

Index

A

- Access 3-145
- Affected population 3-261
- Air 3-6
 - cumulative effects 3-12
 - effects from fire management 3-9, 3-12
 - effects from road construction 3-12
 - effects from timber harvest 3-12
 - effects from travel management 3-12
 - general effects 3-11
- Airshed 3-6
 - Granby 3-11
 - Grand Junction 3-11
 - Medicine Bow 3-9
- Allowable sale quantity 3-246
- American Indians 3-263
- Aspen G-3
- Aspen volume 3-255
- ASQ See Allowable sale quantity
- Aquatic ecosystems D-47
- Aquatic habitat 3-93, 3-95, 3-97
 - general effects 3-95

B

- BE See Biological Evaluation
- Biological Assessment 3-62, J-2
 - for threatened and endangered species J-2
- Biological diversity 3-52, D-1
- Biological Evaluation 3-64, J-15

C

- Clean Air Act 3-6
- Coarse filter 3-52, D-1, D-10
- Colorado River cutthroat trout 3-74, 3-93, D-54
- Colorado Wilderness Act
 - of 1980 C-1
 - of 1993 C-2
- Communities
 - consequences to 3-271
 - Craig 3-267
 - Encampment 3-269
 - Kremmling 3-265
 - Laramie 3-268
 - Oak Creek 3-268
 - Saratoga 3-269
 - Steamboat Springs 3-268
 - Walden 3-266
 - Yampa 3-268
- Community profiles 3-265
- Continental Divide National Scenic Trail 3-157
- Counties
 - Albany County 3-268, 3-287

Counties (cont.)

- Carbon County 3-269, 3-289
- Grand County 3-265, 3-279
- Jackson County 3-266, 3-281
- Moffat County 3-266, 3-283
- payments to 3-291, 3-296
- Routt County 3-267, 3-285
- Current conditions, Routt National Forest D-23

D

- Determination of effects on listed species 3-63, J-11
- Disturbance 3-106
- Disturbance processes D-24
 - fire D-36
 - insects and disease D-25
 - current status/risk assessment D-31

E

- Ecological province D-6, D-10
- Ecological section D-15
- Ecological sections D-7
- Ecological units D-2
- Economics
 - analysis 3-273
 - cumulative effects 3-298
 - diversity and dependency 3-276
 - diversity and dependency analysis B-41
 - efficiency 3-297
 - efficiency analysis B-46
 - general effects 3-293
 - jobs and income 3-294
 - jobs and income modeling B-41
 - zone of influence 3-273
- Ecosystem function 3-111
- Electronic sites 3-146
- Employment 3-274
- Engelmann spruce/subalpine fir G-2
- EVC See Existing visual condition
- Existing visual condition 3-199

F

- Fine filter 3-61, D-1, D-50
- Fire 3-87
 - cumulative effects 3-92
 - effects from recreation 3-92
 - effects from timber harvest 3-90
 - effects from travel management 3-92
 - general effects 3-89
 - return interval 3-113
- Fire frequency 3-87, D-36
- Fire hazard 3-89
- Fire management 3-87

