

Line	Item	Factor Area	Definitions at Bottom of Sheet Conservation measure	New Point Value
A: The Present or Threatened Destruction, Modification, or Curtailment of Habitat or Range				
Habitat Fragmentation & Destruction				
Conversion of suitable habitat				
1	A1a SB		bring disturbed lands to desired condition, encourage sagebrush-grasslands species	6
2	A1a LS		bring disturbed lands to desired condition, encourage shortgrass species	5
3	A1b SB		commit to no new conversion of sagebrush to cropland	6
4	A1b LS		commit to no new conversion of short grass prairie to cropland	6
Energy development: Mining				
5	A2 SB		increase extent of sagebrush/forb mosaic	2
6	A3 SB		substitute native sagebrush grassland seed mix in lieu of post-mine improved pasture seed mix	3
7	A4 SB		incorporate landscape scale sagebrush obligate lifecycle needs into mine reclamation plan	6
Energy development: Non-renewable				
8	A5 SB		limit surface disturbance to 5% of suitable habitat per 640 acres	9
9	A2a LS		limit surface disturbance to 5% of suitable habitat per 640 acres	9
10	A6a SB		decrease well pad size by 20% in suitable habitat	4
11	A2b LS		decrease well pad size by 20% in shortgrass habitat	4
12	A6b SB		use drill pad mats on all level sites in suitable habitat	5
Facilities: Detrimental Siting Due to Lack of Information				
13	A7a SB		collect sighting & pellet count information and provide to TBGPEA for dissemination	3
14	A3a LS		collect sighting & prairie dog colony extent information & provide to TBGPEA for dissemination	2
15	A7b SB		conduct collaring studies & provide to TBGPEA for dissemination (sage-grouse)	4
16	A3b LS		conduct prairie dog density studies, nest success surveys, etc. & provide to TBGPEA for dissemination	4
Facilities: High Profile				
17	A8a SG		avoid siting facilities within 6/10mi of suitable habitat (sage-grouse)	2
18	A8b SG		commit to bury power lines, marking guy wires, designing facilities to limit raptor use, etc. (SG)	2
Fences				
19	A9a SG		remove fences in suitable habitat (sage-grouse)	1
20	A9b SG		remove fences and mark remaining fences (sage-grouse)	1
21	A9c SG		avoid new fences within 6/10mi of suitable habitat (sage-grouse)	1
Fragmentation: General				

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22	A10a	SB	obtain or donate conservation easements with minimum 10 year term	8
23	A4a	LS	obtain or donate conservation easements with minimum 10 year term	8
24	A10b	SB	obtain or donate acreage for use as a grass bank	5
25	A10c	SG	protect, enhance or restore habitat linkages between 320 acre minimum blocks (sage-grouse)	2
26	A4b	LS	establish low structure buffer zones around prairie dogs colonies to encourage expansion	3
27	A5a	LS	map and protect active prairie dog colonies	3
28	A5b	LS	encourage rebuilding of burrows utilizing light, ground disturbing activities	3
29	A5c	LS	facilitate new prairie dog colony establishment or expansion using artificial burrows	4
30	A5d	LS	successfully relocate prairie dogs onto suitable lands	6
31	A5e	MP	enhance or maintain active habitat areas using prescribed fire and grazing (mountain plover)	2
32	A5f	BO	construct and install artificial nest burrows (burrowing owl)	1
33	A5g	FH	build or enhance flat-topped rock outcrops for use as nest sites (ferruginous hawk)	1
34	A5h1	FH	<u>protect</u> small hills and ridges and use focused grazing to maintain low structure (ferruginous hawk)	1
35	A5h2	FH	<u>protect</u> small hills and ridges and <u>use focused grazing</u> to maintain low structure within 5mi of nests (ferruginous hawk)	1
36	A5i	FH	protect active or potential nesting trees within 5mi of active prairie dog colonies (ferruginous hawk)	1
Fragmentation - Brewer's sparrow				
37	A11a	BS	protect suitable habitat (Brewer' sparrow)	2
38	A11b	BS	protect habitat with known breeding activity (Brewer' sparrow)	3
39	A11c	BS	identify and enhance sagebrush stands to create suitable habitat (Brewer' sparrow)	2
40	A11d	BS	treat Russian thistle in areas of suitable habitat and reseed (Brewer' sparrow)	2
Fragmentation - sage sparrow				
41	A12a	SS	protect suitable habitat (sage sparrow)	2
42	A12b	SS	protect habitat with known breeding activity (sage sparrow)	3
43	A12c	SS	identify and enhance sagebrush stands to create suitable habitat (sage sparrow)	2
44	A12d	SS	establish in-fill or peripheral sagebrush areas (sage sparrow)	2
Fragmentation - sage thrasher				
45	A13a	ST	protect suitable habitat (sage thrasher)	2
46	A13b	ST	protect habitat with known breeding activity (sage thrasher)	3
47	A13c	ST	identify and enhance sagebrush stands to create suitable habitat (sage thrasher)	2
Inappropriate livestock & wildlife grazing management				

