# MT. BAKER-SNOQUALMIE NATIONAL FOREST

**Minimum Road Analysis** 

Felix Nishida Assistant Forest Engineer

### Minimum Road System (2001) (36 CFR 212.5(b))

■ Use science based process to identify transportation facilities (Road Analysis) Identify minimum road system: Commensurate with Resource Objectives Reflects likely funding Minimizes adverse environmental effects Identify roads no longer needed and therefore should be decommissioned

### **Current Situation**

The forest can no longer afford to properly maintain its road system at current operational levels

Some road systems may not be aligned with current resource management objectives

Some roads pose risk to the environment due to outdated design standards Climate Change!

### Strategy

**Identify the minimum road system (MRS) Analyzing road systems Access needs Environmental risks Financial stability Identify roads for decommissioning RO standard: ML 3-5 = 10% of road** system, currently 42% (2008)

## **Information Used**

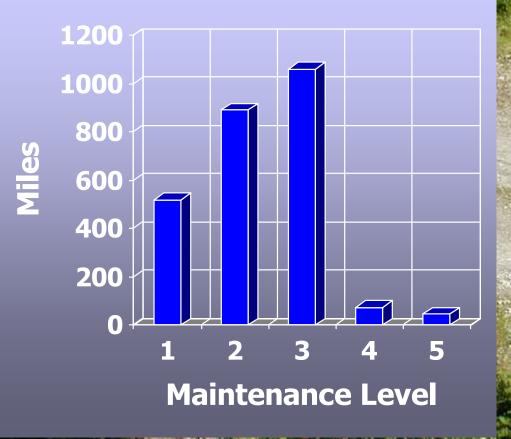
Forest-wide Roads Analysis, 2003
Engineering First-cut, 2006
District Reviews, 2007 – 2008
Materials Pits (Nichols knowledge)
Fire Management Access

### Assumptions

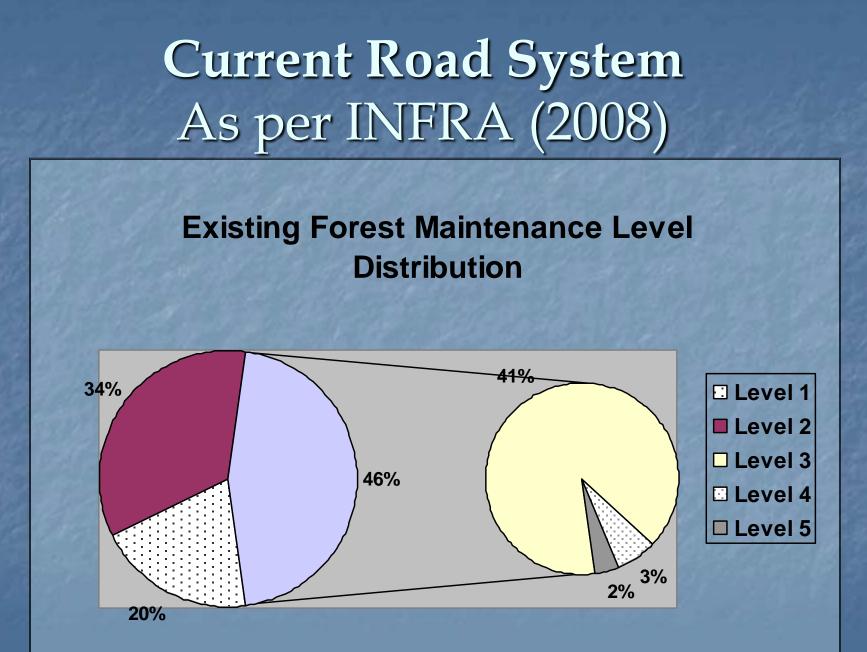
**INFRA** is the authoritative database The Forest desires to reduce road maintenance costs General road maintenance is the target **Focused only on the operational** maintenance level **Road maintenance costs vary significantly –** planning values = \$715/mi & \$1750/mi

