



MANAGEMENT PLAN COMPONENTS

MENDOCINO REDWOOD COMPANY (MRC) HAS A VARIETY OF PLANNING DOCUMENTS AND WRITTEN REPORTS THAT CONTAIN, IN MANY CASES, DETAILED SUMMARIES OF THE PLAN COMPONENTS SET FORTH IN FSC CRITERION 7.1 (A)-(I). THE TABLES ON THE FOLLOWING PAGES PROVIDES A SPECIFIC-CROSS REFERENCE TO THESE MANAGEMENT PLAN COMPONENTS.

REFERENCED DOCUMENTS AND REPORTS

DOCUMENTS AND REPORTS REFERENCED CAN BE OBTAINED IN THE FOLLOWING LOCATIONS:

- MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS: FOUND ON OUR WEB SITE AT: <http://www.mrc.com/MPPP.html> OR HARDCOPIES AVAILABLE AT ANY OF OUR OFFICE LOCATIONS (CALPELLA, CA (707) 485-8731 OR FORT BRAGG (707) 962-2800). ALSO AVAILABLE AT THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION (CDF) 135 RIDGEWAY AVE, SANTA ROSA, CA 95401 (707) 576-2959.
- MRC'S OPTION A: FOUND ON OUR WEB SITE AT: <http://www.mrc.com/MPPP.html> OR HARDCOPIES AVAILABLE AT ANY OF OUR OFFICE LOCATIONS (CALPELLA, CA (707) 485-8731 OR FORT BRAGG (707) 962-2800). ALSO AVAILABLE AT THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION (CDF) 135 RIDGEWAY AVE, SANTA ROSA, CA 95401 (707) 576-2959.
- MRC'S WATERSHED ANALYSES (GARCIA, ALBION AND NOYO WATERSHEDS CURRENTLY AVAILABLE) HARDCOPIES AVAILABLE AT OUR FORT BRAGG FOREST SCIENCE OFFICE LOCATION ((707) 962-2900).
- MRC'S TIMBER HARVEST PLANS (THPS): AVAILABLE AT THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION (CDF) 135 RIDGEWAY AVE, SANTA ROSA, CA 95401 (707) 576-2959.
- MRC'S WEB SITE (VARIETY OF REFERENCES): <http://www.mrc.com>



a) Management objectives

MRC PURPOSE on our Web Site : <http://www.mrc.com/OurPurpose.html>

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

SPECIFIC OBJECTIVES:

1. Improved Inventory of Conifer Trees: pp. 4-21
2. Improved Land-Based Habitat: pp. 22-29
3. Improved Aquatic-Based Habitat: pp. 30-42
4. Restoration of Native Species Composition: pp. 43-44
5. Employee Satisfaction: p 45
6. Community Access and Outreach: pp. 46-48
7. Production of Quality Products: p. 49
8. Business Return: p. 50



b) Description of forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

1. Inventory of Trees: pp. 4-21
2. Land-Based Habitat: pp. 22-29
3. Aquatic-Based Habitat: pp. 30-42
4. Species Composition: pp. 43-44
5. Employees: p. 45
6. Community: p. 46

APPENDIX A: Watershed Management Areas and California Planning Watershed Maps

MAP OF MRC FORESTLANDS: http://www.mrc.com/mrc_own_map.pdf

MRC'S OPTION A: <http://www.mrc.com/MPPP.html>

Assessment Area Description pp. 4-5

Forest Resources pp. 24-25

Consideration of regional Economic Vitality and Employment pp. 36-37

OWNERSHIP INFO: <http://www.mrc.com/Who.html>

MRC'S WATERSHED ANALYSES

Executive Summaries and Introduction include an Assessment Overview with Maps and tables describing MRC's ownership in the different watershed areas

PROFILE OF ADJACENT LANDS map on our Web Site:

http://www.mrc.com/regional_ownership.pdf



c) Description of silvicultural and/or other management system, based on the ecology of the forest and information gathered through resource inventories

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

1. Inventory of Conifer Trees: pp. 4-21

Includes discussion of History, Inventory Targets, Total Inventory, Landscape Planning, Tree Growth, Harvest Levels, Silviculture, Regeneration, and Fire Prevention

MRC'S OPTION A: <http://www.mrc.com/MPPP.html>

Summary pp. 1-2

Balancing Growth and Harvest Over Time: pp. 6-7

Methodology to Determine Maximum Sustained Yield (MSP): pp. 8-9

Option A Tables and Charts: pp.10-22

Site Occupancy, Stand Vigor, Regeneration: p. 23

Limits on MSP by Consideration of Other Forest Resources: pp24-35

Appendix A: Forest Resource Inventory

Appendix B: Modeled Growth and Yield

Appendix C: Modeled Silvicultural Regimes

SITE SPECIFIC SILVICULTURE - MRC'S TIMBER HARVEST PLANS (THPS):

