

Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

This subsection includes:

- **(a) Trees and Shrubs for Windbreak and Environmental Plantings**

Clay and Ray Counties, Missouri
Windbreaks and Environmental Plantings

(Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
1B: SIBLEY-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
1C: SIBLEY-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
2C: HIGGINSVILLE-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak
5C: MACKSBURG-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak
6B: SHARPSBURG-----	---	---	---	---	---
6C2: SHARPSBURG-----	---	---	---	---	---
6D2: SHARPSBURG-----	---	---	---	---	---
8: PITS-----	---	---	---	---	---
9D: SNEAD-----	fragrant sumac; ninebark	Amur maple; gray dogwood; possumhaw	eastern redcedar	Austrian pine; common hackberry; honeylocust; Norway spruce; pin oak	---

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9E: SNEAD-----	fragrant sumac; ninebark	Amur maple; gray dogwood; possumhaw	eastern redcedar	Austrian pine; common hackberry; honeylocust; Norway spruce; pin oak	---
10D: SNEAD-----	---	---	---	---	other trees
ROCK OUTCROP-----	---	---	---	---	---
10F: SNEAD-----	---	---	---	---	other trees
ROCK OUTCROP-----	---	---	---	---	---
11C2: GREENTON-----	---	---	---	---	---
11C3: GREENTON-----	---	---	---	---	---
11D3: GREENTON-----	---	---	---	---	---
13B: SAMPSEL-----	---	---	---	---	---
13C: SAMPSEL-----	---	---	---	---	---
24B: LAGONDA-----	fragrant sumac; ninebark	Amur maple; gray dogwood; possumhaw	eastern redcedar	Austrian pine; common hackberry; honeylocust; Norway spruce; pin oak	---
25C2: LAGONDA-----	---	---	---	---	---

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	<8	8-15	16-25	26-35	>35
25D2: LAGONDA-----	---	---	---	---	---
26B: LADOGA-----	---	---	---	---	---
26C2: LADOGA-----	---	---	---	---	---
26D2: LADOGA-----	---	---	---	---	---
27D3: LADOGA-----	---	---	---	---	---
31: COLO-----	buttonbush	possumhaw	eastern arborvitae; eastern redcedar; nannyberry	baldcypress; common hackberry; pin oak	eastern cottonwood
33: ZOOK-----	---	---	---	---	---
35: BOOKER-----	buttonbush	possumhaw	eastern arborvitae; eastern redcedar; nannyberry	baldcypress; common hackberry; pin oak	eastern cottonwood
36: BREMER-----	buttonbush	possumhaw	eastern arborvitae; eastern redcedar; nannyberry	baldcypress; common hackberry; pin oak	eastern cottonwood
37: MONITEAU-----	---	---	---	---	---

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38: WIOTA-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
39: NODAWAY-----	---	---	---	---	---
41C2: ARMSTER-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
41D2: ARMSTER-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
42C3: ARMSTER-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
42E3: ARMSTER-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
54C2: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
54E2: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine

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54F: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
55D3: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
56B: GRUNDY-----	fragrant sumac; ninebark	Amur maple; gray dogwood; possumhaw	eastern redcedar	Austrian pine; common hackberry; honeylocust; Norway spruce; pin oak	---
57C2: GRUNDY-----	fragrant sumac; ninebark	Amur maple; gray dogwood; possumhaw	eastern redcedar	Austrian pine; common hackberry; honeylocust; Norway spruce; pin oak	---
61C: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
URBAN LAND-----	---	---	---	---	---
61D: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
URBAN LAND-----	---	---	---	---	---

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Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
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61E: KNOX-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
URBAN LAND-----	---	---	---	---	---
68C: URBAN LAND-----	---	---	---	---	---
69A: URBAN LAND-----	---	---	---	---	---
70B: SHARPSBURG-----	---	---	---	---	---
URBAN LAND-----	---	---	---	---	---
70C: SHARPSBURG-----	---	---	---	---	---
URBAN LAND-----	---	---	---	---	---
70D: SHARPSBURG-----	---	---	---	---	---
URBAN LAND-----	---	---	---	---	---
71: AHOLT-----	American plum; buttonbush	possumhaw; pussy willow	eastern arborvitae; eastern redcedar	black willow; common hackberry; honeylocust	---
72: DOCKERY-----	---	---	---	---	---

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73: LETA-----	American plum; blackhaw	possumhaw	eastern arborvitae; eastern redcedar; nannyberry; Washington hawthorn; white spruce	bur oak; common hackberry; green ash	---
74: LEVASY-----	American plum; buttonbush	possumhaw; pussy willow	eastern arborvitae; eastern redcedar	black willow; common hackberry; honeylocust	---
75: NORBORNE-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak
78: MYRICK-----	American plum; buttonbush	possumhaw; pussy willow	eastern arborvitae; eastern redcedar	black willow; common hackberry; honeylocust	---
80: LANDES-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak
81: WALDRON-----	---	---	---	---	---
82: PARKVILLE-----	American plum; blackhaw	possumhaw	eastern arborvitae; eastern redcedar; nannyberry; Washington hawthorn; white spruce	bur oak; common hackberry; green ash	---

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83: HAYNIE-----	---	---	---	---	---
87: MODALE-----	American plum; blackhaw	possumhaw	eastern arborvitae; eastern redcedar; nannyberry; Washington hawthorn; white spruce	bur oak; common hackberry; green ash	---
88: GILLIAM-----	American plum; blackhaw	possumhaw	eastern arborvitae; eastern redcedar; nannyberry; Washington hawthorn; white spruce	bur oak; common hackberry; green ash	---
89: SARPY-----	American plum; common lilac; fragrant sumac; gray dogwood	autumn olive; Washington hawthorn	blackjack oak; diospyros; eastern redcedar; jack pine	eastern cottonwood	---
90: WABASH-----	buttonbush	possumhaw	eastern arborvitae; eastern redcedar; nannyberry	baldcypress; common hackberry; pin oak	eastern cottonwood
92: COTTER-----	fragrant sumac	American plum; gray dogwood; southern arrowwood	eastern redbud; eastern redcedar; Washington hawthorn	green ash; northern red oak; tuliptree; white fir	eastern white pine
AED:	---	---	---	---	---

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M-W: WATER-----	---	---	---	---	---
W: WATER-----	---	---	---	---	---