### Current Road System As per INFRA (2008)

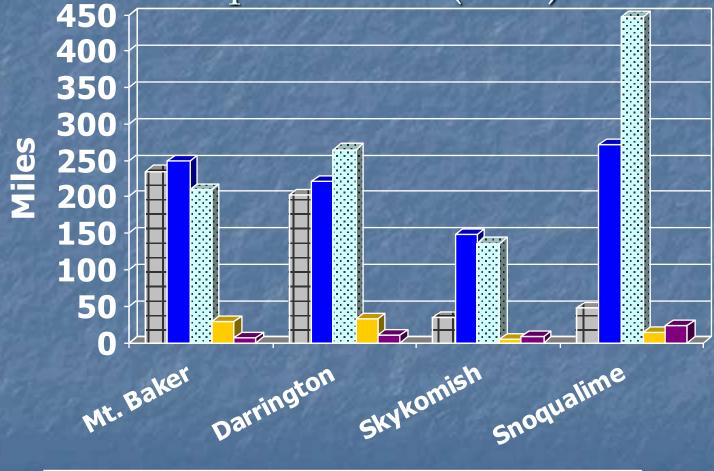
#### **MBS Road System**



Total Miles: 2596 ML 1: 519 ML 2: 891 ML 3: 1060 ML 4: 80 ML 5: 46 Decomm.: 313



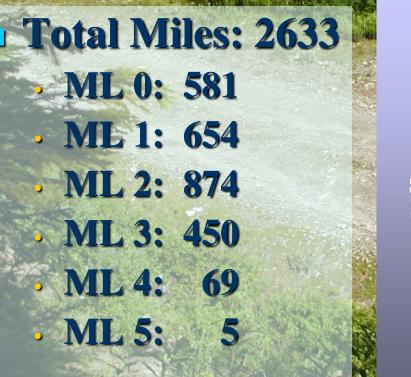
### Current Road System As per INFRA (2008)