- Fisheries 3-93
 - cumulative effects 3-99
 - effects from dams and water diversions 3-98
 - effects from fire management 3-97
 - effects from minerals management 3-98
 - effects from range management 3-98
 - effects from recreation 3-98
 - effects from road construction 3-99
 - effects from timber management 3-99
 - effects from vegetation management 3-99
 - effects from wildlife management 3-99
 - general effects 3-95
- Flat Tops Wilderness Act C-1
- Forest Vegetation Simulation Model B-15
- FORPLAN B-16
 - changes between DEIS and FEIS B-30
- FVS See Forest Vegetation Simulation Model
- G**
- Gray wolf
 - re-introduction 3-62
 - recovery habitat 3-63
- Grazing restrictions 3-114
- Groundwater 3-41
- H**
- Habitat
 - alpine/talus 3-74
 - summary of effects on 3-80
 - aspen 3-72
 - direct and indirect effects on 3-77
 - caves/mine shafts 3-74
 - summary of effects on 3-80
 - cliffs with waterfalls 3-74
 - summary of effects on 3-80
 - grasslands/forblands 3-74
 - direct and indirect effects on 3-79
 - lodgepole pine 3-72
 - direct and indirect effects on 3-77
 - mature conifer 3-72
 - direct and indirect effects on 3-75
 - mixed deciduous/shrublands 3-73
 - direct and indirect effects on 3-78
 - open water 3-74
 - summary of effects on 3-80
 - ponderosa pine 3-73
 - riparian/wetlands 3-73
 - direct and indirect effects on 3-79
- Habitat structural stage 3-60, 3-89, 3-109, 3-119, 3-124
 - changes to 3-111, 3-116
 - late successional 3-67, 3-72, 3-76, 3-111, 3-125, 3-129
- Heritage resources 3-13
 - cumulative effects on 3-18
- Heritage resources (cont.)
 - effects from facilities maintenance 3-16
 - effects from fire protection 3-16
 - effects from land exchanges 3-16
 - effects from mineral and energy development 3-17
 - effects from range management 3-17
 - effects from recreation 3-17
 - effects from timber management 3-17
 - effects from utility corridors 3-17
 - effects from wilderness management 3-17
 - effects from wildlife and fisheries 3-18
 - general effects on 3-16
- Historic/Euro American resources 3-15
- Housing 3-262
- Hunting 3-128, 3-136
- I**
- Income 3-274
- Insects and disease 3-101
 - cumulative effects 3-104
 - effects from fire management 3-103
 - effects from recreation 3-104
 - effects from timber management 3-103
 - effects from travel management 3-104
 - effects from wilderness management 3-104
 - general effects 3-102
- Inventory data and information collection B-3
- L**
- Land adjustments 3-145
- Land exchange 3-145
- Land ownership 3-143
 - adjustments 3-143
- Lands 3-142
 - cumulative effects 3-149
- Late successional forest 3-109, 3-119, D-37
 - distribution D-38
 - fragmentation D-45
 - patch statistics D-38
- Late successional patches 3-110
- Lodgepole pine G-3
- M**
- Management indicator species 3-122
- MIS See Management indicator species
- Minerals 3-229
 - common variety 3-232, 3-239
 - leasable 3-230-3-231
 - direct and indirect effects 3-235
 - locatable 3-229-3-230
 - direct and indirect effects 3-232
 - withdrawal of 3-231
- Mistletoe 3-103
- Mountain pine beetle 3-103

N

Natural disturbance events 3-112
 Neotropical species 3-123
 Neotropical birds 3-126, 3-140
 Nondesignated travelways 3-194
 Noxious weeds 3-111
 effects on 3-118

O

Oil and gas leasing 3-230-3-231
 cumulative effects 3-240
 effects to air 3-239
 effects to range 3-239
 effects to soils 3-239
 effects to water/riparian 3-239
 effects to wildlife and sensitive species 3-239
 reasonable foreseeable development 3-235
 stipulations for Zones 1, 2, and 3 3-235
 Old growth 3-67, 3-86, 3-109

P

Paleontological resources 3-15
 Perennial streams 3-95
 Prehistoric/American Indian resources 3-14
 Planning process B-1
 Plants
 sensitive species 3-67, 3-75
 Preliminary conservation planning areas D-55
 Prescribed burns 3-88
 for habitat improvement projects 3-88
 Proposed Research Natural Areas
 Black Mountain F-7
 California Park F-7
 Kettle Lakes F-6
 Mad Creek F-5
 Never Summer F-6
 Silver Creek F-4
 Williams Fork F-5

R

Range 3-241
 cumulative effects 3-245
 effects from recreation 3-244
 effects from riparian and wetland management 3-244
 effects from roadless areas 3-244
 effects from threatened, endangered, and sensitive species management 3-245
 effects from timber harvest 3-245
 effects from transportation management 3-245
 effects from wild and scenic rivers 3-245
 general effects 3-243
 management 3-241
 Rangeland 3-241

capability
 definition of B-31
 capability analysis B-31
 condition 3-242
 suitability
 definition of B-31
 suitability analysis B-33

Range of Natural Variability 3-57, 3-113, D-1, D-59

Recreation 3-150
 cumulative effects 3-167
 developed 3-153
 effects on 3-163
 dispersed 3-155
 effects on 3-163
 downhill skiing 3-154
 effects from range management 3-166
 effects from Research Natural Areas 3-166
 effects from roadless area management 3-166
 effects from timber management 3-166
 effects from travel management 3-165
 general effects 3-160
 modelling and analysis B-49
 setting 3-153
 special uses 3-155
 effects on 3-163
 water-related opportunities 3-158
 wilderness opportunities 3-159
 effects on 3-164
 wildlife-related opportunities 3-159
 effects on 3-164
 winter
 dispersed opportunities 3-160
 effects on 3-165
 Recreation Opportunity Spectrum 3-153, 3-160, 3-162
 Recreation residence 3-144-3-145
 Reference stream reaches I-1
 Reference streams 3-35
 inventory and evaluation of 3-35
 Regeneration 3-25
 Regional economy 3-277
 Research Natural Areas 3-169, F-1
 cumulative effects 3-178
 effects on facilities management 3-173
 effects on fire management 3-173
 effects on heritage resource management 3-173
 effects on insects and disease management 3-173
 effects on minerals management 3-173
 effects on range management 3-174
 effects on recreation 3-175
 effects on special uses 3-176
 Research Natural Areas (cont.)

