

Supplemental Table 1

Dakota Prairie National Grasslands

Table S-1: Forest Plan Outcome and Activity Measures.

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Goal 1: Ensure Sustainable Ecosystems						
Population trends for TES species						
Population trends for species of concern						
Approved and implemented recovery plans for listed species.	Number					
Approved and implemented conservation agreements or strategies for sensitive species	Number					
Recommended for Wilderness	Number/Acres	0/0	0/0	3/22,190	9/85,940	9/72,670
Research Natural Areas Protected	Number/Acres	3/840	3/840	12/20,530	13/23,690	7/1,950
Recommended Wild & Scenic Rivers	Number/Miles	0/0	0/0	0/0	1/105.9	2/116.1
Special Interest Areas Protected	Number/Acres	0/0	9/1,770	16/6,390	14/5,680	13/4,650
Watersheds in condition Class I, II, and III	% improvement		20	20	20	20
Area of land without detrimental erosion, compaction, displacement, loss of organic matter and nutrients, or chemical contamination	Acres					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Streams not degraded by bank damage, sediment loads, channel modification, flow alteration, thermal change, chemical contamination, or biological stress	Miles					
Lakes and wetlands not degraded by bank damage, sediment loads, filling, draining, water level or flow path alteration, thermal change, chemical contamination, or biological stress	Acres					
Riparian areas in properly functioning condition	Percent	55	80	80	80	80
Stream or riparian restoration	Miles					
Soil and water resource improvements	Acres					
Lakes and wetlands restored or enhanced	Acres					
Percentage of landscapes that are in or moving toward the desired condition	Acres					
Structural condition of vegetation types						
Low Structure	Percent	15	15	15	15	15
Mod. Structure	Percent	65	67	49	39	52
High Structure	Percent	20	17	36	46	33
Area and distribution of forest cover types	Acres					
Reduction in the extent of noxious weeds and invasive plants	Percent reduction	NA	15	No increase	15	No increase
Lands restored by reforestation	Acres					
Lands restored, improved, or maintained by commercial tree removal	Acres					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Lands restored, improved, or maintained by application of prescribed fire	Acres	3,600	2,900	8,500	21,000	17,000
Rangeland ground cover (vegetation or litter)	Percentage					
Riparian or wetland wildlife habitat restored or enhanced	Acres					
Terrestrial wildlife habitat restored or enhanced	Acres					
Abandoned mine lands reclaimed	Number of sites					
Perennial streams with in-stream flow protection	Number					
Sensitive air quality indicators (lake, visibility view, pollution sensitive vegetation) which do not exceed limits of acceptable change	Number					
PSD permit applications reviewed	Number					
Goal 2: Provide Multiple Benefits for People Within the Capabilities of Ecosystems.						
Lands in each Recreation Opportunity Spectrum class						
Urban	Acres	750	750	430	750	430
Rural	Acres	294,840	301,550	289,500	290,060	279,620
Roaded Modified	Acres	116,290	116,290	110,670	113,760	111,670
Roaded Natural	Acres	605,060	609,100	568,810	559,500	580,690
Roaded Natural Non-Motorized	Acres	920	840	11,800	5,990	1,070
Semi-primitive Motorized	Acres	196,290	228,320	112,630	93,420	129,510
Semi-primitive Non-Motorized	Acres	42,995	290	163,310	193,670	154,160
Days of developed recreation capacity available	PAOT	185	185	330 to 350	185	480 to 650