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48	A14a SB		develop and follow a high structure grazing management plan approved by TBGPEA	7
49	A6a LS		establish low (≤ 4 ") plant structure with a minimum of 30% bare ground (10-40 acre patches) on 1-5% of enrolled acres	3
50	A14b SB		develop and sponsor a high structure grazing management plan approved by TBGPEA	8
51	A14c SB		develop and follow a grazing management plan for entire ranch approved by TBGPEA	10
52	A6b FH		develop and follow a grazing management plan that develops suitable habitat approved by TBGPEA (ferruginous hawk)	1
53	A14d SB		place attractants in upland locations which minimize impact to sagebrush obligate habitat	3
54	A6c LS		utilize attractants to develop and/or maintain shortgrass species habitat	3
55	A14e SB		utilize public hunting access to manage wildlife numbers and associated habitat conditions	3
56	A15 SG		manage for ≥ 6 " residual vegetation height from 4/1 - 6/15 in nesting areas (sage-grouse)	8
Invasive species				
57	A16a1 SB		control annual bromes within a contiguous 320 acre block or 10% of CI area if less than 1,000 acres	4
58	A7a1 MP		control annual bromes within a contiguous 320 acre block or 10% of CI area if less than 1,000 acres (mountain plover)	1
59	A16a2 SB		control annual bromes (A16a1) and reseed with native sagebrush obligate species	7
60	A7a2 MP		control annual bromes (A7a1) and reseed with native shortgrass species (mountain plover)	2
61	A16b SB		control Russian olive and/or salt cedar within drainage areas	4
62	A16c SB		remove pine, juniper, or non-sagebrush shrubs within 1/4 mile of documented habitat	3
63	A16d SB		control invasive plants other than annual bromes in a managed area of at least 320 acres	3
64	A16e SB		control invasive or noxious weeds on rural homesites	1
Loss of green vegetation and insects				
65	A17a SB		increase soil saturation while avoiding standing water by developing new water sources	2
66	A17b SB		increase soil saturation by installing effective snow fences to deposit snow in or near ephemeral draws	1
67	A17c SB		increase soil saturation by installing water detention (spreader) structures in ephemeral draws	2
68	A17d SB		increase soil saturation by reducing output of alluvial wells	1
69	A17e SB		develop additional water sources (a-d) and reseed areas with native forbs	2
70	A18a SB		protect seeps and springs from excessive herbivore use	3
71	A18b SB		place attractants at least 1/4 mile from riparian habitats, springs, seeps, or green areas	4
Power Lines				
72	A19a SB		site distribution and transmission lines ≥ 0.6 mi from suitable habitat (operators)	6
73	A19b SB		sign surface use agreement that avoids power lines within 0.6mi of suitable habitat (landowners)	6
74	A8a birds		site distribution and transmission lines $\geq 1/4$ mi from suitable habitat & > 5 mi from active ferruginous hawk nests (operator)	3

