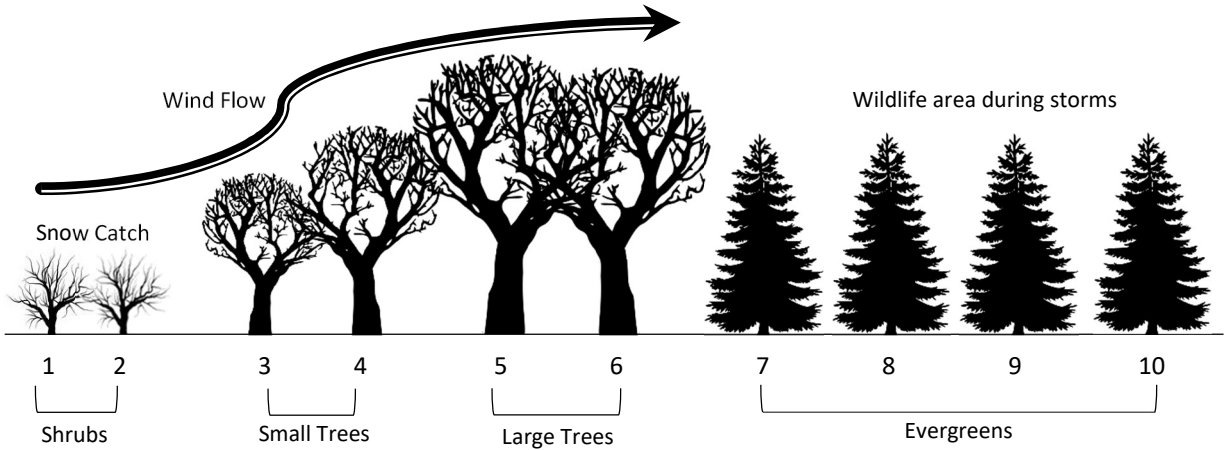


Typical Shelterbelt Design & Layout

Standard 10-Row Shelterbelt Design



Rows 1-2 (Shrubs):	Shrubs in these first rows are planted 3 to 8 feet apart within the row and 10 feet between rows. If next to an agricultural field, these plants will need to be hardy to combat any chemical drift from spraying the field. Examples would be Gray Dogwood & Redosier Dogwood.
Rows 3-4 (Tall Shrub or Medium Tree):	Row 3 should be planted 10 to 15 feet from the shrub row & plants should be between 3 to 8 feet between plants. Row 4 should have similar spacing. Examples of species to plant would be Common Purple Lilac & Nannyberry.
Rows 5-6 (Tall Deciduous Tree):	Row 5 should be spaced 16 to 20 feet behind Row 4; Row 6 the same distance from Row 5. Trees should be planted 10 to 16 feet apart within the row. Suggestions include Quaking Aspen or Hackberry.
Rows 7-8 (Tall Conifer):	Row 7 should be spaced 16 to 20 feet behind Row 6 and Row 8, 16 to 20 feet behind Row 7. Again, trees are planted 10 to 16 feet apart. Suggested species include Norway Spruce or White Pine.
Rows 9-10 (Medium Conifer):	The last two rows have identical spacing to Rows 7 & 8 with trees planted 10 to 16 feet apart within the rows. Suggestions include Black Hills Spruce and Eastern Red Cedar.

Please see *Recommended Distances for Planting Shrubs, Small Trees, Tall Trees, and Conifers* handout for more information on row spacing. The design above would take up around 150 feet. When designing your shelterbelt, the more conifers the better; 3 rows is a minimum suggestion.

If you only have room for:	Use one of these combinations:
7 rows	2 Shrubs, 2 Small Trees or 2 Large Trees, 3 Conifers
6 rows	2 Shrubs, 1 Small Tree or 1 Large Tree, 3 Conifers
5 rows	1 Shrub, 1 Small Tree, 3 Conifers or 2 Shrubs, 1 Small Tree, 2 Conifers
4 rows	2 Shrubs, 2 Conifers or 1 Shrub, 1 Small Tree, 2 Conifers
3 rows	1 Shrub, 2 Conifers or 3 Conifers

Typical Shelterbelt Design & Layout

Shelterbelts and Field Windbreaks can add to the value of your home or farmstead. A good farmstead shelterbelt will:

- Moderate the effects of hot, dry summer winds
- Help attract songbirds & gamebirds
- Prevent snow from drifting around buildings, roads, & walkways
- Protect feedlots, gardens & orchards from harsh weather
- Reduce the effects of cold winter winds
- Reduce noise & dust from nearby roadways
- Save fuel & labor, by less snow plowing
- Aid in establishing lawn & landscape plantings

When planting windbreaks and shelterbelts, always consider where the resulting snow drift will occur. Plantings should be at least 50 to 100 feet away from buildings or roadways.

Typical Shelterbelt Layout

