

# APPENDIX F

## SUMMARY OF EFFECTS DETERMINATIONS, LIST OF BLM ACTIVITIES, AND ESTIMATION OF ASSOCIATED ACTIVITY LEVELS

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This appendix contains a summary of the Bald Eagle BA Effects Determinations (**Table F-1**) and a list of BLM activities and rough estimations of the associated activity levels as they correspond to the Buffer Guidelines for the Greater Yellowstone Bald Eagle Management Plan (**Table F-2**). Activity level interpretations presented here are purely for the purpose of providing rough guidance. Activity levels associated with each activity will vary depending on the intensity and duration of the activity. Therefore, each activity level should be determined on a site-specific/project-specific basis for each actual planned activity.

**TABLE F-1 SUMMARY OF BALD EAGLE BA EFFECTS DETERMINATIONS**

Resources Management Plan (RMP)  Management Action	Buffalo	Casper	Cody	Kemmerer	Lander	Newcastle	Pinedale	Snake River	Rawlins	Rock Springs	Worland-Grass Creek	Worland-Washakie
<b>Air Quality</b>	NLAA-i	-----	NLAA-i	NLAA-i	-----	NLAA-i	NLAA-i	NLAA-i	-----	NLAA-b	NLAA-b	-----
<b>Cultural/paleo./historical</b>	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA
<b>Fire Management</b>	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA
<b>Forest Management</b>	LAA	LAA	LAA	NLAA-d	LAA	NLAA-d	NLAA-d	-----	LAA	NLAA-d	NLAA-d	NLAA-d
<b>Minerals and Geology</b>	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA
<b>Hazardous Material</b>	NLAA-d	-----	NLAA-d	-----	-----	NLAA-d	-----	NLAA-d	-----	NLAA-d	NLAA-d	NLAA-d
<b>Lands and Realty</b>	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA
<b>Livestock Grazing</b>	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA
<b>ORV/OHV use</b>	NLAA-d	-----	NLAA-d	-----	NLAA-d	NLAA-d	LAA	LAA	-----	NLAA-d	NLAA-d	NLAA-d
<b>Paleontology</b>	NLAA-d	-----	-----	-----	-----	-----	-----	LAA	LAA	-----	-----	-----
<b>Recreation</b>	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA
<b>Soils Management</b>	LAA	-----	-----	LAA	-----	LAA	-----	LAA	-----	-----	-----	-----
<b>T&amp;E Species</b>	NLAA-i	-----	-----	-----	-----	-----	-----	-----	-----	NLAA-b	-----	NLAA-b
<b>Vegetation</b>	LAA	-----	-----	-----	-----	LAA	-----	LAA	-----	LAA	LAA	-----
<b>Visual</b>	NLAA-i	-----	NLAA-b	-----	-----	NLAA-b	NLAA-b	NLAA-b	NLAA-i	NLAA-b	NLAA-b	NLAA-b
<b>Wildlife and Fish</b>	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA	LAA
<b>Wild and Scenic Rivers</b>	NLAA-b	-----	-----	-----	-----	-----	NLAA-b	-----	-----	-----	-----	-----
<b>Wild Horses</b>	-----	-----	NLAA-d	-----	-----	-----	NE	-----	NLAA-d	NLAA-d	NLAA-d	NLAA-d
<b>Geothermal</b>	-----	-----	LAA	-----	-----	-----	-----	-----	-----	-----	-----	-----
<b>Special Areas/ACECs</b>	-----	LAA	-----	-----	LAA	NLAA-b	NLAA-b	-----	LAA	NLAA-b	NLAA-b	NLAA-b
<b>Watershed/water</b>	NLAA-b	-----	LAA	NLAA-b	-----	NLAA-b	-----	LAA	-----	-----	-----	-----
<b>Water/soils</b>	-----	-----	-----	-----	-----	-----	LAA	-----	-----	LAA	LAA	LAA
<b>Soil/Water/Air</b>	-----	LAA	-----	-----	LAA	-----	-----	-----	LAA	-----	-----	-----
<b>Wilderness</b>	-----	-----	-----	-----	NLAA-b	-----	NLAA-b	-----	-----	NLAA-b	-----	-----
<b>Riparian</b>	-----	-----	-----	-----	-----	-----	LAA	-----	-----	-----	-----	-----
<b>Access</b>	-----	-----	-----	-----	NLAA-d	-----	NLAA-d	-----	-----	-----	-----	-----
<b>Surface Disturb. Restr.</b>	-----	-----	-----	-----	-----	-----	NLAA-b	-----	-----	-----	-----	-----
<b>Sensitive Plants</b>	-----	-----	-----	-----	-----	-----	-----	-----	NE	-----	-----	-----