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75	A8b birds		sign agreement that avoids power lines within 1/4mi of suitable habitat & 5mi of active ferruginous hawk nests (landowner)	3
76	A19c SB		move or bury existing power lines within 1/4mi of suitable habitat & 5mi of active ferruginous hawk nests	8
77	A8c birds		move or bury existing power lines within 1/4mi of suitable habitat & 5mi of active ferruginous hawk nests	5
Roads				
78	A20a SB		close & reclaim existing roads within 3mi of leks or 1-1/4mi of suitable passerine habitat	1
79	A9a LS		close & reclaim existing roads within 1mi of suitable habitat	1
80	A20b SB		avoid building new roads within 6/10mi of suitable habitat	5
81	A9b LS		avoid building new roads within 1/4mi of suitable habitat	5
Subdividing Native Habitats				
82	A21a SB		commit to preserving existing land configuration, no new subdivisions, etc.	6
83	A10 LS		commit to preserving existing land configuration, no new subdivisions, etc.	6
84	A21b SB		keep native habitat on \geq 60% of existing homesites	1
Wildfires				
85	A22a SB		suppress wildfires in suitable habitat	1
86	A22b SB		after wildfires, control invasives & reseed if necessary	3
Windmills				
87	A23 SG		retrofit existing windmill pump systems and move windmill towers within 1/4mi of suitable habitat (SG)	1
Habitat Curtailment				
Crop lands				
88	A24a SB		delay cutting and baling activities until after July 31	1
89	A11 LS		establish tall grass buffers between prairie dog colonies and active crop lands	1
90	A24b SB		reduce mortality by changing harvest techniques	1
91	A12 MP		forego field activities from 4/10 - 7/10 in areas within 1/4mi of suitable habitat (mountain plover)	2
Energy Development: Mining				
92	A25a SB		consider habitat needs & avoid new surface occupancy and disturbance within 6/10mi of leks from 3/1 - 5/15, 6pm-8am	5
93	A25b SB		consider nesting habitat within 3mi of lek; avoid surface disturbance within 6/10mi of nests from 3/1 - 5/15, 6pm-8am	5
94	A26a SB		protect seedling sagebrush from big game / from big game & rabbits	1
Excessive Sagebrush Canopy				
95	A27a SG		decrease sagebrush canopy through focused winter feeding in suitable habitat (sage-grouse)	1
96	A27b SG		seed desirable native forbs and cool-season grasses in suitable habitat (sage-grouse)	3