- effects on threatened, endangered, and sensitive species management 3-176
 - effects on timber management 3-176
 - effects on travel management 3-176
 - effects on wilderness management 3-177
 - effects on wildlife management 3-173
- Rights-of-Ways 3-149
- Riparian 3-99
- Riparian/Wetlands 3-31, 3-41
 - assessment 3-46
 - inventory 3-43
 - management impacts to 3-44
- RNAs See Research Natural Areas
- Road construction 3-96
- Road density
 - effects on wildlife 3-127
 - general effects on wildlife 3-132
- Roadless area
 - availability 3-181
 - capability 3-181
 - cumulative effects 3-187
 - direct and indirect effects 3-183
 - evaluation B-54
 - general effects 3-182
 - inventory 3-179
 - inventory process B-54
 - need for 3-181
 - recommended for wilderness 3-182
 - vegetative structure 3-60
- Roadless areas 3-179, C-1
 - capable and available 3-185
 - environmental effects C-8
 - summaries of C-10
- Roadless character 3-186
- Roads 3-193
- ROS See Recreation Opportunity Spectrum
- RNV See Range of Natural Variability
- S**
- Sandhill crane 3-73
- Sensitive plants 3-81
- Sensitive species 3-64-3-65, 3-68-3-69, 3-85
 - cumulative effects 3-84
 - effects from fire management 3-81
 - effects from fisheries management 3-82
 - effects from insect and disease management 3-82
 - effects from minerals management 3-82
 - effects from range management 3-83
 - effects from recreation management 3-83
 - effects from road construction 3-84
 - effects from timber management 3-84
 - effects from wildlife management 3-84
- SIAs See Special Interest Areas
- Silvicultural systems G-4
 - clearcutting G-5
 - coppice G-6
 - selection G-7
 - shelterwood G-6
- Social 3-259
 - cumulative impacts 3-272
 - land ownership 3-263
- Social analysis 3-259
 - zone of influence 3-259
- Social change 3-270
- Social environment 3-259
- Soil 3-19
 - compaction 3-22
 - cumulative effects on 3-30
 - effects from fire management 3-25
 - effects from range management 3-26
 - effects from recreation 3-27
 - effects from road construction 3-27
 - effects from timber harvest 3-27
 - effects from travel management 3-29
 - erosion 3-21
 - erosional index 3-23, 3-96
 - general effects on 3-23
 - organic matter 3-22
 - productivity 3-20
- Special Interest Areas 3-188, 3-190
 - California Park 3-190
 - Camp Creek 3-190
 - effects on range management 3-191
 - effects on timber management 3-191
 - Encampment River 3-190
 - general effects 3-191
 - Horse Park moose viewing area 3-191
 - Little Snake 3-190
 - Teller City 3-190
 - Windy Ridge 3-190
- Special interest groups 3-271
- Special-use permits 3-143
- Special uses 3-143
- Species viability 3-85
- Spruce beetle 3-103
- State Historic Preservation Office 3-14
- Succession 3-106, 3-111
- Summary of watershed disturbance 3-48
- Surface water 3-37
- T**
- Threatened and endangered species 3-62
- Threatened, endangered, and sensitive species 3-61, D-50
- Timber 3-246
 - cumulative effects 3-257
 - effects from fire management 3-256
 - effects from insect and disease management 3-256
- Timber (cont.)