LAA = Likely to Adversely Affect; NLAA = Not Likely to Adversely Affect; b = due to beneficial effects; d = due to discountable effects; i = due to insignificant effects; NE = No Effect

**TABLE F-2 LIST OF BLM ACTIVITIES AND ESTIMATION OF ASSOCIATED ACTIVITY LEVELS AS THEY CORRESPOND TO THE BUFFER GUIDELINES FOR THE GREATER YELLOWSTONE BALD EAGLE MANAGEMENT PLAN**

BLM Activity	Level
<b>Air Quality</b>	
1) Apply dust control measures	L
2) Collect meteorological and/or air quality data	L
3) Cover conveyors at mine sites	L
<b>Cultural/Paleontological/Historical</b>	
1) Identify cultural resources	L
2) Photography	L
3) Inventory cultural resources	L, MOD
4) Developing interpretive sites	MOD (+)
5) Use hand tools, power tools, heavy machinery	MOD (+)
6) Field activities	MOD
7) Allow collection of invertebrate fossils	MOD
8) Stabilize deteriorating buildings	MOD (+)
9) Surface disturbing activities	MOD (+)
10) Map and collect surface material	MOD
11) Excavation	MOD (+)
12) Stabilize erosion	L, MOD, MOD (+)
13) Develop campgrounds	MOD (+)
14) Cultural resource investigation	MOD
<b>Fire Management</b>	
1) Fire suppression	MOD
2) Damage rehabilitation	MOD
3) Prescribed burning	MOD
4) Construct firelines	MOD
5) Use off-road vehicles	MOD
6) Use heavy equipment	MOD
7) Use of hand tools, off-road vehicles, and heavy machinery	MOD
8) Use bulldozers	MOD
9) Use chemical fire suppression agents	MOD
10) Bulldozers in riparian and wetland areas	MOD (+)
11) Fire retardant drops containing chemical dyes	MOD (+)
<b>Forest Management</b>	
1) Rehabilitation surveys	L
2) Assess effects of grazing	L
3) Allow firewood collection	NA
4) Timber harvesting	MOD (+)
5) Planting harvested areas	MOD
6) Fencing regenerated areas	MOD
7) Clearcuts	MOD

Activity Level Rough Estimation (Many activities can vary between levels listed here depending on the intensity and duration of the activity)  
 MIN = Estimated as a Minimal level human activity; L = Estimated as a Light level human activity; MOD = Estimated as Moderate level human activity; MOD (+) = Estimated as Moderate level human activity (Project should be designated to specifically avoid disturbance to nesting eagles.); NA = Non-applicable activity because this BLM activity does not entail physical presence in bald eagle habitat