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Human Disturbance				
97	A28a	SG	avoid new surface occupancy within 6/10mi of leks & disturbance within 6/10mi of leks from 3/1 - 5/15, 6pm-8am (sage-g	2
98	A13a	FH	avoid new surface occupancy & disturbance within 1/2mi of active nests from 3/15 - 7/31 (ferruginous hawk)	2
99	A28b	SG	restrict surface disturbance activities within 3mi of leks from 3/1 - 6/15 (sage-grouse)	1
100	A13b	LS	avoid or limit activity & disturbance within 1mi of occupied habitat from 3/15 - 9/15	6
101	A13c	MP	avoid human disturbance within 1/4mi of occupied habitat from 4/10 - 7/15 (mountain plover)	2
102	A28c	SG	limit noise levels to 10dBA above ambient measured at lek perimeter from 3/1 - 5/15, 6pm-8am (SG)	1
103	A13d	LS	commit to topsoil stripping from 9/15 - 3/15	4
Inappropriate / Poor Quality Reclamation				
104	A29a	SB	seed disturbed and reclaimed areas with native seed mix	2
105	A14	LS	use shortgrass seed mixes for reclaiming disturbed areas	1
106	A29b	SB	develop and field test seed mixes	5
107	A29c	SB	develop and fund a custom grow program for sagebrush and forb seeds	8
108	A30a	SB	separate topsoil during construction of facilities (operators)	4
109	A30b	SB	obtain surface damage agreements that require topsoil separation (landowners)	4
110	A31	SB	commit to appropriate wind & water erosion control above and beyond regulatory requirements	3
111	A32	SB	obtain surface damage agreements that require invasive species control & reclaim with native seed mix (landowner)	4
Prescribed Fires				
112	A33a	SB	avoid prescribed fires within 6mi of known leks and 1-1/4mi of known passerine habitat	5
113	A33b	SB	use site-specific prescribed burn plans approved by TBGPEA within 6mi of leks, control invasives, reseed if necessary	8
Roads				
114	A34a	SB	implement annual dust control within suitable habitat	1
115	A15a		implement annual dust control within suitable habitat	1
116	A34b	SB	close roads and two tracks from 3/1 - 6/15 in suitable habitat (sage-grouse)	5
117	A34c	SB	close roads and two tracks from 3/15 - 7/31 in suitable habitat (sagebrush passerines)	4
118	A15b		close roads within 1/4mi of active prairie dog colonies from 4/10 - 7/10	4
119	A15c		place speed restrictions on roads within 1/4mi of active prairie dog colonies from 4/10 - 7/10	2

B: Overutilization for Commercial, Recreational, Scientific, or Educational Purposes
 Recreational shooting

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120	B1a	LS	manage recreational shooting of prairie dogs to maintain ≥ 10 active burrows per acre	2
121	B1b	LS	commit to no shooting of prairie dogs within CI area	4
C: Disease and Predation				
Disease				
West Nile Virus				
122	C1a	SB	control mosquito larvae in > 75% of surface water impoundments within 5mi of leks or 3mi suitable habitat	4
123	C1b	SB	control mosquito larvae by breaching impoundments	1
124	C1c	SB	control mosquito larvae by breaching impoundments and replacing with water well	3
125	C1d	SB	control mosquito larvae by treating or draining all stock tanks not in use	3
126	C1e	SB	control mosquito larvae in tire storage areas or junkyards	2
127	C2a	SB	build bat houses to encourage bat populations which aid in mosquito control	2
128	C2b	SB	discourage mosquito overwintering and breeding in containers and woodpiles	3
Plague				
129	C1a	LS	commit not to poison remaining prairie dogs while the population is at a low level following a plague event	9
130	C1b	LS	encourage a mixture of large and small prairie dog colonies	5
Predation				
131	C3a	SB	remove or routinely burn existing dumps, landfills, or garbage piles within 4.3mi suitable habitat	2
132	C2a	LS	remove or routinely burn existing dumps, landfills, or garbage piles within 4.3mi suitable habitat	2
133	C3b	SB	utilize non-attractant waste disposal methods, particularly for areas within 4.3mi suitable habitat	3
134	C2b	LS	utilize non-attractant waste disposal methods within 4.3mi of suitable habitat	3
135	C3c	SB	remove brush piles and downed trees with 3mi of suitable habitat	3
136	C2c	LS	remove brush piles and downed trees with 3mi of suitable habitat	2
137	C3d	SG	remove standing dead trees within 1/4mi of active leks (sage-grouse)	1
138	C2d	MP	remove riparian brush and thickets within 1/4mi of active habitat (mountain plover)	1
139	C3e	SG	provide surface or aerial access to APHIS for red fox, skunk, and badger within 3mi of leks (sage-grouse)	1
140	C2e	LS	provide surface or aerial access to APHIS for red fox, skunk, and badger	2
141	C3f	SG	develop and disseminate public education material on appropriate predator control (sage-grouse)	1
D: Inadequacy of Existing Regulatory Mechanisms				

