		
				0		
			1 - < 2 Species	0.3		
				0		
				0		
			2 - < 3 Species	0.6		
				0.25		
				0.25		
			3 - < 4 Species	0.75		
				0.45		
				0.45		
			4 - < 5 Species	0.9		
				0.65		
				0.65		
			5 - < 6 Species	1		
				0.8		
				0.8		
			6 - < 7 Species	1		
				0.92		
				0.92		

			≥ 7 Species	1
				1
				1
			< 3%	0.25
				0.25
				0
			3 - < 5%	0.45
				0.25
				0
			5 - < 6%	0.45
				0.45
				0
			6 - < 9%	0.64
				0.45
				0
			9 - < 10%	0.78
				0.45
				0
			10 - < 12%	0.78
				0.64
				0
			12 - < 15%	0.92
				0.64
				0
			15 - < 20%	1
				0.78
				0
			20 - < 25%	1
				0.92
				0
			25 - < 30%	1
				1
				0.23
			30 - < 35%	1
				1
				0.42
			35 - < 40%	1
				1
				0.58
			40 - < 45%	1
				1
				0.7
			45 - < 50%	1
				1
				0.82
			50 - < 55%	1
				1
				0.94
			≥ 55%	1
				1
				1
			< 2%	0
				0
				0
			2 - < 3%	0.34
				0.25
				0
			3 - < 4%	0.62
				0.25
				0
			4 - < 5%	0.84
				0.45
				0
			5 - < 6%	1
				0.45
				0.25
			6 - < 8%	1
				0.64
				0.25
			8 - < 10%	1
				0.78
				0.45
			10 - < 12%	1
				0.9
				0.64
			12 - < 14%	1
				1
				0.64

	Forage (75%)		14 - < 16%	1
				1
				0.78
			16 - < 20%	1
				1
				0.9
			≥ 20%	1
				1
				1
		Forb Species Richness (37.5%)	< 1 Species	0
				0
				0
			1 - < 2 Species	0.3
				0
				0
			2 - < 3 Species	0.6
				0.25
				0.25
			3 - < 4 Species	0.75
				0.45
				0.45
			4 - < 5 Species	0.9
				0.65
				0.65
			5 - < 6 Species	1
				0.78
				0.78
			6 - < 7 Species	1
				0.92
				0.92
			≥ 7 Species	1
				1
				1
Winter [Trigger: ≥ 5% sagebrush canopy cover required]				Big Sagebrush
				Low/Black Sagebrush
		Sagebrush Height (50%)	< 15 cm	0
				0
			15 - < 17 cm	0
				0.25
			17 - < 19 cm	0
				0.45
			19 - < 21 cm	0
				0.6
			21 - < 23 cm	0
				0.75
			23 - < 25 cm	0
				0.9
			25 - < 30 cm	0.2
				1
			30 - < 35 cm	0.4
				1
			35 - < 40 cm	0.55
				1
			40 - < 45 cm	0.62
				1
			45 - < 50 cm	0.68
				1
			50 - < 55 cm	0.84
				1
			55 - < 60 cm	0.92
				1
			≥ 60 cm	1
				1
		Sagebrush Canopy Cover (15%)	< 10%	0
				0
			10 - < 11%	0.3
				0.3
			11 - < 12 %	0.3
				0.55
			12 - < 13%	0.55
				0.75
			13 - < 14%	0.55
				0.88
			14 - < 15%	0.75
				0.95
			15 - < 16%	0.75
				1
			16 - < 18%	0.88
				1