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BLM Activity	Level
8) Slash disposal	MOD
9) Allow harvest	MOD
10) Site regeneration	MOD
11) Stand replacement	MOD
12) Precommercial thinning	MOD
13) Fuelwood, posts, poles, Christmas trees, wildlings	MOD
14) Pursue legal access	NA
15) Commercial thinning	MOD (+)
16) Skidder-type yarding	MOD (+)
17) Logging operations	MOD (+)
18) Cable yarding	MOD (+)
19) Roads and landings	MOD (+)
20) Logging activity	MOD (+)
21) Prescribed burning	MOD
22) Establish new seedlings	MOD
23) Chaining	MOD (+)
24) Shearing	MOD (+)
25) Road development	MOD (+)
26) Install drain culverts, water bars, or ditches	MOD
27) Cut and remove diseased trees	MOD
28) Artificial regeneration	MOD
29) Slash will be lopped and scattered, roller chopped, or burned	MOD
30) Helicopter logging	MOD (+)
31) Disease treatment by spraying	MOD
32) Spraying of Grasses and shrubs	MOD

**Minerals**

1) Study and exploration of coal resources	L, MOD, MOD (+)
2) Open lands for oil and gas development	NA
3) Lease with a “no surface occupancy” restriction	NA
4) Lease with seasonal restrictions	NA
5) Lease with other standard surface protection restrictions	NA
6) Sand and gravel collection	MOD (+)
7) Lease geothermal resources	NA
8) Oil, gas, and mineral development	MOD
9) Issue leases	NA
10) Open to geophysical exploration	NA
11) Construction of roads, pads, and other facilities	MOD (+)
12) Construction of new above-ground powerlines	MOD
13) Explore, lease, and develop oil, gas, coal, oil shale, and geothermal steam	MOD (+)
14) Surface coal mining	MOD (+)
15) Exploration drilling	MOD (+)
16) Geophysical exploration	MOD (+)
17) Increase human activity	MOD
18) Increase vehicular traffic	MOD

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BLM Activity	Level
<b>Hazardous Material</b>	
1) Provide warnings	NA
2) Establish precautions	NA
3) Use precautionary measures	L
4) Secure and dispose of hazardous waste discharged on public lands	MOD
5) Report, secure, and clean up public lands contaminated with hazardous wastes	MOD
<b>Lands and Realty</b>	
1) Stock driveway withdrawals	NA
2) Locatable mineral entry withdrawals	NA
3) Lease acres for landfills	NA
4) Establish protective withdrawals	NA
5) Procure easements	NA
6) Disposal or transfer of public lands through desert land entry, public sale, exchange, State of Wyoming indemnity selection, or Recreation and Public Purposes (R&PP) leases or patents	NA
7) Designate existing routes as right-of-way corridors	NA
8) Pursue public access	NA
9) Pursue cooperative agreements	NA
10) Leases and disposals	NA
11) Develop stipulations	NA
12) Issue rights-of-way	NA
13) Temporary use permits	NA
14) New withdrawals	NA
15) Seek legal access to timber management areas	NA
16) Fence revegetation sites	MOD
17) Block linear rights-of-way to vehicle use	MOD
18) Road construction	MOD (+)
19) Construction of powerlines, communication towers, pipelines, irrigation ditches, and roads	MOD (+)
20) Develop recreation site facilities	MOD (+)
21) Designate corridors	NA
22) Adjust corridors	MOD (+)
<b>Livestock Grazing</b>	
1) Designate stock trails	NA
2) Livestock conversions	NA
3) Livestock grazing	MIN
4) Fence improvement riparian habitat to exclude livestock	MIN if existing
5) Provide access to water	MIN if existing
6) Design grazing systems	MIN if existing
7) Provide salt or mineral supplements	MIN if existing
8) Use safe and effective prairie dog control measures	MIN if existing
9) Modify kinds of livestock and season of livestock use	MIN if existing
10) Perform project work to enhance and improve riparian zones	MIN if existing

