

APPENDIX A

RISK AND VALUE CRITERIA

Annual Maintenance Cost Values

This value was established to represent one value in the forest's calculation of the road management category. Maintenance costs for fiscal year 2001 were used for this calculation. Initially forest records produced a table showing the road maintenance cost for all the Arterial, Collector, and Major Local roads. Using these values, a table of High, Medium and Low Cost Values was established for each category of forest road. See the tables below.

ARTERIALS		
Total AM	Miles	AM/mile
1,851,395	415.90	4,452
High	more than \$6700/mi	
Medium	\$2200-6700/mi	
Low	less than \$2200/mi	

COLLECTORS		
Total AM	Miles	AM/mile
1,482,315	641.09	2,312
High	more than \$3500/mi	
Medium	\$1200-3500/mi	
Low	less than \$1200/mi	

LOCALS		
Total AM	Miles	AM/mile
639,345	664.38	962
High	more than \$1400/mi	
Medium	\$500-1400/mi	
Low	less than \$500/mi	

Based on those values the following sets of values was given to each class of road:

Arterials High = 3, Medium = 2, Low = 1

Collectors High = 3, Medium = 2, Low = 1

Major Locals High = 3, Medium = 2, Low = 1

In order for these values to be compared it became necessary to provide a functioning factor to level out the values to one set of road costs that could be compared. An example would be the comparison of a High Value Arterial with a High Value Major Local Road. The value for each road did not provide for a true comparison unless a factor was applied. The functioning factor is an attempt to level the comparison between different classes of roads.

Arterial Roads	3
Collector Roads	2
Major Local Roads	1

Since the addition of the functioning factor to the original Annual Maintenance Cost Value for each road resulted in a new range of values, it became necessary to create a new High, Medium and Low. The following is the new adjusted Maintenance Cost Values:

- 6 or 5 equals a High Value = 3 shown on the road matrix
- 4 equals a Medium Value = 2 shown on the road matrix
- 3 or 2 equals a Low Value = 1 shown on the road matrix.

Recreation Use Value

- ?? High = high use levels; major through roads; and roads to points of interest
- ?? Medium = medium use levels; destination roads; numerous dispersed campsites
- ?? Low = minor through road; no points of interest

Access Value

- ?? High = primary access to private land or Forest Service administrative facility; includes Forest Highways that may provide access to multiple facilities, private land and management areas
- ?? Medium = alternate access to private land or Forest Service administrative facility
- ?? Low = does not access private land or Forest Service facilities.

Resource Management Value

- ?? Step 1 is based on the following:
 - High = road segment in management area E1
 - Medium = road segment in management area C8S
 - Low = road segment in management areas A to C6.
- ?? Step 2 – adjust the Step 1 ratings up or down based on the following:
 - Timber management needs
 - Reforestation management needs
 - Fire suppression or fire management needs

Adjusted values are shown in the Road Matrix for each road segment.

RESOURCE RISK CRITERIA:

Mass Wasting Risk

?? The mass wasting and road surface erosion ratings (L, M, H) were based on the percentage of the road segment with high to very high erosion potentials. For mass wasting (MW), if the % of the road segment with H to VH mass wasting or debris avalanche or sediment delivery potentials is:

- 0-33%, then the MW rating is LOW
- 33-67%, then the MW rating is MODERATE
- 67-100%, then the MW rating is HIGH

Surface Erosion Risk

?? For road surface erosion (SE), if the % of the road segment with H to VH subsurface or parent material erosion potential is:

- 0-33%, then the SE rating is LOW
- 33-67%, then the SE rating is MODERATE
- 67-100%, then the SE rating is HIGH

Aquatic Risk

- ?? High = bull trout and/or steelhead trout present in the drainage and/or habitat is designated *focal* for bull trout and *critical* for steelhead trout.
- ?? Moderate = habitat is designated adjunct for bull trout and/or westslope cutthroat trout is present in the drainage
- ?? Low = bull trout, steelhead trout and/or westslope cutthroat trout are NOT present in the drainage.

Wildlife Risk

- ?? High = high impact to elk
- ?? Medium = moderate impact to elk
- ?? Low = no impact to elk