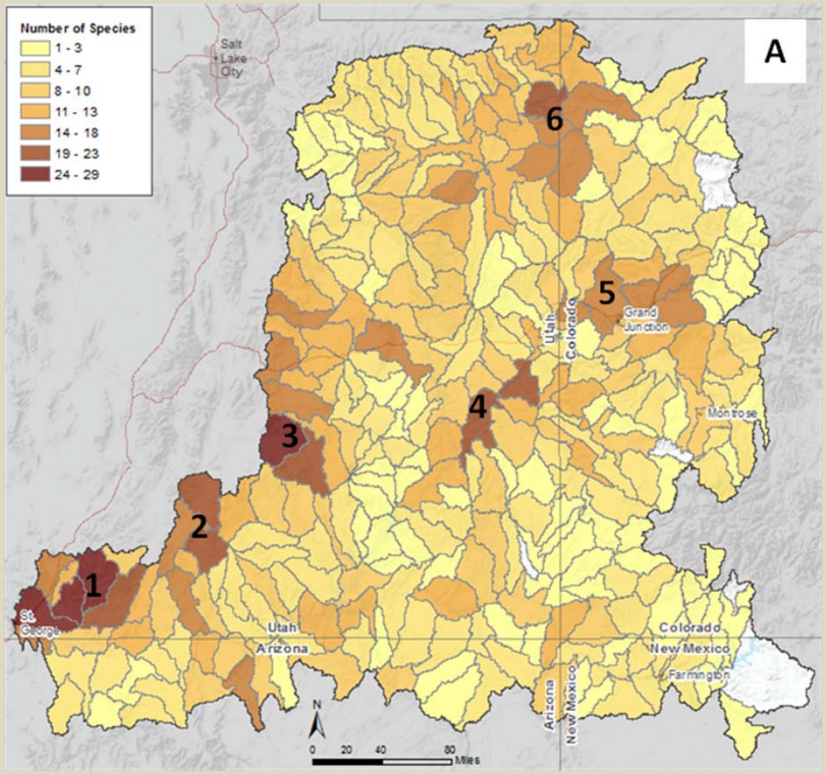
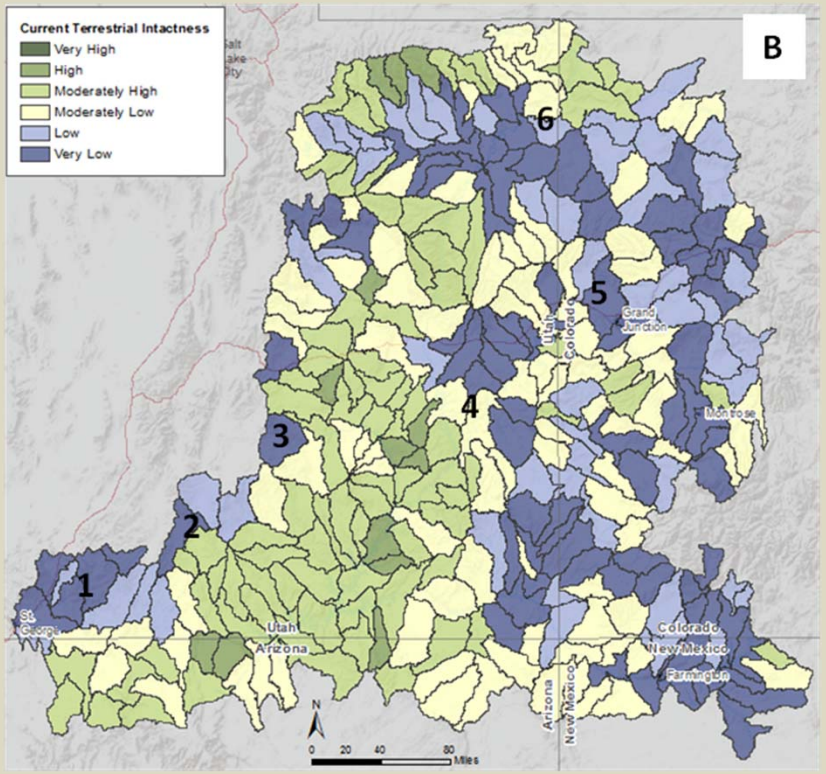
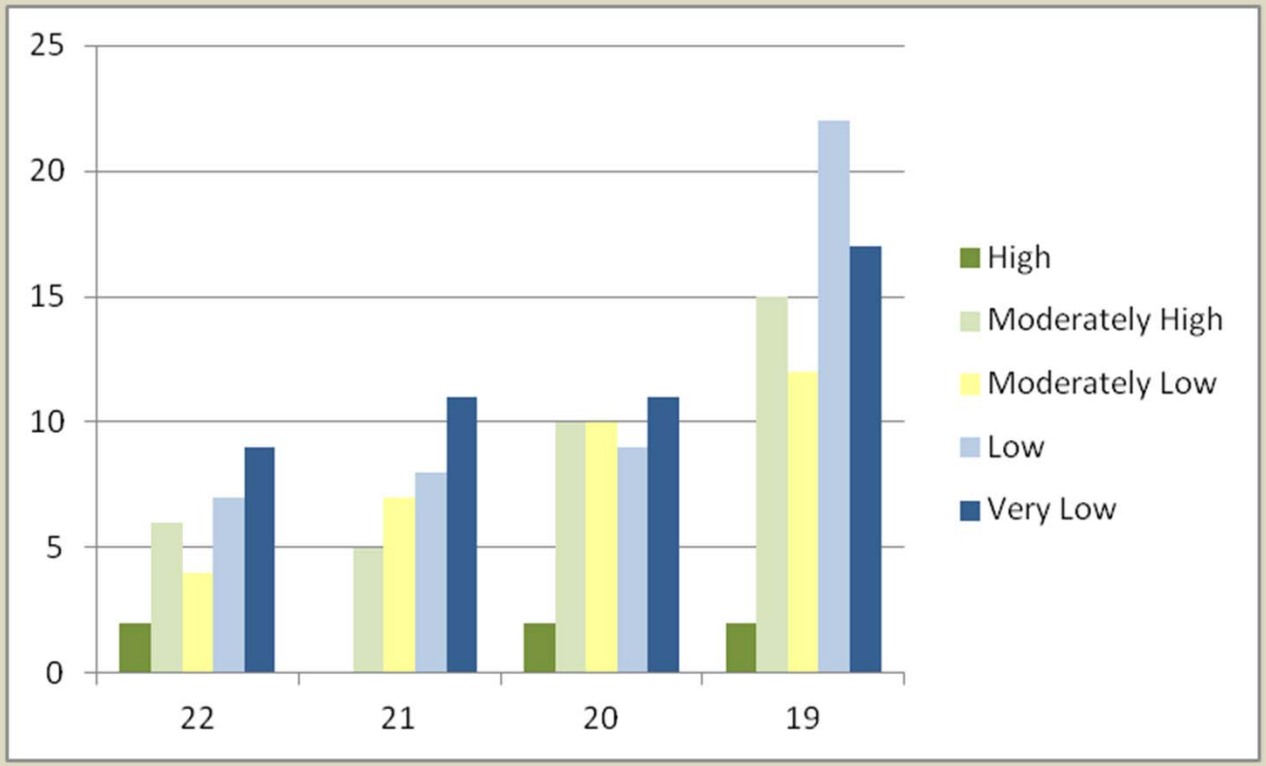
Concentration of Conservation Elements and Intactness

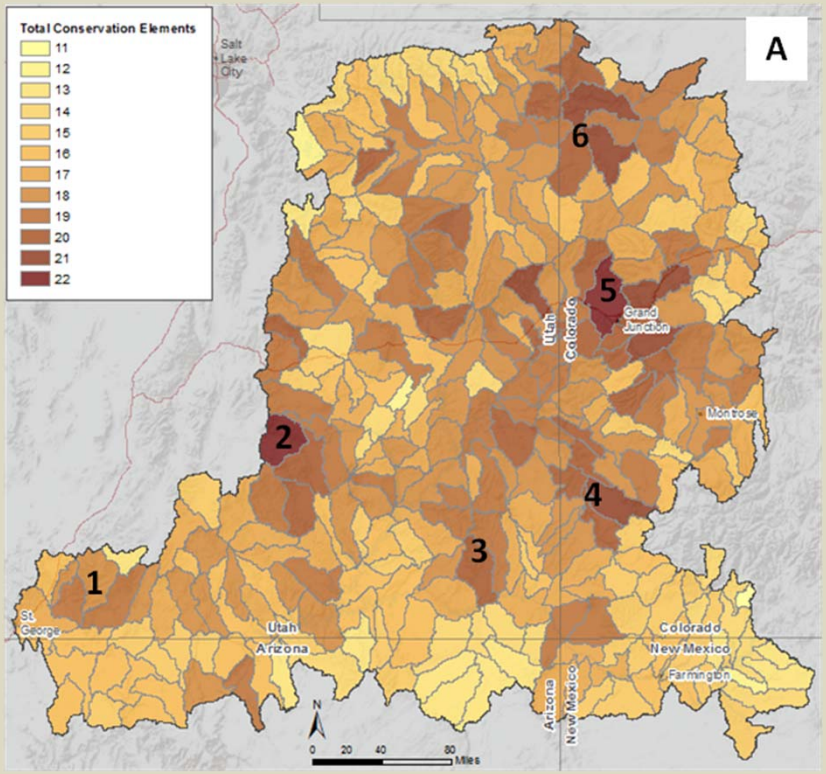


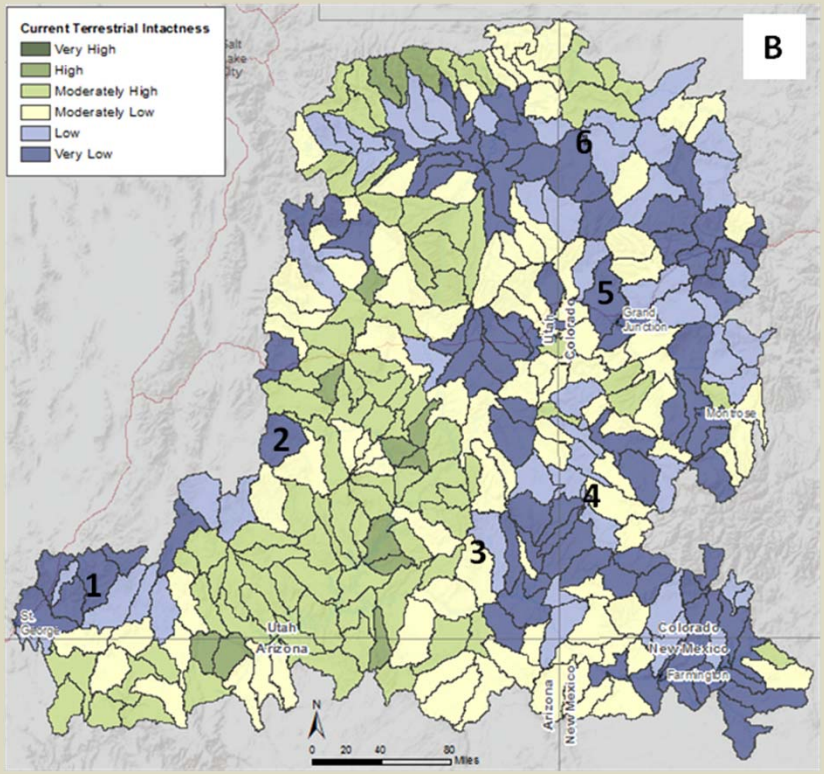


Concentration of Conservation Elements and Intactness

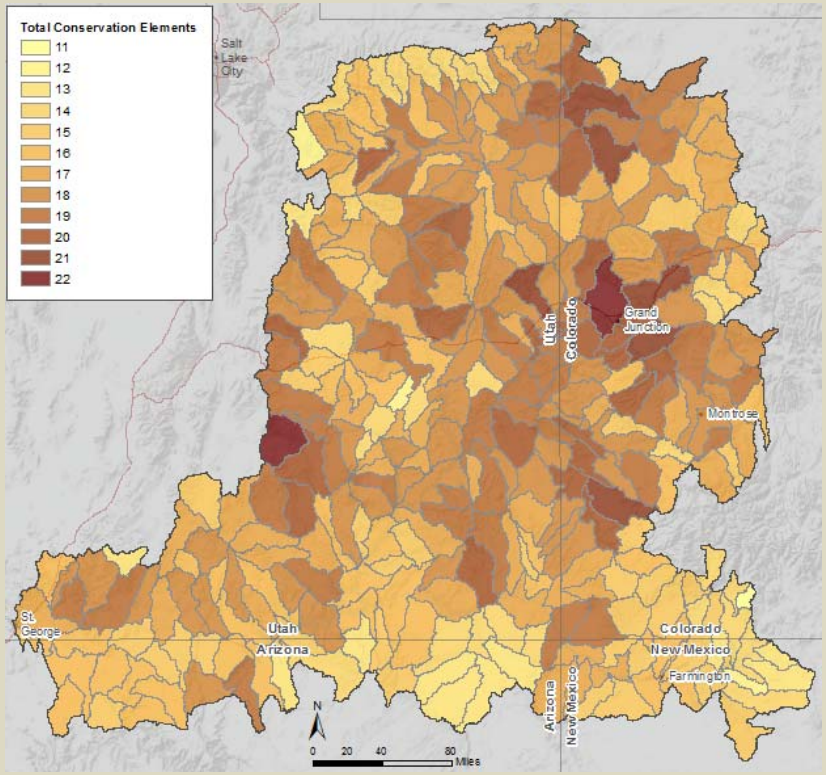


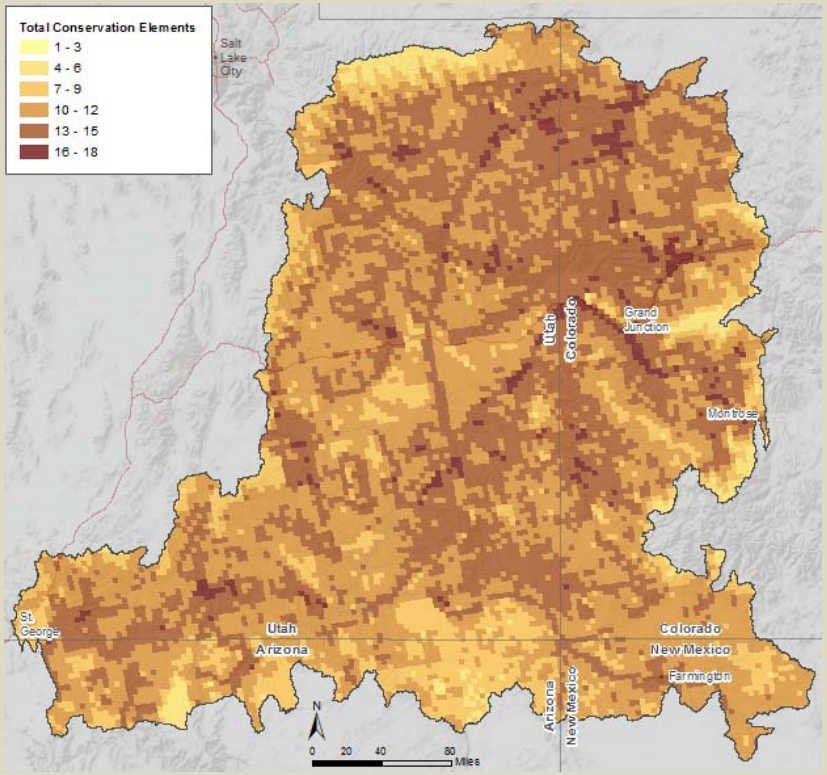
Concentration of Conservation Elements and Intactness



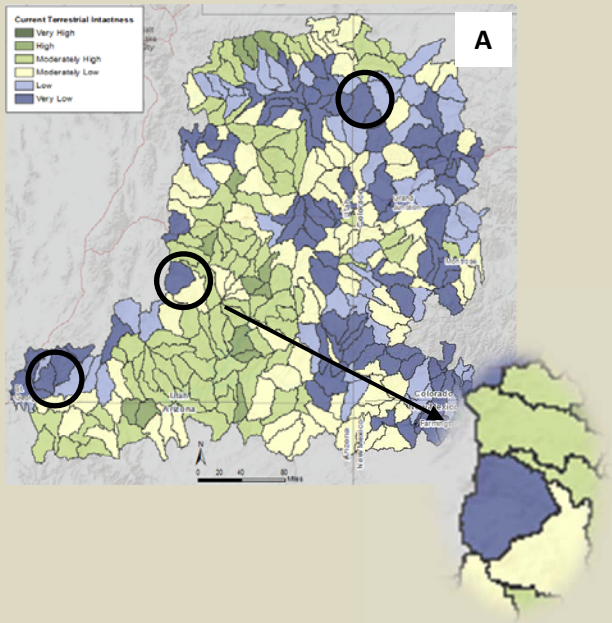


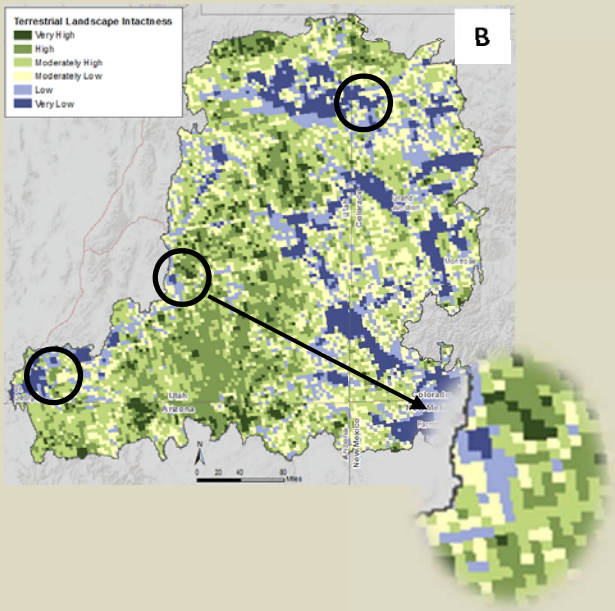
Concentration of Conservation Elements and Intactness

