

Idaho and southwestern Montana Sage-Grouse EIS Alternatives

Alternative C

January 28, 2013

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
1	Purpose	Foundational	N/A	N/E	Action: No Similar Action
2	Scope	Foundational	N/A	N/E	Action: No Similar Action
3	Purpose	Foundational	N/A	N/E	Action: No Similar Action
4	Best Management Practices	Process	N/A	N/E	Action: No Similar Action
5	Scope and Applicability	Process	N/A	N/E	Action: No Similar Action
6	Goal	SG Abundance and Distribution	All	Acres of Habitat	GOAL: Maintain and/or increase current sage-grouse abundance and distribution by conserving, enhancing or restoring the sagebrush ecosystem upon which populations depend in cooperation with other conservation partners.
7	Objective	Habitat Disturbance	Human Disturbance	Acres of Habitat	Objective: No similar objective.
8	Scope	Foundational	N/A	N/E	Action: No Similar Action
9	Objective	Designation of Habitat Areas	All	Acres of PPH/PGH map of pph by alternative	Objective: No similar objective.
10	Objective	Designation of Habitat Areas	All	Acres of PPH/PGH map of pph by alternative	Action: No Similar Action
11	Objective	DFC	All	Acres of sagebrush habitat	Objective: No similar objective.
12	Objective	group	N/A	N/E	Action: No Similar Action
13	Objective	group	N/A	N/E	Sub-objective: No similar sub-objective.
14	Objective	DFC Thresholds	Infrastructure Human Disturbance	Acres of Habitat	Sub-objective: No similar sub-objective.
15	Objective	Distribution	All	Acres of Habitat	Action: No Similar Action
16	Objective	Disturbances sagebrush	Human Disturbance	Acres of Habitat	Action: No Similar Action

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17	Objective	Connectivity	All	Acres of Habitat	Sub-objective: No similar sub-objective.
18	Objective	Connectivity	All	Acres of Habitat	Sub-objective: No similar sub-objective.
19	Objective	Data Collection	All	N/E	Sub-objective: No similar sub-objective.
20	Objective	Rehabilitation	All	Acres of Habitat	Objective: Restore and maintain sagebrush steppe to its ecological potential in occupied sage-grouse habitat.
21	Objective	ACEC	All	N/E	Objective: Establish a system of sagebrush reserves to anchor recovery efforts by protecting the highest quality habitats.
22	Scope	Process	All	N/E	Action: No Similar Action
23	Mapping	Mapping	All	N/E	Unless otherwise specified, actions under Alternative C would apply to all occupied sage-grouse habitat. There will be no general habitat under Alternative C. When management actions below are the same as Alternative C, they would apply to occupied habitat. There will be no general habitat under Alternative C.
24	Mapping	Populations	All	N/E	Action: No Similar Action
25	Mapping	Mapping	All	N/E	Action: No Similar Action
26	Mapping	Mapping	All	N/E	Action: No Similar Action
27	Mapping	Mapping	All	N/E	Action: No Similar Action
28	Mapping	Mapping	All	N/E	Action: No Similar Action
29	Mapping	Mapping	All	N/E	Action: No Similar Action
30	Mapping	Mapping	All	N/E	Action: No Similar Action
31	Mapping	Mapping	All	N/E	Action: No Similar Action
32	Mapping	Mapping	All	N/E	Action: No Similar Action
33	Mapping	Process	All	N/E	Action: No Similar Action
34	Mapping	Mapping	All	N/E	Action: No Similar Action
35	Mapping	Mapping	All	N/E	Action: No Similar Action
36	Mapping	Mapping	All	N/E	Action: No Similar Action
37	Mapping	Mapping	All	N/E	Action: No Similar Action
38	Mapping	Process	All	N/E	Action: No Similar Action
39	Mapping	Process	All	N/E	Action: No Similar Action
40	Management Focus	Priorities	Wildfire	Acres of Habitat, Acres of Habitat Burned	Action: No Similar Action
41	Management Focus	Process	All	N/E	Action: No Similar Action
42	Management Focus	Uses	All		Action: No Similar Action
43	Indicators	Process			Action: No Similar Action
44	Desired Future Conditions	DFC	All	Acres of Habitat	Action: No Similar Action

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45	Desired Future Conditions	DFC	All	Acres of Habitat	Action: No Similar Action
46	Implementation	Policy	All	N/E	Action: No Similar Action
47	Collaboration	Resiliency	All	Acres of Habitat	Action: No Similar Action
48	Adaptive Management	Process	All	N/E	Action: No Similar Action
49	Adaptive Regulatory Triggers	Process	All	N/E	Action: No Similar Action
50	Adaptive Regulatory Triggers	Process	All	N/E	Action: No Similar Action
51	Adaptive Regulatory Triggers	Wildfire	Wildfire	Acres of Habitat	Action: No Similar Action
52	Adaptive Management	Trigger	Wildfire	Acres of Habitat	Action: No Similar Action
53	Adaptive Management	Trigger	Wildfire	Acres of Habitat	Action: No Similar Action
54	Adaptive Management	Grazing	Grazing	Acres of Habitat	Action: No Similar Action
55	Adaptive Management	Process	All	Population	Action: No Similar Action
56	Adaptive Management	Trigger	Wildfire	Acres of Habitat	Action: No Similar Action
57	Adaptive Management	Trigger	Wildfire	Acres of Habitat	Action: No Similar Action
58	Adaptive Management	Wildfire	Wildfire	Acres of Habitat	Action: No Similar Action
59	Adaptive Management	Process	All	N/E	Action: No Similar Action
60	Adaptive Management	Process	All	N/E	Action: No Similar Action
61	Adaptive Regulatory Triggers	Trigger	All	Acres of Designation	Action: No Similar Action
62	Valid Existing Rights	Foundational	N/A	Acres of Rights	Action: No Similar Action