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<b>BLM Activity</b>	<b>Level</b>
11) Improve resource conditions	MIN if existing
12) Noxious weed control	MIN if existing
13) Control predators	MIN if existing
14) Vegetation manipulation projects	MIN if existing
15) Change composition of existing vegetation	MIN if existing
16) Manage leases	NA
17) Develop management plans and agreements	MIN if existing
18) Range improvement projects	MIN if existing
19) Cancel or change driveways	MIN if existing
20) Fence	MIN if existing
21) Develop water catchments	MIN if existing
22) Sagebrush spraying	MIN if existing
23) Prescribed fire treatment	MIN if existing
24) Adjust season of use, distribution, kind, class, and number of livestock	MIN if existing
25) Implement new grazing systems	MIN if existing
26) Establish salt stations	MIN if existing
27) Develop reservoirs, springs, pipelines, and wells	L, MOD
28) Prescribed fire	MOD
29) Mechanical or biological vegetative treatments	MOD
30) Use heavy equipment	MOD (+)
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<b>ORV Use</b>	
1) Designate closed, limited, or open areas for ORV Use	NA
2) Post signs, maps, or brochures	MIN
3) Monitor off-road vehicle use	MIN
4) ORV rallies	MOD (+)
5) Cross-country races and outings	MOD (+)
6) Perform necessary tasks requiring off-road vehicle use	L, MOD
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<b>Recreation</b>	
1) Allow casual recreational use without charge	NA
2) Restrict recreational use	NA
3) Allow fishing and floatboating opportunities	NA
4) Permit competitive recreational events	NA
5) Pursue land acquisition	NA
6) Allow camping	NA
7) Require facilities to blend with the natural environment	NA
8) Designate road use	NA
9) Designate recreation areas	NA
10) Allow fishing, boating, and hunting	NA
11) Develop management plans	NA
12) Designate ORV use	NA
13) Identify hazards on the river	MIN
14) Maintain developed and undeveloped recreation sites	MIN
15) Provide public facilities and continued access	MIN

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BLM Activity	Level
16) Allow use of motorized over-the-snow vehicles	MIN
17) With some exceptions, limit motorized vehicles to existing trails	MIN
18) Maintain public access	MIN
19) Pursue rights-of-way	MIN
20) Maintain or develop recreation sites and facilities	MIN
21) Monitor recreational use	MIN
22) Enforce recreation-oriented regulations	MIN
23) Patrol high-use areas and update recreational potential	MIN
24) Monitor, evaluate, and update recreational potential	MIN
25) Conduct field inventories	MIN
26) Place boundary signs	L
27) Camping, hunting, fishing, off-road vehicle use	L
28) Add interpretive markers	L
29) Add developments as opportunities arise	MOD (+)
30) Develop campgrounds	MOD (+)
31) Develop recreational facilities	MOD (+)
32) Cut trees and firewood	MOD
33) Construct and use roads	MOD (+)
34) Commercial recreation uses	MOD (+)
<b>T&amp;E Species</b>	
1) Provide habitat	NA
2) Protect known populations	NA
3) Close known locations to surface disturbing activities, mineral material sales, off-road vehicle use, and the use of explosives and blasting	NA
4) Conduct surveys	MIN
<b>Vegetation</b>	
1) Pursue the acquisition of additional riparian areas	NA
2) Plant species surveys	MIN
3) Conduct prescribed burns	L
4) Implement weed control programs	L, MOD
5) Plant trees	L, MOD
6) Improve riparian habitat	L, MOD
7) Use species-specific insects, livestock grazing, mechanical methods, or chemical methods	L, MOD
8) Spraying, burning, mechanical disturbances	MOD
9) Precommercial tree thinning	MOD
10) Use of machinery or fire	MOD (+)
<b>Visual</b>	
1) Exclude activities	NA
2) Reclaim watershed projects and water wells	L, MOD
<b>Wild Rivers</b>	
1) Studies segments of river	MIN, L

