

**Table 2-11
Comparison of Alternatives**

Resource/Category	Unit of Measure	Alternative					
		1	2	3	4	5	6
		No Action	Roaded Roadless	Logical Extension	Partial Dev LUDs	Full Dev LUDs	Full Exemption
Key Issue 1 – Roadless Area Conservation							
Overall Protection of Roadless Characteristics on the Tongass	Qualitative ¹	Neutral/No Effect	Neutral/No Effect	Very Minimal Adverse Effect	Minimal Adverse Effect	Moderate Adverse Effect	Moderate Adverse Effect
Total Roadless Area	Acres	9,200,000	9,220,000	8,103,000	8,857,000	6,905,000	0
Roadless Priority	Acres	N/A	5,114,000	4,653,000	7,252,000	6,078,000	0
LUD II Priority	Acres	N/A	856,000 ²	0	856,000 ²	828,000 ²	0
Watershed Priority	Acres	N/A	3,250,000	3,208,000	0	0	0
Community Priority	Acres	N/A	0	241,000	0	0	0
Timber Priority	Acres	N/A	0	0	749,000	0	0
Roadless Area Removed	Acres	0	113,000	1,202,000	375,000	2,298,000	9,200,000
Roadless Area Added	Acres	0	133,000	105,000	32,000	3,000	0
Roadless Area in Development LUDs ³	Acres	2,168,000	2,134,000	1,935,000	1,875,000 ⁴	21,000 ⁵	0
Key Issue 2 Support local and regional socioeconomic well-being, Alaska Native culture, rural subsistence activities, and economic opportunity across multiple economic sectors							
Forest Products Industry	Qualitative	Neutral/No Effect	Very Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect
Recreation/Tourism (Visitor) Industry	Qualitative	Neutral/No Effect	Neutral/No Effect	Very Minimal Adverse Effect	Minimal Adverse Effect	Minimal Adverse Effect	Minimal Adverse Effect
Fisheries Industry	Qualitative	Neutral/No Effect	Neutral/No Effect	Neutral/No Change	Neutral/No Effect	Neutral/No Effect	Neutral/No Effect
Minerals Development Potential							
Locatable	Qualitative	Neutral/No Effect	Neutral/No Effect	Neutral/No Effect	Neutral/No Effect	Neutral/No Effect	Neutral/No Effect
Leasable	Qualitative	Neutral/No Effect	Very Minimal Beneficial Effect	Very Minimal Beneficial Effect	Moderate Beneficial Effect	Moderate Beneficial Effect	Moderate Beneficial Effect
Renewable Energy Project Development Potential	Qualitative	Neutral/No Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect
Potential for Development of State Roads and Other Transportation Projects	Qualitative	Neutral/No Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Moderate Beneficial Effect	Moderate Beneficial Effect	Moderate Beneficial Effect

2 Alternatives Including the Proposed Action

**Table 2-11 (continued)
Comparison of Alternatives**

Resource/Category	Unit of Measure	Alternative					
		1	2	3	4	5	6
		No Action	Roaded Roadless	Logical Extension	Partial Dev LUDs	Full Dev LUDs	Full Exemption
Land Suitable for Timber Production							
Old Growth	Acres	230,000	247,000	305,000	388,000	395,000	395,000
Young Growth	Acres	334,000	344,000	348,000	349,000	351,000	354,000
Increase in Suitable Old Growth							
In Roaded Areas	Acres	0	18,000	18,000	18,000	18,000	18,000
In Logical Extensions of Roaded Areas	Acres	0	0	50,000	50,000	50,000	50,000
In Community Priority Areas	Acres	0	0	8,000	0	0	0
In Areas More Distant from Roads	Acres	0	0	0	91,000	98,000	98,000
TOTAL	Acres	0	18,000	76,000	158,000	165,000	165,000
Increase in High-Volume Suitable Old Growth							
In Roaded Areas	Acres	0	6,000	6,000	6,000	6,000	6,000
In Logical Extensions of Roaded Areas	Acres	0	0	20,000	20,000	20,000	20,000
In Community Priority Areas	Acres	0	0	2,000	0	0	0
In Areas More Distant from Roads	Acres	0	0	0	30,000	33,000	33,000
TOTAL	Acres	0	6,000	28,000	55,000	59,000	59,000
Support for Alaska Native Culture due to improved access to tree harvest for cultural purposes	Qualitative	Neutral/No Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect	Minimal Beneficial Effect
Support for Subsistence Activities	Qualitative	Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects
Community Effects - overall level of potential change for communities	Qualitative	Neutral/No Effect	Neutral/No Effect	Very Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects	Minimal Adverse and Beneficial Effects
Key Issue 3 – Protection of terrestrial and aquatic wildlife habitat and ecosystem diversity							
Percent of existing productive old growth harvested after 100 years	Percent ⁶	1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1

