

**Yellowwood State Forest
Compartment 6, Tract 22
12/12/2007**

Multiple-use Practices YSF 637 06 22 11-30-07

The most recent inventory was done 10-08-07 which yielded a sub tract with 130+% stocking, 13,050 bd. ft./acre harvest. Basal area is 210sq. ft.

The land occupying this sub tract (5.6 Acres) is located in Yellowwood State Forest in the southeast corner of compartment 06, tract 22. This is a red pine plantation (1940's). The even aged plantation consist of 90% red pine with some hardwood regeneration (BLC, LAA, YEP). No inventories were found in the tract file, although a sale of 16,845 bd. ft. (364 red pine) occurred 5-7-86 by forester L. Eckart

This area is part of one large ridge top and must have been used as cropland. The area may also have been grazed by livestock. Most likely, after state acquisition the area was planted to pine to stabilize eroded areas. Most of these pine trees are mature and are of good quality, however some have stagnated, died and fallen over while black cherry, yellow poplar and aspen have regenerated. There is some good oak regeneration in the area.

Wildlife resources seemed fairly abundant in this area. Most commonly observed species include: white-tailed deer sign, various song birds, squirrel, turkey scrapes, raccoon scat and many other small mammal signs. The timber management in this subtract will be a salvage pine sale utilizing best management practices. The bordering tract will provide habitat requirements for a large variety of forest dwelling species. Large snags greater than 16 inches will be left standing in the bordering tracts, as well as an appropriate number of hickories, mast producing species and den trees.

The tract soils are made up of 2 types: Tilsit and Wellston silt loam. These soils are deep, moderately well drained, suited to tree growth and are typical forest soils. The Tilsit soil (80% of sub tract) is formed on loess, fragipan, with slopes of 2-6%. The Wellston soil (20%) is also relatively flat with slopes of 6-20%. There is only a slight limitation for erosion, equipment use and wind throw. Site index for pine is 72. Soils allow for adequate regeneration of timber species.

The subtract boundary lines: north and west borders the main tract, to the south and east is a county road. Private property is to the east across the county road. The area is relatively flat with a slight slope to the northeast.

This tract is protected from wildfire by aerial surveillance during fire seasons and has a well maintained county road along the south and east boundaries. Also there is a good neighbor relationship which supports fire control measures.

Silvicultural Prescription

Property Yellowwood State Forest C-T 06-22 4 Acre Pine sale

This subtract consists of 5.6 acres in the south east corner of C-6, T-22 in Yellowwood State Forest. The objective of this subtract is to have a pine sale on a 4 acre area and to be used as a fill location for the Yellowwood Lake dredged material (to be started after July 1, 2008). The area is relatively flat with a slight slope to the northeast. The subtract boundary lines: north and west borders the main tract, to the south and east a county road. Private property is to the east across the county road.

The field inventory was conducted on 10-8-07. The inventory yielded the following information:

Total harvest acreage	4 acres	Present volume/ acre	Approx. 13,050 bd. ft.
BA/A	210 sq. ft.	Harvest volume/ acre	13,050 bd. ft.
# trees/A	283.5	Residual volume/ acre	0.0 bd. ft.
Stocking	130+%	Average size tree =	~14.5" in diameter

This subtract is a red pine plantation with some hardwood regeneration. The inventory consisted of 5 sample points. Each point had an average of 20 + trees tallied. Red pine sawtimber represents 90% of the total volume. The Gingrich table doesn't apply to this subtract because this is a pine stand. Stocking percent and average tree diameter are estimated for the red pine.

A 66+ foot buffer was established on the south and east part. The boundary for the pine sale area is marked with one red vertical slash with two red horizontal slashes. Boundary trees for this sale will not be harvested. All tree species within the boundary are part of the harvest.

Following the pine harvest; the tract will be used as a fill area for the Yellowwood Lake dredging project. Heavy equipment will be utilized to spread and grade the fill material.

After completion it is recommended that this area be replanted with a mixture of hardwoods and pine with an annual herbicide application for 3 years.

Six years after final closeout, review the subtract for compliance to prescription.

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Yellowwood State Forest
Comp 06, Tract 22