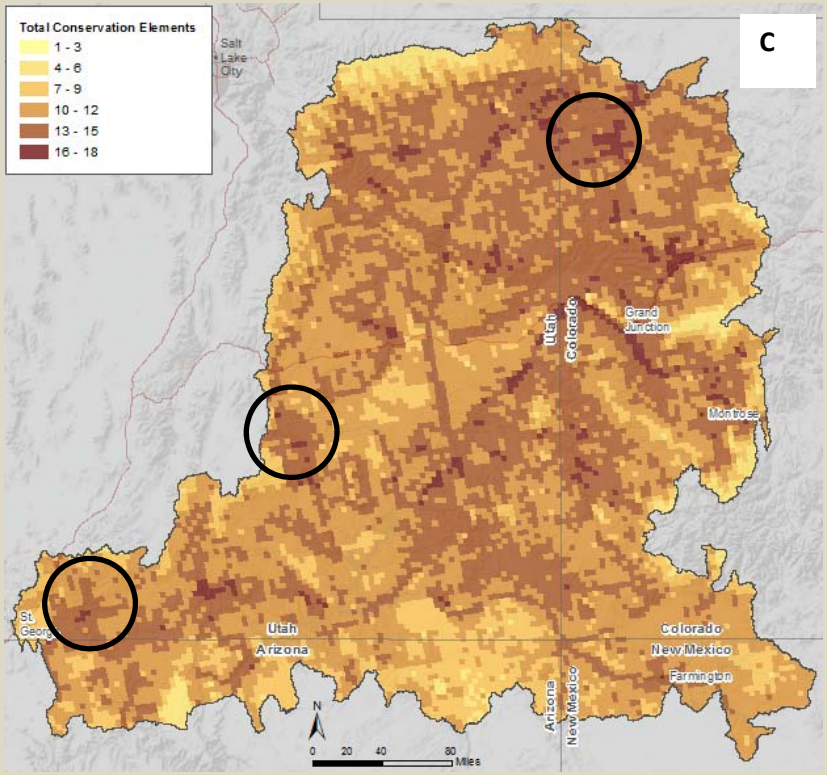




Concentration of Conservation Elements and Intactness



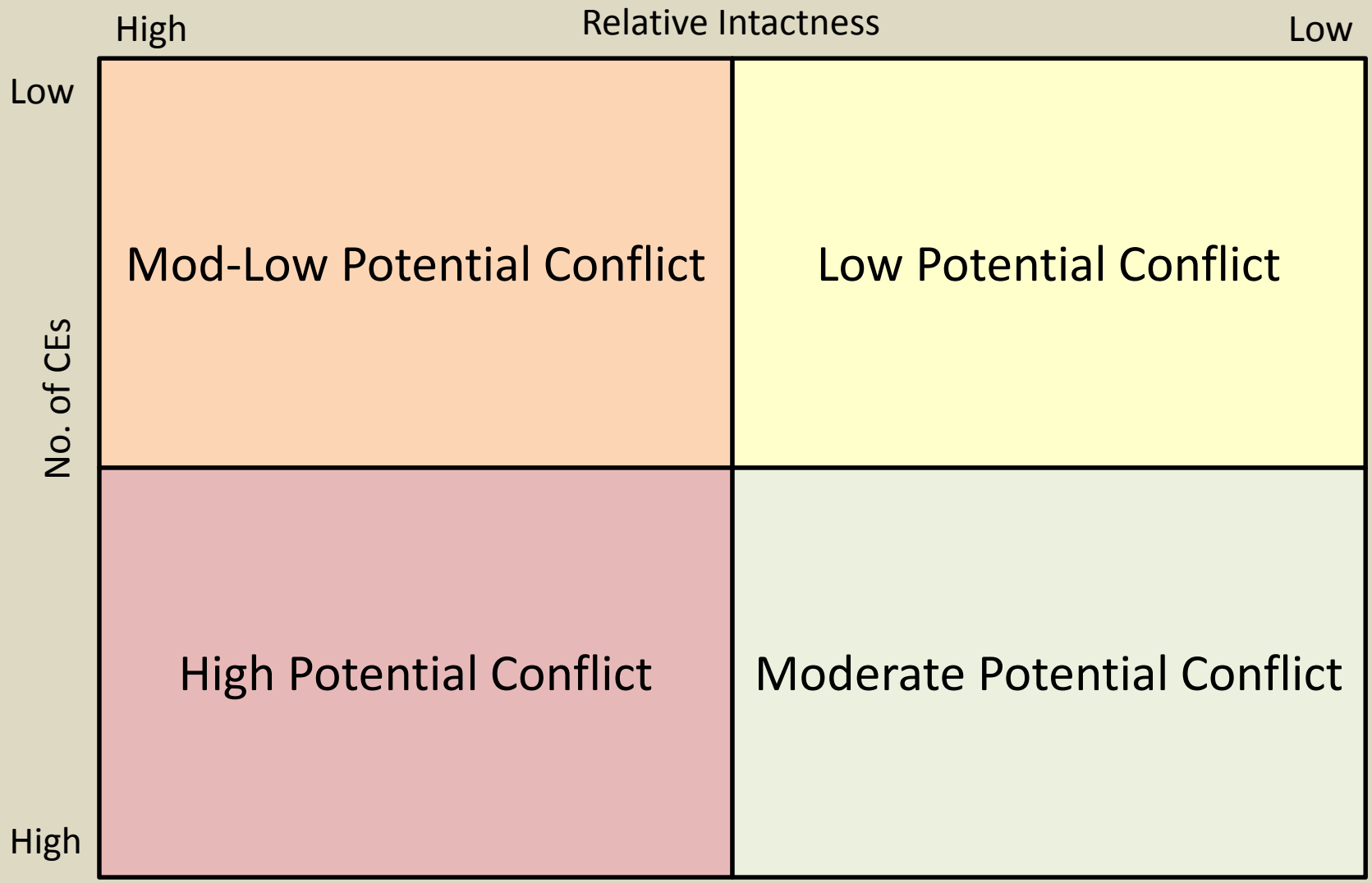




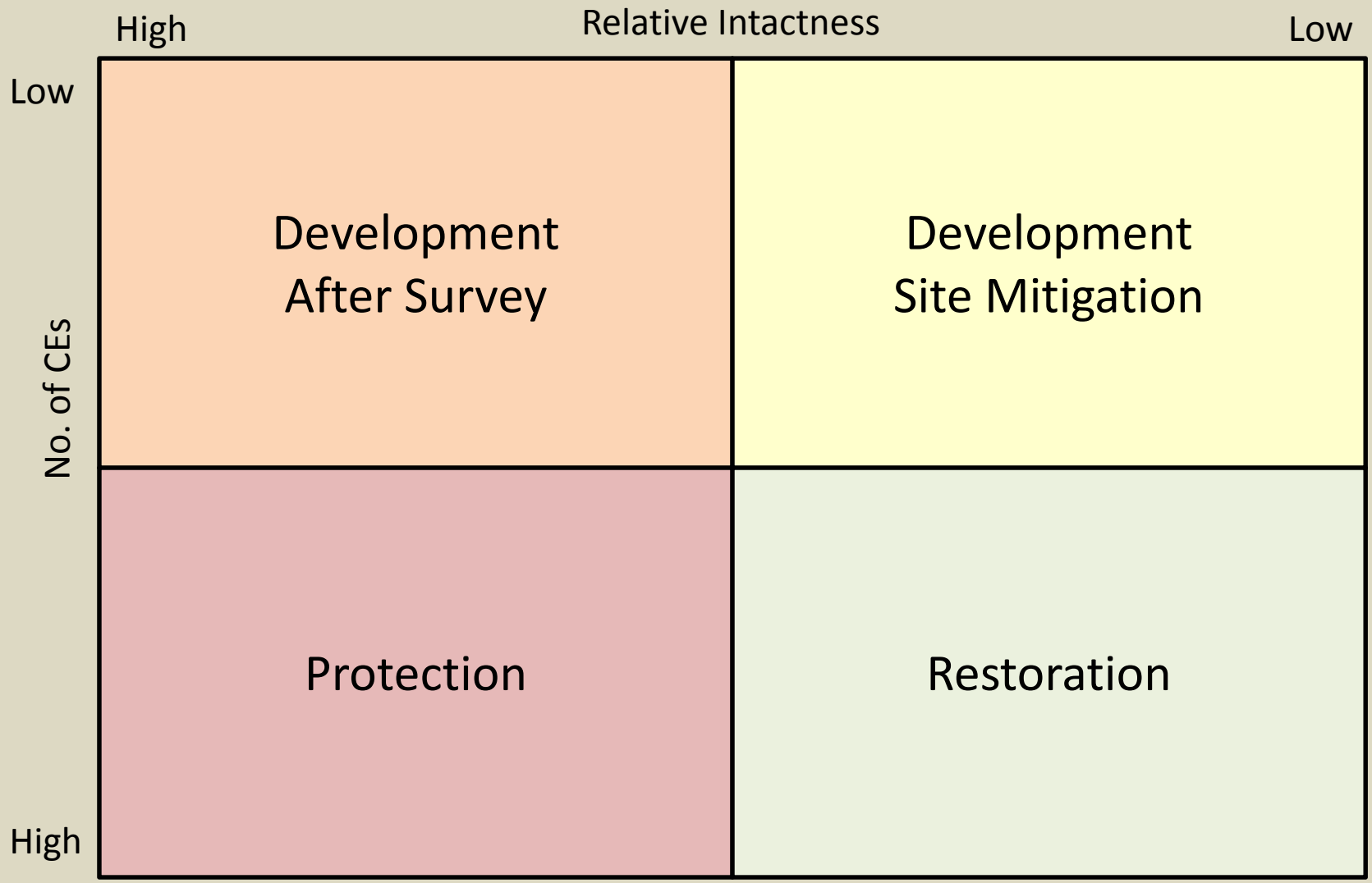
Concentration of Conservation Elements and Intactness

No. of CEs	Very High	High	Moderately High	Moderately Low	Low	Very Low
0						
1	9.18%			6.65%		
2		325				
3	2	1,044		39	867	15
4	308	2,634	197	1,082	1,244	18
5	41,932	78,555	101,008	95,350	50,978	3,954
6	72,732	188,071	233,112	130,455	67,398	1,902
7	75,490	173,751	462,173	310,476	202,505	32,823
8	82,251	264,931	659,448	455,730	243,903	68,004
9	207,748	461,112	1,008,241	694,964	485,681	130,156
10	179,732	841,176	1,536,486	1,116,386	772,118	361,426
11	218,433	1,147,886	1,863,389	1,326,415	1,068,169	787,067
12	262,209	1,620,275	2,485,117	1,774,932	1,256,474	1,212,609
13	268,180	1,503,916	2,546,286	1,851,837	1,186,985	1,184,497
14	170,005	905,374	1,730,262	1,220,270	924,792	727,319
15	43,490	418,739	654,945	498,003	403,267	379,546
16	7,907	154,190	249,077	166,051	159,265	185,819
17	42.36% 3,954	63,258	71,165	41.81% 55,350	39,536	47,443
18		7,907	23,722	7,907	7,907	11,861
Totals	1,634,374	7,833,144	13,624,628	9,705,248	6,871,091	5,134,459

Concentration of Conservation Elements and Intactness



Concentration of Conservation Elements and Intactness



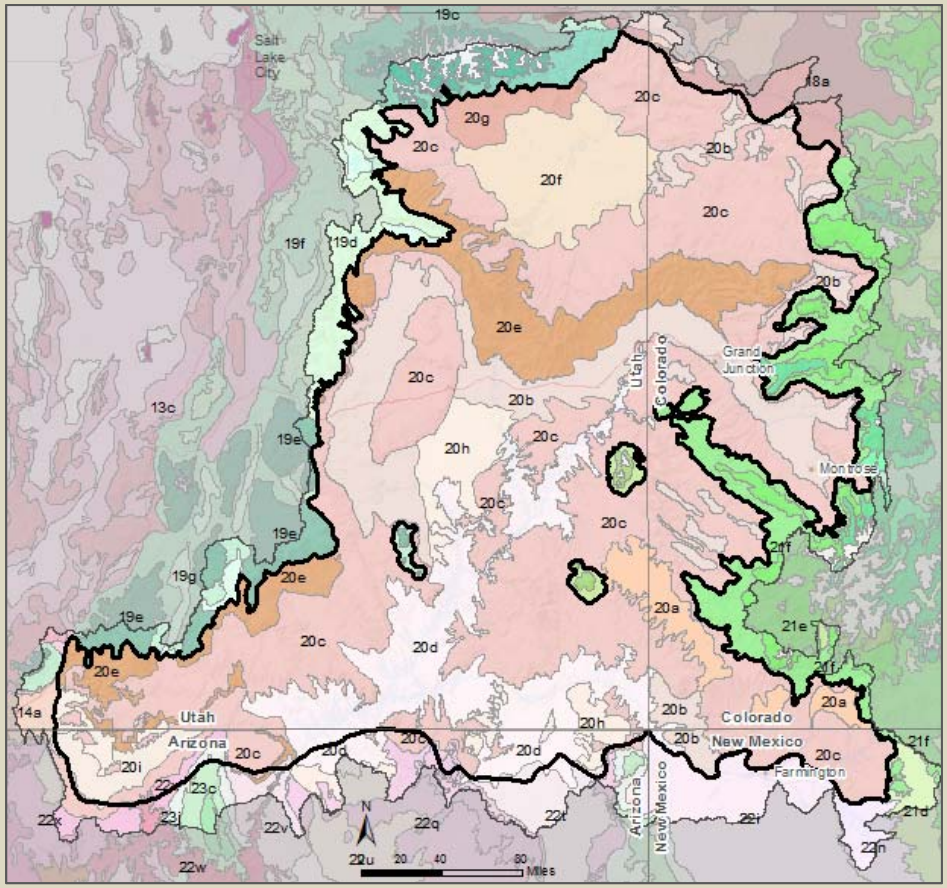
Concentration of Conservation Elements and Intactness

No. of CEs	Very High	High	Moderately High	Moderately Low	Low	Very Low
0	**31.85%**			**28.24%**		
1						
2		325				
3	2	1,044		39	867	15
4	308	2,634	197	1,082	1,244	18
5	41,932	78,555	101,008	95,350	50,978	3,954
6	72,732	188,071	233,112	130,455	67,398	1,902
7	75,490	173,751	462,173	310,476	202,505	32,823
8	82,251	264,931	659,448	455,730	243,903	68,004
9	07,748	461,112	1,008,241	694,964	485,681	130,156
10	179,732	841,176	1,536,486	1,116,386	772,118	361,426
11	218,433	1,147,886	1,863,389	1,326,415	1,068,169	787,067
12	262,209	1,620,275	2,485,117	1,774,932	1,256,474	1,212,609
13	268,180	1,503,916	2,546,286	1,851,837	1,186,985	1,184,497
14	170,005	905,374	1,730,262	1,220,270	924,792	727,319
15	43,490	418,739	654,945	498,003	403,267	379,546
16	7,907	154,190	249,077	166,051	159,265	185,819
17	**19.69%** 3,954	63,258	71,165	**20.22%** 55,350	39,536	47,443
18		7,907	23,722	7,907	7,907	11,861
Totals	1,634,374	7,833,144	13,624,628	9,705,248	6,871,091	5,134,459

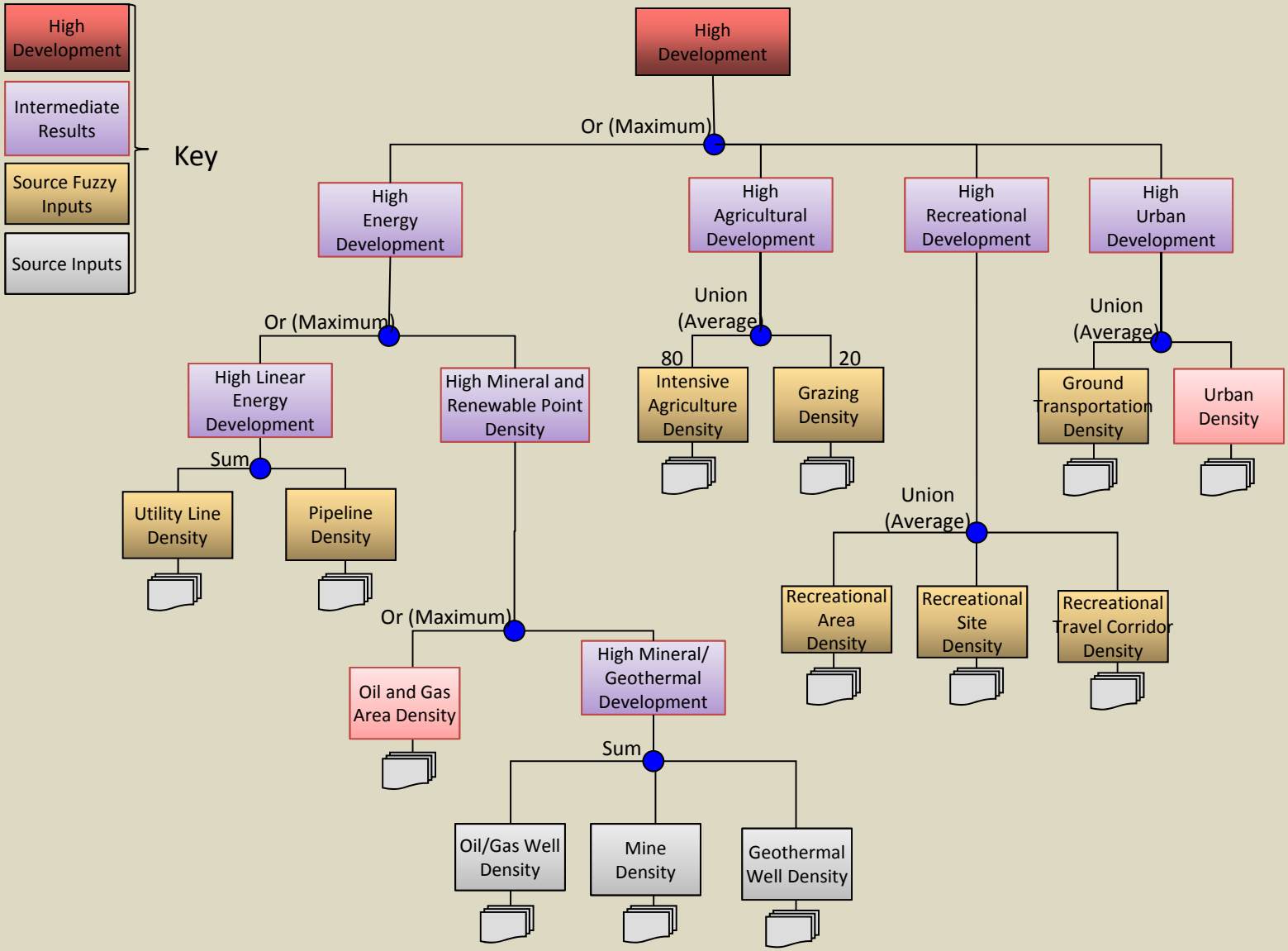
Concentration of Conservation Elements and Intactness

No. of CEs	Very High	High	Moderately High	Moderately Low	Low	Very Low
0	3.68%		9.27%		2.88%	
1						
2		325				
3	2	1,044		39	867	15
4	308	2,634	197	1,082	1,244	18
5	41,932	78,555	101,008	95,350	50,978	3,954
6	72,732	188,071	233,112	130,455	67,398	1,902
7	75,490	173,751	462,173	310,476	202,505	32,823
8	82,251	264,931	659,448	455,730	243,903	68,004
9	207,748	461,112	1,008,241	694,964	485,681	130,156
10	179,732	841,176	1,536,486	1,116,386	772,118	361,426
11	218,433	1,147,886	1,863,389	1,326,415	1,068,169	787,067
12	262,209	1,620,275	2,485,117	1,774,932	1,256,474	1,212,609
13	268,180	1,503,916	2,546,286	1,851,837	1,186,985	1,184,497
14	170,005	905,374	1,730,262	1,220,270	924,792	727,319
15	43,490	418,739	654,945	498,003	403,267	379,546
16	7,907	154,190	249,077	166,051	159,265	185,819
17	3,954	63,258	71,165	55,350	39,536	47,443
18	17.45%	7,907	42.80% 23,722	7,907	23.92% 7,907	11,861
Totals	1,634,374	7,833,144	13,624,628	9,705,248	6,871,091	5,134,459

