



## Forestland Planning Worksheet

Planner \_\_\_\_\_ Date \_\_\_\_\_ County \_\_\_\_\_ Owner \_\_\_\_\_  
 Legal Desc. \_\_\_\_\_ Sec. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_ Address \_\_\_\_\_  
 Total Acres in Woodlot \_\_\_\_\_ Predominant Soil Type(s) \_\_\_\_\_,  
 Landowner Objectives-(assign priority-1,2,3,etc.) Forest Products \_\_\_\_\_ Wildlife \_\_\_\_\_ Recreation \_\_\_\_\_ Aesthetics \_\_\_\_\_ Others \_\_\_\_\_  
 Conservation Practices Needed? For.Std.Imp. \_\_\_\_\_ Tree Pltg \_\_\_\_\_ Pruning \_\_\_\_\_ Hvst. Trls. \_\_\_\_\_ Fence \_\_\_\_\_ Others \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**Transect Data for Trees in Main Stand:** no. \_\_\_\_\_ ac. \_\_\_\_\_ (See instructions for zig-zag forest transects in NRCS National Forestry Handbook-Sec.636.2 or on web: <http://soils.usda.gov/technical/nfhandbook>)

Tree Species <small>(sm= sugar maple, ro =red oak,wo= white oak, sp=spruce , rp=red pine, wp=white pine, a=aspen, w=walnut, bi= birch, be= beech, r m=red maple etc)</small>	Distance Between Trees <small>(to nearest foot)</small>	Diameter <small>(DBH = diameter to nearest 0.1 in. 4.5 ft.above grnd)</small>	Condition of Tree <small>good=1 fair =2 poor=3</small>	% Defect of Tree <small>(approx.)</small>	Basal Area <small>(measure at every 5<sup>th</sup> tree w/ 10-factor prism)</small>	Notes
1					b.a.	
2						
3						
4						
5					b.a.	
6						
7						
8						
9						
10					b.a.	
11						
12						
13						
14						
15					b.a.	
16						
17						
18						
19						
20					b.a.	
Sum	20	20	20	20	5	

### Summary

Species by Percent in Stand = (no. of species counted divided by total trees counted times 100)			
Average Condition, % Defect of Trees, = (sum of condition values, defect %, divided by no. of trees)	(cond.)	(defect)	
Existing Average Spacing = (sum of distances between trees divided by number of trees)			
Existing Ave. Trees Per Acre = (43,560 sq.ft./ac. divided by average distance between trees squared)			
Average Tree Diameter, Average Basal Area/ac =(sum of tree diameters, basal area, divided by no. of trees measured) <b>Note:</b> Optimum hardwood stocking level is approximately 90 sq. ft. of basal area /ac.	(diam)	(b.a.)	
Planned Optimum Spacing for Pines = (Ave. diameter of trees in stand + 6*)			
Planned Optimum Spacing for Hdwds= (Ave. diameter of trees in stand times constant: 1.67*)			
Planned(thin-to)Trees Per Acre= (43,560 sq.ft./ac. divided by Planned Optimum Spacing squared *)			

\* Refer to Mi. NRCS Std. # 666 and Mi. NRCS Conservation Sheet # 666 in Mi. NRCS Field Office Technical Guide for detailed information.