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Trails outside wilderness	Miles	170	170	210	170	170
Trails for motorized use	Miles					
Trails for nonmotorized use	Miles					
Trail maintenance/reconstruction outside wilderness	Miles					
Trails constructed outside wilderness	Miles	0	0	40	0	0
Developed recreation capacity rehabilitated or reconstructed	PAOT					
Trailheads rehabilitated or reconstructed	Number					
Dispersed recreation sites rehabilitated or reconstructed	Number					
Wilderness recreation capacity	PAOT					
Trails in wilderness	Miles	0	0	0	0	0
Use of key wilderness trails and campsites	PAOT/Group Size	0	0	0	0	0
Visitor satisfaction ratings						
Encounters in wilderness	Number per mile or per campsite	0	0	0	0	0
Campsite evaluation ratings	Cole's classes					
Trails constructed in wilderness	Miles	0	0	0	0	0
Trail maintenance/reconstruction in wilderness	Miles	0	0	0	0	0
Heritage sites evaluated	Number					
Heritage sites interpreted	Number					
Allowable sale quantity	Cubic feet					
Programmed timber sale quantity	Cubic feet					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Chargeable and non-chargeable timber offered for sale	Cubic feet					
Annual permitted quantities of special forest products (e.g., berries, mushrooms, ferns)	Various					
Grazing Use	AUMs	376,380 to 462,000	379,690 to 463,450	338,670 to 413,930	293,850 to 359,150	324,360 to 396,440
Forage utilization by wildlife as a proportion of total forage available	Percentage					
Allotments with updated environmental analysis	Number					
Disturbed acres maintained to standard under operating plans as percentage of total acres disturbed by mineral and energy operations	Percentage					
Lands reclaimed upon depletion of oil and gas reservoirs or mineral deposits (including coal)	Acres					
Lands reclaimed concurrent with ongoing mineral and energy operations	Acres					
Lands under lease for oil and gas	Acres	976,680	1,001,550	976,680	976,680	976,680
Lands under lease for coal	Acres	0	0	0	0	0
Lands administered under operating plans for locatable minerals and mineral materials development	Acres					
Lands administered under operating plans for oil and gas development on reserved or outstanding mineral estate	Acres					
Quantity of oil, gas, natural gas liquids, and coal produced per year	Various					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Quantity of mineral materials produced per year	Tons					
Specially designated geologic and paleontologic sites	Number/Acres					
Geologic and paleontologic sites with programs for research, management and interpretation	Percent	20	20	20	20	20
Area that exceeds, meets, or is moving toward scenic integrity objectives	Acres	1,257,160	1,257,160	1,257,160	1,257,160	1,257,160
Special uses administered to standard	Number					
Number of visits to wildlife/fish/plant viewing sites	Visits					
Habitat provided for huntable/fishable/viewable species	Acres					
Goal 3: Ensure Organizational Effectiveness						
Roads on the Forest Development road system	Miles	2,243	2,243	1,830 to 2,810	1,670 to 2,345	2,185 to 3,110
Road miles maintained to standard	Percentage					
Roads maintained at levels 1	Miles					
Roads maintained at levels 2	Miles					
Roads maintained at levels 3	Miles					
Roads maintained at levels 4	Miles					
Roads maintained at levels 5	Miles					
Roads with closures installed	Miles					
Roads or "ways" not on the Forest Development road system	Miles					
Road construction	Miles					
Road reconstruction	Miles					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Roads/ways decommissioned	Miles					
Cooperative road maintenance	Miles					
National and regional priority FA&O facility projects accomplished	Number					
Land ownership consolidated	Acres					
Amount of NFS land boundaries surveyed and marked to standard	Percentage	30	30	30	30	30

Nebraska National Forest & Associated Forests & Grasslands

Table S-1: Forest Plan Outcome and Activity Measures.

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 3a	Alternative 4	Alternative 5
Goal 1: Ensure Sustainable Ecosystems							
Population trends for TES species							
Population trends for species of concern							
Approved and implemented recovery plans for listed species.	Number						
Approved and implemented conservation agreements or strategies for sensitive species	Number						
Wilderness Protected	Number/Acres	1/7,810	1/7,810	1/7,810	1/7,810	1/7,810	1/7,810
Recommended Wilderness	Number/Acres	0/0	0/0	1/15,970	0/0	10/174,810	1/9,700
Research Natural Areas Protected	Number/Acres	1/500	3/1,300	6/6,770	6/6,770	9/9,360	4/4,150
Recommended Wild and Scenic Rivers	Number/Acres	0/0	0/0	0/0	0/0	3/10.8	2/10.3
Special Interest Areas Protected	Number/Acres	2/70	6/980	14/55,370	7/50,820	10/2,750	16/55,070
Watersheds in condition Class I, II, and III	% improvement		20	20	20	20	20
Area of land without detrimental erosion, compaction, displacement, loss of organic matter and nutrients, or chemical contamination	Acres						
Streams not degraded by bank damage, sediment loads, channel modification, flow alteration, thermal change, chemical contamination, or biological stress	Miles						