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63	Valid Existing Rights	Foundational	N/A	Acres of Rights	Action: No Similar Action
64	Valid Existing Rights	Foundational	Minerals	Acres of valid existing rights	Action: No Similar Action
65	Valid Existing Rights	Foundational	Minerals	Acres of Mining	Action: No Similar Action
66	Valid Existing Rights	Valid Existing Rights	All	Acres of Valid Existing Rights	Action: No Similar Action
67	Mitigation	Process	Infrastructure	Acres/miles of infrastructure	Action: No Similar Action
68	Mitigation	Process	All	Acres of habitat treated	Action: No Similar Action
69	Mitigation	Restoration	All	Acres Treated	Action: No Similar Action
70	Mitigation	Restoration	All	Acres Treated	Action: No Similar Action
71	Monitoring	Process	Wildfire, Invasives, Infrastructure	Acres of wildfire, invasives, infrastructure	Action: No Similar Action
72	Monitoring	Process	Grazing	Acres of threat	Action: No Similar Action
73	Monitoring	Process	All		Action: No Similar Action
74	Monitoring	Process	Wildfire	Acres of treatment	Action: No Similar Action
75	Monitoring	Process	All	Acres	Action: No Similar Action
76	Monitoring	Process	All	Population numbers	Action: No Similar Action
77	Monitoring	process	grazing	acres in DFC	Action: No Similar Action
78	Monitoring	Process	Grazing	Acres in DFC	Action: No Similar Action
79	Land Use Authorizations	Land Use Authorizations			Action: No Similar Action
80	Land Use Authorizations	Land Use Authorizations			Action: No Similar Action
81	Land Use Authorizations	Land Use Authorizations			Action: No Similar Action
82	Land Use Authorizations	Land Use Authorizations			Action: No Similar Action
83	Land Use Authorizations	Land Use Authorizations			Action: No Similar Action
84	Land Use Authorizations				Action: No Similar Action

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85	Land Use Authorizations				Action: No Similar Action
86	Land Use Authorizations				Action: No Similar Action
87	Land Use Authorizations				Action: No Similar Action
88	Land Use Authorizations				Action: No Similar Action
89	Land Use Authorizations				Action: No Similar Action
90	Land Use Authorizations				Action: No Similar Action
91	Land Use Authorizations	Exclusion	Infrastructure	Acres excluded, acres below 3%, acres of avoidance	<p>Action: Make-up Occupied sage-grouse habitat areas shall be exclusion areas for new ROWs permits. Consider the following exceptions:”</p> <p>“Within designated ROW corridors encumbered by existing ROW authorizations: new ROWs may be co-located only if the entire footprint of the proposed project (including construction and staging), can be completed within the existing disturbance associated with the authorized ROWs.”</p> <p>“Subject to valid, existing rights: where new ROWs associated with valid existing rights are required, co-locate new ROWs within existing ROWs or where it best minimizes sage-grouse impacts. Use existing roads, or realignments as described above, to access valid existing rights that are not yet developed. If valid existing rights cannot be accessed via existing roads, then build any new road constructed to the absolute minimum standard necessary, and add the surface disturbance to the total disturbance in the priority area. If that disturbance exceeds 3% for that area, then make additional effective mitigation necessary that has been demonstrated to be effective to offset the resulting loss of sage-grouse <u>habitat</u>. (WEG)</p>
92	Land Use Authorizations	Underground	Infrastructure	miles of lines buried	Action: Same as Alternative B (WEG)” ““ “
93	Land Use Authorizations	Reclamation	Infrastructure	miles of line reclaimed	Action: Same as Alternative B (WEG)” ““ “
94	Land Use Authorizations	Relocation	Infrastructure	miles of line relocated, acres excluded	Action: Same as Alternative B (WEG)” “
95	Land Use Authorizations	Avoidance	Infrastructure	acres of avoidance	Action: No similar action.” “
96	Land Use Authorizations	Co-location	Infrastructure	miles of lines; footprint area	Action: No similar action.
97	Land Use Authorizations	Land Tenure	Urbanization/Conversion	acres retained; acres of habitat	Action: Same as Alternative B, without exceptions for disposal to consolidate ownership that would be beneficial to sage-grouse.
98	Land Use Authorizations				Action: No Similar Action
99	Land Use Authorizations	Acquisition	Urbanization/Conversion	acres identified for acquisition	Action: No similar action.
100	Land Use Authorizations	Withdrawal	Mining	acres withdrawn	Action: Same as Alternative B. (WEG)” ““ ““ “

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101	Land Use Authorizations	Withdrawal	Mining	Acres closed/withdrawn	Action: Do not approve withdrawal proposals not associated with mineral activity unless the land management is consistent with sage-grouse conservation measures. (For example, in a proposed withdrawal for a military training range buffer area, manage the buffer area with sage-grouse conservation measures <u>that have been demonstrated to be effective.</u>) (WEG)
102	Land Use Authorizations	Corridors	Infrastructure	Acres/miles of corridors	Action: No similar action.
103	Land Use Authorizations	BMPs	Predation	Acres	No action.
104	Land Use Authorizations	Wind Energy	Infrastructure	Acres available for renewable	Action: No Similar Action
105	Land Use Authorizations	unauthorized uses	infrastructure	acres	Action: Do not site wind energy development in occupied sage-grouse habitat (Jones 2012). (WEG)
106	Wind Energy Development	siting	Infrastructure	acres available for wind	Action: Site wind energy development at least five miles from active sage-grouse leks. (WEG)
107	Wind Energy Development	siting	Infrastructure	Acres available for wind	No action.
108	Wind Energy Development	Siting	Infrastructure	acres of ROW avoidance	No action.
109	Wind Energy Development	siting	Infrastructure	acres of ROW avoidance/exclusion	Action: No Similar Action
110	Wind Energy Development				Action: No similar action.
111	Industrial Solar				Action: No Similar Action
112	Industrial Solar				No action.
113	All Renewable Energy				Action: No Similar Action
114	All Renewable Energy				Action: No Similar Action
115	Habitat Restoration and Vegetation Management				Action: Prioritize implementation of restoration projects based on environmental variables that improve chances for project success in areas most likely to benefit sage-grouse (Meinke et al. 2009).” ““ “Prioritize restoration in seasonal habitats that are thought to be limiting sage-grouse distribution and/or abundance <u>and where factors causing degradation have already been addressed (e.g., changes in livestock management).</u> (WEG)” “
116	Habitat Restoration and Vegetation Management				Action: Include sage-grouse habitat <u>objectives parameters as defined by Connelly et al. (2000), Hagen et al. (2007) or if available, State Sage-Grouse Conservation plans and appropriate local information</u> in habitat restoration <u>projects objectives</u> . Make meeting these objectives within occupied sage-grouse habitat the highest restoration priority. (WEG)