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BLM Activity	Level
<b>Wild Horse</b>	
1) Monitoring	MIN
2) Roundups	MIN, L, MOD
3) Herding, corralling, transporting	MIN, L, MOD
<b>Geothermal</b>	
1) Vehicle traffic	L, MOD
2) Road construction	MOD
3) Pod and facility construction	MOD
4) Powerline construction	MOD
<b>Special Areas</b>	
1) Protect petroglyphs, artifacts, and cultural deposits from weathering and vandalism	NA
2) Land exchange	NA
3) Close areas where accelerated erosion is occurring	NA
4) Apply restrictions on ground-disturbing activities	NA
5) Guide supervised tours	L
6) Evaluate noxious weed and grasshopper control measures	L
7) Logging and heavy equipment use restrictions	MOD
8) Develop recreational trails	MOD
<b>Watershed/Water</b>	
1) Develop pollution prevention plans	NA
2) Ensure rights to water-related projects are filed	NA
3) Delineate “no chemical use” buffer zones	NA
4) Design activities to promote reduction of channel erosion	NA
5) Restore damaged wetlands or riparian areas	MOD
<b>Water/Soils</b>	
1) Apply seasonal closures	NA
2) Restrict activities such as mineral exploration and development, pipelines, powerlines, roads, recreation sites, fences, and wells	NA
3) Land acquisition	NA
4) Impose road closures	NA
5) Acquire riverfront land	NA
6) Prohibit surface development	NA
7) Easement acquisition	NA
8) Monitor habitat	MIN, L
9) Monitor public drinking water	MIN, L
10) Conduct inventories	MIN, L
11) Improve, maintain, and restore riparian areas	MIN, L, MOD
12) Reestablish willows	MIN, L, MOD
13) Stream improvement practices	MIN, L, MOD
14) Vegetation manipulations	MIN, L, MOD
15) Farming	MIN, if existing, L, MOD

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BLM Activity	Level
16) Prescribed burning	L, MOD
17) Construct and maintain fences	L, MOD
18) Apply soil management practices	L, MOD
19) Complete a groundwater study	L, MOD
20) Develop riparian exclosures	L, MOD
21) Improve forage	L, MOD
22) Habitat improvement projects	L, MOD
23) Manage timber	L, MOD
24) Manage access	L, MOD
25) Modification of existing projects, such as fence modification	L, MOD
26) Construction of artificial structures	L, MOD
27) Management of other resource activities to conserve forage and protect habitat	L, MOD
28) Chemically control pests	L, MOD
29) Cutting, thinning, planting, seeding, pitting	L, MOD
30) Herbicide treatments	L, MOD
31) Spraying of insecticides	L, MOD
32) Use heavy machinery and hand tools	MOD (+)
33) Construct stream crossings	MOD (+)
34) Develop water facilities	MOD (+)
35) Introduce species	MOD (+)
36) Develop islands	MOD (+)
37) Improve range with mechanical treatment, burning, or other methods	MOD (+)
<b>Soil/Water/Air</b>	
1) Monitor soil erosion, water quality, and air quality	MIN, L
2) Field activities	MIN, L, MOD
3) Reduce or eliminate erosion	L, MOD
4) Use heavy equipment and hand tools	MOD (+)
<b>Soils</b>	
1) Apply conservation practices	MIN, L, MOD
2) Use special construction and reclamation techniques	MIN, L, MOD
3) Revegetation efforts	L, MOD
4) Erosion control measures	L, MOD
5) Restore damaged wetlands	MOD (+)
6) Use heavy machinery and hand tools	MOD (+)
7) Removal of topsoil	MOD (+)
8) Restoration of surface drainage	MOD (+)
9) Abandoned road reclamation	MOD (+)
<b>Riparian</b>	
1) Livestock conversions	NA
2) Herding, livestock driving	L
3) Fence	L, MOD
<b>Access</b>	

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<b>BLM Activity</b>	<b>Level</b>
1) Pursue access across private lands	NA
2) Purchase rights-of-way or easements, land exchange, reciprocal rights-of-way	NA
3) Rehabilitate access roads no longer needed	MOD (+)
<b>Surface Disturbance Restrictions</b>	
1) Restrict surface disturbance	NA

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