



# Developing Seeding Rates for Locally Collected Acorns, Nuts, and Seeds of Woody Plants for Direct Seeding

*Wisconsin Job Sheet 145*

**Natural Resources Conservation Service (NRCS) Wisconsin**

**Landowner:** \_\_\_\_\_ **Site Acres:** \_\_\_\_\_

1. Clean and remove all caps, wings, husks and foreign material from collected acorns, nuts and seeds.
2. Float acorns/nuts in a large container such as a cattle watering tank, old bathtub or large bucket.
3. Remove and discard all acorns/nuts that float.
4. Weigh each species separately and determine the number of seeds in 1 pound. Enter total weight in column 2 and number of seeds in one pound in column 3 of Table 1.
5. Cut test 10 acorns, nuts or seeds per 3000. Enter number of seeds cut in column 4 and number of sound seed in column 5 of Table 1.
6. Divide Column 5 by Column 4 and enter in Column 6 of Table 1.

(Example Table 1, 3-acre site)

1. Species Collected	2. Total Pounds	3. # Seeds/lb.	4. # Seeds Cut	5. # Sound Seeds	6. % Sound Seed
Northern Red Oak	200 lbs.	105	70	60	.86

**TABLE 1**

1. Species Collected	2. Total Pounds	3. # Seeds/lb.	4. # Seeds Cut	5. # Sound Seeds	6. % Sound Seed

(OVER)

7. Enter species collected in column 1 of Table 2.
8. Enter Sound Seed/ac or Lbs./ac Rate for each species from page 4 of Wisconsin Forestry Technical Note 2, in column 2 of Table 2.
9. Divide column 2 of table 2, by the value in column 6 of table 1 for each species and enter the result in column 3 of table 2 of this Job Sheet.
10. Multiply column 3, Table 2, by acres to be direct seeded and enter product in column 4, Table 2.
11. Column 4 of Table 2 is the total amount of seed needed, by species, to establish a stand of trees on the site.

(Example Table 2, 3-acre site)

1. Species Collected	2. Rate from WI-2	3. Required Seeding Rate	4. Amount Needed for Site
Northern Red Oak	3,000 seeds/ac	3,488 seeds/ac	10,464 seeds/99 lbs. clean seed

**TABLE 2**

1. Species Collected	2. Rate from WI-2	3. Required Seeding Rate	4. Amount Needed for Site

Technical Assistance Provided by: \_\_\_\_\_ Title: \_\_\_\_\_

Agency: \_\_\_\_\_ Date: \_\_\_\_\_