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117	Habitat Restoration and Vegetation Management				Action: No similar action.
118	Habitat Restoration and Vegetation Management				Action: Same as Alternative B.” “
119	Habitat Restoration and Vegetation Management				Action: Same as Alternative B.
120	Habitat Restoration and Vegetation Management				Action: Same as Alternative B. (WEG)
121	Habitat Restoration and Vegetation Management				Action: No similar action.
122	Habitat Restoration and Vegetation Management				Action: No similar action.
123	Habitat Restoration and Vegetation Management				Action: Same as Alternative B. (WEG)
124	Habitat Restoration and Vegetation Management				No action.” “

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125	Habitat Restoration and Vegetation Management				Action: No Similar Action
126	Habitat Restoration and Vegetation Management				Action: No Similar Action
127	Habitat Restoration and Vegetation Management				No action.
128	Habitat Restoration and Vegetation Management				No action.
129	Habitat Restoration and Vegetation Management				Action: Avoid sagebrush reduction/treatments to increase livestock or big game forage in occupied habitat and include plans to restore high-quality habitat in areas with invasive species. (Audubon)
130	Habitat Restoration and Vegetation Management				No action.” “
131	Habitat Restoration and Vegetation Management				No action.
132	Habitat Restoration and Vegetation Management				Action: No Similar Action

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133	Habitat Restoration and Vegetation Management				No action.
134	Habitat Restoration and Vegetation Management				No action.
135	Habitat Restoration and Vegetation Management				Action: In sage-grouse habitat, ensure that soil cover and native herbaceous plants are at their ESD potential to help protect against invasive plants. In areas without ESDs, reference sites would be utilized to identify appropriate vegetation communities and soil cover.
136	Habitat Restoration and Vegetation Management				Action: No Similar Action
137	Habitat Restoration and Vegetation Management				Action: No Similar Action
138	Habitat Restoration and Vegetation Management				Action: No Similar Action
139	Integrated Invasive Species Management				Action: No Similar Action
140	Invasive Species				Action: No Similar Action
141	Invasive Species				Action: No Similar Action
142	Invasive Species				Objective: Develop and implement methods for prioritizing and restoring sagebrush steppe invaded by nonnative plants. (WEG)
143	Invasive Species				No action.

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144	Invasive Species				Action: No Similar Action
145	Invasive Species				No action.
146	Invasive Species				No action.
147	Invasive Species				No action.
148	Invasive Species				Action: No Similar Action
149	Fire Management				Action: No Similar Action
150	Fire Management				Action: No Similar Action
151	Fire Management				Action: No Similar Action
152	Fire Management				Action: No Similar Action
153	Fire Management				Action: No Similar Action
154	Fire Management				Action: No Similar Action
155	Fire Management				Action: Design and implement fuels treatments with an emphasis on protecting existing sagebrush ecosystems. “ “Do not reduce sagebrush canopy cover to less than 15% (Connelly et al. 2000, Hagen et al. 2007) unless a fuels management objective requires additional reduction in sagebrush cover to meet strategic protection of occupied sage-grouse habitat and conserve habitat quality for the species. “ “Closely evaluate the benefits of the fuel break against the additional loss of sagebrush cover in the EA process. “ “Apply appropriate seasonal restrictions for implementing fuels management treatments according to the type of seasonal habitats present in a priority area.” “Allow no <u>fuels</u> treatments in known winter range unless the treatments are designed to strategically reduce wildfire risk around or in the winter range and will maintain winter range habitat quality. “ “Do not use fire to treat sagebrush in less than 12-inch precipitation zones (e.g., Wyoming big sagebrush or other xeric sagebrush species; Connelly et al. 2000, Hagen et al. 2007, Beck et al. 2009). However, if as a last resort and after all other treatment opportunities have been explored and site specific variables allow, the use of prescribed fire for fuel breaks that would disrupt the fuel continuity across the landscape could be considered, in stands where cheatgrass is a very minor component in the understory (Brown 1982). “ “ Monitor and control invasive vegetation post treatment. ” “ Rest treated areas from grazing for two full growing seasons unless vegetation recovery dictates otherwise (WGFD 2011). ” “ Require use of native seeds for fuels management treatment based on availability, adaptation (site potential), and probability of success (Richards et al. 1998). Where probability of success or native seed availability is low, non-native seeds may be used as long as they meet sage-grouse habitat objectives (Pyke 2011). ” “Design post fuels management projects to ensure long term persistence of seeded or pre-treatment native plants, <u>including sagebrush</u> . This may require temporary or long-term changes in livestock grazing management, wild horse and burro management, travel management, or other activities to achieve and maintain the desired condition of the fuels management project (Eiswerth and Shonkwiler 2006).” ““ “
156	Fire Management				Action: No similar action.
157	Fire Management				Action: No similar action.