■ ML 1 ■ ML 2 ■ ML 3 ■ ML 4 ■ ML 5

# Proposed Road System June 2009

#### **MBS Road System**

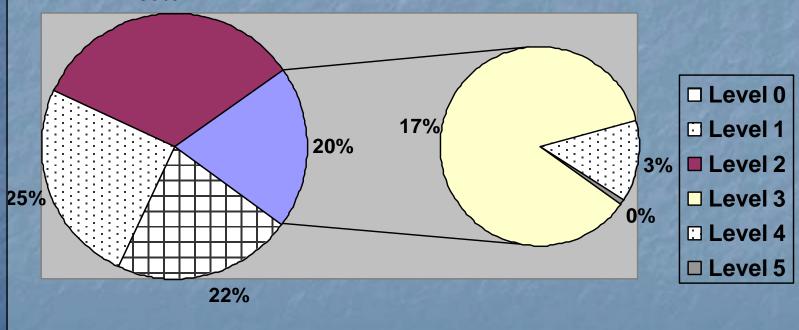




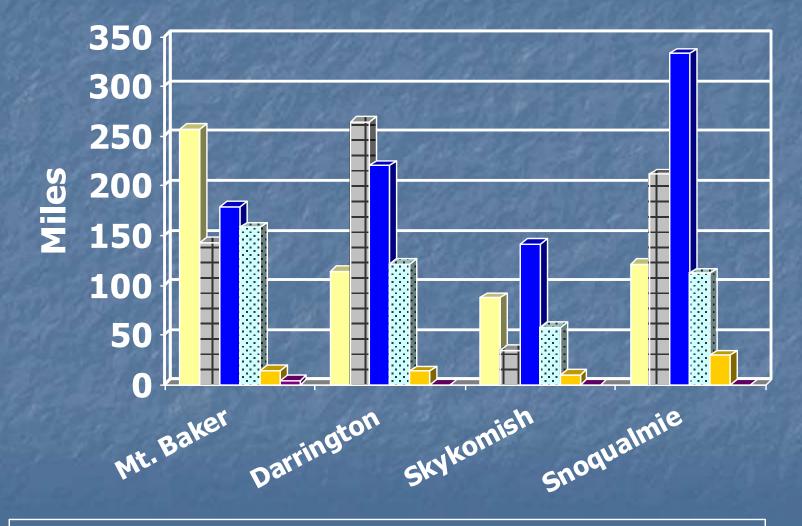
# 2009 Proposed Road System



33%

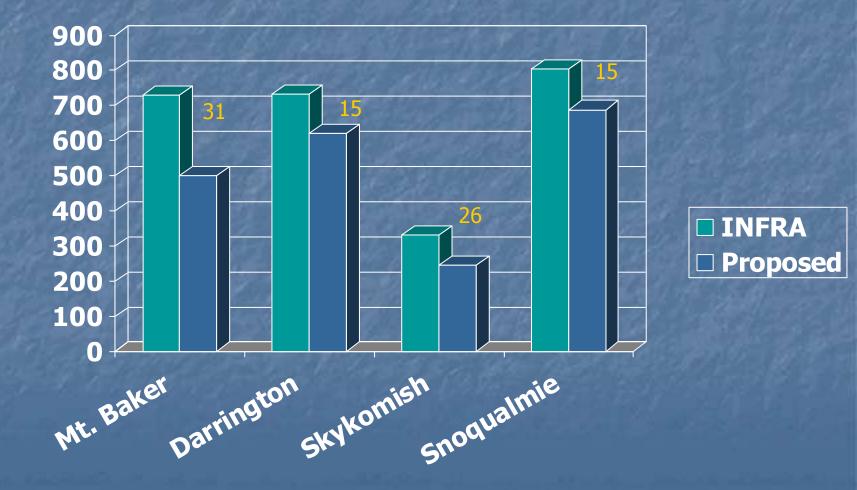


### 2009 Proposed Road System

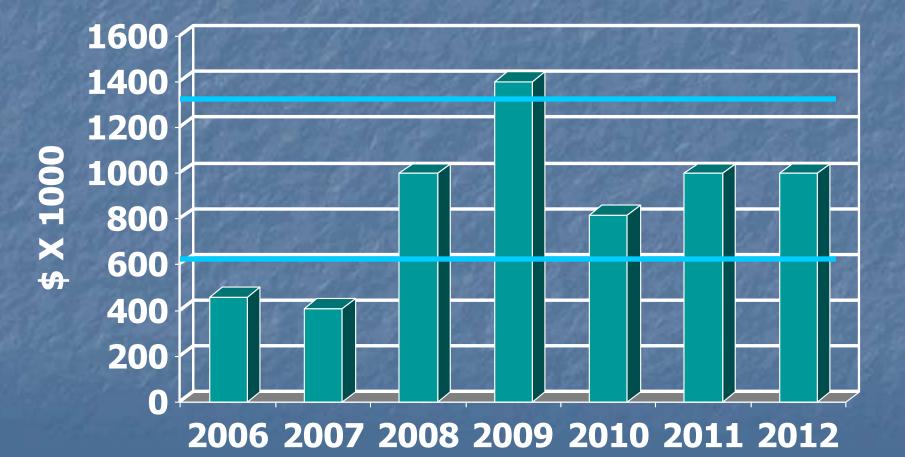


#### ■ ML 0 ■ ML 1 ■ ML 2 ■ ML 3 ■ ML 4 ■ ML 5

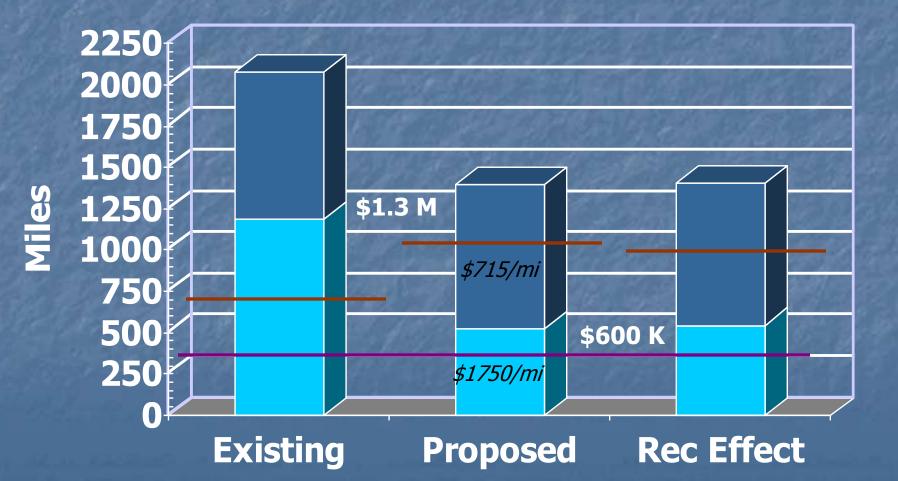
### 2008 INFRA vs 2009 Proposed Miles of ML 1-5



## Costs and Budget Road Maintenance Budget



### Annual Maintenance Costs Level 2-5 Road Maintenance



## Benefits of Moving Progressing Toward Minimum Road System

Being Well Positioned to Apply for Funds: Road Improvement Decommissioning New funding sources (Presidential Initiatives) Provide Framework to set annual maintenance priorities Meet Agreement Terms w/ Regulatory Agencies (CWA) Financial sustainability and flexibility

# Discussion

Credits: Gary Ketcheson Peter Wagner Joe Moran