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 3a	Alternative 4	Alternative 5
Lakes and wetlands not degraded by bank damage, sediment loads, filling, draining, water level or flow path alteration, thermal change, chemical contamination, or biological stress	Acres						
Riparian areas in properly functioning condition	Percent	40	80	80	80	80	80
Stream or riparian restoration	Miles						
Soil and water resource improvements	Acres						
Lakes and wetlands restored or enhanced	Acres						
Percentage of landscapes that are in or moving toward the desired condition	Acres						
Structural condition of vegetation types							
Low Structure	Percent	18	27	23	23	16	19
Mod. Structure	Percent	64	56	42	42	37	39
High Structure	Percent	18	17	35	35	47	42
Area and distribution of forest cover types	Acres						
Reduction in the extent of noxious weeds and invasive plants	Percent reduction	NA	15	No increase	No increase	15	No increase
Lands restored by reforestation	Acres						
Lands restored, improved, or maintained by commercial tree removal	Acres						

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 3a	Alternative 4	Alternative 5
Lands restored, improved, or maintained by application of prescribed fire	Acres	0	0	1,800	1,800	9,000	3,500
Rangeland ground cover (vegetation or litter)	Percentage						
Riparian or wetland wildlife habitat restored or enhanced	Acres						
Terrestrial wildlife habitat restored or enhanced	Acres						
Abandoned mine lands reclaimed	Number of sites						
Perennial streams with in-stream flow protection	Number						
Sensitive air quality indicators (lake, visibility view, pollution sensitive vegetation) which do not exceed limits of acceptable change	Number						
PSD permit applications reviewed	Number						
Goal 2: Provide Multiple Benefits for People Within the Capabilities of Ecosystems.							
Lands in each Recreation Opportunity Spectrum class							
Urban	Acres	240	240	240	240	240	240
Rural	Acres	59,360	59,360	59,360	59,360	58,480	58,300
Roaded Natural	Acres	628,380	625,340	619,210	605,780	579,980	599,890
Roaded Natural Non-Motorized	Acres	500	2,590	6,240	6,240	3,740	2,590
Semi-primitive Motorized	Acres	334,940	325,460	308,000	301,250	221,310	224,610
Semi-primitive Non-Motorized	Acres	32,760	42,790	63,060	83,250	191,330	169,460
Days of developed recreation capacity available	PAOT	2,280	2,280	2,360	2,360	2,280	2,360

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 3a	Alternative 4	Alternative 5
Trails outside wilderness	Miles	111	111	141 to 151	141 to 151	111	161
Trails for motorized use	Miles						
Trails for nonmotorized use	Miles						
Trail maintenance/reconstruction outside wilderness	Miles						
Trails constructed outside wilderness	Miles	0	0	30 to 40	30 to 40	0	50
Developed recreation capacity rehabilitated or reconstructed	PAOT						
Trailheads rehabilitated or reconstructed	Number						
Dispersed recreation sites rehabilitated or reconstructed	Number						
Wilderness recreation capacity	PAOT	390	390	390	390	390	390
Trails in wilderness	Miles	9	9	9	9	9	9
Use of key wilderness trails and campsites	PAOT/Group Size	81/25	81/25	81/25	81/25	81/25	81/25
Visitor satisfaction ratings							
Encounters in wilderness	Number per trail/per campsite	4/1	4/1	4/1	4/1	4/1	4/1
Campsite evaluation ratings	Cole's classes						
Trails constructed in wilderness	Miles	0	0	0	0	0	0
Trail maintenance/reconstruction in wilderness	Miles	9	9	9	9	9	9
Heritage sites evaluated	Number						
Heritage sites interpreted	Number						
Allowable sale quantity	Cubic feet		200,000				

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 3a	Alternative 4	Alternative 5
Programmed timber sale quantity	Cubic feet						
Chargeable and non-chargeable timber offered for sale	Cubic feet	50,000	100,000	153,000	153,000	190,250	157,500
Annual permitted quantities of special forest products (e.g., berries, mushrooms, ferns)	Various						
Grazing use	AUMs	308,700 to 377,300	357,580 to 435,820	300,420 to 367,180	298,980 to 365,420	247,500 to 302,500	268,290 to 327,910
Forage utilization by wildlife as a proportion of total forage available	Percentage						
Allotments with updated environmental analysis	Number						
Disturbed acres maintained to standard under operating plans as percentage of total acres disturbed by mineral and energy operations	Percentage						
Lands reclaimed upon depletion of oil and gas reservoirs or mineral deposits (including coal)	Acres						
Lands reclaimed concurrent with ongoing mineral and energy operations	Acres						
Lands under lease for oil and gas	Acres	246,850	246,850	246,850	246,850	246,850	246,850
Lands under lease for coal	Acres	0	0	0	0	0	0
Lands administered under operating plans for locatable minerals and mineral materials development	Acres						