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158	Fire Management				Action: No Similar Action
159	Fire Management				Action: No similar action. (WEG)” “
160	Fire Management				Action: No similar action. (WEG)” “
161	Fire Management				Action: No Similar Action
162	Fire Management				Action: Same as Alternative B. (WEG)” “
163	Fire Management				Action: No similar action.” “
164	Fire Management				Action: No Similar Action
165	Fire Management				Action: No Similar Action
166	Fire Management				Action: No Similar Action
167	Fire Management				Action: No Similar Action
168	Fire Management				Action: Same as Alternative B. (WEG)” “
169	Fire Management				Action: No Similar Action
170	Fire Management				Action: No Similar Action
171	Fire Management				Action: No Similar Action
172	Fire Management				Action: No Similar Action
173	Fire Management				Action: Same as Alternative B.
174	Fire Management				Action: Same as Alternative B.
175	Fire Management				Action: Same as Alternative B. (WEG)
176	Fire Management				No action.
177	Fire Management				Action: Establish and strengthen networks with seed growers to assure availability of native seed for ES&R projects. “ “
178	Fire Management				Action: Post fire recovery must include establishing adequately sized exclosures (free of livestock grazing) that can be used to assess recovery. (WEG)

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179	Fire Management				Action: Livestock grazing should be excluded from burned areas until woody and herbaceous plants achieve sage-grouse habitat objectives. (WEG)
180	Fire Management				Action: Where burned sage-grouse habitat cannot be fenced from other unburned habitat, the entire area (e.g., allotment/pasture) should be closed to grazing until recovered. (WEG)
181	Fire Management				Action: No similar action.
182	Fire Management				Action: No Similar Action
183	Fire Management				Action: No Similar Action
184	Fire Management				Action: No Similar Action
185	Fire Management				Action: No Similar Action
186	Fire Management				Action: No Similar Action
187	Fire Management				Action: No Similar Action
188	Non Energy Leasable Minerals				Action: Same as Alternative B. (WEG)” “
189	Non Energy Leasable Minerals				Action: Same as Alternative B. (WEG)” “
190	Solid Minerals - Coal				Action: Same as Alternative B. (WEG)
191	Solid Minerals - Coal				Action: Same as Alternative B. (WEG)
192	Solid Minerals - Coal				Action: Same as Alternative B.” “
193	Solid Minerals - Coal				Action: No similar action.
194	Solid Minerals - Coal				No action.
195	Locatable Minerals				Action: Same as Alternative B.
196	Locatable Minerals				Action: Same as Alternative B. (WEG)” “
197	Locatable Minerals				No action.
198	Locatable Minerals				No action.

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199	Locatable Minerals				No action.
200	Non Locatable Minerals				Action: No Similar Action
201	Non Locatable Minerals				No action.
202	Saleable Minerals				Action: Same as Alternative B. (WEG)” “
203	Saleable Minerals				Action: Same as Alternative B. (WEG)” “
204	Saleable Minerals				Action: No Similar Action
205	Unleased Federal Fluid Mineral Estate				Action: Upon expiration or termination of existing leases, do not accept nominations/expressions of interest for parcels within occupied habitat. (WEG)” “
206	Unleased Federal Fluid Mineral Estate				Action: Allow geophysical exploration within occupied sage-grouse habitat areas to obtain exploratory information for areas outside of and adjacent to occupied sage-grouse habitat areas. Only allow” “geophysical operations by helicopter-portable drilling methods and in accordance with seasonal timing restrictions and/or other restrictions that may apply. <u>Geophysical exploration shall be subject to seasonal restrictions that preclude activities in breeding, nesting, brood rearing and winter habitats during their season of use by sage-grouse.</u> (WEG)” ““ “SUB-ALTERNATIVE:” “Action: No new geophysical exploration permits will be issued. “ ““ “
207	Unleased Federal Fluid Mineral Estate				Action: No Similar Action
208	Unleased Federal Fluid Mineral Estate				Action: Close priority occupied sage-grouse habitat areas to fluid mineral leasing. Consider an exception.” ““ “When there is an opportunity for the BLM to influence conservation measures where surface and/or mineral ownership is not entirely federally owned (i.e., checkerboard ownership). In this case, a plan amendment may be developed that opens sage-grouse habitat for new leasing. The plan must demonstrate long-term population increases in the priority area through mitigation (prior to issuing the lease) including lease stipulations, <u>and</u> off-site mitigation, etc. , and avoid short-term losses that put the sage-grouse population at risk from stochastic events leading to extirpation. “ “
209	Unleased Federal Fluid Mineral Estate				Action: Allow geophysical exploration within occupied sage-grouse habitat areas to obtain exploratory information for areas outside of and adjacent to priority sage-grouse habitat areas. Only allow” “geophysical operations by helicopter-portable drilling methods and in accordance with seasonal timing restrictions and/or other restrictions that may apply. <u>Geophysical exploration shall be subject to seasonal restrictions that preclude activities in breeding, nesting, brood rearing and winter habitats during their season of use by sage-grouse.</u> (WEG)
210	Unleased Federal Fluid Mineral Estate				No action.
211	Leased Federal Fluid Mineral Estate				1. Action: Apply the following conservation measures <u>as Conditions of Approval at the project and well permitting stages, and</u> through RMP implementation decisions and upon completion of the environmental record of review (43 CFR § 3162.5), including appropriate documentation of compliance with NEPA. In this process evaluate, among other things:” “Whether the conservation measure is “reasonable” (43 CFR § 3101.1-2) with the valid existing rights; and” “Whether the action is in conformance with the approved RMP. (WEG)

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212	Leased Federal Fluid Mineral Estate				Conservation Measure: Same as Alternative B. “ “
213	Leased Federal Fluid Mineral Estate				Conservation Measure: Apply a seasonal restriction on exploratory drilling that prohibits surface-disturbing activities during the nesting and early brood-rearing season in all occupied sage-grouse habitat during this period. <u>This seasonal restriction shall also to apply to related activities that are disruptive to sage-grouse, including vehicle traffic and other human presence.</u> (WEG)
214	Leased Federal Fluid Mineral Estate				Conservation Measure: Same as Alternative B. (WEG)
215	Leased Federal Fluid Mineral Estate				Conservation Measure: Same as Alternative B. (WEG)
216	Leased Federal Fluid Mineral Estate				§ Conservation Measure: When permitting APDs on existing leases that are not yet developed, the proposed surface disturbance cannot exceed 3% <u>per section</u> for that area. “ “Consider an exception if:” “Additional, effective mitigation is demonstrated to offset the resulting loss of sage-grouse (see Objectives).” “When necessary, conduct additional, effective mitigation in occupied habitat (dependent upon the area-specific ability to increase sage-grouse populations).” “Conduct additional, effective mitigation first within the same population area where the impact is realized, and if not possible then conduct mitigation within the same Management Zone as the impact, per 2006 WAFWA Strategy – pg 2-17.
217	Leased Federal Fluid Mineral Estate				Conservation Measure: Same as Alternative B.
218	Leased Federal Fluid Mineral Estate				Conservation Measure: Same as Alternative B. (WEG)
219	Leased Federal Fluid Mineral Estate				Conservation Measure: Same as Alternative B. (WEG)
220	Leased Federal Fluid Mineral Estate				Conservation Measure: Same as Alternative B. (WEG)
221	Leased Federal Fluid Mineral Estate				Action: Prohibit the construction of evaporation or infiltration reservoirs to hold coalbed methane wastewater.
222	Leased Federal Fluid Mineral Estate				No action.
223	Leased Federal Fluid Mineral Estate				Action: No similar action.
224	Leased Federal Fluid Mineral Estate				Action: No similar action.