Section I – Item 14

Section III/Plan Addendum/Project Alternative Analysis –

II Project Description, Purpose and Need

Section III/Plan Addendum/Forest Practice Rules Discussion

1034(ii) General Site Description

Section III/Plan Addendum/Explanation and Justification of Section I Questions

Item 14 (a) Proposed Silvicultural Method



d) Rational for rate of annual harvest and species selection

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

1. Inventory of Conifer Trees: pp. 4-21

Includes discussion of History, Inventory Targets, Total Inventory, Landscape Planning, Tree Growth, Harvest Levels, Silviculture, Regeneration, and Fire Prevention

4. Species Composition: pp. 43-44

Includes discussion of hardwood densities and targets

Monitoring : pp.51-55

MRC'S OPTION A: <http://www.mrc.com/MPPP.html>

Summary pp. 1-2

Balancing Growth and Harvest Over Time: pp. 6-7

Methodology to Determine Maximum Sustained Yield (MSP): pp. 8-9

Option A Tables and Charts: pp.10-22

Site Occupancy, Stand Vigor, Regeneration: p. 23

Limits on MSP by Consideration of Other Forest Resources: pp24-35

Appendix A: Forest Resource Inventory

Appendix B: Modeled Growth and Yield

Appendix C: Modeled Silvicultural Regimes

PRESENTATION ON LANDSCAPE PLANNING on MRC's Web Site:

<http://www.mrc.com/Announcements/index.html>



e) Provisions for monitoring of forest growth and dynamics

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

1. Inventory of Conifer Trees: pp. 4-21

Includes discussion of Inventory Targets, Total Inventory, Landscape Planning, Tree Growth, Harvest Levels, Silviculture, Regeneration, and Fire Prevention

MRC'S OPTION A: <http://www.mrc.com/MPPP.html>

Summary pp. 1-2

Balancing Growth and Harvest Over Time: pp. 6-7

Methodology to Determine Maximum Sustained Yield (MSP): pp. 8-9

Option A Tables and Charts: pp.10-22

Site Occupancy, Stand Vigor, Regeneration: p. 23

Appendix A: Forest Resource Inventory

Appendix B: Modeled Growth and Yield

Appendix C: Modeled Silvicultural Regimes

SITE SPECIFIC FOREST GROWTH - MRC'S TIMBER HARVEST PLANS (THPS):

Section I – Item 14: Includes discussion of post-harvest stand regeneration

Section III/Plan Addendum/Explanation and Justification of Section I Questions

Item 14 (various sections): Treatment of Stand, MSP (Option A),

Approximate Post-Harvest Stand Description, Artificial Regeneration, etc.



f) Environmental safeguards based on environmental assessments

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

1. Inventory of Conifer Trees: pp. 4-21
Includes discussion of Landscape Planning and its integration with Watershed Analysis
2. Land-Based Habitat: pp. 22-29
Includes discussion of Baseline Survey Data, Standing Snags, Large Woody Debris on the Forest Floor, Mature Conifer Forest, Old Growth Trees, Hardwoods, Unique Habitats, Connectivity
3. Aquatic-Based Habitat: pp. 30-42
Includes discussion of Baseline Survey Data, Watershed Analysis, Road Improvements, Streamside Protections, Logging Methods and Restoration Projects

MRC'S OPTION A: <http://www.mrc.com/MPPP.html>

Limits on Maximum Sustained Yield by Consideration of Other Forest Resources:
pp. 24-35

MRC'S WATERSHED ANALYSES:

Includes sections on:

- A. Mass Wasting
- B. Surface and Fluvial Erosion (Roads/Skid Trails)
- C. Hydrology
- D. Riparian Function
- E. Stream Channel Condition
- F. Fish Habitat Assessment
- G. Sediment Input Summary
- H. Causal Mechanisms and Prescriptions
- I. Aquatic Resources Monitoring Plan

SITE SPECIFIC ENVIRONMENTAL ASSESSMENTS & SAFEGUARDS

MRC'S TIMBER HARVEST PLANS (THPS):

Section I – Item 17: Erosion Hazard Rating, Item 18: Soil Stabilization, Item 21: Operations of Slopes Greater than 50%, Items 22 & 23: Winter Operating Plan, Items 26 & 28: Watershed and Lake Protection Zone & Domestic Water Supplies, Items 32 & 35: Biological and Cultural Resources and Wildlife Protections

Section III/Plan Addendum/Explanation and Justification of Section I Questions
Item 14 (a) Proposed Silvicultural Method/Management Constraints
Any further discussion of items listed above

Section IV – Cumulative Effects Discussion

Includes sections on:
Watershed
Soil Productivity
Biological Resources
Recreation
Aesthetics
Vehicles
Cultural
Range & Forage



g.) Plans for the identification and protection of rare, threatened and endangered species

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

2. Land-Based Habitat: pp. 22-29

Includes discussion of Baseline Survey Data, Standing Snags, Large Woody Debris on the Forest Floor, Mature Conifer Forest, Old Growth Trees, Hardwoods, Unique Habitats, Connectivity