- effects from roadless areas 3-255
 - general effects 3-251
 - supply and demand 3-248
- Timber management 3-246
 - acres harvested 3-104, 3-115
 - below-cost timber sales 3-250
 - modeling B-16
 - precommercial thinning 3-118
 - regeneration 3-116
 - rotation ages 3-117
 - silvicultural prescriptions 3-116
 - silvicultural systems G-1
 - vigor of stands 3-103
- Timber suitability 3-21, 3-251
 - and management area prescriptions 3-253
- Timber suitability analysis B-4
- Tourism 3-197
- Trailheads 3-156
 - effects on 3-163
- Trails 3-156, 3-194
 - effects on 3-163
- Travel management 3-192
 - cumulative effects 3-196
 - effects from management area prescriptions 3-195
 - effects from recreation 3-195
 - effects from timber management 3-195
 - general effects 3-194
 - road construction 3-194
- U**
- Utility corridors 3-146
- W**
- Water 3-31
- Water Conservation Practices Handbook 3-20
- Watershed health 3-95
- Watershed health assessment 3-34, I-1
- Watershed improvement needs 3-36
- Watersheds 3-36
 - cumulative effects from
 - diversions 3-51
 - range management 3-51
 - recreation 3-51
 - ski areas 3-51
 - timber management 3-51
 - effects from dams and water diversions 3-50
 - effects from range management 3-49
 - effects from recreation 3-49
 - effects from ski areas 3-50
 - effects from snowmobiles 3-50
 - effects from timber harvest 3-46
- Watersheds of concern 3-34, I-1
- Water yield 3-46
- Wetlands 3-32
- Wild and scenic rivers 3-213, E-1
 - cumulative effects 3-216
 - effects from minerals management 3-216
 - effects from range management 3-216
 - effects from recreation 3-216
 - effects from road construction 3-216
 - effects from timber management 3-216
 - effects from visual resource management 3-216
 - general effects 3-215
- Wilderness Act, 1964 C-1
- Wilderness 3-217
 - availability C-3
 - Byers Peak 3-222
 - capability C-2
 - cumulative effects 3-226
 - demand 3-223
 - effects from fire management 3-224
 - effects from fisheries management 3-226
 - effects from heritage resource management 3-224
 - effects from minerals management 3-224
 - effects from range management 3-224
 - effects from recreation 3-225
 - effects from Research Natural Areas 3-226
 - effects from threatened, endangered, and sensitive species 3-226
 - effects from timber management 3-226
 - effects from visual resource management 3-226
 - effects from wildlife management 3-226
- Flat Tops 3-220
- general effects 3-224
- Mount Zirkel 3-221
- need for C-4
- Never Summer 3-220
- Platte River 3-222
- recommended additional wilderness 3-182
- Sarvis Creek 3-221
- Vasquez Creek 3-222
- Wilderness characteristics 3-184
- Wildfire See Wildland fires
- Wildfire management strategies 3-90
 - direct control 3-88
 - perimeter control 3-88
 - prescription control 3-88
- Wildland fires 3-88, 3-90
- Wildlife 3-121
 - cumulative effects on 3-139
 - deer 3-121
 - effects from fire management 3-136
 - effects from fisheries management 3-137
 - effects from insect and disease management 3-137
 - effects from minerals management 3-137
 - effects from range management 3-138
- Wildlife (cont.)

Index

- effects from recreation 3-138
- effects from road construction 3-139
- effects from timber management 3-139
- elk 3-127
- game species
 - blue grouse 3-131
 - deer 3-131
 - elk 3-131
- habitat effectiveness 3-127, 3-134, 3-140
- modelling and analysis B-47
- population viability 3-61
- sandhill crane 3-73
- species on forest 3-121
- species viability 3-121
- Wildlife habitat
 - alpine/talus 3-127, 3-131
 - aspen 3-125, 3-129
 - coarse woody down and dead 3-124, 3-129
 - grassland/forbland 3-126, 3-131
 - lodgepole pine 3-126, 3-130
 - mature conifer 3-125, 3-129
 - mixed deciduous/shrublands 3-126, 3-130
 - riparian/wetland 3-126, 3-130
 - snags 3-124, 3-129
- Wyoming Wilderness Act of 1984 C-2
- V**
- Variety class 3-206
- Vegetation 3-106
 - cover type 3-107
 - aspen 3-108
 - Douglas-fir 3-108
 - grassland/forbland 3-108
 - lodgepole pine 3-108
 - shrublands 3-108
 - spruce/fir 3-107
 - cumulative effects on 3-119
 - effects from fire management 3-112
- Vegetation (cont.)
 - effects from insect and disease management 3-112
 - effects from range management 3-114
 - effects from recreation 3-115
 - effects from threatened, endangered, and sensitive species management 3-115
 - effects from timber management 3-115
 - effects from vegetation management 3-118
 - general effects on 3-111
 - structure 3-108, 3-116
- Viewpoints 3-206
- Visual Quality Objective 3-200
- Visual quality objective
 - maximum modification 3-201
 - modification 3-201
 - partial retention 3-201
 - preservation 3-200
 - retention 3-200
- Visual resources 3-197
 - cumulative effects 3-212
 - effects from cultural resource management 3-208
 - effects from facilities management 3-208
 - effects from fire management 3-208
 - effects from fisheries management 3-209
 - effects from insect and disease management 3-209
 - effects from minerals management 3-209
 - effects from range management 3-209
 - effects from recreation 3-209
 - effects from road construction 3-210
 - effects from ski area development 3-208
 - effects from timber management 3-210
 - effects from travel management 3-210
 - effects from utility corridors 3-211
 - effects from vegetation management 3-211
 - effects from wilderness management 3-211
 - effects from wildlife management 3-211
 - rehabilitation 3-208
- VQO See Visual Quality Objective