Concentration of Conservation Elements and Intactness



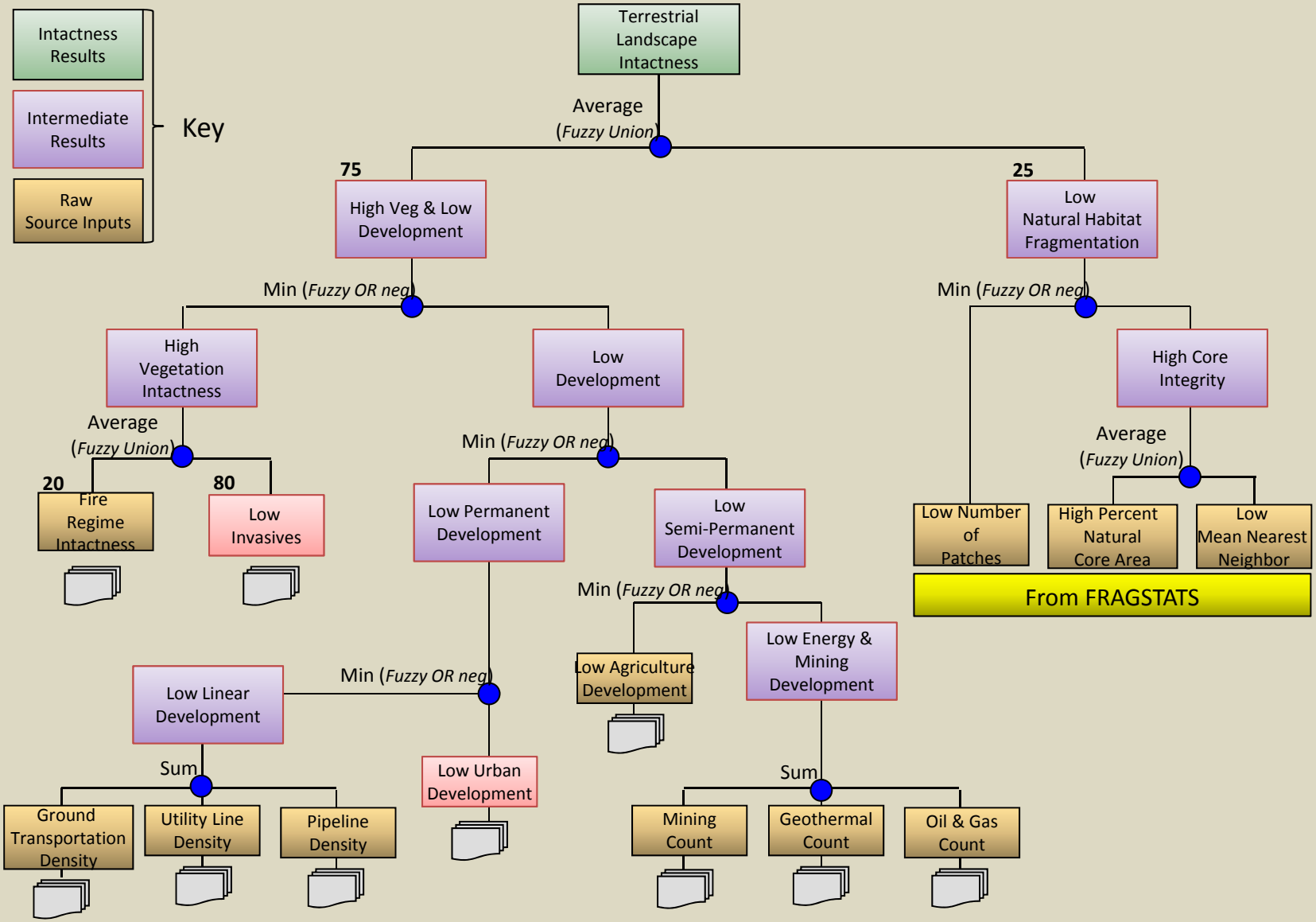
Near-term Development



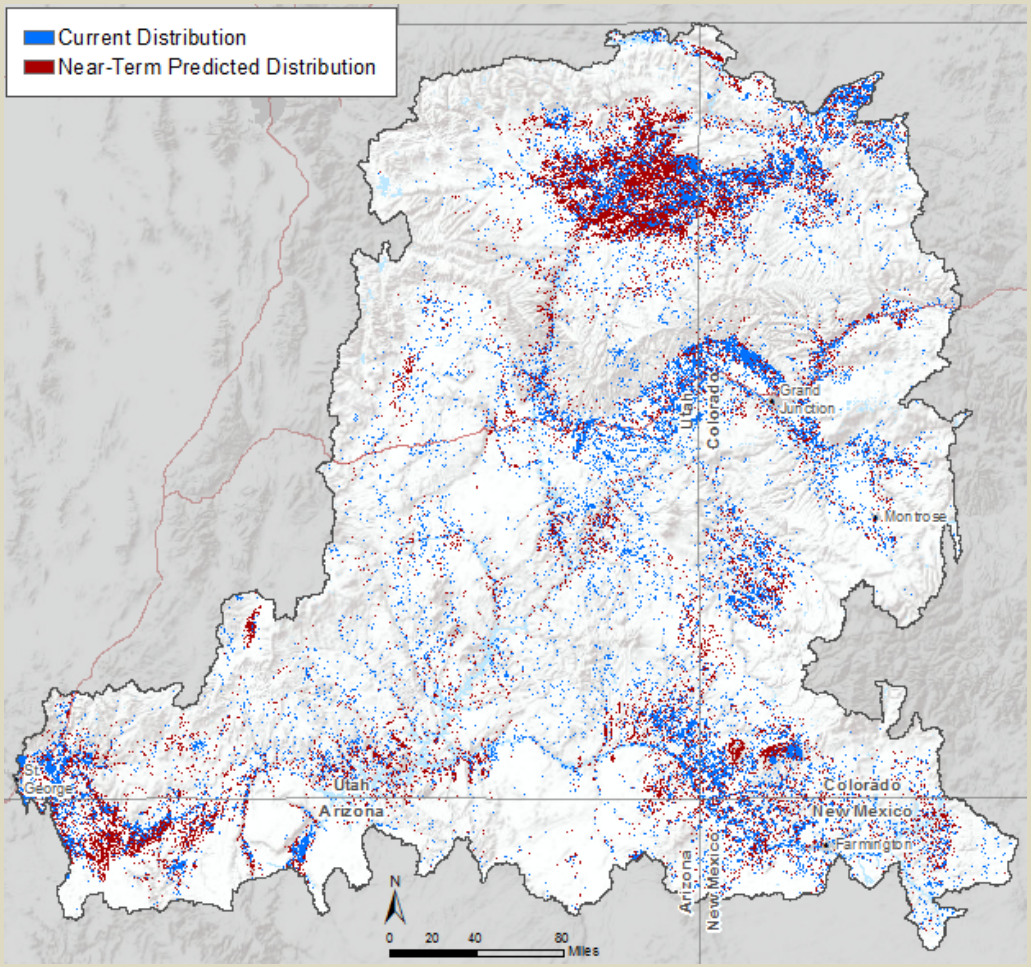
Near-term Development

Category	Current	Percent	Near-term	Percent	Change
Very High	4,778,897	10.67%	5,698,108	12.72%	**+2.05%**
High	2,269,671	5.07%	2,552,873	5.70%	**+0.63%**
Moderately High	4,740,311	10.58%	5,003,990	11.17%	**+0.59%**
Moderately Low	13,199,938	29.46%	12,313,451	27.48%	**-1.98%**
Low	16,705,942	37.29%	16,183,978	36.12%	**-1.17%**
Very Low	3,109,160	6.94%	3,051,520	6.81%	**-0.13%**