Line	Item	Factor Area	Definitions at Bottom of Sheet Conservation measure	New Point Value
Local Land Use Laws, Processes, and Ordinances				
On- and Off-road Use of Suitable Habitat				
142	D1a SB		sign agreement that prevents recreational use during key sagebrush obligate life cycle activities	4
143	D1 LS		sign surface use agreement that prevents recreational use from 4/10 - 7/15	3
144	D1b SG		move livestock on horseback or on foot (restrict use of dogs) in suitable habitat (sage-grouse)	1
Human Disturbance in Adjacent Near-lek Areas				
145	D2 SG		minimize human disturbance within 3mi of leks from 3/1 - 6/15 (sage-grouse)	2
Recreational Lek Observations				
146	D3 SG		manage lek viewing impacts by establishing lek viewing protocols (sage-grouse)	1
Split Estate				
147	D4 SB		sign a cooperative management plan between surface and mineral rights owner	7
148	D2 LS		sign a cooperative management plan between surface and mineral rights owner	7
E: Other Natural or Manmade Factors Affecting the Species' Continued Existence				
Drought				
Damage to Existing Green Areas				
149	E1 SB		reduce sedimentation on ephemeral draws by stabilizing head cuts in suitable habitat	1
Lack of Suitable Water Availability				
150	E2a SB		establish guzzlers or other ground level watering sources	1
151	E2b SB		install and maintain TBGPEA approved wildlife escape ramps and livestock barriers	3
152	E2c SB		replace existing, poorly designed ramps and barriers with TBGPEA approved ramps and barriers	3
Control of Prey / Food Sources - CMs for control associated with a management plan				
153	E1 LS		commit to not poisoning prairie dogs except within 1/4 mile of human habitations	9
154	E2a FH/BO		commit to rodent control programs that lower highs and aren't employed during lows (ferruginous hawk / burrowing owl)	2
155	E2b FH/BO		commit to not using anticoagulant rodenticides for prairie dog control (ferruginous hawk / burrowing owl)	3
156	E2c FH		use only non-toxic and nonexpanding bullets for prairie dog hunting (ferruginous hawk)	1
Use of Insecticides				
157	E3a birds		commit to applying insecticide to those lands outside of 1/4mi radius around active prairie dog colonies	3
158	E3a SB		commit to not using carbofuran insecticides	4
159	E3b birds		commit to not using carbofuran insecticides (shortgrass birds)	4

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160	E3b SB		commit to RAATS for all insecticide spraying within CI area	6
161	E3c birds		commit to RAATs and avoid grasshopper control within all occupied prairie dog colonies (shortgrass birds)	5
Lack of Education				
162	E4a SB		develop and fund two media spots describing CCAA conservation programs	1
163	E4a LS		develop and fund two media spots describing CCAA conservation programs	1
164	E4b SB		work with Conservation Districts to sponsor two Small Acreage Workshops	1
165	E4b LS		work with Conservation Districts to sponsor two Small Acreage Workshops	1
166	E4c SB		develop and present sagebrush obligate related information in classrooms	1
167	E4c LS		develop and present shortgrass species related information in classrooms	1
168	E4d SB		develop material on impacts of fragmentation and benefits of weed control and provide to teachers	1
169	E4d LS		develop material on impacts of fragmentation and benefits of weed control and provide to teachers	1
170	E4e SB		sponsor outreach activities for educators and their classes along with interested public	1
171	E4e LS		sponsor outreach activities for educators and their classes along with interested public	1

Item refers to conservation measure - green tinted blocks are for shortgrass species, blue tinted blocks are for sagebrush obligates
Item codes are as follows

- birds** burrowing owl, ferruginous hawk, mountain plover
- BO** burrowing owl
- BS** Brewer's sparrow
- FH** ferruginous hawk
- LS** shortgrass species
- MP** mountain plover
- PA** sagebrush obligate passerines (sage sparrow, sage thrasher, Brewer's sparrow)
- SB** sagebrush obligates
- SG** sage-grouse
- SS** sage sparrow
- ST** sage thrasher