3. Aquatic-Based Habitat: pp. 30-42

Includes discussion of Baseline Survey Data, Watershed Analysis, Road Improvements, Streamside Protections, Logging Methods and Restoration Projects

MRC'S OPTION A: <http://www.mrc.com/MPPP.html>

Limits on Maximum Sustained Yield by Consideration of Other Forest Resources:
pp. 24-35

MRC'S WATERSHED ANALYSES:

The basis of this work is to identify key prescriptions and monitor their efficacy in protecting sensitive aquatic resources. The Fish Habitat Assessment work includes fish distribution surveys, stream gravel permeability measurements, and bulk streambed gravel samples.

- A. Mass Wasting
- B. Surface and Fluvial Erosion (Roads/Skid Trails)
- C. Hydrology
- D. Riparian Function
- E. Stream Channel Condition
- F. Fish Habitat Assessment
- G. Sediment Input Summary
- H. Causal Mechanisms and Prescriptions
- I. Aquatic Resources Monitoring Plan

SITE SPECIFIC IDENTIFICATION AND PROTECTION OF RARE, THREATENED AND ENDANGERED SPECIES

MRC'S TIMBER HARVEST PLANS (THPS):

Section I – Items 32 & 35: Biological and Cultural Resources and Wildlife Protections

Section III/Plan Addendum/Explanation and Justification of Section I Questions

Further discussion of items 32 & 35

Section IV – Cumulative Effects Discussion

Biological Resources

SUPPLEMENTAL DATA on MRC's Web Site:

Northern Spotted Owl: <http://www.mrc.com/Issue.html#Owl>

Marbled Murrelet: <http://www.mrc.com/Issue.html#Marbled>

Fisheries Studies: <http://www.mrc.com/Issue.html#Fish>

and <http://www.mrc.com/Issue.html#Fishy>



h.) Maps describing the forest resource base including protected areas, planned management activities and land ownership

MRC OWNERSHIP MAP on MRC's Web Site: http://www.mrc.com/mrc_own_map.pdf

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

APPENDIX A: Watershed Management Areas and California Planning
Watershed Maps

MRC'S WATERSHED ANALYSES:

The maps available in this work include:

Mass Wasting Unit Maps

Road Surface Erosion Rating Maps

Road Feature and Treatment Immediacy Maps

Large Woody Debris Recruitment Maps

Stream Shade Classification and Temperature Monitoring Maps

Geomorphic Unit Maps

Fish Distribution Maps

Anadromous Fish Habitat and Life History Maps

SITE SPECIFIC MAPS RELATED TO THE FOREST RESOURCE BASE, PROTECTED AREAS,
PLANNED MANAGEMENT ACTIVITIES, AND LAND OWNERSHIP

MRC'S TIMBER HARVEST PLANS (THPS):

Sections II, III, IV and Supplemental Sections – Maps showing General Location,
Timber Harvest Plan Boundaries, Ownership, Silviculture, Harvest Methods,
Snags, Old Growth, Archeological Sites, Shallow Landslide Risks, Wildlife
Protection Sites, etc.

LANDSCAPE PLANNING MAPS TO BE AVAILABLE IN 2002:

See Landscape Planning Presentation on MRC's Web Site:



i.) Description and justification of harvesting techniques and equipment to be used.

MRC'S MANAGEMENT PLAN, POLICIES AND TARGETS

<http://www.mrc.com/mgmtplan.pdf>

3. Aquatic-Based Habitat: pp. 30-42

Includes discussion of Baseline Survey Data, Watershed Analysis, Road Improvements, Streamside Protections, Logging Methods and Restoration Projects

MRC'S WATERSHED ANALYSES:

Includes discussion on impacts of different harvest techniques and prescriptions for site specific limitations to equipment usage.

B. Surface and Fluvial Erosion (Roads/Skid Trails)

H. Causal Mechanisms and Prescriptions

SITE SPECIFIC DESCRIPTION AND JUSTIFICATION OF HARVESTING TECHNIQUES AND EQUIPMENT TO BE USED

MRC'S TIMBER HARVEST PLANS (THPS):

Section I – Item 16: Harvest Practices, Item 19: Location and Extent of Tractor or Skidder layouts, Item 20: Use of Ground Based Equipment in Areas Designated for Cable Yarding, Item 21: Operations on Steep Slopes
Item 22: Alternative Practices to Standard Harvesting or Erosion Control Rules, 23: Winter Operating Plan, Items 24 & 25: Construction of Roads and Landings

Section III/Plan Addendum/Project Alternatives Discussion

II. Project Description Purpose and Need

Section III/Plan Addendum/Forest Practice Rules Discussion

1034(ii) General Site Description

Section III/Plan Addendum/Explanation and Justification of Section I Questions

Item 16: Yarding Methods

Any further discussion of items listed above