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 3a	Alternative 4	Alternative 5
Lands administered under operating plans for oil and gas development on reserved or outstanding mineral estate	Acres						
Quantity of oil, gas, natural gas liquids, and coal produced per year	Various						
Quantity of mineral materials produced per year	Tons						
Specially designated geologic and paleontologic sites	Number/Acres						
Geologic and paleontologic sites with programs for research, management and interpretation	Percent	20	20	20	20	20	20
Area that exceeds, meets, or is moving toward scenic integrity objectives	Acres	1,056,120	1,056,120	1,056,120	1,056,120	1,056,120	1,056,120
Special uses administered to standard	Number						
Number of visits to wildlife/fish/plant viewing sites	Visits						
Habitat provided for huntable/fishable/viewable species	Acres						
Goal 3: Ensure Organizational Effectiveness							
Roads on the Forest Development road system	Miles	780	780	1,450 to 3,040	980 to 2,100	1,264 to 1,977	970 to 2,710
Road miles maintained to standard	Percentage						
Roads maintained at levels 1	Miles						
Roads maintained at levels 2	Miles						

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 3a	Alternative 4	Alternative 5
Roads maintained at levels 3	Miles						
Roads maintained at levels 4	Miles						
Roads maintained at levels 5	Miles						
Roads with closures installed	Miles						
Roads or "ways" not on the Forest Development road system	Miles						
Road construction	Miles						
Road reconstruction	Miles						
Roads/ways decommissioned	Miles						
Cooperative road maintenance	Miles						
National and regional priority FA&O facility projects accomplished	Number						
Land ownership consolidated	Acres						
Amount of NFS land boundaries surveyed and marked to standard	Percentage	30	30	30	30	30	30

Medicine Bow/Routt National Forest, Thunder Basin National Grassland

Table S-1: Forest Plan Outcome and Activity Measures.