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225	Leased Federal Fluid Mineral Estate				Action: No similar action.
226	Leased Federal Fluid Mineral Estate				Action: No similar action.
227	Mineral Split Estate				Action: Same as Alternative B. (WEG)” “
228	Mineral Split Estate				Action: Same as Alternative B. (WEG)” “
229	Mineral Split Estate				Action: No Similar Action
230	Mineral Split Estate				Action: No Similar Action
231	Mineral Split Estate				Action: No Similar Action
232	Mineral Split Estate				Action: No Similar Action
233	Mineral Split Estate				Action: Same as Alternative B. “ “
234	Mineral Split Estate				Action: Prohibit new road construction within 4 miles of active sage-grouse leks, and avoid new road construction in occupied sage-grouse habitat. (WEG)
235	Mineral Split Estate				Action: Same as Alternative B.” ““ “
236	Mineral Split Estate				Action: Same as Alternative B.
237	Mineral Split Estate				Action: Limit route construction to realignments of existing designated routes if that realignment has a minimal impact on sage-grouse habitat, eliminates the need to construct a new road, or is necessary for motorist safety. <u>Mitigate any impacts with methods that have been demonstrated to be effective to offset the loss of sage-grouse habitat. (WEG)</u>
238	Mineral Split Estate				Action: Same as Alternative B using a 4-mile buffer from leks to determine road route.
239	Mineral Split Estate				Action: Allow no upgrading of existing routes that would change route category (road, primitive road, or trail) or capacity unless the upgrading would have minimal impact on sage-grouse habitat , it is necessary for motorist safety, or eliminates the need to construct a new road. <u>Any impacts shall be mitigated with methods that have been demonstrated to be effective to offset the loss of sage-grouse habitat. (WEG)</u>
240	Mineral Split Estate				Action: Same as Alternative B.
241	Mineral Split Estate				Action: When reseeding <u>closed</u> roads, primitive roads and trails, use appropriate <u>native</u> seed mixes and <u>require</u> consider the use of transplanted sagebrush. (WEG)” “
242	Mineral Split Estate				No action.
243	Mineral Split Estate				No action.

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244	Mineral Split Estate				No action.
245	Recreation and Visitor Services				Action: No Similar Action
246	Recreation and Visitor Services				Action: Same as Alternative B.
247	Recreation and Visitor Services				Action: Seasonally prohibit camping and other non-motorized recreation within 4 miles of active sage-grouse leks. (WEG)
248	Recreation and Visitor Services				No action.
249	Recreation and Visitor Services				Action: No Similar Action
250	Recreation and Visitor Services				Action: No Similar Action
251	Recreation and Visitor Services				Action: No Similar Action
252	Recreation and Visitor Services				Action: No Similar Action
253	Recreation and Visitor Services				Action: No Similar Action
254	Recreation and Visitor Services				Action: No Similar Action
255	Recreation and Visitor Services				Action: No Similar Action
256	Recreation and Visitor Services				Action: No Similar Action
257	Recreation and Visitor Services				Action: No Similar Action

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258	Recreation and Visitor Services				Action: No Similar Action
259	Recreation and Visitor Services				Action: No Similar Action
260	Recreation and Visitor Services				Action: No Similar Action
261	Livestock Grazing				Action: Same as Alternative B.
262	Livestock Grazing				Action: Same as Alternative B.
263	Livestock Grazing				Action: Same as Alternative B. “ “
264	Livestock Grazing				Action: Same as Alternative B.
265	Livestock Grazing				Action: No Similar Action
266	Livestock Grazing				Action: No Similar Action
267	Livestock Grazing				Action: No similar action.
268	Livestock Grazing				Action: Manage for vegetation composition and structure consistent with ecological site potential and within the reference state to achieve sage-grouse habitat objectives.
269	Livestock Grazing				Action: Implement management actions (grazing decisions, AMP/Conservation Plan” “development, or other plans or agreements) to modify grazing management to meet seasonal sage-grouse habitat requirements (Connelly et al. 2011c). Consider singly, or in combination, changes in:” “1. Season, or timing, and/or frequency of livestock use;” “2. Numbers/AUMs of livestock (includes temporary non-use or livestock removal);” “3. Distribution of livestock use;” “4. Intensity of livestock use; and” “5. Type of livestock (e.g., cattle, sheep, horses, llamas, alpacas and goats) (Briske et al.” “2011).
270	Livestock Grazing				Action: During drought periods, prioritize evaluating effects of the drought in priority sage-grouse habitat areas relative to their <u>biological needs for food and cover</u> , as well as drought effects on ungrazed reference areas. Since there is a lag in vegetation recovery following drought (Thurrow and Taylor 1999; Cagney et al. 2010), ensure that post-drought management allows for vegetation recovery that meets sage-grouse needs in priority sage-grouse habitat areas <u>based on sage-grouse habitat objectives</u> . (WEG)
271	Livestock Grazing				Action: Same as Alternative B.
272	Livestock Grazing				Action: No Similar Action
273	Livestock Grazing				Action: Within <u>priority and general</u> sage-grouse habitats, manage wet meadows to maintain a component of perennial forbs with diverse species richness and <u>productivity</u> relative to site potential (e.g., reference state) to facilitate brood rearing. Also conserve or enhance these wet meadow complexes to maintain or increase <u>the</u> amount of edge and cover within that edge to minimize elevated mortality during the late brood-rearing period (Hagen et al. 2007, Kolada et al. 2009, Atamian et al. 2010).