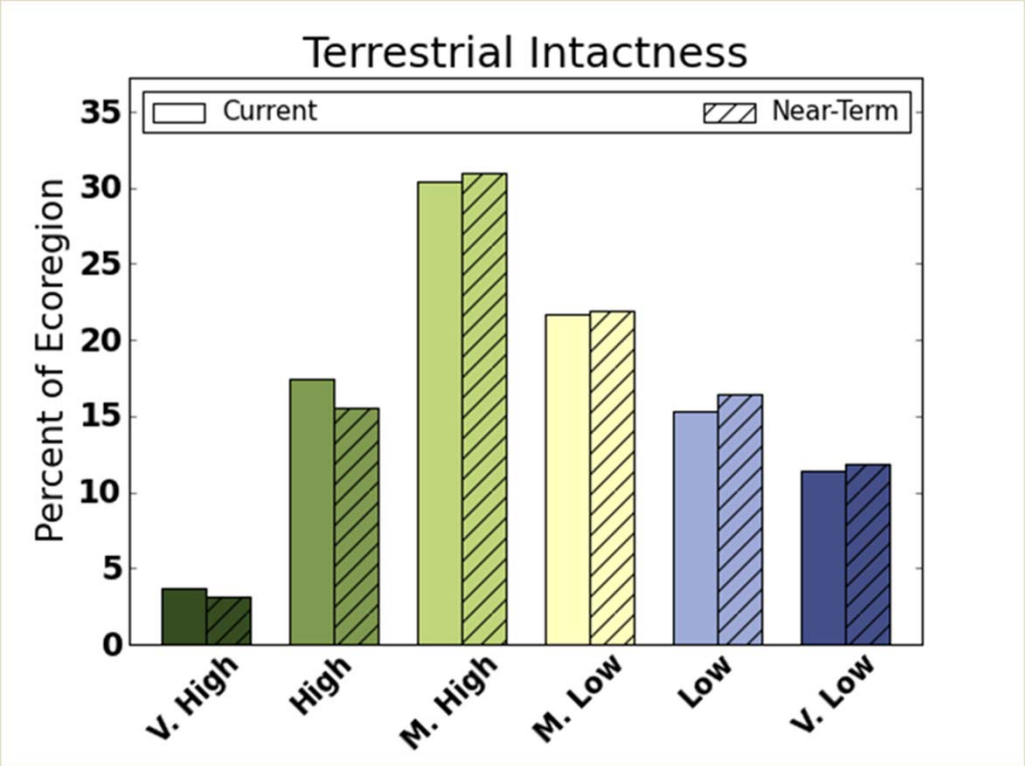
Near-term Intactness



Near-term Intactness

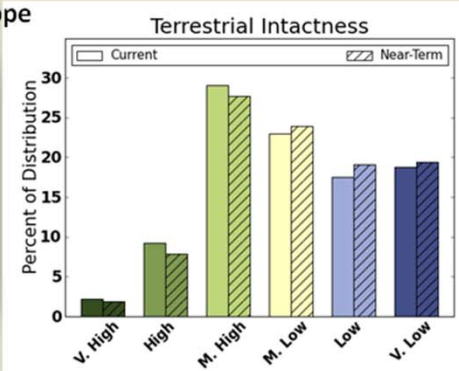


Near-term Intactness

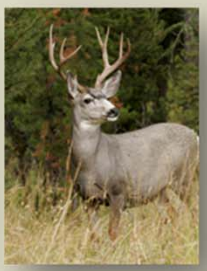


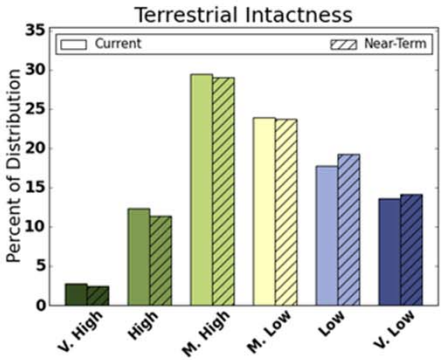
Near-term Status for Species

Pronghorn Antelope

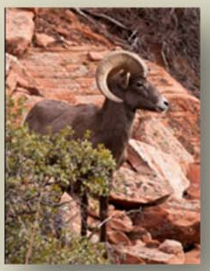


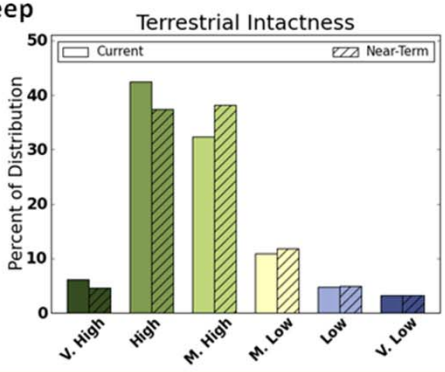
Mule Deer



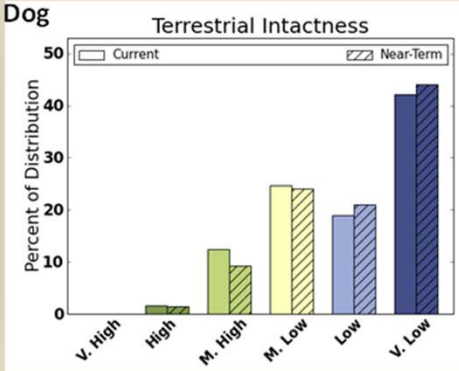


Desert Bighorn Sheep

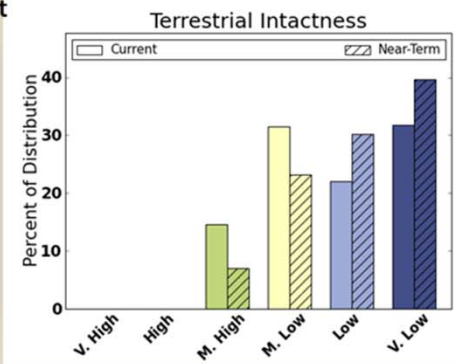




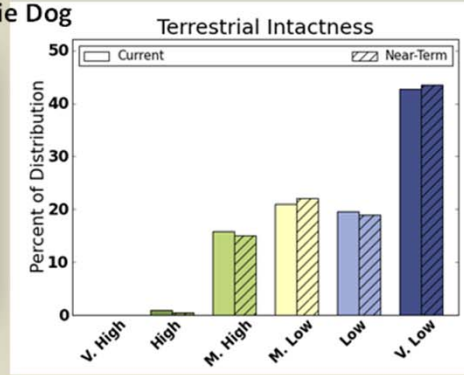
Gunnison's Prairie Dog



Black-footed Ferret



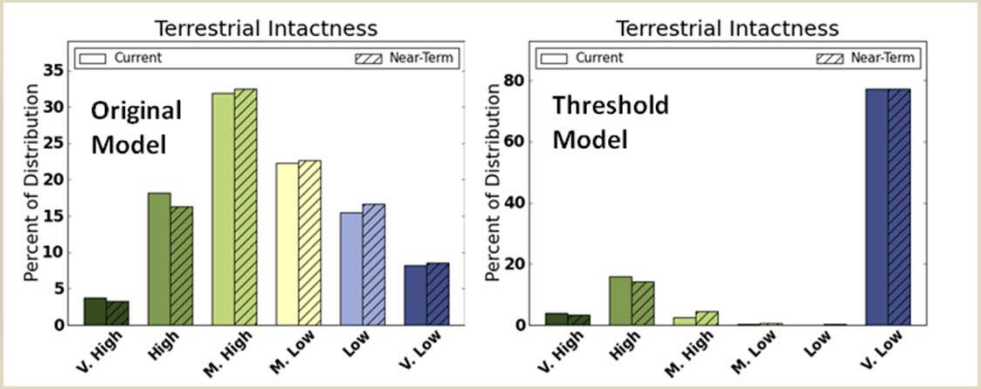
White-tailed Prairie Dog



Near-term Status for Species

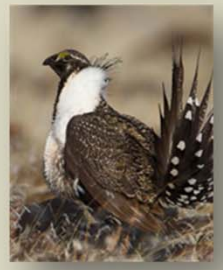
A

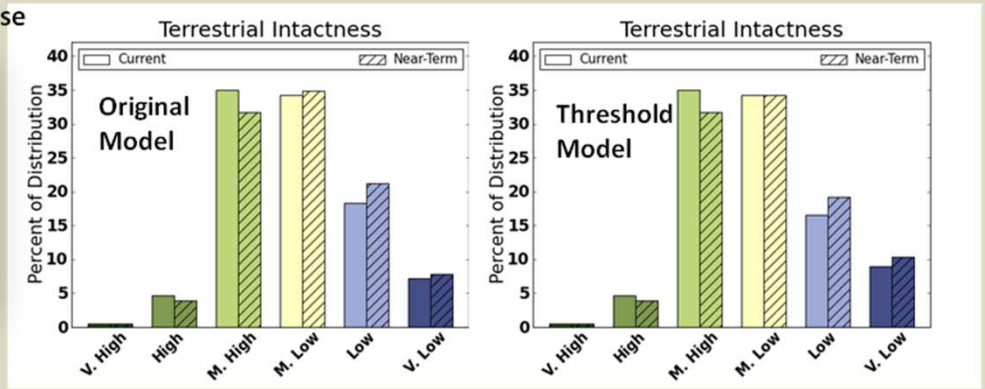
Mountain Lion



B

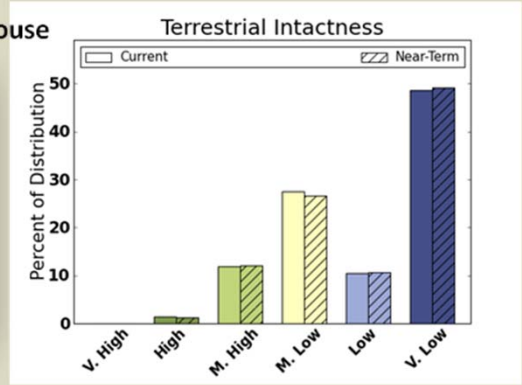
Greater Sage Grouse





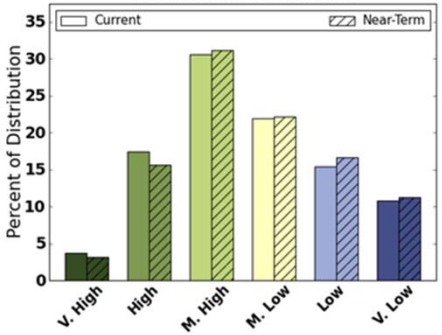
C

Gunnison Sage Grouse

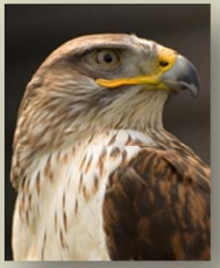


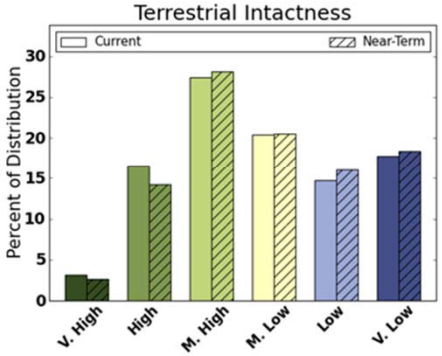
Near-term Status for Species

Golden Eagle

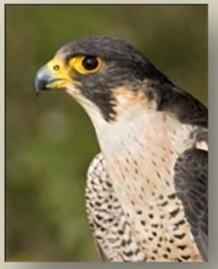


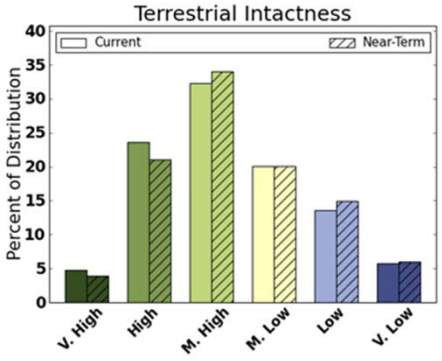
Ferruginous Hawk



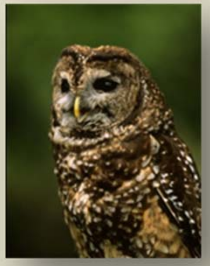


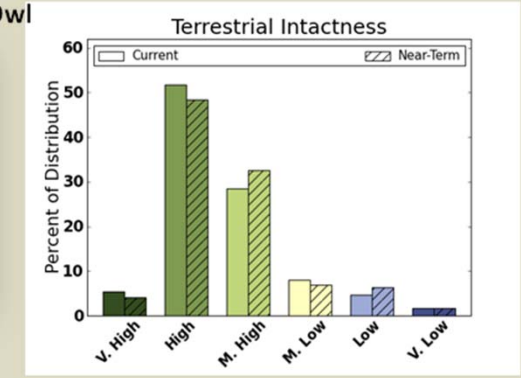
Peregrine Falcon



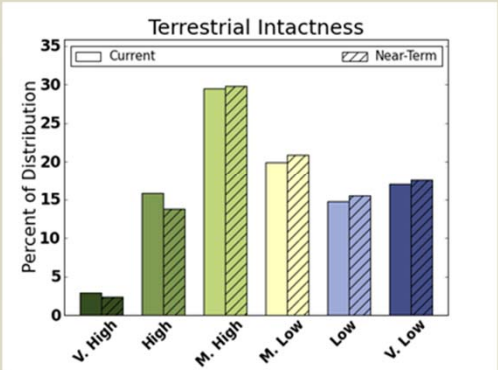


Mexican Spotted Owl

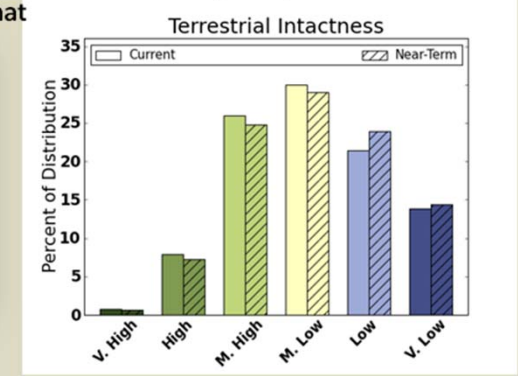




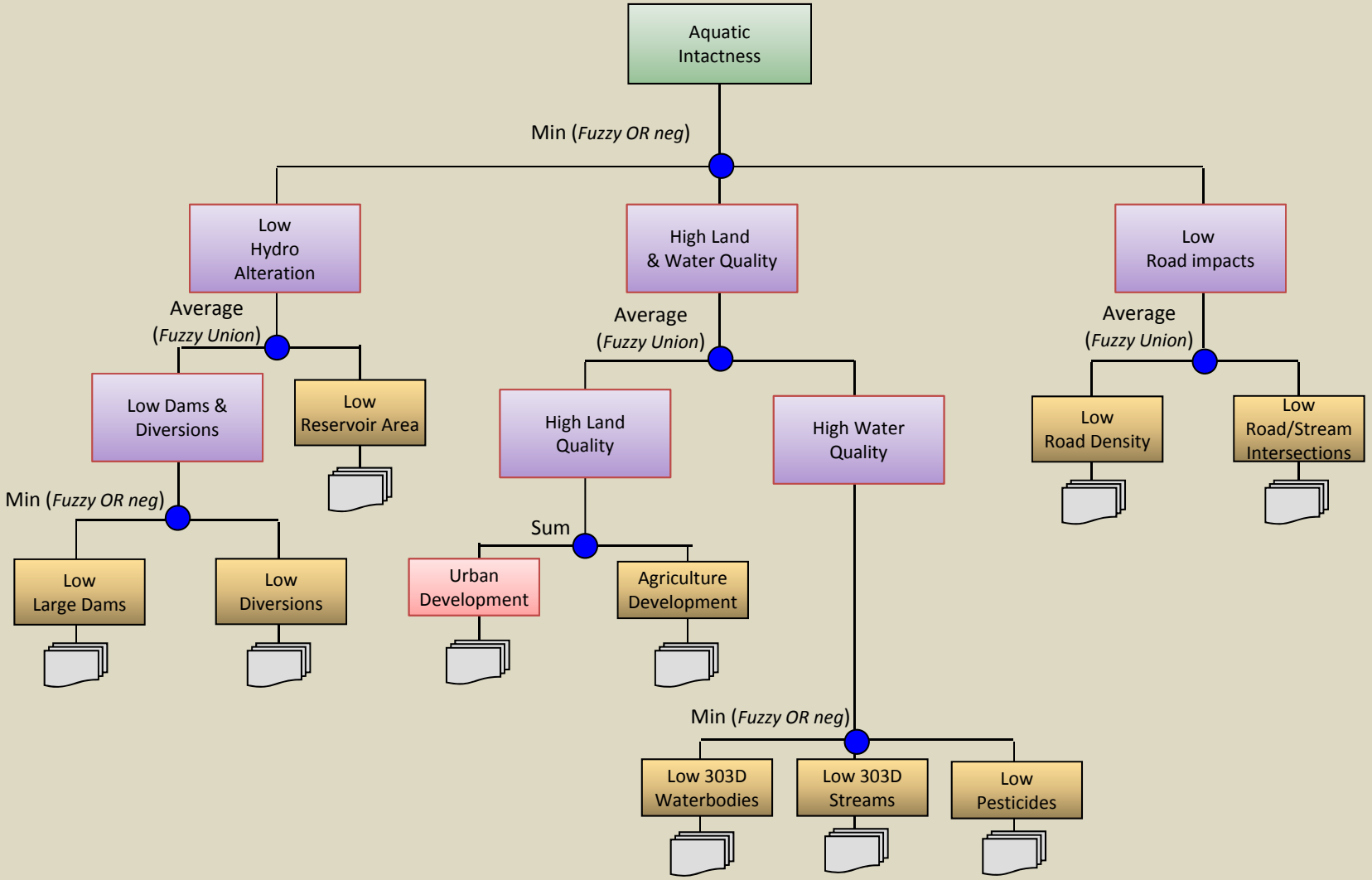
Burrowing Owl



Yellow-breasted Chat

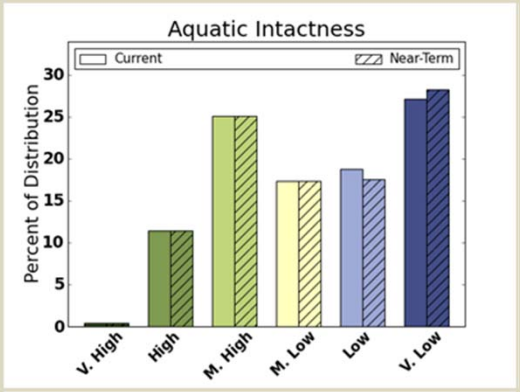


Near-term Aquatic Intactness

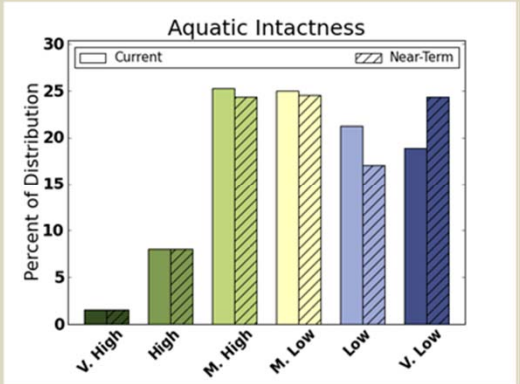


Near-term Status for Species

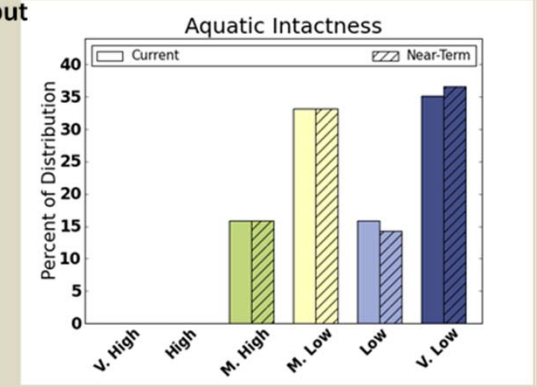
Razorback Sucker



Flannelmouth Sucker

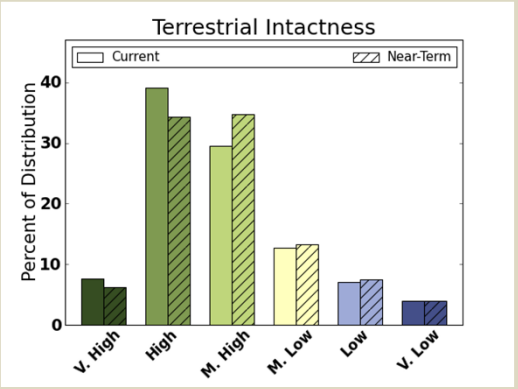


Colorado Cutthroat Trout

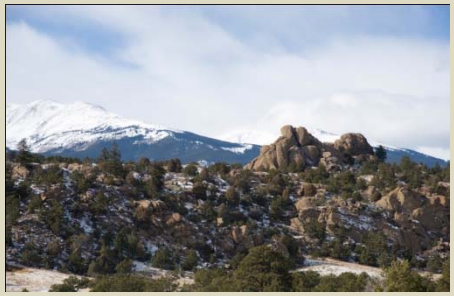


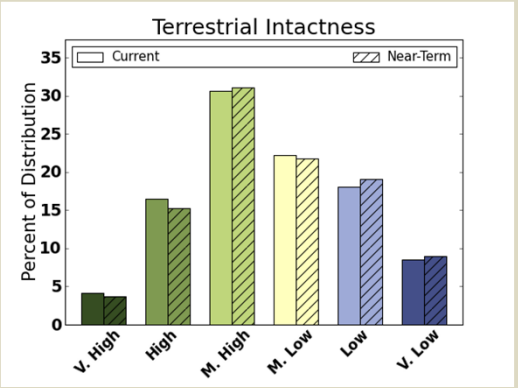
Near-term Status for Vegetation Communities

Colorado Plateau Mixed Bedrock Canyon and Tablelands

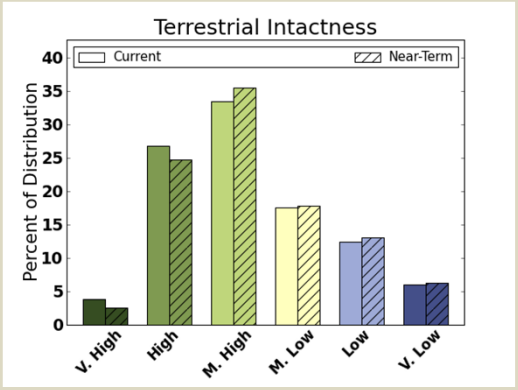


Colorado Plateau Pinyon-Juniper Woodland



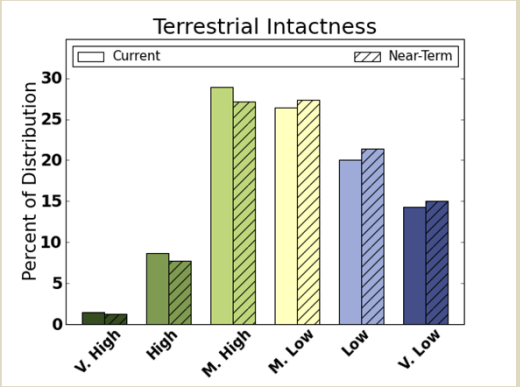


Colorado Plateau Pinyon-Juniper Shrubland

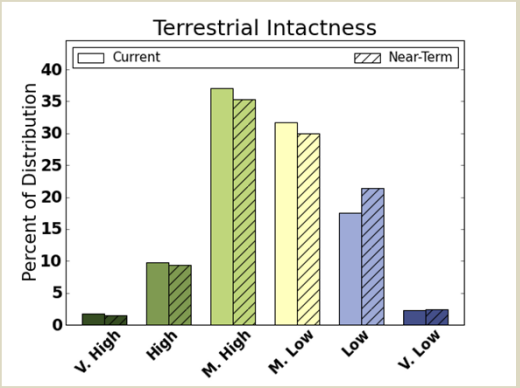


Near-term Status for Vegetation Communities

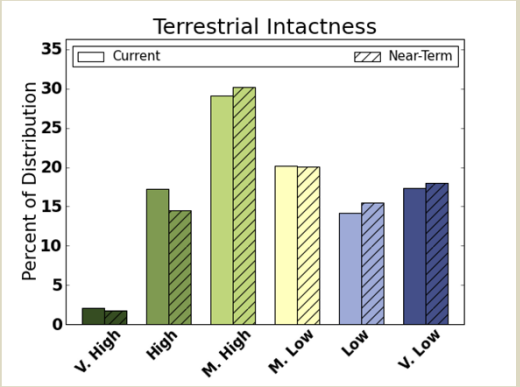
Inter-Mountain Basins Big Sagebrush Shrubland



Inter-Mountain Basins Montane Sagebrush Steppe

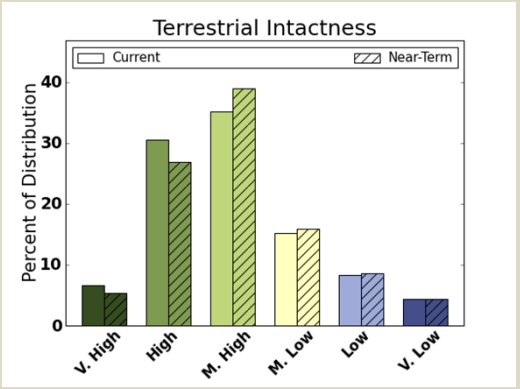


Riparian Vegetation

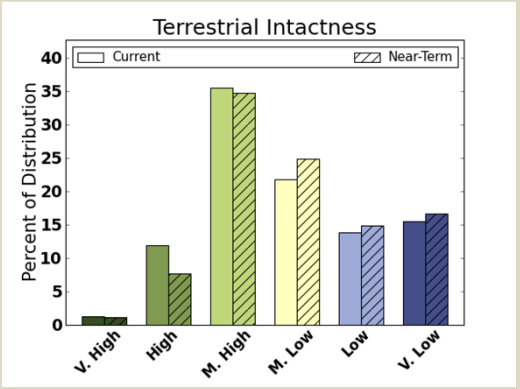


Near-term Status for Vegetation Communities

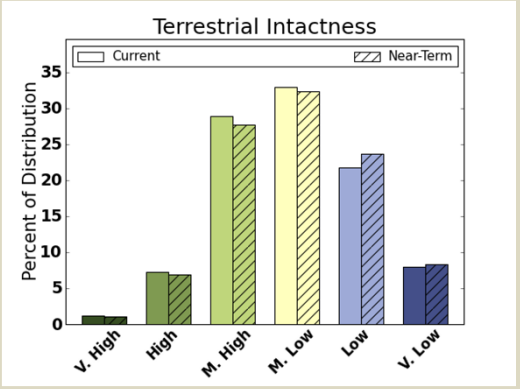
Colorado Plateau Blackbrush-Mormon-tea Shrubland



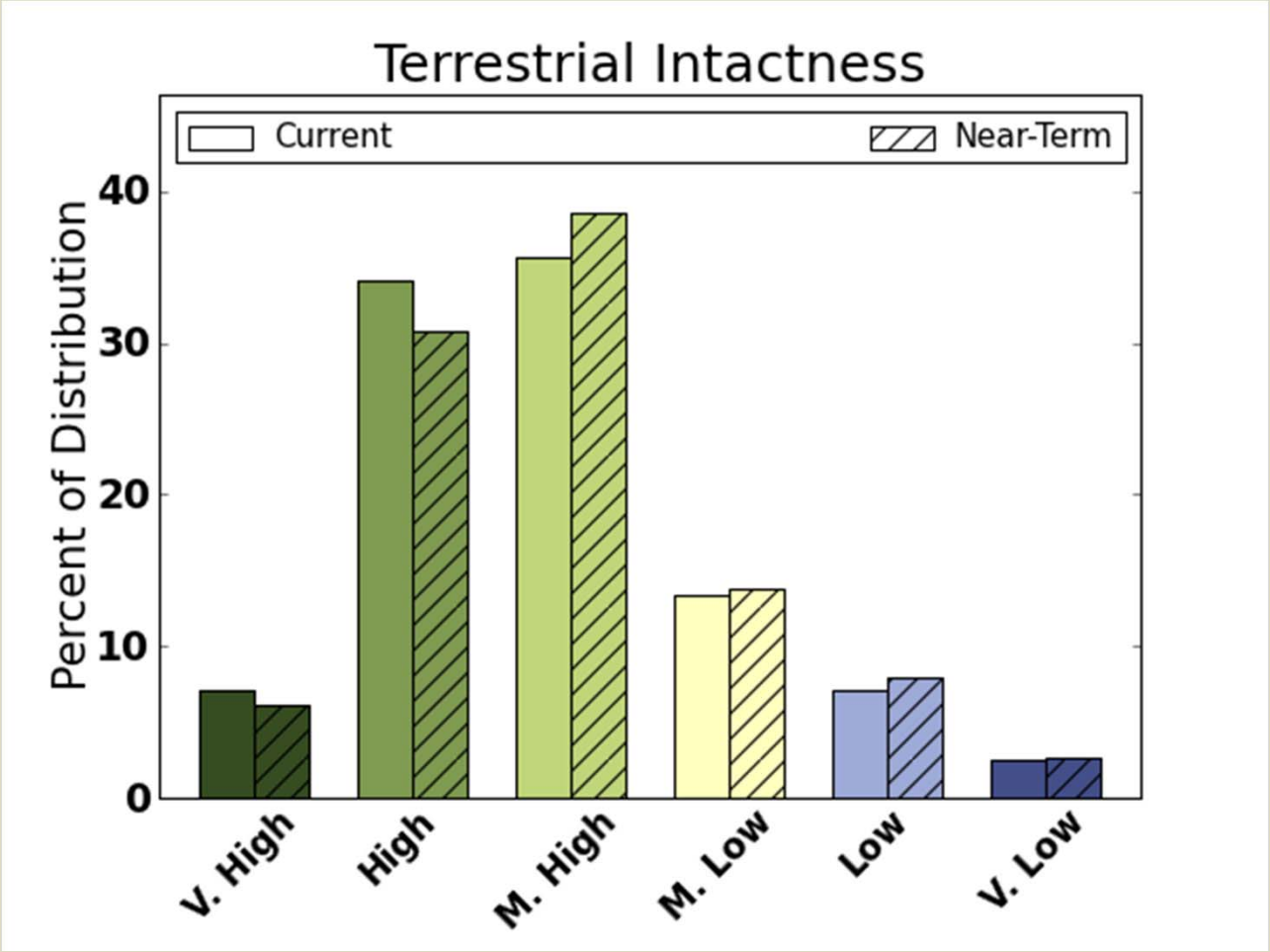
Inter-Mountain Basins Mixed Salt Desert Scrub



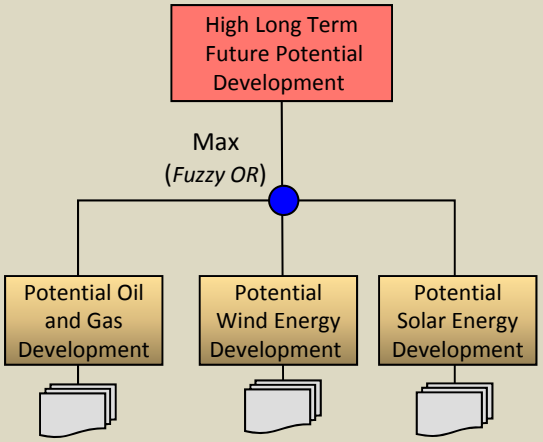
Rocky Mountain Gambel Oak-Mixed Montane Shrubland