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Goal 1: Ensure Sustainable Ecosystems						
Population trends for TES species						
Population trends for species of concern						
Approved and implemented recovery plans for listed species.	Number					
Approved and implemented conservation agreements or strategies for sensitive species	Number					
Recommended Wilderness	Number/Acres	0/0	0/0	1/14,840	6/59,290	1/15,260
Research Natural Areas Protected	Number/Acres	0/0	0/0	2/1,230	4/2,880	0/0
Recommended Wild and Scenic Rivers	Number/Acres	0/0	0/0	0/0	0/0	0/0
Special Interest Areas Protected	Number/Acres	0/0	3/6,590	4/12,570	3/6,590	3/6,590
Watersheds in condition Class I, II, and III	% improvement		20	20	20	20
Area of land without detrimental erosion, compaction, displacement, loss of organic matter and nutrients, or chemical contamination	Acres					
Streams not degraded by bank damage, sediment loads, channel modification, flow alteration, thermal change, chemical contamination, or biological stress	Miles					
Lakes and wetlands not degraded by bank damage, sediment loads, filling, draining, water level or flow path alteration, thermal change, chemical contamination, or biological stress	Acres					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Riparian areas in properly functioning condition	Percent	27	80	80	80	80
Stream or riparian restoration	Miles					
Soil and water resource improvements	Acres					
Lakes and wetlands restored or enhanced	Acres					
Percentage of landscapes that are in or moving toward the desired condition	Acres					
Structural condition of vegetation types						
Low Structure	Percent	25	29	22	25	21
Mod. Structure	Percent	57	55	49	37	57
High Structure	Percent	18	16	29	38	22
Area and distribution of forest cover types	Acres					
Reduction in the extent of noxious weeds and invasive plants	Percent reduction	NA	15	NO increase	15	No increase
Lands restored by reforestation	Acres					
Lands restored, improved, or maintained by commercial tree removal	Acres					
Lands restored, improved, or maintained by application of prescribed fire	Acres	400	1,000	500	4,500	2,000
Rangeland ground cover (vegetation or litter)	Percentage					
Riparian or wetland wildlife habitat restored or enhanced	Acres					
Terrestrial wildlife habitat restored or enhanced	Acres					
Abandoned mine lands reclaimed	Number of sites					
Perennial streams with in-stream flow protection	Number					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Sensitive air quality indicators (lake, visibility view, pollution sensitive vegetation) which do not exceed limits of acceptable change	Number					
PSD permit applications reviewed	Number					
Goal 2: Provide Multiple Benefits for People Within the Capabilities of Ecosystems.						
Lands in each Recreation Opportunity Spectrum class						
Urban	Acres	13,250	49,780	48,130	44,680	49,790
Rural	Acres	69,530	51,180	41,190	51,260	51,850
Roaded Natural	Acres	442,620	424,430	418,270	387,420	391,000
Roaded Natural Nonmotorized	Acres	0	0	1,210	3,520	0
Semi-primitive Motorized	Acres	27,090	27,090	22,280	2,130	21,870
Semi-primitive Nonmotorized	Acres	0	0	21,390	63,480	37,970
Days of developed recreation capacity available	PAOT	5	5	80	5	200
Trails outside wilderness	Miles	0	0	SOME	0	100
Trails for motorized use	Miles					
Trails for nonmotorized use	Miles					
Trail maintenance/reconstruction outside wilderness	Miles					
Trails constructed outside wilderness	Miles	0	0	Some	0	100
Developed recreation capacity rehabilitated or reconstructed	PAOT					
Trailheads rehabilitated or reconstructed	Number					
Dispersed recreation sites rehabilitated or reconstructed	Number					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Wilderness recreation capacity	PAOT	0	0	0	0	0
Trails in wilderness	Miles	0	0	0	0	0
Use of key wilderness trails and campsites	PAOT/Group Size					
Visitor satisfaction ratings						
Encounters in wilderness	Number per mile or per campsite					
Campsite evaluation ratings	Cole's classes					
Trails constructed in wilderness	Miles	0	0	0	0	0
Trail maintenance/reconstruction in wilderness	Miles					
Heritage sites evaluated	Number					
Heritage sites interpreted	Number					
Allowable sale quantity	Cubic feet					
Programmed timber sale quantity	Cubic feet					
Chargeable and non-chargeable timber offered for sale	Cubic feet					
Annual permitted quantities of special forest products (e.g., berries, mushrooms, ferns)	Various					
Grazing use	AUMs	120,420 to 147,180	122,490 to 149,710	108,630 to 132,770	96,330 to 117,700	111,420 to 136,180
Forage utilization by wildlife as a proportion of total forage available	Percentage					
Allotments with updated environmental analysis	Number					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Disturbed acres maintained to standard under operating plans as percentage of total acres disturbed by mineral and energy operations	Percentage					
Lands reclaimed upon depletion of oil and gas reservoirs or mineral deposits (including coal)	Acres					
Lands reclaimed concurrent with ongoing mineral and energy operations	Acres					
Lands under lease for oil and gas	Acres	1,158,770	1,158,770	1,158,770	1,158,770	1,158,770
Lands under lease for coal	Acres					
Lands administered under operating plans for locatable minerals and mineral materials development	Acres					
Lands administered under operating plans for oil and gas development on reserved or outstanding mineral estate	Acres					
Quantity of oil, gas, natural gas liquids, and coal produced per year	Various					
Quantity of mineral materials produced per year	Tons					
Specially designated geologic and paleontologic sites	Number/Acres					
Geologic and paleontologic sites with programs for research, management and interpretation	Percent	20	20	20	20	20
Area that exceeds, meets, or is moving toward scenic integrity objectives	Acres	552,480	552,480	552,480	552,480	552,480
Special uses administered to standard	Number					

Outcomes and Activities	Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Number of visits to wildlife/fish/plant viewing sites	Visits					
Habitat provided for huntable/fishable/viewable species	Acres					
Goal 3: Ensure Organizational Effectiveness						
Roads on the Forest Development road system	Miles	1,585	1,585	970 to 1,550	960 to 1,150	1,220 to 1,620
Road miles maintained to standard	Percentage					
Roads maintained at levels 1	Miles					
Roads maintained at levels 2	Miles					
Roads maintained at levels 3	Miles					
Roads maintained at levels 4	Miles					
Roads maintained at levels 5	Miles					
Roads with closures installed	Miles					
Roads or "ways" not on the Forest Development road system	Miles					
Road construction	Miles					
Road reconstruction	Miles					
Roads/ways decommissioned	Miles					
Cooperative road maintenance	Miles					
National and regional priority FA&O facility projects accomplished	Number					
Land ownership consolidated	Acres					
Amount of NFS land boundaries surveyed and marked to standard	Percentage	30	30	30	30	30