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
274	Livestock Grazing				Action: Same as Alternative B.
275	Livestock Grazing				Action: No Similar Action
276	Livestock Grazing				Action: No Similar Action
277	Livestock Grazing				Action: No Similar Action
278	Livestock Grazing				Action: No similar action.
279	Livestock Grazing				No action.
280	Livestock Grazing				Action: Authorize no new water developments for diversion from spring or seep sources only when within priority sage-grouse habitat would benefit from the development. This includes developing new water sources for livestock as part of an AMP/conservation plan to improve sage-grouse habitat. (WEG)
281	Livestock Grazing				Action: Analyze springs, seeps and associated <u>water developments pipelines</u> to determine if modifications are necessary to maintain the continuity of the predevelopment riparian area within priority sage-grouse habitats. Make modifications where necessary, <u>including dismantling water developments considering impacts to other water uses when such considerations are neutral or beneficial to sage-grouse.</u> (WEG)
282	Livestock Grazing				Action: No Similar Action
283	Livestock Grazing				Action: No Similar Action
284	Livestock Grazing				Action: <u>Ensure that vegetation treatments</u> Restore native (or desirable) plants and create landscape patterns which most benefit sage-grouse. Only allow treatments that conserve, enhance, or restore sage-grouse habitat are demonstrated to benefit sage-grouse and retain sagebrush height and cover consistent with sage-grouse habitat objectives (this includes treatments that benefit livestock as part of an AMP/Conservation Plan to improve sage-grouse habitat). (WEG)
285	Livestock Grazing				Action: Evaluate the role of existing seedings that are currently composed of primarily introduced perennial grasses in and adjacent to priority sage-grouse habitat to determine if they should be restored to sagebrush or habitat of higher quality for sage-grouse. If these seedings are part of an AMP/Conservation Plan or if they provide value in conserving or enhancing the rest of the priority sage-grouse habitats, then no restoration would be necessary. Assess the compatibility of these seedings for sage-grouse habitat or as a component of a grazing system during the land health assessments (Davies et al. 2011). (WEG)” “
286	Livestock Grazing				Action: No Similar Action
287	Livestock Grazing				Action: No Similar Action
288	Livestock Grazing				Action: <u>Avoid all new structural range developments in occupied sage-grouse habitat unless independent peer-reviewed studies show that the range improvement structure benefits sage-grouse. Design any new structural range improvements and location of supplements (salt or protein blocks) to conserve, enhance, or restore sage-grouse habitat through an improved grazing management system relative to sage-grouse objectives.</u> Structural range improvements developments , in this context, include but are not limited to cattleguards, fences, exclosures, corrals or other livestock handling structures; pipelines, troughs, storage tanks (including moveable tanks used in livestock water hauling), windmills, ponds/reservoirs, solar panels and spring developments. Potential for invasive species establishment or increase following construction must be considered in the project planning process and monitored and treated post-construction. <u>Consider the comparative cost of changing grazing management instead of constructing additional range developments.</u> (WEG)” “ “

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
289	Livestock Grazing				Action: Same as Alternative B. (WEG)” “
290	Livestock Grazing				Action: Same as Alternative B.” ““ “
291	Livestock Grazing				Action: To reduce outright sage-grouse strikes and mortality, Remove, modify or mark fences in high risk areas of moderate or high risk of sage-grouse strikes within priority sage-grouse habitat based on proximity to lek, lek size, and topography (Christiansen 2009; Stevens 2011). (WEG)
292	Livestock Grazing				Action: Same as Alternative B.
293	Livestock Grazing				Action: Same as Alternative B.” ““ “
294	Livestock Grazing				Action: In each planning process, identify grazing allotments where permanent retirement of grazing privileges would be potentially beneficial to sage-grouse. (WEG)
295	Livestock Grazing				Objective: Encourage partners to monitor effects of retiring grazing permits in sage-grouse habitat. (WEG)
296	Livestock Grazing				No action.” “
297	Livestock Grazing				No action.
298	Livestock Grazing				No action.
299	Livestock Grazing				No action.” “
300	Livestock Grazing				Action: Any vegetation treatment plan must include pretreatment data on wildlife and habitat condition, establish non-grazing exclosures, and include long-term monitoring where treated areas are monitored for at least three years before grazing returns. Continue monitoring for” “five years after livestock are returned to the area, and compare to treated, ungrazed exclosures, as well as untreated areas. (WEG)
301	Livestock Grazing				No action.
302	Livestock Grazing				No action.
303	Livestock Grazing				No action.
304	Livestock Grazing				No action.
305	Livestock Grazing				No action.
306	Livestock Grazing				No action.
307	Livestock Grazing				No action.
308	Livestock Grazing				No action.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
309	Livestock Grazing				No action.
310	Livestock Grazing				No action.
311	Livestock Grazing				No action.
312	Livestock Grazing				Action: No Similar Action
313	Livestock Grazing				Action: No Similar Action
314	Livestock Grazing				Action: No Similar Action
315	Livestock Grazing				Action: No Similar Action
316	Livestock Grazing				Action: No Similar Action
317	Livestock Grazing				Action: No Similar Action
318	Grazing Adaptive Management				Action: No Similar Action
319	Grazing Adaptive Management				Action: No Similar Action
320	Grazing Adaptive Management				Action: No Similar Action
321	grazing Adaptive Management				Action: No Similar Action
322	Grazing Adaptive Management				Action: No Similar Action
323	Grazing Adaptive Management				Action: No Similar Action
324	Grazing Adaptive Management				Action: No Similar Action
325	Grazing Adaptive Management				Action: No Similar Action