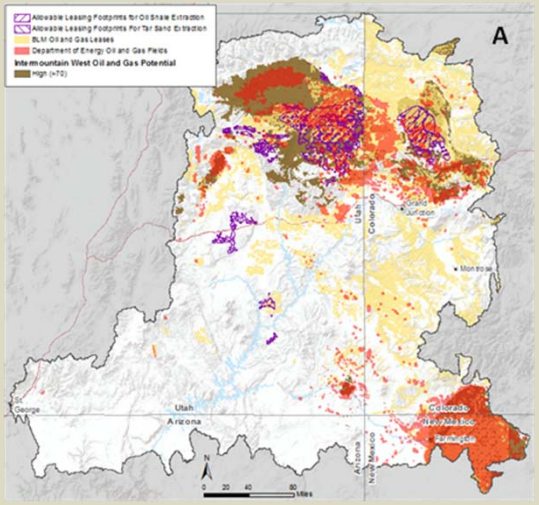


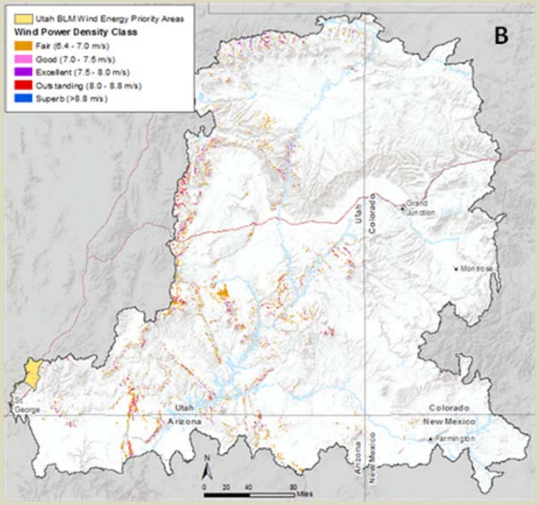
Near-term Status for Designated Lands

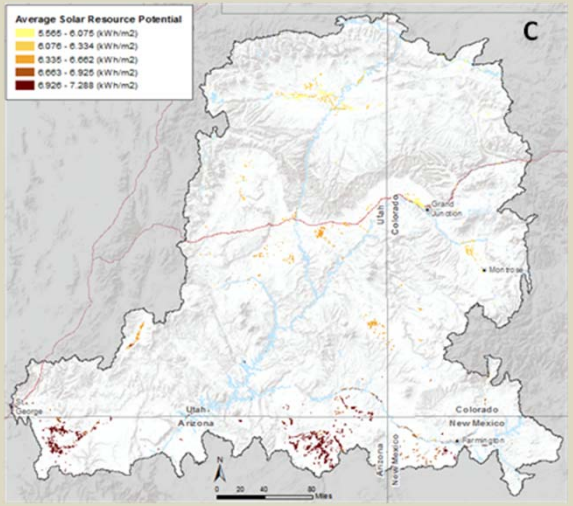


Potential Energy Development

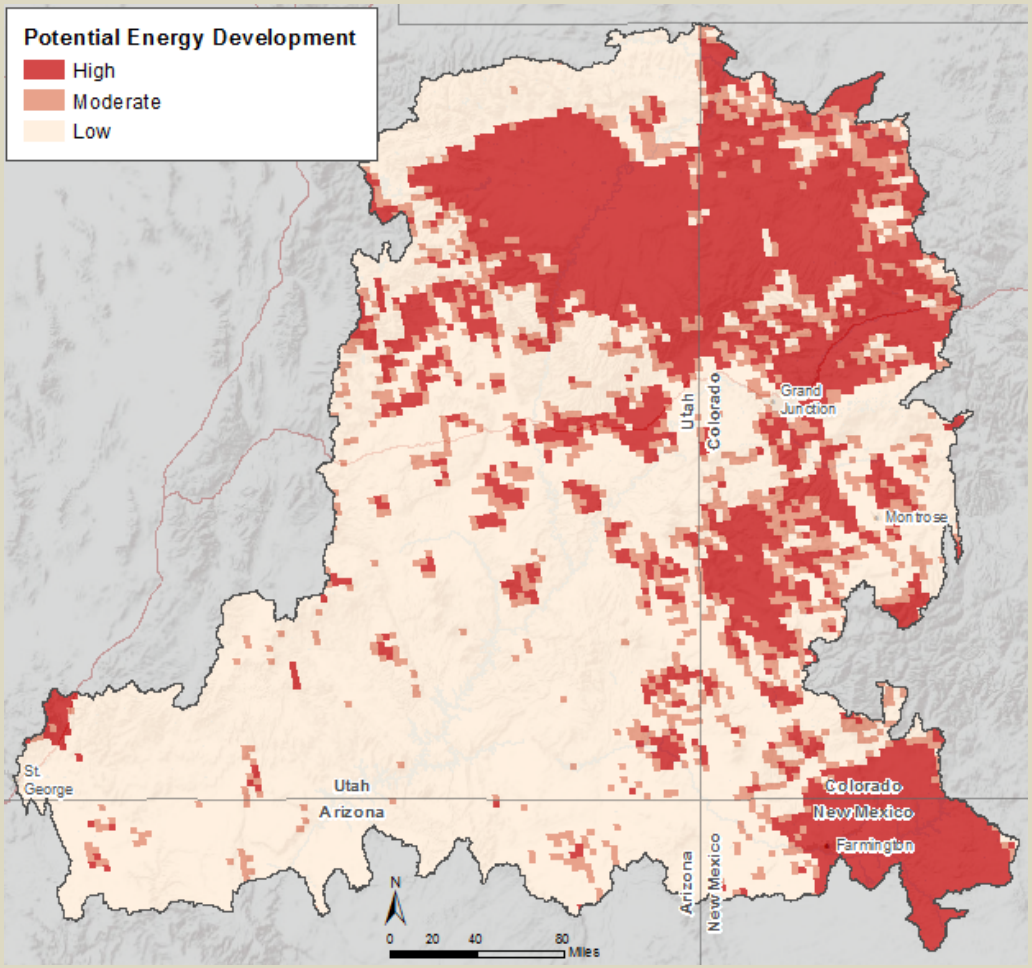






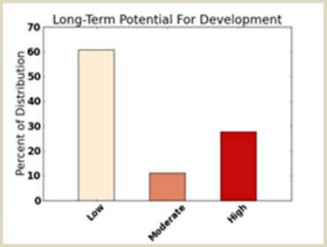


Potential Energy Development

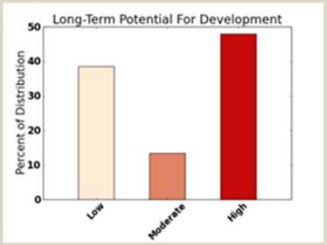


Potential Energy Development Impact on Species

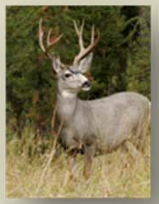
Mountain Lion

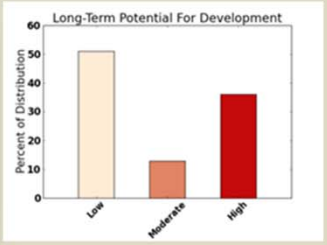


Pronghorn Antelope

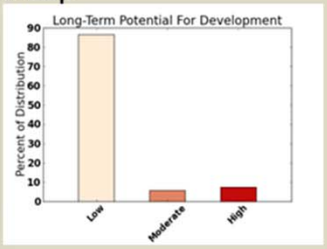


Mule Deer

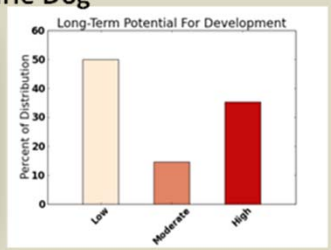




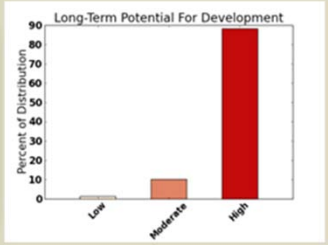
Desert Bighorn Sheep



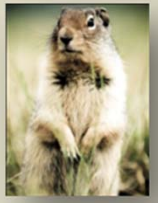
Gunnison's Prairie Dog

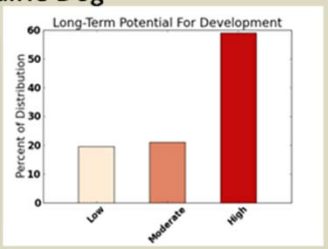


Black-footed Ferret



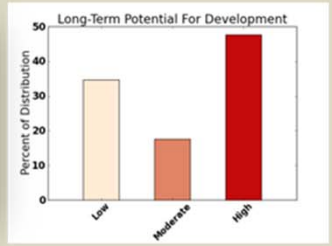
White-tailed Prairie Dog



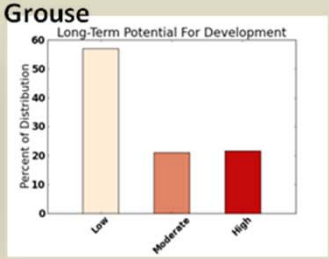


Potential Energy Development Impact on Species

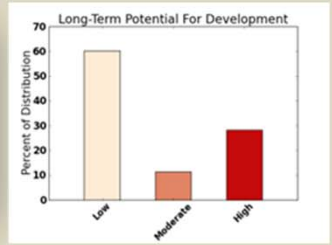
Greater Sage Grouse



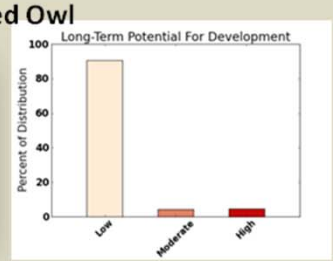
Gunnison Sage Grouse



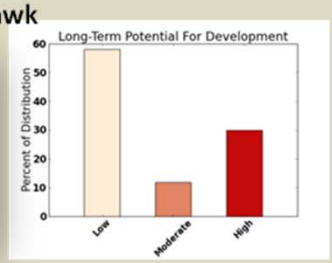
Golden Eagle



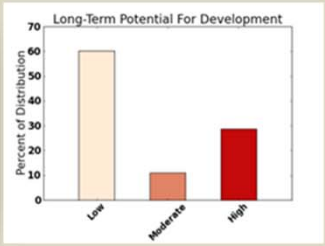
Mexican Spotted Owl



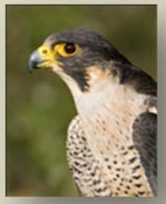
Ferruginous Hawk

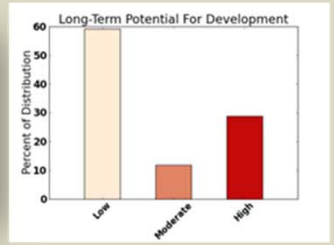


Burrowing Owl

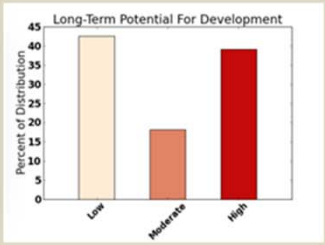


Peregrine Falcon



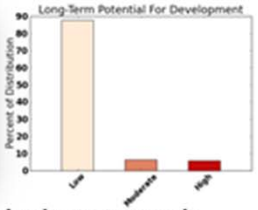


Yellow-breasted Chat

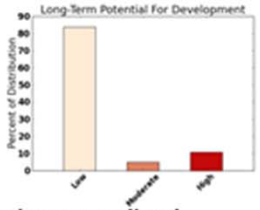


Potential Energy Development Impact on Vegetation Communities

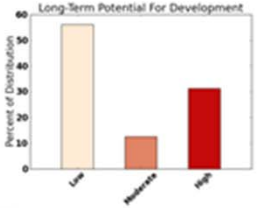
Colorado Plateau Blackbrush-Mormon-tea Shrubland



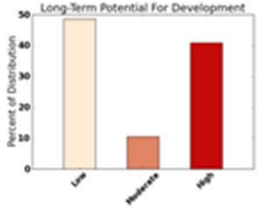
Colorado Plateau Mixed Bedrock Canyon and Tablelands



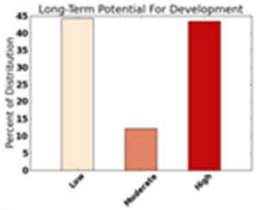
Inter-Mountain Basins Mixed Salt Desert Scrub



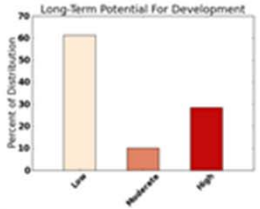
Colorado Plateau Pinyon-Juniper Woodland



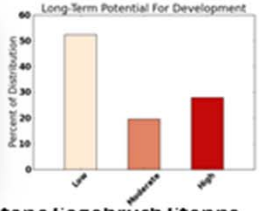
Inter-Mountain Basins Big Sagebrush Shrubland



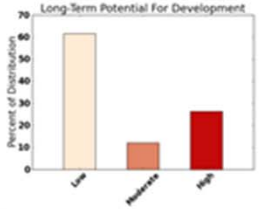
Colorado Plateau Pinyon-Juniper Shrubland



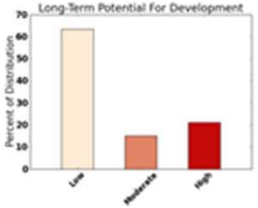
Rocky Mountain Gambel Oak-Mixed Montane Shrubland



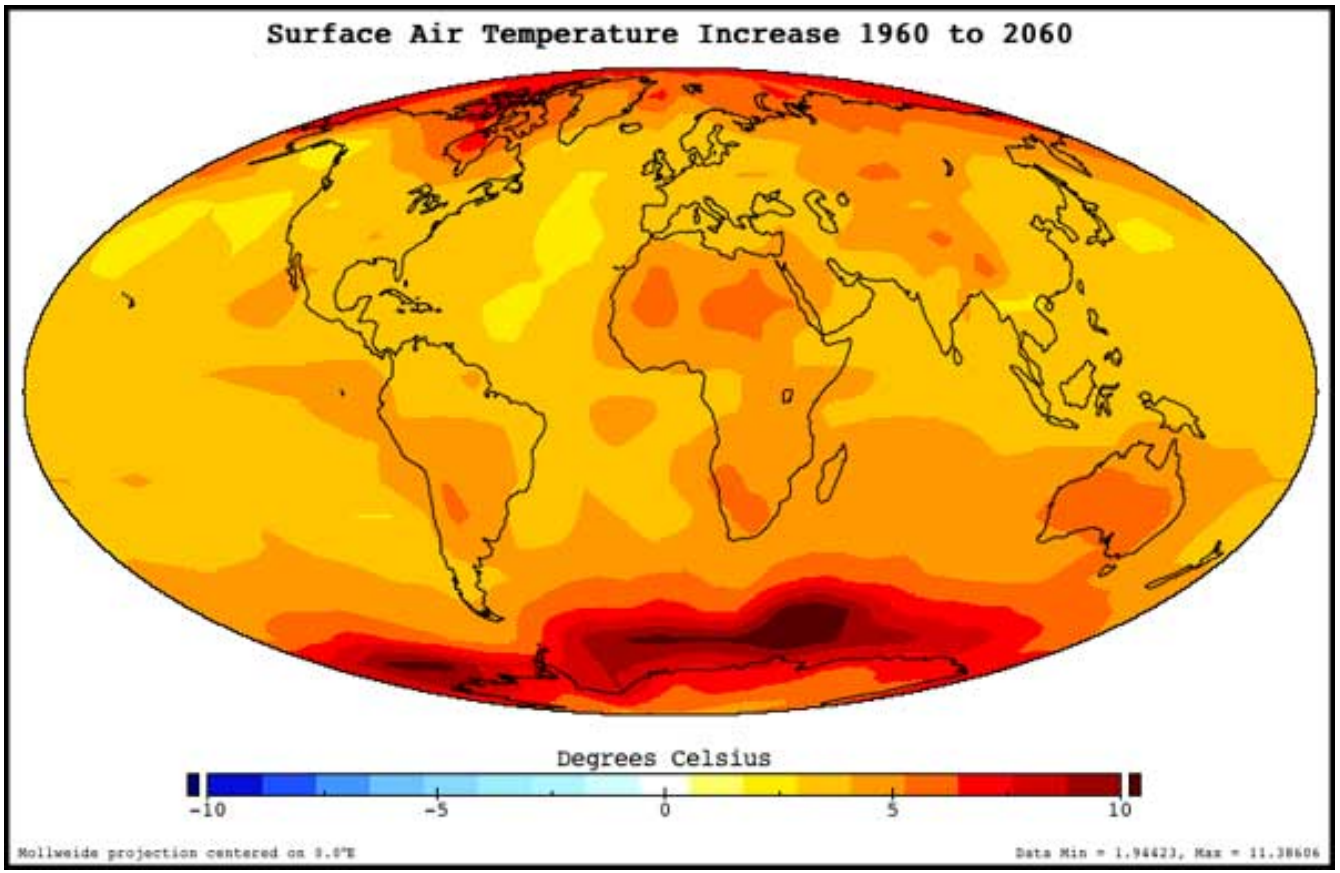
Riparian Vegetation



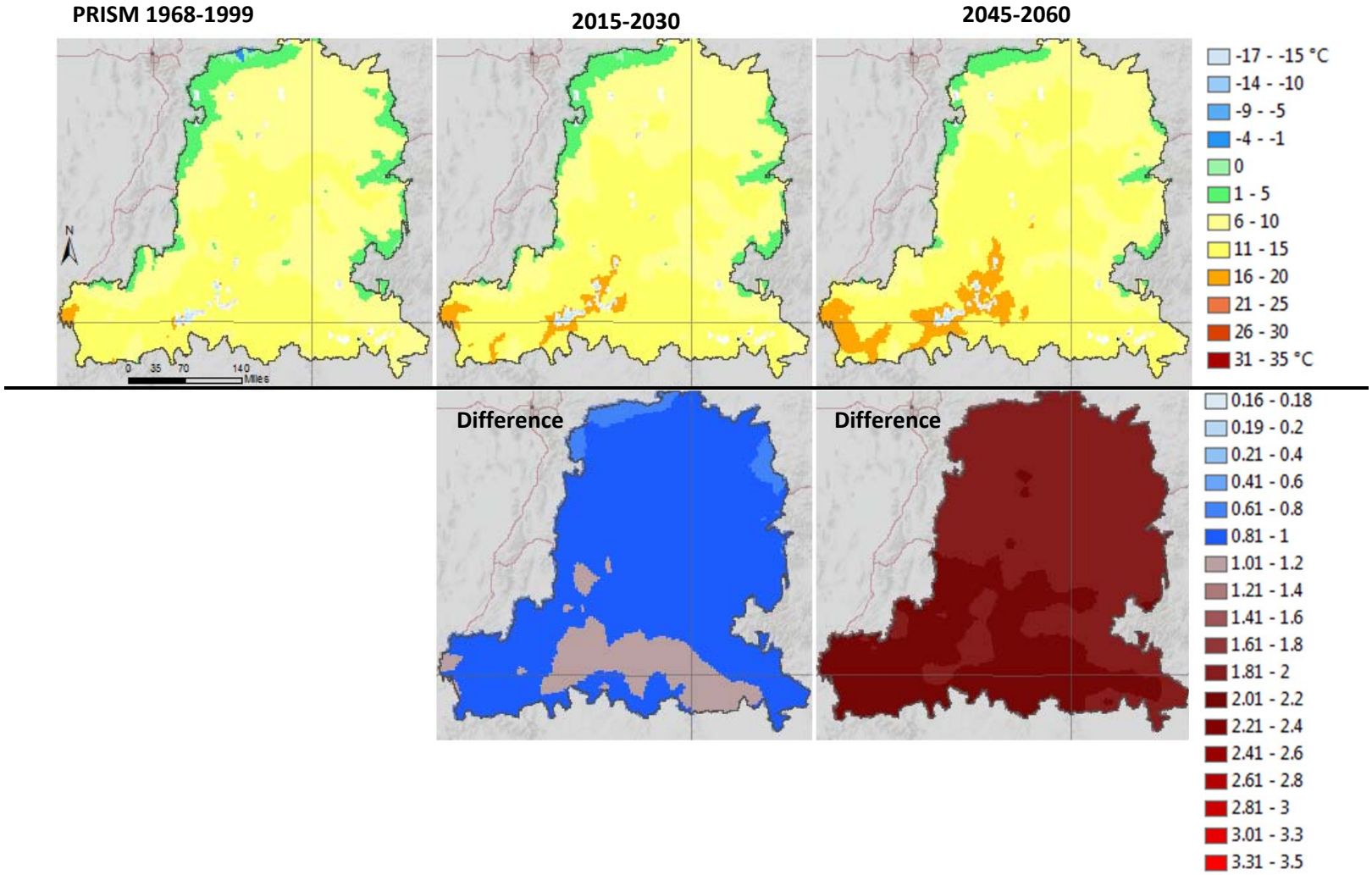
Inter-Mountain Basins Montane Sagebrush Steppe



