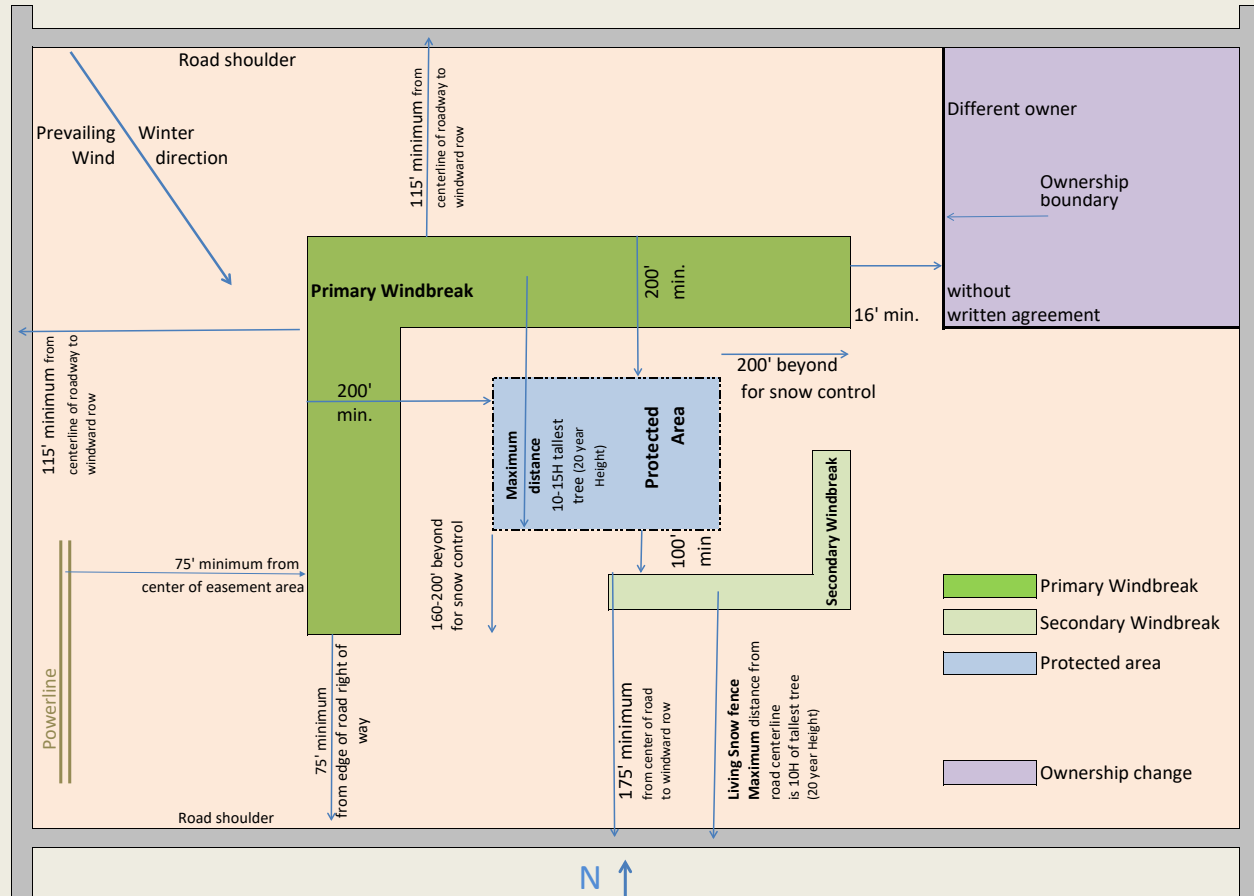


# General Windbreak Design Setback Guidelines for Roads, Building Sites and Livestock Protection



Details of setback guidelines can be found in the NRCS WOODLAND TECHNICAL NOTE NO. 42 Oct 2022

H = Height of tree in the "Expected tree and shrub heights at 20 years" chart

Min = minimum distance. When county ordinances are different use the more restrictive distances.

No trees or shrubs will be planted within 75 ft of the centerline on each side of the easement area of overhead power transmission lines and wind towers.

If windbreaks will be planted closer than 75 ft, please have documentation of approval from the appropriate utility company.

Use "Call One" if below ground utilities are in close proximity to the proposed planting.

It is recommended that no more than 2 rows of a windbreak shall contain the same species unless soil conditions limit choices.

The windward row of a primary windbreak must be a minimum of 200' from the area needing protection except where ownership or soil conditions restrict the planting.

**Field Windbreak** - Maximum 5 rows for soil erosion and crop protection objectives. Area protected =  $10 \times H$  windward +  $2 \times H$  leeward, Density 40-60%

## Building and Livestock -

**Primary** - Minimum 7 rows MLRA's 53B, 53C, 55B, 55C, 102A, 102B, and 102C, 6 rows MLRA's 54, 58D, 60A, 61, 62, 63A, 63B, 64, 65, and 66

Can reduce 1 row each for 1) first row to Spruce, Juniper, or Red Cedar, 2) An effective field windbreak is located less than 600 ft windward and parallel to the proposed windbreak, 3) shrub or conifer snow trap 50-150' windward and parallel.

If there is insufficient space or suitable soils a narrower windbreak is permissible. The minimum is one shrub and 2 deciduous rows or two coniferous rows.

**Secondary** - one or more rows -Avoid total enclosure of a building site or feedlot with tall dense species. Cooling summer breezes are often desirable.