

## 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**

Douglas County, 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
70022: Tonti-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
70025: Branson-----	American hazelnut; Downy Arrowwood; fragrant sumac	American plum; blue spruce; eastern hophornbeam; eastern redbud; eastern redcedar; roughleaf dogwood	arborvitae; common serviceberry; sugar maple; white oak	northern red oak; tuliptree; white ash	eastern white pine
Splitlimb-----	American hazelnut; Downy Arrowwood; fragrant sumac	American plum; blue spruce; eastern hophornbeam; eastern redbud; eastern redcedar; roughleaf dogwood	arborvitae; common serviceberry; sugar maple; white oak	northern red oak; tuliptree; white ash	eastern white pine
70026: Tonti-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73000: Pomme-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---

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	<8	8-15	16-25	26-35	>35
73013: Lowassie-----	buttonbush; ninebark	possumhaw; sandbar willow	black willow; bur oak; green hawthorn	baldcypress; green ash; pecan; red maple; swamp white oak; sweetgum	eastern cottonwood; silver maple
73017: Bendavis-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73019: Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73021: Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73023: Mano-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---

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Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
73023: (cont) Ocie-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73024: Mano-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
Ocie-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73032: Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73033: Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---

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	<8	8-15	16-25	26-35	>35
73051: Winnipeg-----	American hazelnut; Downy Arrowwood; fragrant sumac	American plum; blue spruce; eastern hophornbeam; eastern redbud; eastern redcedar; roughleaf dogwood	arborvitae; common serviceberry; sugar maple; white oak	northern red oak; tuliptree; white ash	eastern white pine
73059: Pomme-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73063: Bendavis-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73068: Tick-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---

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73069: Tick-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73073: Scholten-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73076: Mano-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
Ocie-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73121: Scholten-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---

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Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
73121: (cont) Tonti-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73176: Bendavis-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73198: Gressy-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Viraton-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73199: Moko-----	---	---	---	---	---
Rock outcrop-----	---	---	---	---	---

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73220: Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73222: Splitlimb-----	American hazelnut; Downy Arrowwood; fragrant sumac	American plum; blue spruce; eastern hophornbeam; eastern redbud; eastern redcedar; roughleaf dogwood	arborvitae; common serviceberry; sugar maple; white oak	northern red oak; tuliptree; white ash	eastern white pine
73223: Coulstone-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Bender-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73224: Moko-----	---	---	---	---	---
Rock outcrop-----	---	---	---	---	---
73225: Ocie-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---

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Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
73225: (cont) Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73226: Ocie-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73227: Ocie-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73228: Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---

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Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
73228: (cont) Moko-----	---	---	---	---	---
73229: Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
Moko-----	---	---	---	---	---
73230: Coulstone-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Bender-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Gatewood-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73231: Wasola-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---

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73236: Scholten-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73237: Clarksville-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73242: Fanchon-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
Tonti-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73243: Topazmill-----	American hazelnut; coralberry; flameleaf sumac	American plum; blue spruce; eastern redcedar; gray dogwood; Washington hawthorn	common serviceberry; persimmon; post oak; shingle oak	Austrian pine; black oak	---

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73300: Macedonia-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73311: Scholten-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Bendavis-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Poynor-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73325: Clarksville-----	American plum; fragrant sumac	blackhaw; gray dogwood	eastern redcedar; nannyberry; Washington hawthorn	baldcypress; green ash; sweetgum	eastern white pine; pin oak
73326: Topazmill-----	American hazelnut; coralberry; flameleaf sumac	American plum; blue spruce; eastern redcedar; gray dogwood; Washington hawthorn	common serviceberry; persimmon; post oak; shingle oak	Austrian pine; black oak	---

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73326: (cont) Coulstone-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73327: Topazmill-----	American hazelnut; coralberry; flameleaf sumac	American plum; blue spruce; eastern redcedar; gray dogwood; Washington hawthorn	common serviceberry; persimmon; post oak; shingle oak	Austrian pine; black oak	---
Coulstone-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73328: Scholten-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Noark-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73329: Mano-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---

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	<8	8-15	16-25	26-35	>35
73329: (cont) Ocie-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
73331: Pomme-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
73332: Topazmill-----	American hazelnut; coralberry; flameleaf sumac	American plum; blue spruce; eastern redcedar; gray dogwood; Washington hawthorn	common serviceberry; persimmon; post oak; shingle oak	Austrian pine; black oak	---
74627: Hartville-----	common ninebark; fragrant sumac; St. Johnswort	eastern redcedar; possumhaw; roughleaf dogwood; Washington hawthorn	arborvitae; bur oak; green hawthorn; post oak	Austrian pine; common hackberry; green ash; honeylocust; pin oak	---
74657: Pomme-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
74682: Zanoni-----	coralberry; flameleaf sumac	eastern redcedar; gray dogwood; jack pine	chinkapin oak; persimmon; post oak	black oak; honeylocust	---

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74683: Cedargap-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Razort-----	American hazelnut; ninebark; wild hydrangea	American plum; blue spruce; possumhaw; roughleaf dogwood	arborvitae; bur oak; green hawthorn; shingle oak	Austrian pine; baldcypress; hackberry; pin oak; red maple	American sycamore; eastern cottonwood; eastern white pine
75381: Bearthicket-----	American hazelnut; ninebark; wild hydrangea	American plum; blue spruce; possumhaw; roughleaf dogwood	arborvitae; bur oak; green hawthorn; shingle oak	Austrian pine; baldcypress; hackberry; pin oak; red maple	American sycamore; eastern cottonwood; eastern white pine
75382: Cedargap-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
75390: Razort-----	American hazelnut; ninebark; wild hydrangea	American plum; blue spruce; possumhaw; roughleaf dogwood	arborvitae; bur oak; green hawthorn; shingle oak	Austrian pine; baldcypress; hackberry; pin oak; red maple	American sycamore; eastern cottonwood; eastern white pine
75406: Racket-----	American hazelnut; ninebark; wild hydrangea	American plum; blue spruce; possumhaw; roughleaf dogwood	arborvitae; bur oak; green hawthorn; shingle oak	Austrian pine; baldcypress; hackberry; pin oak; red maple	American sycamore; eastern cottonwood; eastern white pine

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75417: Relfe-----	coralberry; fragrant sumac; ninebark	eastern redbud; eastern redcedar; flowering dogwood; gray dogwood	common serviceberry; persimmon; post oak; red pine; shingle oak; shortleaf pine	black oak; mockernut hickory; northern red oak; white ash	---
Sandbur-----	coralberry; flameleaf sumac	eastern redcedar; gray dogwood; jack pine	chinkapin oak; persimmon; post oak	black oak; honeylocust	---
99001: Water-----	---	---	---	---	---
99002: Borrow areas-----	---	---	---	---	---