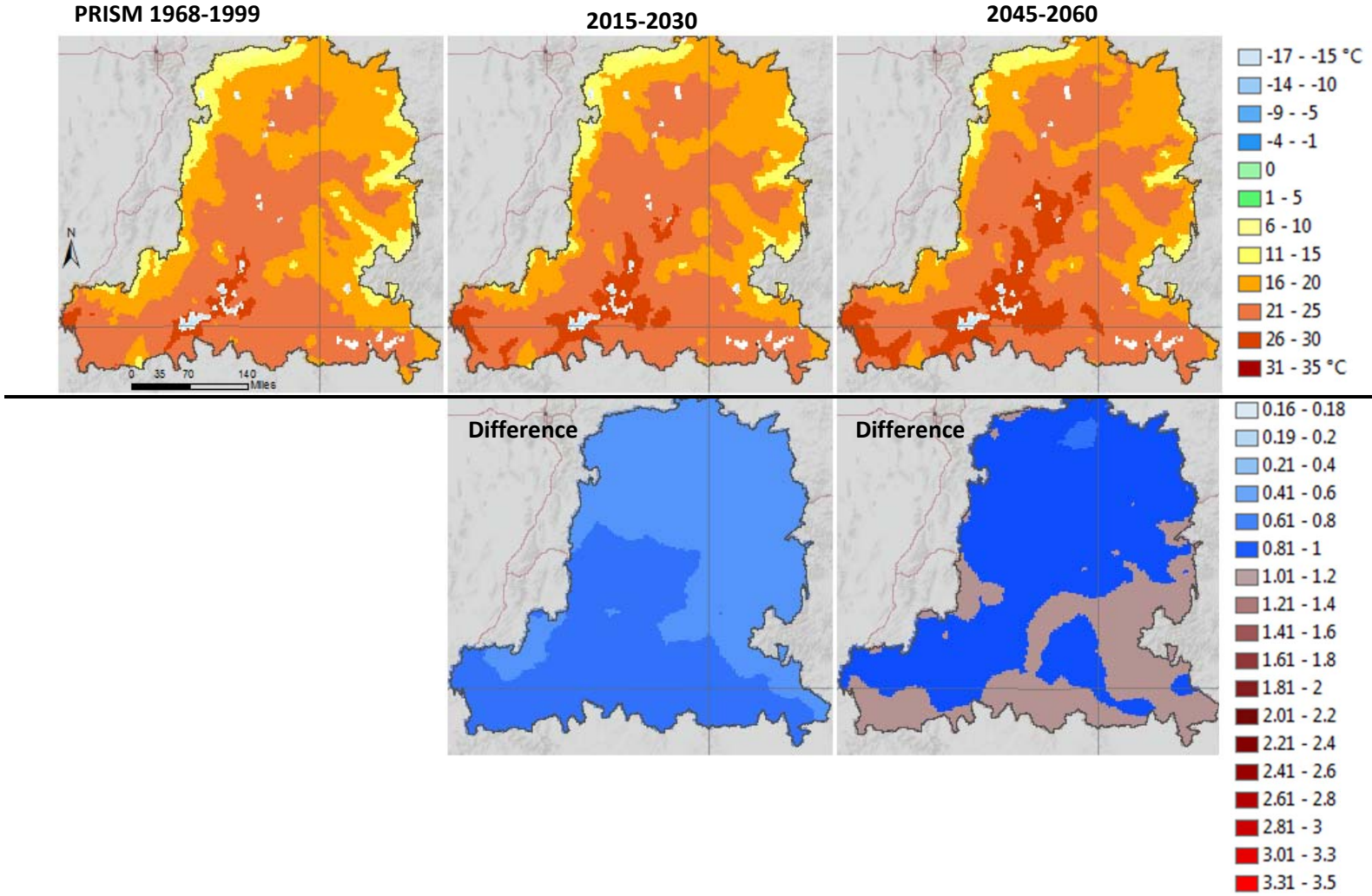
Climate Change



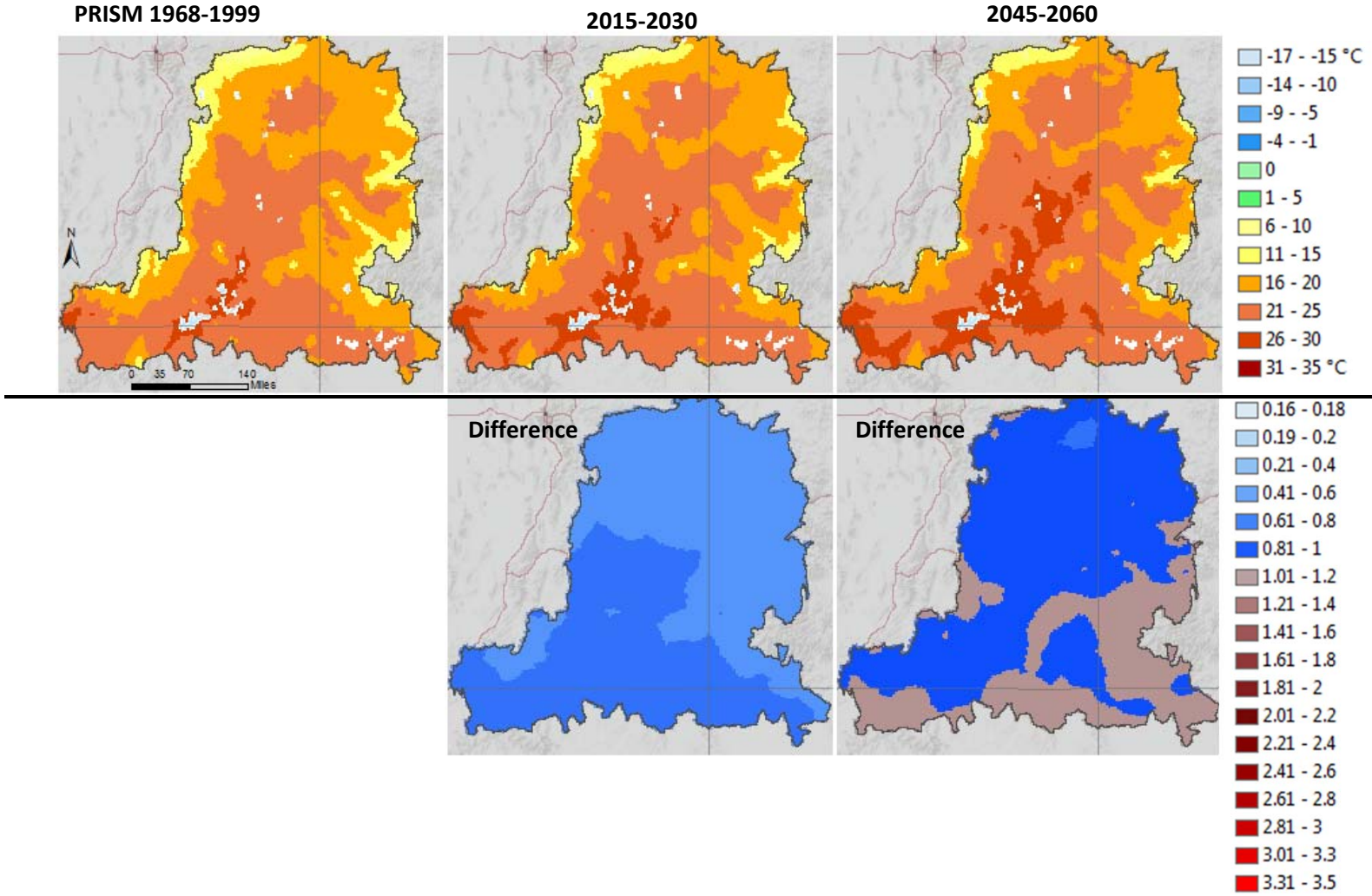
Average Annual Temperature



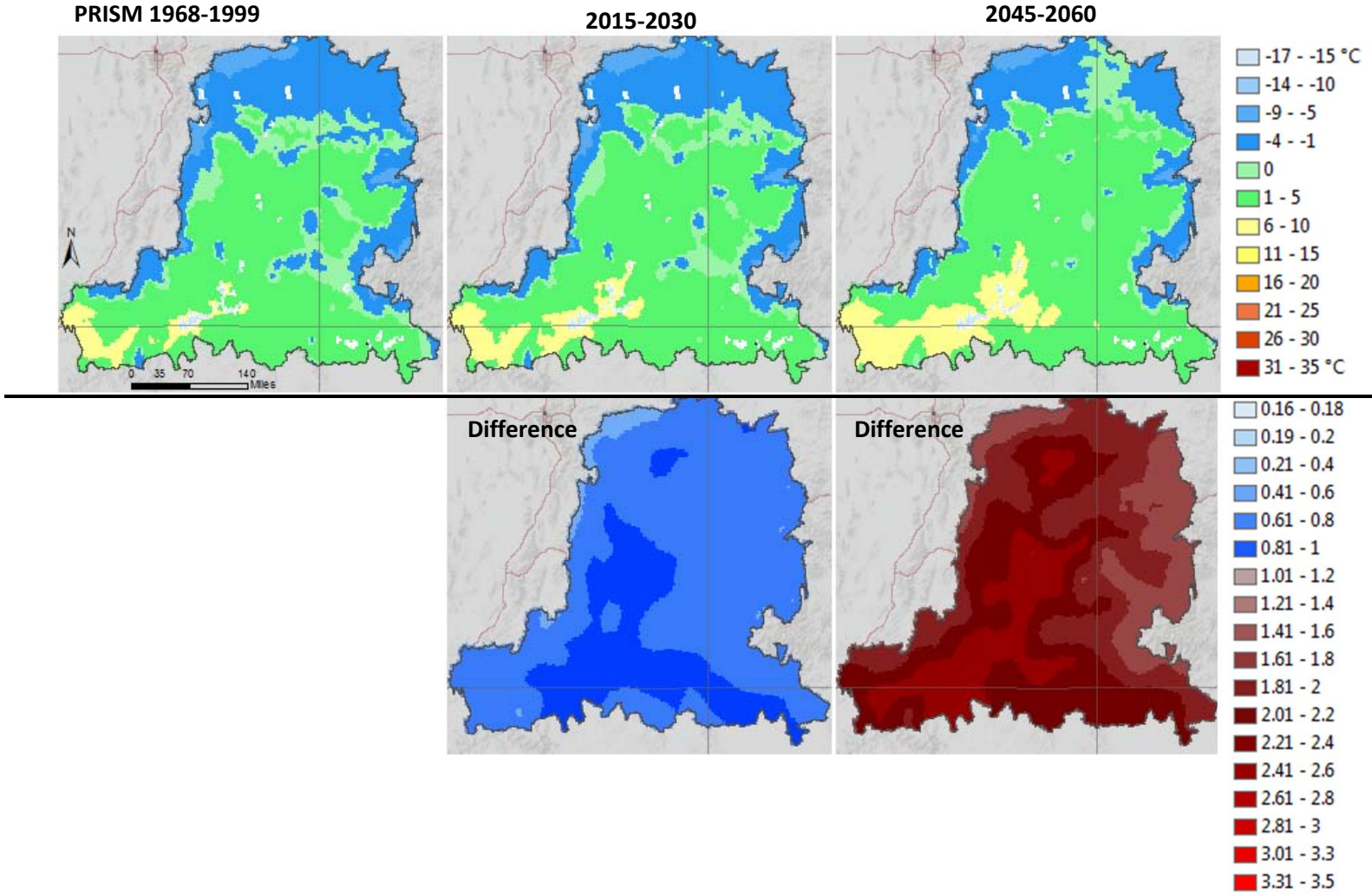
Average Summer Temperature



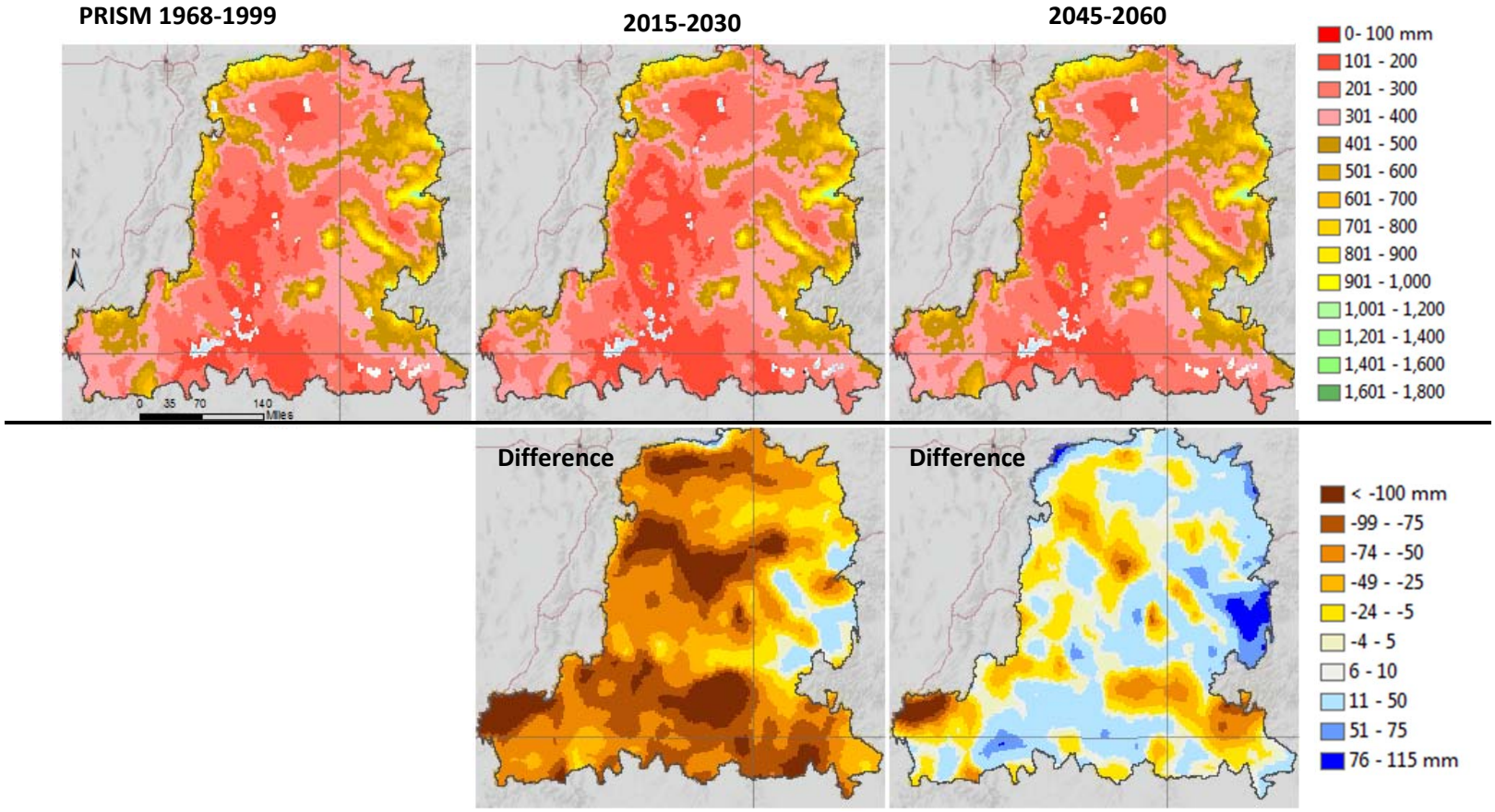
Average Summer Temperature



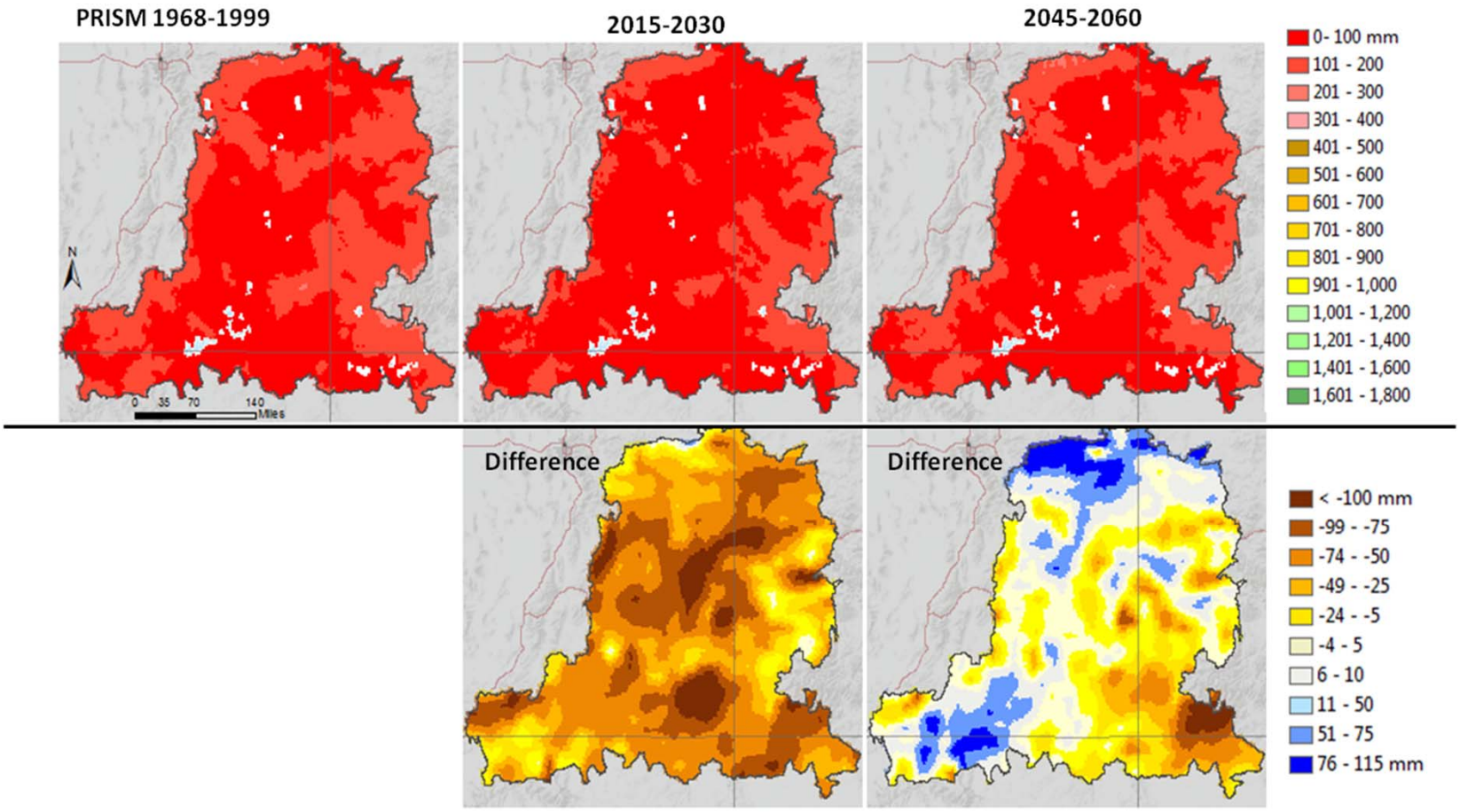
Average Winter Temperature



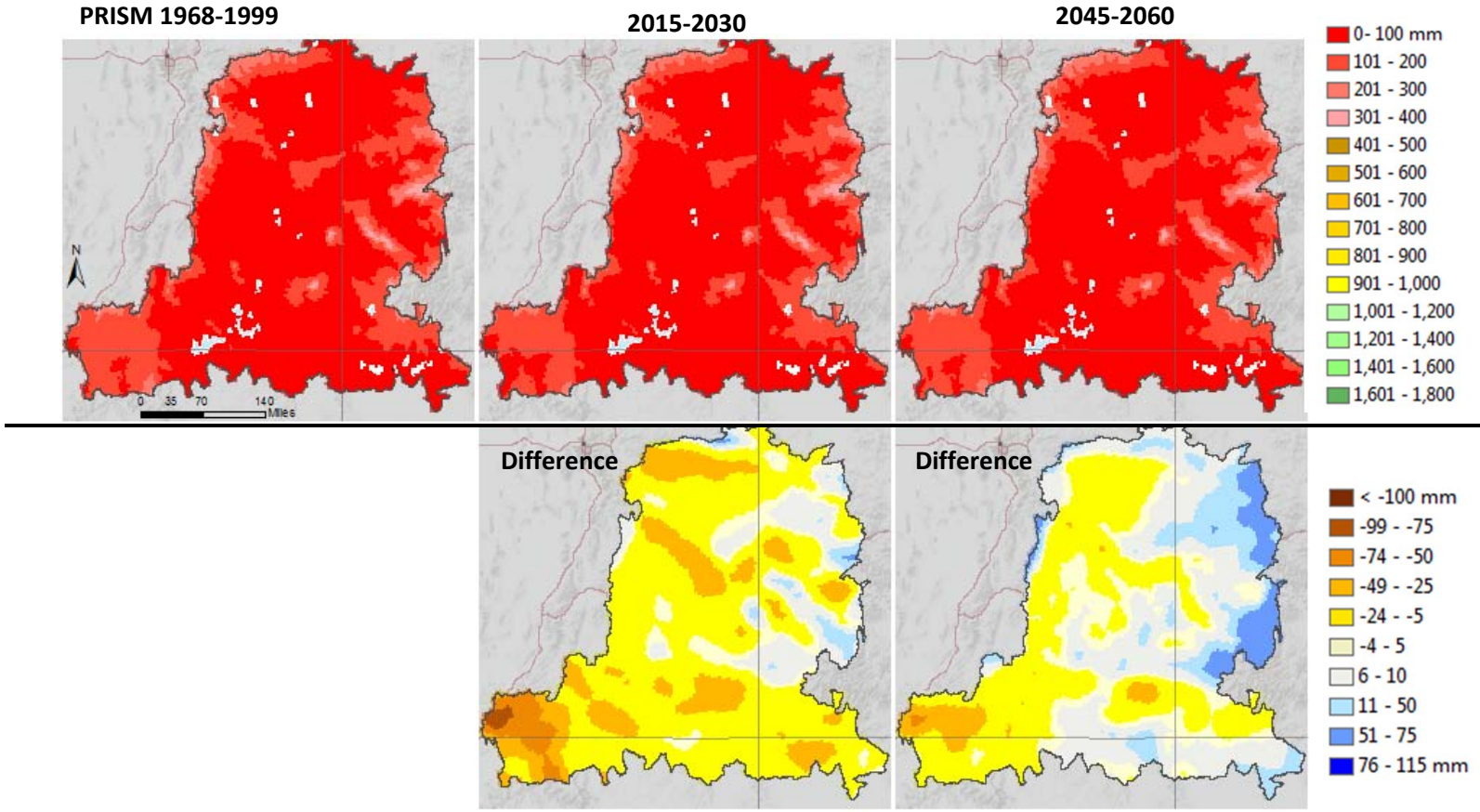
Average Annual Precipitation



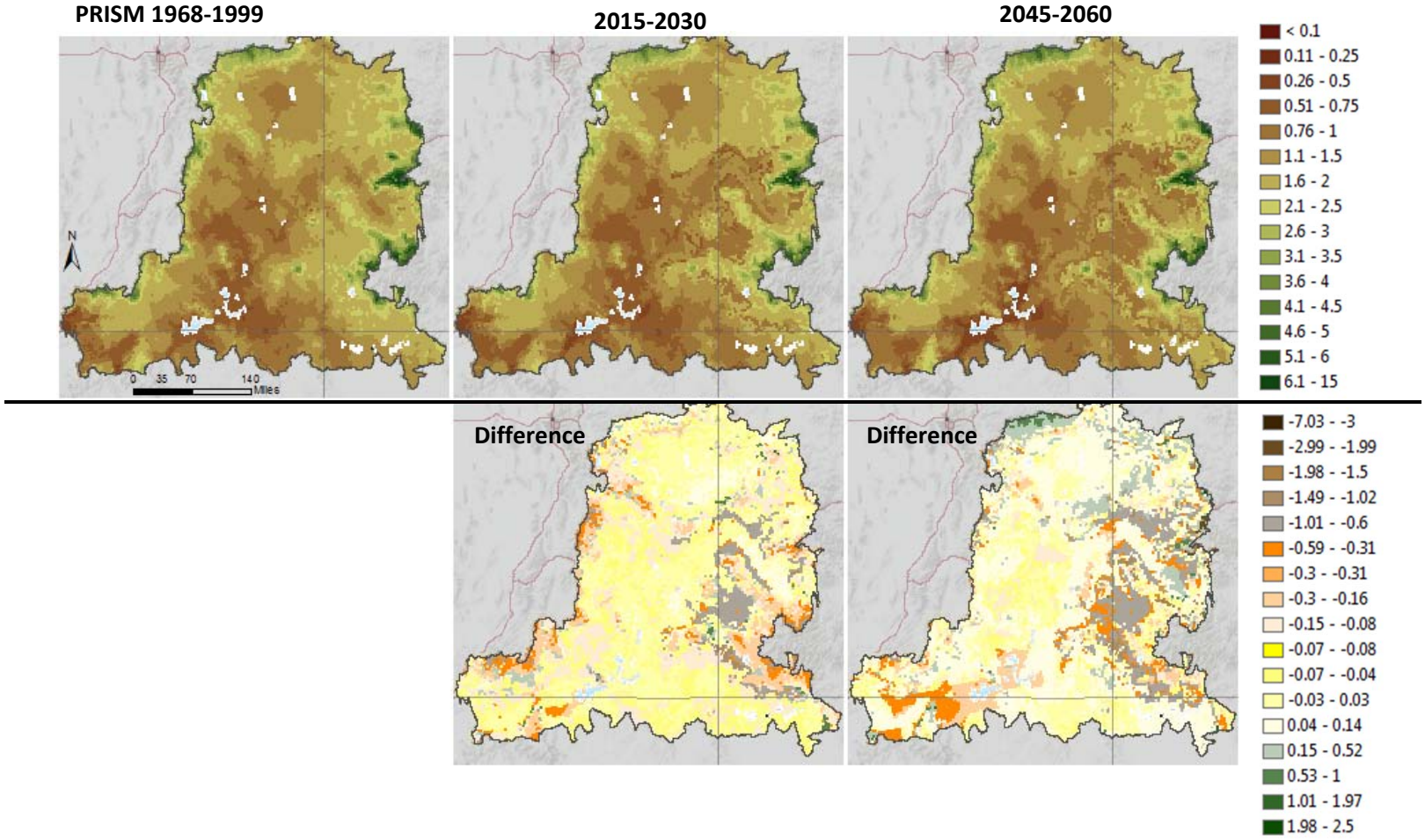
Average Summer Precipitation



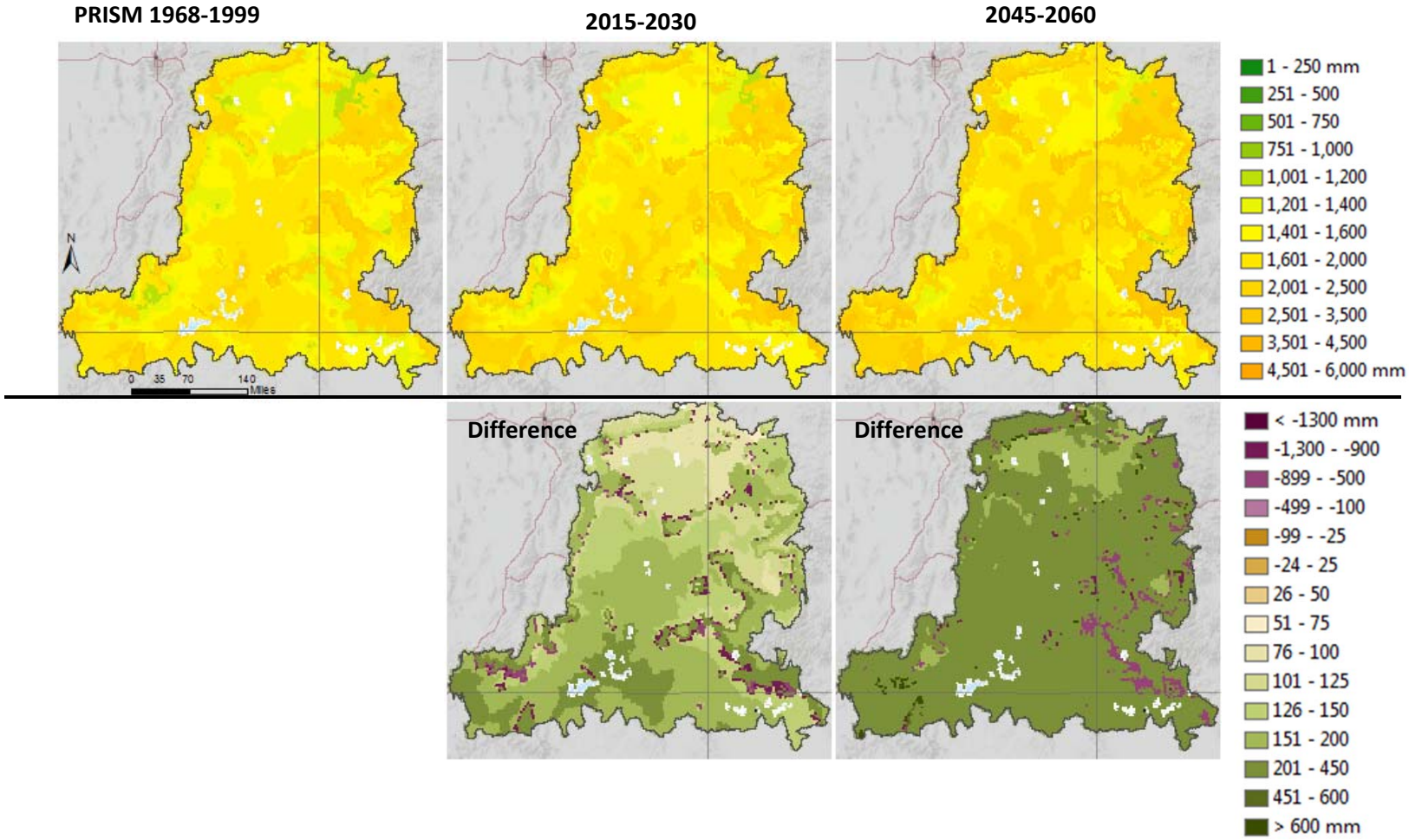
Average Winter Precipitation



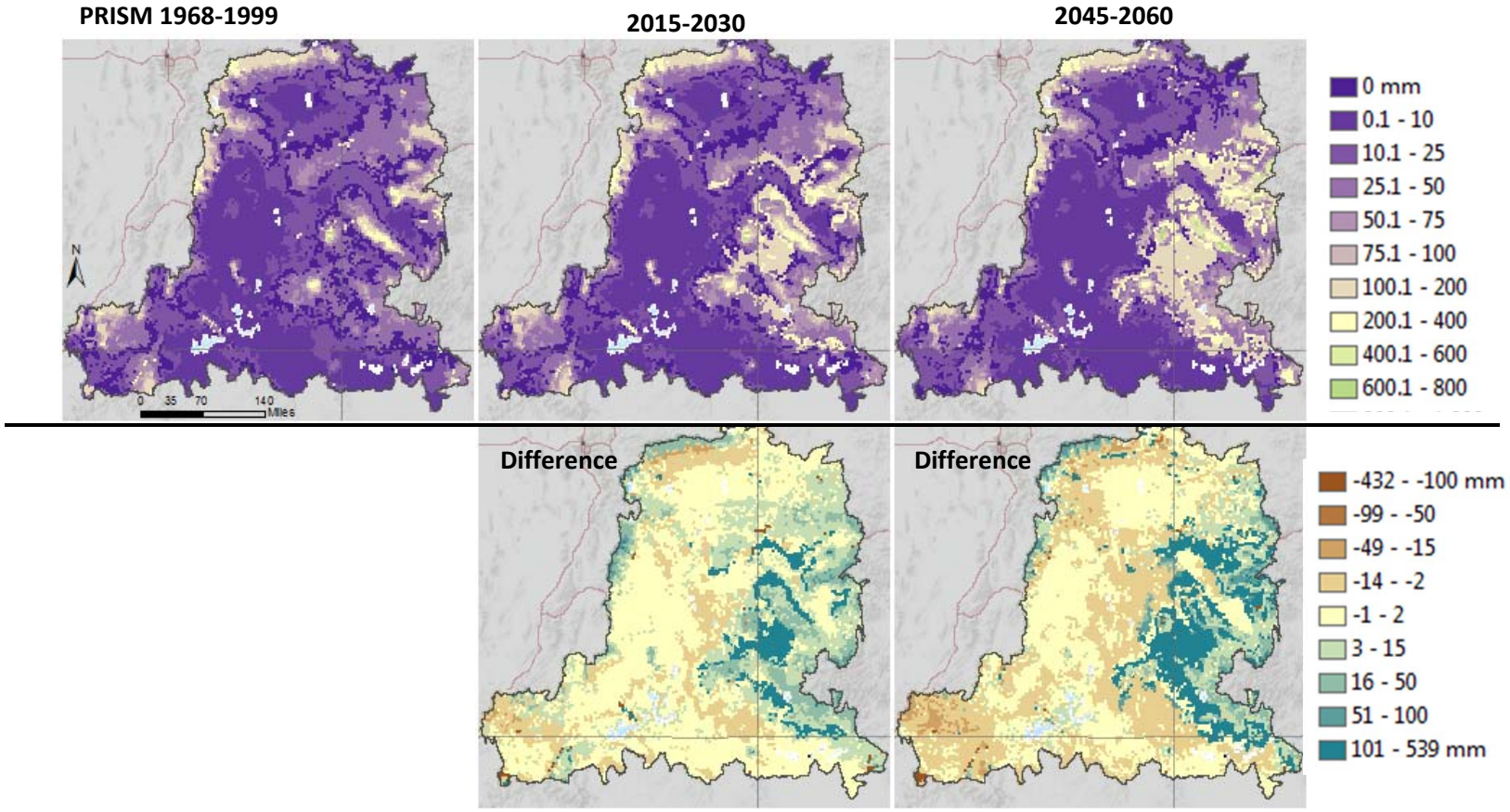
Leaf Area Index



Potential Evapotranspiration

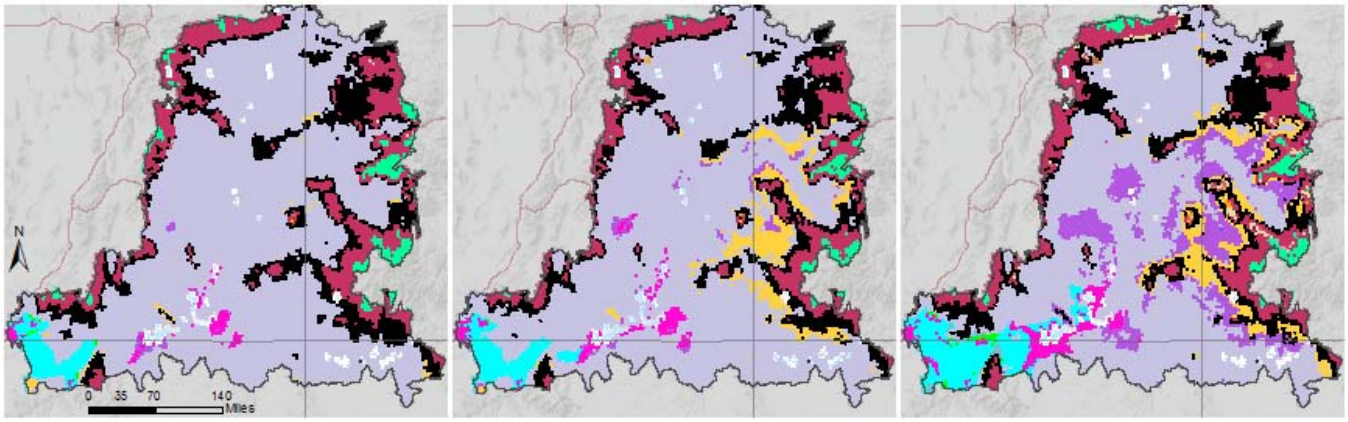


Runoff


PRISM 1968-1999
2015-2030
2045-2060
N
0 35 70 140
Miles
0 mm
0.1 - 10
10.1 - 25
25.1 - 50
50.1 - 75
75.1 - 100
100.1 - 200
200.1 - 400
400.1 - 600
600.1 - 800
Difference
Difference
-432 - -100 mm
-99 - -50
-49 - -15
-14 - -2
-1 - 2
3 - 15
16 - 50
51 - 100
101 - 539 mm

Change in Vegetation

PRISM 1968-1999 | **2015-2030** | **2045-2060**

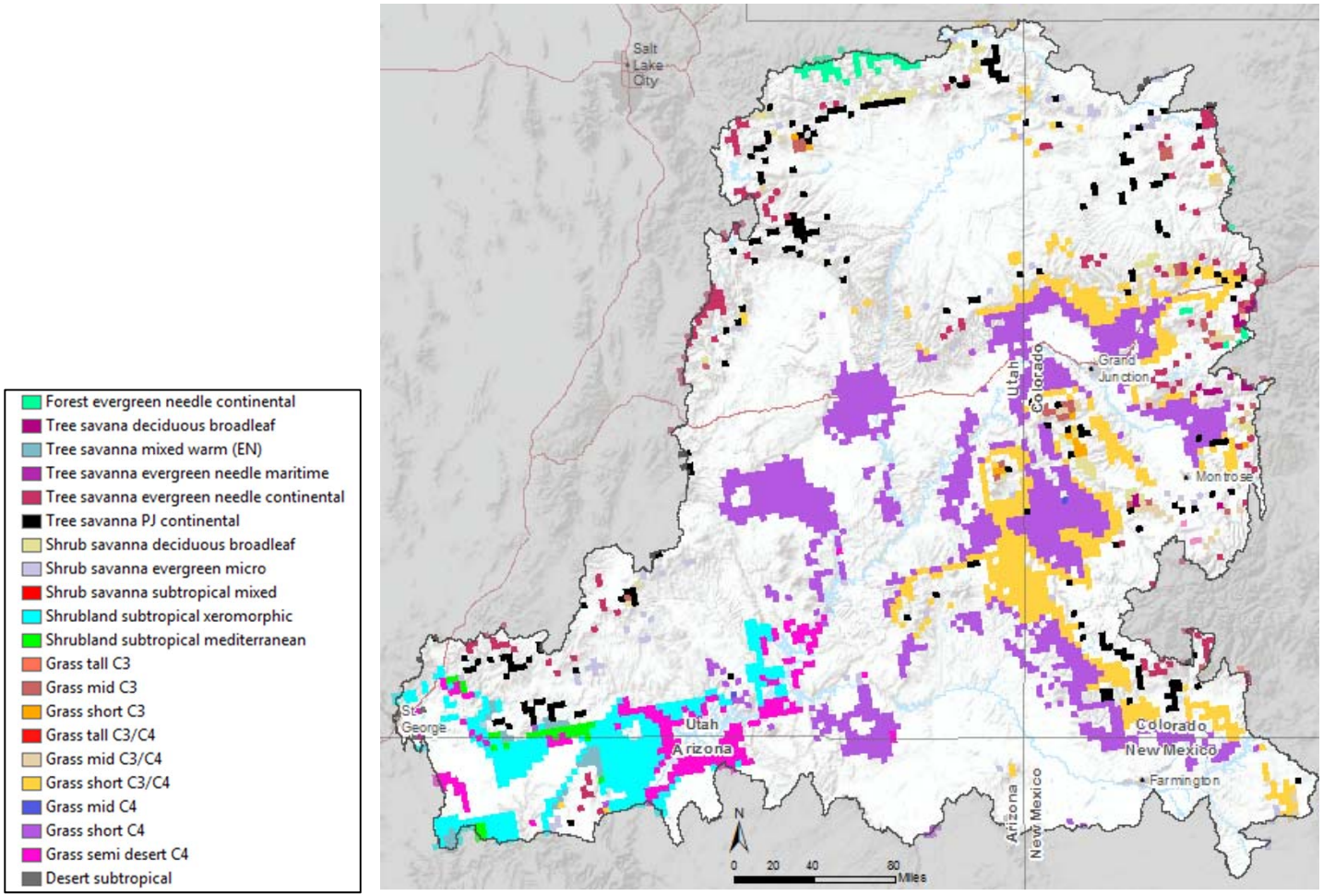


- Forest evergreen needle continental
- Tree savana deciduous broadleaf
- Tree savanna mixed warm (EN)
- Tree savanna evergreen needle maritime
- Tree savanna evergreen needle continental
- Tree savanna PJ continental
- Shrub savanna deciduous broadleaf