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
326	Grazing Adaptive Management				Action: No Similar Action
327	Grazing Adaptive Management				Action: No Similar Action
328	Grazing Adaptive Management				Action: No Similar Action
329	Grazing Adaptive Management				Action: No Similar Action
330	Grazing Adaptive Management				Action: No Similar Action
331	Grazing Adaptive Management				Action: No Similar Action
332	Grazing Adaptive Management				Action: No Similar Action
333	grazing Adaptive Management				Action: No Similar Action
334	Grazing Adaptive Management				Action: No Similar Action
335	Grazing Adaptive Management				Action: No Similar Action
336	Livestock Grazing Infrastructure				Action: No Similar Action
337	Livestock Grazing Infrastructure				Action: No Similar Action
338	Livestock Grazing Infrastructure				Action: No Similar Action
339	Livestock Grazing Infrastructure				Action: No Similar Action

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
340	Livestock Grazing Infrastructure				Action: No Similar Action
341	Livestock Grazing Infrastructure				Action: No Similar Action
342	Wild Horses and Burros				Objective: Same as Alternative B.
343	Wild Horses and Burros				Action: No Similar Action
344	Wild Horses and Burros				Objective: Same as Alternative B. (WEG)
345	Wild Horses and Burros				Action: Same as Alternative B.
346	Wild Horses and Burros				Action: No similar action. (WEG)
347	Wild Horses and Burros				Action: Same as Alternative B.
348	Wild Horses and Burros				Action: Same as Alternative B.
349	Wild Horses and Burros				No action.
350	Wild Horses and Burros				No action.
351	Wild Horses and Burros				No action.
352	Wild Horses and Burros				No action.
353	Wild Horses and Burros				No action.
354	Wild Horses and Burros				No action.
355	Wild Horses and Burros				Action: No Similar Action
356	West Nile Virus				Action: Designate Areas of Critical Environmental Concern (ACECs) (BLM) and Sagebrush Conservation Areas (SCAs) (USFS), respectively, as sagebrush reserves to conserve sage-grouse and other sagebrush-dependent species. (WEG).
357	West Nile Virus				No action.
358	West Nile Virus				No action.
359	West Nile Virus				No action.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
360	West Nile Virus				Action: No Similar Action
361	West Nile Virus				No action.
362	Areas of Critical Environmental Concern				No action.
363	Areas of Critical Environmental Concern				Action: No Similar Action
364	Areas of Critical Environmental Concern				No action.
365	Areas of Critical Environmental Concern				No action.
366	Areas of Critical Environmental Concern				Action: No Similar Action
367	Areas of Critical Environmental Concern				No action.
368	Cultural Resources				No action.
369	Cultural Resources				No action.
370	Hazardous Materials				Action: No Similar Action
371	Hazardous Materials				No action.
372	Soils				Action: No Similar Action
373	Habitat Security				Action: No Similar Action
374	Habitat Security				Action: No Similar Action

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
375	Visual Resources				Action: No Similar Action
376	BMP West Nile Virus				Action: No Similar Action
377	BMP West Nile Virus				Same as Alternative B.
378	BMP West Nile Virus				Same as Alternative B.
379	BMP West Nile Virus				Same as Alternative B.
380	BMP West Nile Virus				Same as Alternative B.
381	BMP West Nile Virus				Same as Alternative B.
382	BMP West Nile Virus				Same as Alternative B.
383	BMP West Nile Virus				Same as Alternative B.
384	BMP Fluid Minerals				Action: No Similar Action
385	BMP Fluid Mineral Roads				Action: No Similar Action
386	BMP Fluid Mineral Roads				Same as Alternative B.
387	BMP Fluid Mineral Roads				Same as Alternative B.
388	BMP Fluid Mineral Roads				Same as Alternative B.
389	BMP Fluid Mineral Roads				Same as Alternative B.
390	BMP Fluid Mineral Roads				Same as Alternative B.
391	BMP Fluid Mineral Roads				Same as Alternative B.
392	BMP Fluid Mineral Roads				Same as Alternative B.
393	BMP Fluid Mineral Roads				Same as Alternative B.
394	BMP Fluid Mineral Roads				Same as Alternative B.
395	BMP Fluid Mineral Roads				Same as Alternative B.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
396	BMP Fluid Minerals Operations				Action: No Similar Action
397	BMP Fluid Minerals Operations				Same as Alternative B.
398	BMP Fluid Minerals Operations				Same as Alternative B.
399	BMP Fluid Minerals Operations				Same as Alternative B.
400	BMP Fluid Minerals Operations				Same as Alternative B.
401	BMP Fluid Minerals Operations				Same as Alternative B.
402	BMP Fluid Minerals Operations				Same as Alternative B.
403	BMP Fluid Minerals Operations				Same as Alternative B.
404	BMP Fluid Minerals Operations				Same as Alternative B.
405	BMP Fluid Minerals Operations				Same as Alternative B.
406	BMP Fluid Minerals Operations				Same as Alternative B.
407	BMP Fluid Minerals Operations				Same as Alternative B.
408	BMP Fluid Minerals Operations				Same as Alternative B.
409	BMP Fluid Minerals Operations				Same as Alternative B.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
410	BMP Fluid Minerals Operations				Same as Alternative B.
411	BMP Fluid Minerals Operations				Same as Alternative B.
412	BMP Fluid Minerals Operations				Same as Alternative B.
413	BMP Fluid Minerals Operations				Same as Alternative B.
414	BMP Fluid Minerals Operations				Same as Alternative B.
415	BMP Fluid Minerals Operations				Same as Alternative B.
416	BMP Fluid Minerals Operations				Same as Alternative B.
417	BMP Fluid Minerals Operations				Same as Alternative B.
418	BMP Fluid Minerals Operations				Same as Alternative B.
419	BMP Fluid Minerals Operations				Same as Alternative B.
420	BMP Fluid Minerals Operations				Same as Alternative B.
421	BMP Fluid Minerals Operations				Same as Alternative B.
422	BMP Fluid Minerals Operations				Same as Alternative B.
423	BMP Fluid Minerals Reclamation				Action: No Similar Action

