

Forest Stewardship Plan update 2020-2030

Management Visualization using GIS
Background & Examples

Management Unit Development/Update

- Consultant creates (utilizing a geomodel/geodatabase approach) “Resource Management Units” or RMUs
- RMU boundaries will be based on past Timber Management Unit boundaries and new priority GIS inputs (such as habitat, heritage stand, etc.)
- RMU model will be composed of “Sensitivity Classes” based on the RMU sensitivity to disturbance

Sensitivity to Disturbance Classes

- 1. Highly Sensitive: Typical of riparian areas and endangered species habitat. These units will be managed for no disturbance **from forest management**, except for careful enhancement of desirable features.
- 2. Sensitive. Typical of old growth and heritage forest stands. These units will be managed for only well planned and carefully conducted disturbances such as trail building, fire resiliency improvement, and invasive species removal.
- 3. Moderate. Typical of areas in need of prescriptive management to improve stand resiliency and structure, such as conifer thinning and oak release. Minimal road building and low-impact mechanized logging equipment will be allowed in these units.
- 4. Commercial. Typical of conifer stands managed primarily for commercial harvest or thinning for future commercial harvest. Road building and low impact mechanized logging will be allowed.
- 5. Development. Typical of public entrance areas where parking and services are provided. Structural enhancements will be allowed.

Example GIS Visualization Inputs for RMUs and associated Sensitivity Class

Existing Timber Management Unit inputs

Age Class
Size Class
Characteristic (riparian, Doug Fir stand, Mixed Woodland)
Soils,
DEM,
Snags,
Existing Roads,
other



New Resource Management Unit (RMU) inputs

Past Harvest Locations & Dates,
Habitat,
Carbon,
Wildfire Risk,
"Old Growth priority",
New minimal,
Roads,
other



Sensitivity Classes
(attribute class for each RMU based on inputs)

Highly Sensitive

Sensitive

Moderate

Commercial

Development