- Shrub savanna evergreen micro
- Shrub savanna subtropical mixed
- Shrubland subtropical xeromorphic
- Shrubland subtropical mediterranean
- Grass tall C3
- Grass mid C3
- Grass short C3
- Grass tall C3/C4
- Grass mid C3/C4
- Grass short C3/C4
- Grass mid C4
- Grass short C4
- Grass semi desert C4
- Desert subtropical

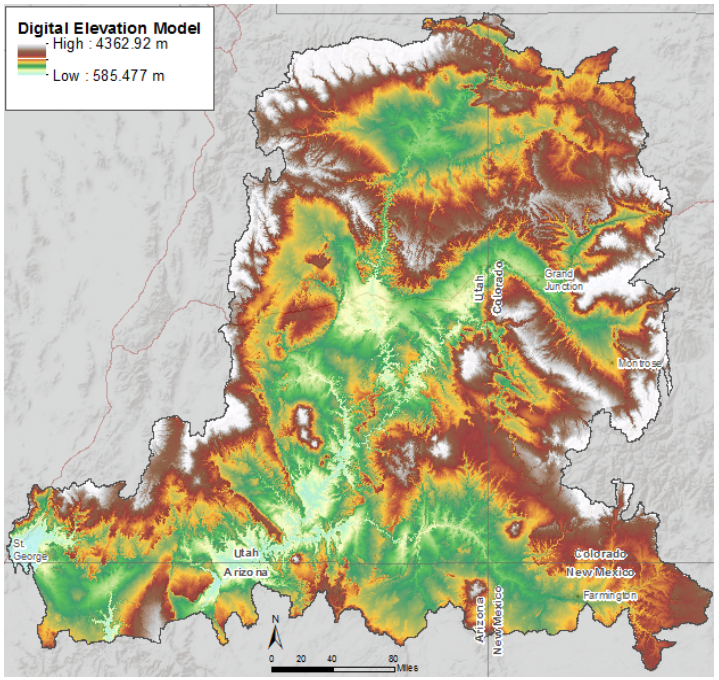
Change in Vegetation

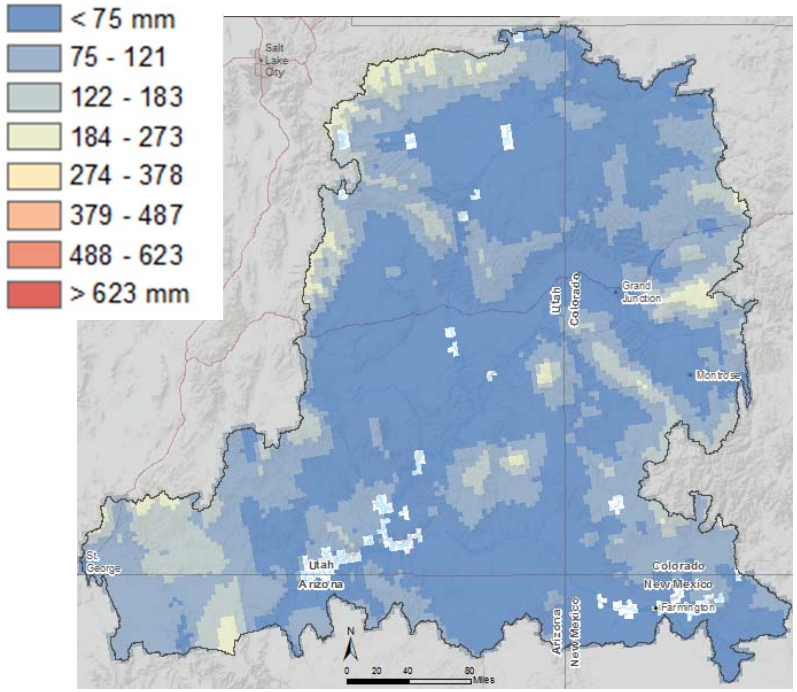
PRISM	2045 to 2060	Change (acres)	Vegetation Type
1,316,577	1,095,171	-221,406	Forest Evergreen Needle Continental
0	71,166	71,166	Tree Savanna Deciduous Broadleaf
5,843,548	5,353,291	-490,257	Tree Savanna Evergreen Needle Continental
0	126,518	126,518	Tree Savanna Mixed
7,088,959	6,286,361	-802,598	Tree Savanna PJ Continental
3,954	225,360	221,406	Shrub Savanna Deciduous Broadleaf
29,593,340	22,318,558	-7,274,782	Shrub Savanna Evergreen
1,138,662	2,431,517	1,292,855	Shrubland Subtropical Xeromorphic
43,491	134,425	90,935	Shrubland Subtropical Mediterranean
0	3,954	3,954	Grass Tall C3
15,815	154,194	138,379	Grass Mid C3
3,954	51,398	47,444	Grass Short C3
0	11,861	11,861	Grass Tall C3C4
27,676	162,101	134,425	Grass Mid C3C4
256,990	2,166,620	1,909,630	Grass Short C3C4
0	7,907	7,907	Grass Mid C4
158,147	4,289,749	4,131,602	Grass Short C4
482,350	1,091,217	608,868	Grass Semi Desert C4
19,768	11,861	-7,907	Desert Subtropical

