**Tree Spacing Guide (2016)**

### Farmstead Windbreak

**Option 1** - (Preferred)

<table>
<thead>
<tr>
<th>Deciduous Trees (16-20' in row)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Option 2**

<table>
<thead>
<tr>
<th>Shrubs (4'-8' in row)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Windbreak**

<table>
<thead>
<tr>
<th>Three Rows</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Row</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Species

**Option 1**

1. Shrub or Small tree
2. Large trees
3. Spruce
4. Fir or Pine (sandy soils)
5. Spruce (clay/loam soils)
6. Shrub or Small tree

**Option 2**

1. Shrubs
2. Small Trees
3. Large Trees
4. Fir or Pine (sandy soils)
5. Spruce (clay or loam soils)
6. Can also be White Cedar

### Wildlife Plantings Should:

1. Use Option #2 with additional rows of small trees/shrubs (R8-10).
2. If 4 rows or less, use 2 rows of small trees/shrubs in rows 1-2 and 1-3, at least 2 rows of conifers.
3. Consider random, natural design with no rows. Use conifers in groups (as core) with deciduous trees/shrubs around the perimeter.

### Farmstead Windbreaks Should Be:

1. On North and West sides of buildings.
2. Inside tree/shrub row located no more than 150 feet from buildings, at least 60 feet.
3. At least 3 rows, 8-10 rows are best.
6. If 8 rows use at least 3 rows conifers, balance in deciduous trees. If 3 or 4 rows, use all conifers.
7. DO NOT PLANT BLACK WALNUT WITH OR ADJACENT TO A ROW OF CONIFERS BECAUSE OF JUGLONE (A TOXIC SUBSTANCE SECRETED BY WALNUT ROOTS).

**Wind and snow whip around the ends of a windbreak, so make the windbreak long enough - extend both ends at least 100 feet beyond the area to be protected.**

**If the land slopes, try to plant trees on the contour.**

**Well established, a windbreak or shelterbelt provides full protection to an area 10 times the height of the trees measured in the direction the wind is blowing and some protection as far out as 20 times the height of the trees.**

**Where snow drifting or soil blowing is a big problem, give a lot of thought to where you place your windbreak or shelterbelt. Make sure you plant back far enough so that snowdrifts don’t block roads.**