Alternatives Including the Proposed Action 2

**Table 2-11 (continued)
Comparison of Alternatives**

Resource/Category	Unit of Measure	Alternative					
		1	2	3	4	5	6
		No Action	Roaded Roadless	Logical Extension	Partial Dev LUDs	Full Dev LUDs	Full Exemption
Percent of original productive old growth remaining after 100 years (92% in 2015)	Percent	91	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1
Percent of original high volume productive old growth remaining after 100 years (83% in 2015)	Percent	83	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1
Percent of original large-tree productive old growth remaining after 100 years (82% in 2015)	Percent	81	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1
YG Harvest in Beach and Estuary Fringe after 100 years (all prescriptions)	Acres	3,546	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Very Minimal Increase
YG Harvest in Riparian Management Areas after 100 years (all prescriptions)	Acres	882	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Very Minimal Increase	Very Minimal Increase
YG Harvest in Old Growth Habitat LUD after 100 years (all prescriptions)	Acres	1,796	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Minimal Increase
Average road density on NFS lands after 100 years (0.20 mile/square mile in 2016)	Miles/Sq. Mile	0.23	Similar to Alt. 1	Similar to Alt. 1	Very Minimal Increase	Very Minimal Increase	Very Minimal Increase
Average road density on All lands within Tongass boundary after 100 years (0.33 mile/sq.mi.in 2016)	Miles/Sq. Mile	0.45	Similar to Alt. 1	Similar to Alt. 1	Very Minimal Increase	Very Minimal Increase	Very Minimal Increase
Percent of WAAs with road density on NFS lands <0.7 mile/sq. mile after 100 years (85% in 2016)	Percent	83	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1
Percent of WAAs with road density on All lands <0.7 mile/sq. mile after 100 years (79% in 2016)	Percent	72	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1	Similar to Alt. 1
Total area/potentially suitable old-growth area in T77 & TNC/Audubon Conservation Priority Areas outside of roadless given long-term protection	Acres	0/0	0/0	377,000/49,000	0/0	0/0	0/0

2 Alternatives Including the Proposed Action

**Table 2-11 (continued)
Comparison of Alternatives**

Resource/Category	Unit of Measure	Alternative					
		1 No Action	2 Roadless Roadless	3 Logical Extension	4 Partial Dev LUDs	5 Full Dev LUDs	6 Full Exemption
Species-Specific Effects							
Goshawks – Likelihood of maintaining viable, well-distributed populations after 100 years	Rating ⁶	Very High	Very High	Very High	Very High	Very High	Very High
Marten – Likelihood of maintaining viable, well-distributed populations after 100 years	Rating	Very High	Very High	Very High	Very High	Very High	Very High
Wolf – Likelihood of maintaining viable, well-distributed populations after 100 years	Rating	Very High	Very High	Very High	Very High	Very High	Very High
Brown Bear – Likelihood of maintaining viable, well-distributed populations after 100 years	Rating	Very High	Very High	Very High	Very High	Very High	Very High
Endemic Mammals – Likelihood of maintaining viable, well-distributed populations for all endemics after 100 years	Rating	Moderate to High	Moderate to High	Moderate to High	Moderate to High	Moderate to High	Moderate to High
Deer habitat capability on NFS Lands after 100 years in Terms of Percent of Original (1954) Habitat Capability (89% currently)	Percent	88	Similar to Alt.1	Similar to Alt.1	Similar to Alt.1	Similar to Alt.1	Similar to Alt.1

Notes:

¹ Nine categories are used for the Qualitative ratings. See the beginning of the *Comparison of Alternatives* section for a complete listing.

² Total acres in LUD II Priority for Alternatives 2 and 4 is actually 870,000. The acres listed for LUD II Priority are based on the 2001 Roadless Rule GIS layer, which used a slightly different shoreline and did not include large lakes.

³ Note that, with the exception of the Timber Priority ARA, roadless designation on development LUDs provides the highest degree of protection, because these are areas that are mostly likely to be developed if they were not designated roadless. Most non-development LUDs have Forest Plan restrictions which limit their potential for development. Development LUDs include Timber Management, Modified Landscape, Scenic Viewshed, and Experimental Forest LUDs.

⁴ Note the 1,875,000 acres of designated roadless under Alternative 4 includes 749,000 acres of Timber Priority. If Timber Priority is excluded because it does not provide protection from timber harvest, the designated roadless area in development LUDs is 1,125,000 acres.

⁵ These roadless development LUD acres in Alternative 5 are all in Experimental Forest.

⁶ Under Key Issue 3, the action alternatives are compared with acres, miles/sq. mile, or percent, from the 2016 Forest Plan FEIS. “Similar to Alternative 1” means “same as Alt.1 with some very slight variation”. It is essentially the same as no difference or very slight difference.

Under Key Issue 3, the Rating is also from the 2016 Forest Plan FEIS and it relates to the “likelihood of maintaining viable, well-distributed populations after 100 years” for a species or species group. Similar ratings are also given for the action alternatives.