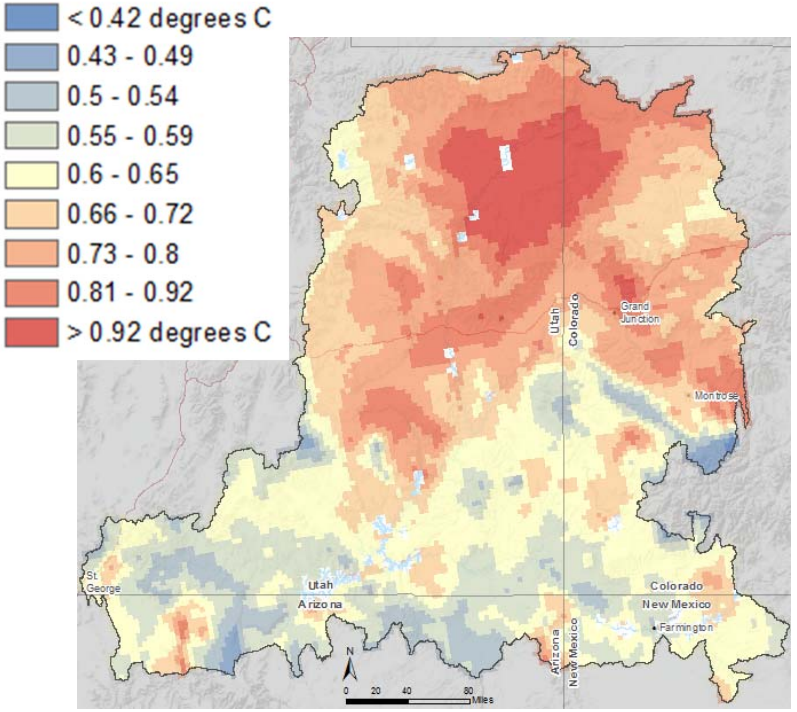
Change in Vegetation



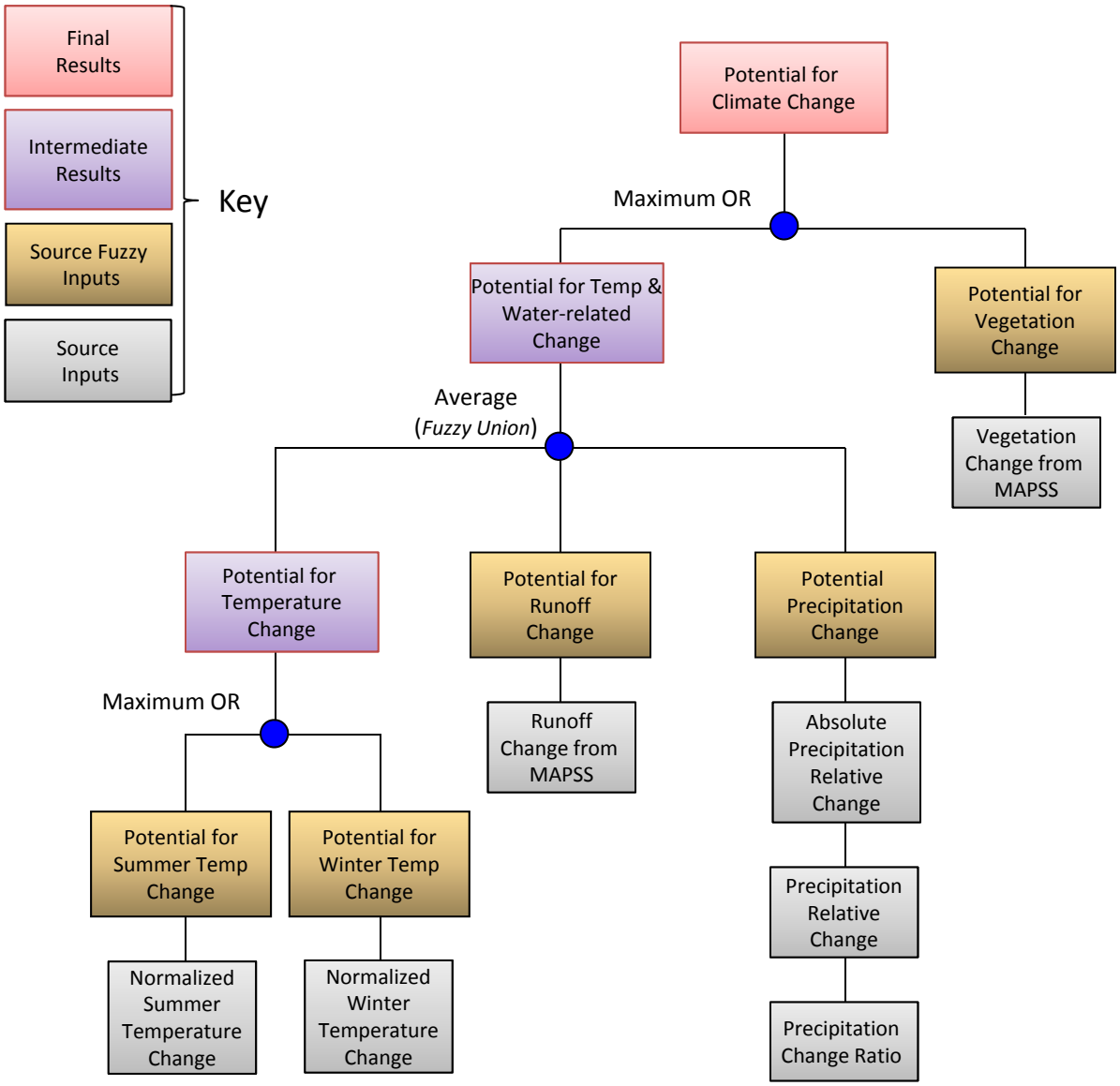
Uncertainty

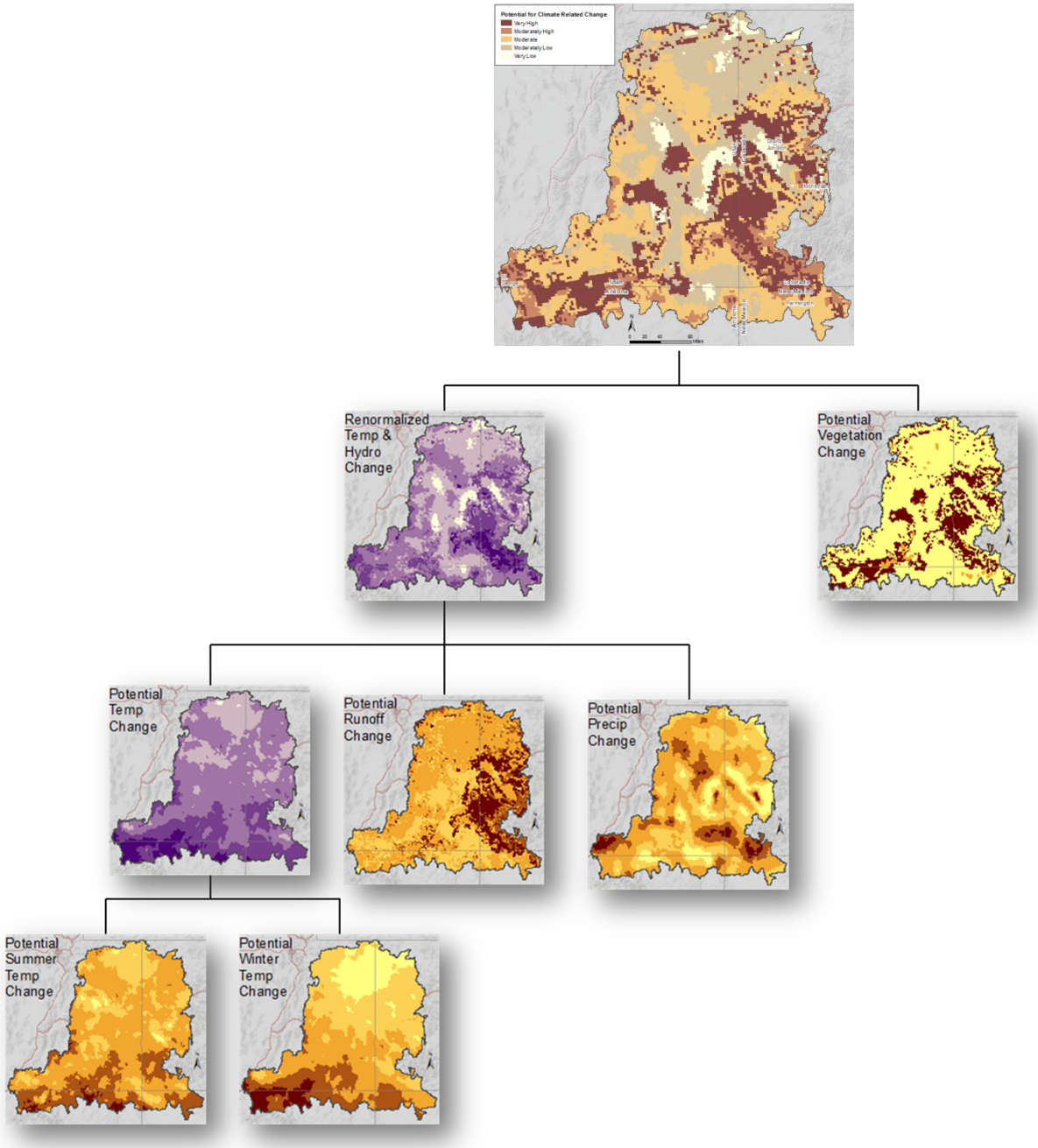






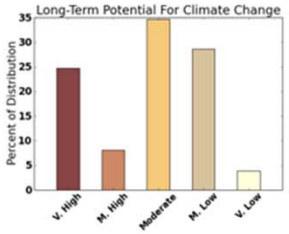
Assessing Potential Climate Change Impacts on Conservation Elements



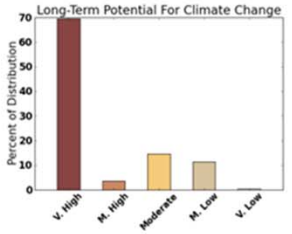

Potential for Climate Related Change
Very High
Moderately High
Moderate
Moderately Low
Very Low
Renormalized Temp & Hydro Change
Potential Vegetation Change
Potential Temp Change
Potential Runoff Change
Potential Precip Change
Potential Summer Temp Change
Potential Winter Temp Change

Assessing Potential Climate Change Impacts on Conservation Elements

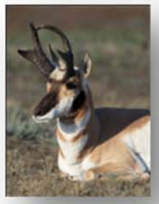
Mountain Lion

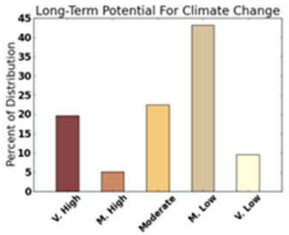


Gunnison's Prairie Dog

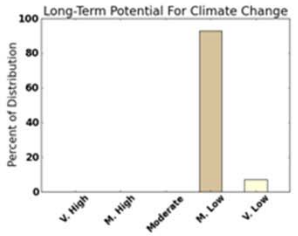


Pronghorn Antelope

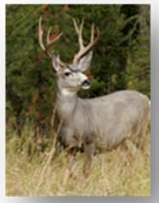


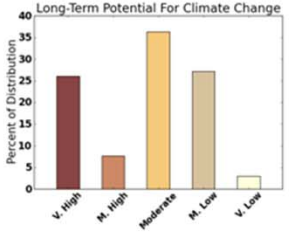


Black-footed Ferret

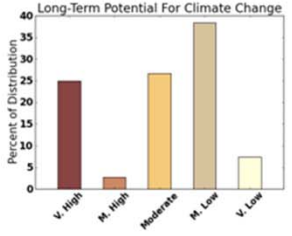


Mule Deer

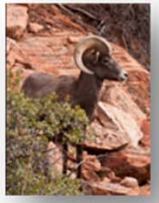


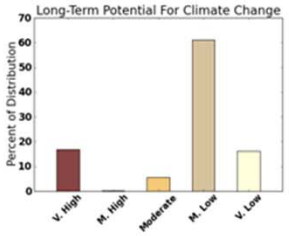


White-tailed Prairie Dog



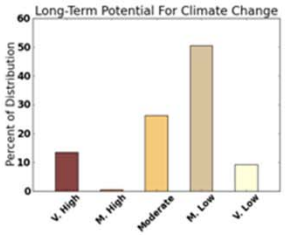
Desert Bighorn Sheep



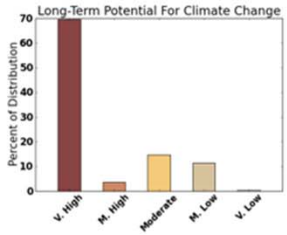


Assessing Potential Climate Change Impacts on Conservation Elements

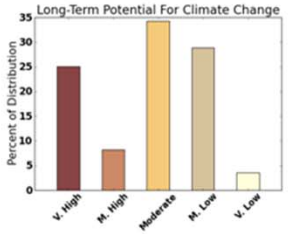
Greater Sage Grouse



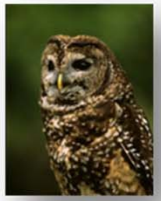
Gunnison Sage Grouse

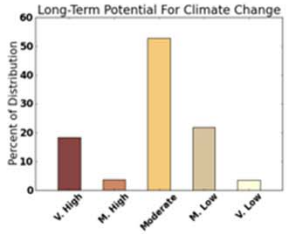


Golden Eagle

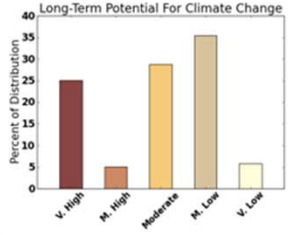


Mexican Spotted Owl

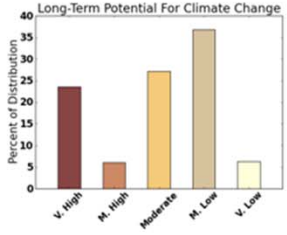




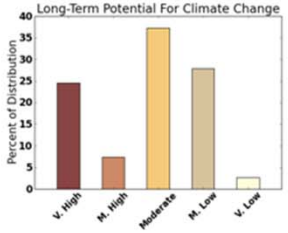
Ferruginous Hawk



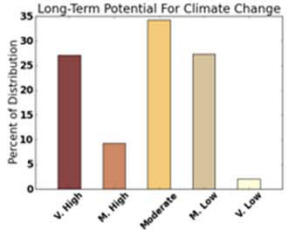
Burrowing Owl



Peregrine Falcon

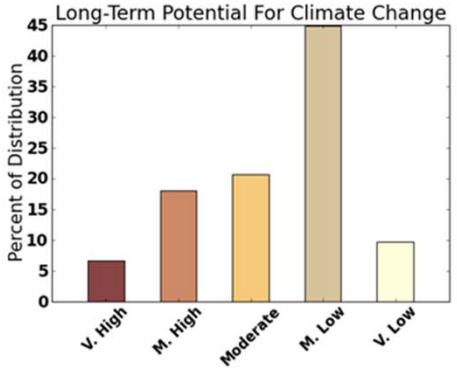


Yellow-breasted Chat

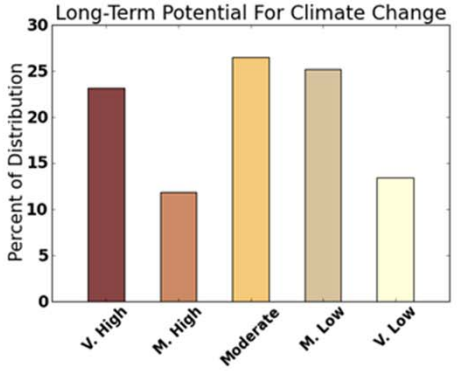


Assessing Potential Climate Change Impacts on Conservation Elements

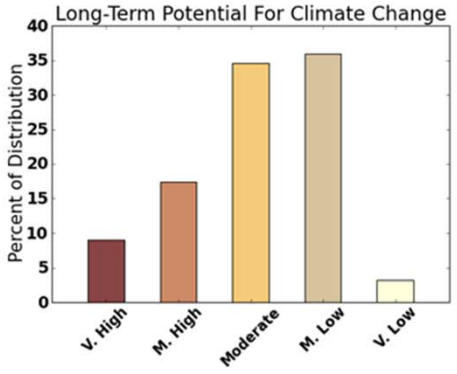
Razorback Sucker



Flannelmouth Sucker

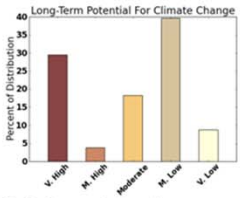


Colorado Cutthroat Trou

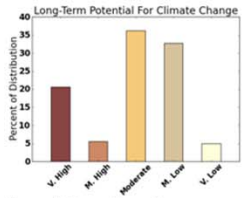


Assessing Potential Climate Change Impacts on Conservation Elements

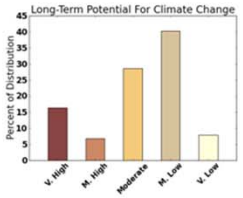
Colorado Plateau Blackbrush-Mormon-tea Shrubland



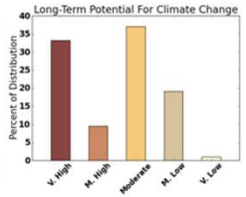
Colorado Plateau Mixed Bedrock Canyon and Tablelands



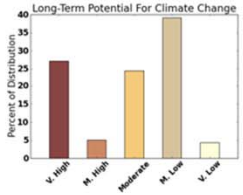
Inter-Mountain Basins Mixed Salt Desert Scrub



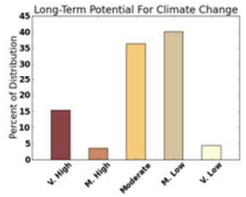
Colorado Plateau Pinyon-Juniper Woodland



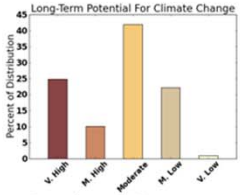
Inter-Mountain Basins Big Sagebrush Shrubland



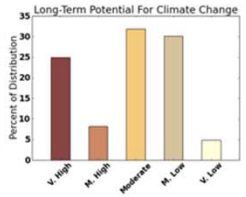
Colorado Plateau Pinyon-Juniper Shrubland



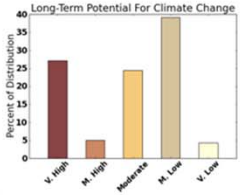
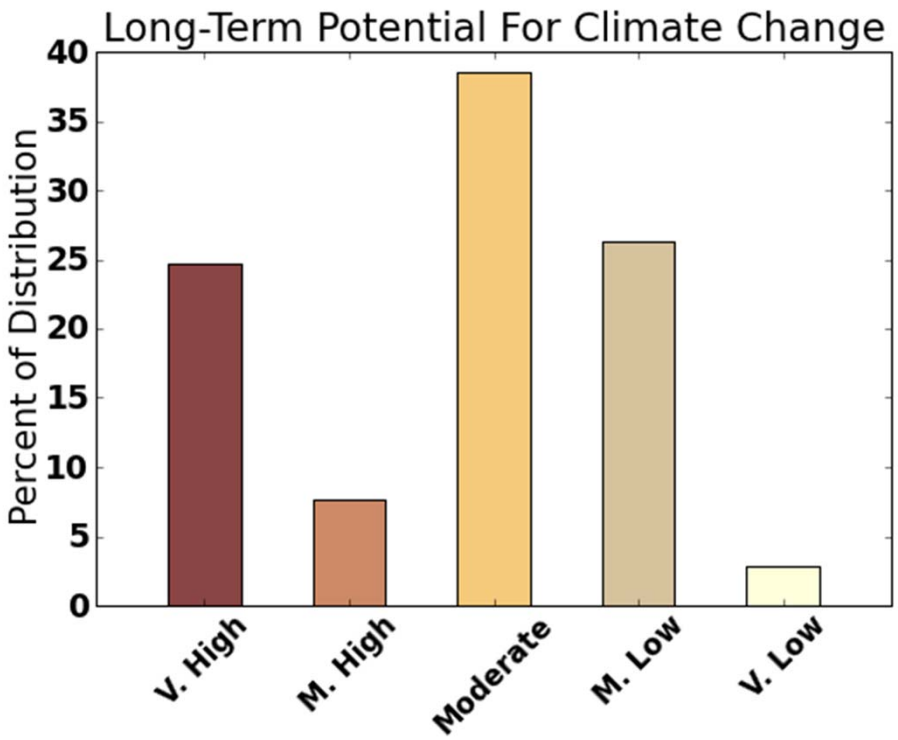
Rocky Mountain Gambel Oak-Mixed Montane Shrubland



Riparian Vegetation



Inter-Mountain Basins Montane Sagebrush Steppe



Assessing Potential Climate Change Impacts on Designated Lands