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424	BMP Fluid Minerals Reclamation				Same as Alternative B.
425	BMP Fluid Minerals Reclamation				Same as Alternative B.
426	BMP Fluid Minerals Reclamation				Same as Alternative B.
427	BMP Fluid Minerals Reclamation				Same as Alternative B.
428	BMP Fluid Minerals Reclamation				Same as Alternative B.
429	BMP Fluid Minerals Roads PGH				Action: No Similar Action
430	BMP Fluid Minerals Roads PGH				Same as Alternative B.
431	BMP Fluid Minerals Roads PGH				Same as Alternative B.
432	BMP Fluid Minerals Roads PGH				Same as Alternative B.
433	BMP Fluid Minerals Roads PGH				Same as Alternative B.
434	BMP Fluid Minerals Roads PGH				Same as Alternative B.
435	BMP Fluid Minerals Roads PGH				Same as Alternative B.
436	BMP Fluid Minerals Roads PGH				Same as Alternative B.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
437	BMP Fluid Minerals Operations PGH				Action: No Similar Action
438	BMP Fluid Minerals Operations PGH				Same as Alternative B.
439	BMP Fluid Minerals Operations PGH				Same as Alternative B.
440	BMP Fluid Minerals Operations PGH				Same as Alternative B.
441	BMP Fluid Minerals Operations PGH				Same as Alternative B.
442	BMP Fluid Minerals Operations PGH				Same as Alternative B.
443	BMP Fluid Minerals Operations PGH				Same as Alternative B.
444	BMP Fluid Minerals Operations PGH				Same as Alternative B.
445	BMP Fluid Minerals Operations PGH				Same as Alternative B.
446	BMP Fluid Minerals Operations PGH				Same as Alternative B.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
447	BMP Locatable Minerals				Action: No Similar Action
448	BMP Locatable Minerals Roads				Action: No Similar Action
449	BMP Locatable Minerals Roads				Same as Alternative B.
450	BMP Locatable Minerals Roads				Same as Alternative B.
451	BMP Locatable Minerals Roads				Same as Alternative B.
452	BMP Locatable Minerals Roads				Same as Alternative B.
453	BMP Locatable Minerals Roads				Same as Alternative B.
454	BMP Locatable Minerals Roads				Same as Alternative B.
455	BMP Locatable Minerals Roads				Same as Alternative B.
456	BMP Locatable Minerals Roads				Same as Alternative B.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
457	BMP Locatable Minerals Roads				Same as Alternative B.
458	BMP Locatable Minerals Operations				Action: No Similar Action
459	BMP Locatable Minerals Operations				Same as Alternative B.
460	BMP Locatable Minerals Operations				Same as Alternative B.
461	BMP Locatable Minerals Operations				Same as Alternative B.
462	BMP Locatable Minerals Operations				Same as Alternative B.
463	BMP Locatable Minerals Operations				Same as Alternative B.
464	BMP Locatable Minerals Operations				Same as Alternative B.
465	BMP Locatable Minerals Operations				Same as Alternative B.
466	BMP Locatable Minerals Operations				Same as Alternative B.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
467	BMP Locatable Minerals Operations				Same as Alternative B.
468	BMP Locatable Minerals Operations				Same as Alternative B.
469	BMP Locatable Minerals Operations				Same as Alternative B.
470	BMP Locatable Minerals Operations				Same as Alternative B.
471	BMP Locatable Minerals Operations				Same as Alternative B.
472	BMP Locatable Minerals Reclamation				Action: No Similar Action
473	BMP Locatable Minerals Reclamation				Same as Alternative B.
474	BMP Locatable Minerals Reclamation				Same as Alternative B.
475	BMP Locatable Minerals Reclamation				Same as Alternative B.
476	BMP Locatable Minerals Reclamation				Same as Alternative B.

New GOA 1/28/2013	Program Area	Sub Topic	Threat	Indicator	Alternative C – All Occupied Habitat
477	BMP Locatable Minerals Reclamation				Same as Alternative B.
478	BMP Fuels				Action: No Similar Action
479	BMP Fuels				Action: No Similar Action
480	BMP Fuels				Same as Alternative B.
481	BMP Fuels				Same as Alternative B.
482	BMP Fuels				Same as Alternative B.
483	BMP Fuels				Same as Alternative B.
484	BMP Fuels				Same as Alternative B.
485	BMP Fuels				Same as Alternative B.
486	BMP Fuels				Same as Alternative B.
487	BMP Fuels				Same as Alternative B.
488	BMP Fuels				Same as Alternative B.
489	BMP Fuels				Same as Alternative B.
490	BMP Fuels				Same as Alternative B.
491	BMP Fuels				Same as Alternative B.
492	BMP Fuels				Same as Alternative B.
493	BMP Fuels				Same as Alternative B.
494	BMP Fuels				Same as Alternative B.
495	BMP Fire				Action: No Similar Action
496	BMP Fire				Same as Alternative B.
497	BMP Fire				Same as Alternative B.
498	BMP Fire				Same as Alternative B.
499	BMP Fire				Same as Alternative B.
500	BMP Fire				Same as Alternative B.
501	BMP Fire				Same as Alternative B.
502	BMP Fire				Same as Alternative B.
503	BMP Fire				Same as Alternative B.
504	BMP Fire				Same as Alternative B.
505	BMP Fire				Same as Alternative B.
506	BMP Fire				Same as Alternative B.
507	BMP Infracstructure				Action: No Similar Action
508	BMP Infracstructure				Action: No Similar Action

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509	BMP Infracstructure				Action: No Similar Action
510	BMP Infracstructure				Action: No Similar Action
511	BMP Infracstructure				Action: No Similar Action
512	BMP Infracstructure				Action: No Similar Action
513	BMP Infracstructure				Action: No Similar Action
514	BMP Infracstructure				Action: No Similar Action
515	BMP Infracstructure				Action: No Similar Action
516	BMP				Action: No Similar Action