		18 - < 20%	0.95
			1
		≥ 20%	1
			1

4th Order (Site-scale) Modifiers

		Colorado	Wyoming	Nevada	Oregon
Habitat Feature (Habitat Type Modifier to which Applied)	Categories	Modifier	Modifier	Modifier	Modifier
Percent Cover of Invasive Grasses (Breeding and Summer/Late Brood-Rearing)	0 - 1%	1	1	1	
	1 - 5%	0.8	1	1	
	5 - 10%	0.5	1	0.8	
	10 - 15%	0.1	0.8	0.6	
	15 - 20%	0	0.8	0.45	
	20 - 25%	0	0.6	0.25	
	25 - 30%	0	0.6	0.15	
	30 - 40%	0	0.4	0	
	40 - 50%	0	0.2	0	
	> 50%	0	0	0	
Conifer Cover within 1km Radius of Map Unit (All seasonal habitat types)	0 - 1%	1	1		
	> 1 - 2%	0.85	0.85		
	> 2 - 3%	0.75	0.75		
	> 3 - 4%	0.65	0.65		
	> 4 - 7%	0.4	0.4		
	> 7 - 10%	0.2	0.2		
	> 10%	0	0		
Sagebrush Shape (Breeding Habitat)	< 50% Sagebrush is Columnar	1			
	> 50% Sagebrush is Columnar	0.5			
Distance to Known Lek (Breeding Habitat)	0 - 6 km	*	*	1	
	6 - 7 km	*	*	0.8	
	7 - 8 km	*	*	0.6	
	8 - 9 km	*	*	0.4	
	9 - 10 km	*	*	0.3	
	> 10 km	*	*	0.25	
Distance to ≥ 10% Sagebrush Canopy Cover - 30cm height, 30m x 30m area (Late Brood-Rearing Habitat)	< 60 m	**	**	1	
	60 - < 100 m	**	**	0.9	
	100 - < 140 m	**	**	0.75	
	140 - < 180 m	**	**	0.55	
	180 - < 220 m	**	**	0.35	
	220 - < 260 m	**	**	0.2	
	260 - < 300 M	**	**	0.1	
	≥ 300 m	**	**	0	

NOTES:

The modifier for sagebrush shape is applied to the value/score for sagebrush height used to determine the 4th order site vegetation condition.

* Colorado and Wyoming use distance to known lek as a 3rd order modifier.

** Colorado and Wyoming use distance to sagebrush cover (with different parameters) as a 3rd order modifier.

Distance-Decay Curves for Anthropogenic Disturbances

Disturbance Type	Subtype	Colorado		Wyoming		Nevada		Oregon	
		Weight (%)	Distance (km)	Weight (%)	Distance (km)	Weight (%)	Distance (km)	Weight (%)	Distance (km)
Oil & Gas Wells	Producing	100	2.1	100	2.1	100	3		
	Non-producing	10	0	10	0	0	0		
Towers	Meteorological	50	0	50	0	25	6		
	Communication	50	0	50	0	25	6		
Transmission Lines		100	3	100	3	25	6		
Mines ¹	Active - Large	100	2.1	100	2.1	100	6		
	Active - Med or Small	100	0	100	0	100	3		
	Inactive - Large	50	0	50	0	50	1		
	Inactive - Med or Small	10	0	10	0	10	1		
Agriculture	Tilled	100	0	100	0	—	—		
	Untilled	85*	0	85*	0	—	—		
Urban Development ²	Med - High	100	4.2	100	4.2	100	6		
	Low	75	1.5	75	1.5	75	3		
Roads	Interstate (/4-lane)	100	4.2	100	4.2	100	6		
	State Highway, 2-lane Paved, & High-use Improved Gravel	50	1.5	100	4.2	100	3		
	Low-use Improved Gravel, Unpaved, & Dirt	50	1.5	50	1.5	25	1		
Renewables	Solar	—	—	—	—	25	1		
	Geothermal	—	—	—	—	100	6		
	Wind	100	3	100	3	25	6		

