

# MANAGEMENT SYSTEM TEMPLATE

## A. BENCHMARK SYSTEM WORKSHEET

1	STATE	OKLAHOMA
2	FIELD OFFICE	Antlers, Atoka, Coalgate, Hugo, Idabel, McAlester, Poteau, Stigler, Wilburton
3	MLRA	119
4.	COMMON RESOURCE AREA (CRA)	0119.40.001
5	RESOURCE INTERPRETATIONS	<i>see Section II FOTG for interpretations</i>
5.1	SOIL	FOTG, SECTION I - EROSION PREDICTION FOTG, SECTION II - SOIL AND SITE INFORMATION FOTG, SECTION II - SOILS LEGEND FOTG, SECTION II - SOIL DESCRIPTIONS - NONTECHNICAL FOTG, SECTION II - SOIL DESCRIPTIONS - TECHNICAL FOTG, SECTION II - HYDRIC SOIL INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - SOIL FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - SOIL FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS TREE PLANTING - CENTRAL AND WESTERN OKLAHOMA
5.2	WATER	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION II - WATER QUANTITY AND QUALITY INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - WATER FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - WATER FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.3	AIR	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - AIR FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - AIR FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.4	PLANT	FOTG, SECTION I - THREATENED AND ENDANGERED SPECIES FOTG, SECTION II - FORESTLAND INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - PLANTS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - FOREST FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - PLANTS FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS TREE PLANTING - CENTRAL AND WESTERN OKLAHOMA
5.5	ANIMAL	FOTG, SECTION I - THREATENED AND ENDANGERED SPECIES FOTG, SECTION II - WILDLIFE INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - ANIMALS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - WILDLIFE FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - ANIMALS FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.6	HUMAN	FOTG, SECTION I - CULTURAL RESOURCE INFORMATION FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION V-B-1 - CONSERVATION EFFECTS - PRODUCER EXPERIENCES
6	HYDROLOGIC UNIT	
7	SYSTEM TEMPLATE LABEL	RACB0
8	SYSTEM NAME	GRAZED FOREST (COMMERCIAL)
9	PLANNING PHASE	BENCHMARK
10	PLANNING LEVEL	N/A
11	NRCS LANDUSE	GRAZED FOREST

12	<b>EXISTING CONSERVATION PRACTICES</b>	
	<ol style="list-style-type: none"> <li>1. 338 - Prescribed Burning</li> <li>2. 378 - Pond</li> <li>3. 490 - Forest Site Preparation</li> <li>4. 528-A - Prescribed Grazing</li> <li>5. 590 - Nutrient Management</li> <li>6. 595 - Pest Management</li> <li>7. 612 - Tree/Shrub Establishment</li> <li>8. 644 - Wildlife Wetland Habitat Management</li> <li>9. 645 - Wildlife Upland Habitat Management</li> <li>10. 660 - Tree/Shrub Pruning</li> <li>11. 666 - Forest Stand Improvement</li> </ol>	
13	<b>SYSTEM NARRATIVE</b>	
	<p>This is land that is operated by industrial forest companies. The main resource problems that exist on this area include inadequate construction and maintenance of logging roads, skid trails and log landings and/or decks. These problems contribute heavily to soil erosion and sedimentation problems within the area. Some of this activity creates gully and streambank erosion problems. Intensive management of pine could be creating habitat problems for the Red cockaded woodpecker since it prefers old growth pine timber (60 to 70 years) as habitat. Siltation problems in streams could be creating habitat problems for the Leopard darter. Southern pine beetle and pine tip moth outbreaks can cause significant damage in some areas. These areas are typically clear cut, ripped, and then replanted to loblolly pine. Pruning, thinning, fertilizing and harvesting are done on a regular cycle. Much of this activity occurs on moderate to very steep slopes. Many of the steeper slopes are better suited to a hardwood-pine mix and are much more suited to uneven-aged management and/or unsuited to commercial timber production, however, they are usually being clear-cut and planted back to loblolly pine. Most of the industrial forest companies have already constructed ponds for both fire protection and wildlife. They are also doing forest site preparation, tree planting, fertilizing, insect control, controlling competitive tree species and forest stand improvement work. These areas are commonly grazed by livestock using good management techniques. Approximately 50% by weight of the native forage is left standing each year. Internal and external parasites tend to be a problem. These include ticks, intestinal worms, grubs, flies and various other parasites.</p>	
14	<b>RESOURCE CONCERNS</b>	<b>MAGNITUDE/EFFECTS</b>
	1. Classic Gully	1. Occasional gullies caused by water concentration are a problem. Annual soil loss averages 35 tons/year on 0.1 acre of gully and there are approximately 3 to 5 gullies of this size per 160 acre tract of land in this area.
	2. Streambank Erosion	2. Due to clear cutting and lack of adequate riparian area, water velocity and volume are increased causing streambank instability. Current erosion rates are estimated at 13.5 tons/year for every 2 acres of stream.
	3. Roads, Const., Scoured	3. Logging roads and skid trails create erosion problems by concentrating water flow. Inadequate installation of proper erosion control measures during road construction greatly contribute to this problem. Estimated erosion loss is approximately 50 tons per acre of road per year, and there is approximately 5 acres of road per 160 acre tract.
	4. Soil Deposition Causing Off-site Damage	4. Soil eroding on-site is creating silt bars in streams and barrow ditches off-site which leads to streambank instability, plugged road culverts, and other maintenance problems.
	5. Plants Unsuitable for Intended Use	5. Some sensitive areas are currently being clear-cut and converted to loblolly pine which are not nearly as well suited to the site as native hardwoods. (i.e. - steep and very steep slopes on shallow soils overlying sandstone bedrock.)

	6. Plant Pests	6. Southern pine beetle and pine tip moth can and do cause significant damage to commercial pine timber. They usually occur as an outbreak in a specific area, however, the areas of outbreak are very unpredictable.
	7. Threatened/Endangered Species (Animal)	7. Removal of old growth pine could be creating habitat problems for the Red cockaded woodpecker. Siltation of streams could be creating habitat problems for the Leopard darter and Ouachita Rock-pocketbook muscle.
	8. Animal Health Management	8. Ticks, flies and intestinal parasites are a problem and reduce production and weight gain in livestock.