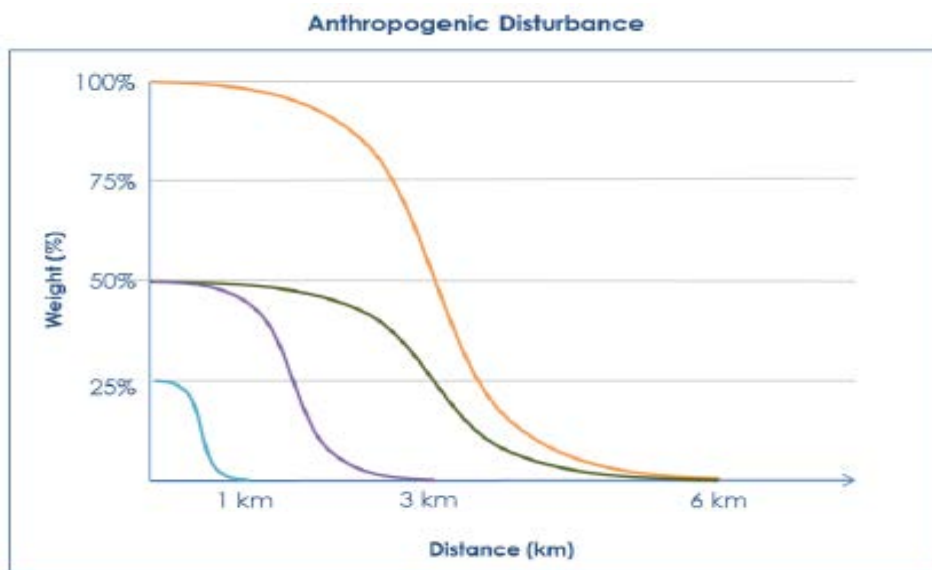
NOTES:

Nevada uses Anthropogenic Disturbance as a factor of determining 3rd Order (Local-Scale) Habitat Function

* Note that these results do not reflect distances for siting anthropogenic features around leks, but rather represent spatial impacts of these features on a variety of components of GRSG ecology on the general landscape.

¹ The Nevada CCS Manual defines large mines as ≥ 60 acres and medium or small mines as < 60 acres.

² In Nevada, the urban development disturbance type includes suburban and ex-urban development.



Example of potential Distance-Decay curves
(From Nevada CCS HQT Version 1.0, December 2014)

3rd Order (Local-scale) Modifiers

		Colorado	Wyoming	Nevada	Oregon
Habitat Feature (Habitat Type Modifier to which Applied)	Categories	Modifier	Modifier	Modifier	Modifier
Distance to Known Lek (Breeding habitat)	0 - 6 km	1	1	1	
	6 - 7 km	0.5	0.5	0.8	
	7 - 8 km	0.4	0.4	0.6	
	8 - 9 km	0.3	0.3	0.4	
	9 - 10 km	0.2	0.2	0.3	
	> 10 km	0.1	0.1	0.25	
Distance to ≥ 5% Sagebrush Canopy Cover (Summer Habitat)	0 - 60 m	1	1	**	
	60 - 300 m	1	0.15	**	
	> 300 m	0	0.15	**	
Distance to Late Brood-Rearing Habitat (Breeding Habitat)	< 3 km			1	
	3 - < 4 km			0.8	
	4 - < 5 km			0.6	
	5 - < 6 km			0.4	
	≥ 6 km			0.25	

NOTES:

In Colorado and Wyoming the modifiers are applied to the site-scale functionality as determined by vegetation attributes.

In Nevada the 3rd order modifiers are applied to a Habitat Suitability Index score (1.5 standard deviations above mean HSI value = 1, 1.5 standard deviations below mean HSI value = 0.25). The HSI score combined with the 3rd order modifiers results in a 3rd Order Function.

* Wyoming uses nearby conifer cover as a 4th order modifier.

** Nevada uses distance to sagebrush cover (with different parameters) as a 4th order modifier.

2nd Order (Landscape-scale) Modifier: Landscape Disturbance Index

		Colorado	Wyoming	Nevada	Oregon
Habitat Type	Proportion of Area Categories	Modifier	Modifier	Modifer	Modifier

NOTES:

Greater Sage-Grouse Habitat Quantification Tool: A Multi-Scaled Approach for Assessing Impacts and Benefits to Greater Sage-Grouse Habitat Scientific Methods Document	(Colorado Habitat Exchange HQT)	5
<hr/>		
Greater Sage-Grouse Habitat Quantification Tool: A Multi-Scaled Approach for Assessing Impacts and Benefits to Greater Sage-Grouse Habitat Scientific Methods Document	(Wyoming Conservation Exchange HQT)	3
<hr/>		
Habitat Quantification Tool (HQT) Scientific Methods Document	(Nevada Conservation Credit System HQT)	1
