2007 Iowa Woodland Suitability Recommendations

In 2005, the Iowa NRCS and Iowa DNR agreed to create new groupings of soils and revise the recommendations for tree and shrub species for those soil groups in Iowa. There were several reasons for this revision: there were errors in the previous recommendations; there were new soils identified and mapped; and both agencies wanted a user-friendly system for employees and the public to use.

The following tables are designed to serve as a guideline for matching trees and shrubs to specific soil types within lowa. To use the guide:

- 1. Locate the soil type in Column 1 of Table 1;
- 2. Determine the Conservation Suitability Group (CSG) for the soil type; and
- 3. Go to the appropriate CSG in Table 2 and review the list of trees and shrubs that are best suited to the soils in that group. Non-native species are marked with (nn). Species especially susceptible to insects and/or diseases are marked with (*).

The species on this list are the only species we recommend for planting in lowa. Where they will grow could also depend on other factors such as slope, aspect, drainage and geographic location in the state. Consult with a forester or other natural resource professional, if you want to plant any of these species in a conservation suitability group where it is not listed.

Soil Type	CSG
Ackmore	1
Adair	1
Adco	1
Adrian	10
Afton	2
Ainsworth	2 4 2 3 6
Albaton	2
Allamakee	3
Allendorf	6
Alluvial Land	10
Amana	1
Ambraw	2
Ames	2 2 3 10
Angus	3
Animal Waste	
Ankeny	3
Annieville	3 3 2 3 2 2 2 2 2 3 3 3 3
Ansgar	2
Anthon	3
Appanoose	2
Aquents	2
Aquolls	2
Arbor	3
Aredale	3
Arenzville	3
Arispe	
Armstrong	1
Arthur	3
Ashdale	3
Ashgrove	3 3 3 3
Atkinson	3

Atterberry	1
Aureola	5
Backbone	6
Bassett	3
Bauer	6
Bearpen	1
Beckwith	2
Belinda	2
Belmann	2
Benclare	4
Bentonsport	8
Bertram	6
Bertrand	3
Billett	5
	2
Biscay	6
Bixby	1
Blake	
Blencoe	1
Blend	1
Blue Earth	10
Bode	3
Bolan	5
Boone	6
Boots	10
Borrow Pit	10
Brady	1
Bremer	2
Brownton	2
Bucklick	4
Bucknell	1
Buckney	7
Built Wetland	10
Burcham	3 3 7 2
Burchard	3
Burkhardt	7
Calamine	2
Calco	8W
Calcousta	2
Caleb	3
Camden	2 3 3 2 2
Caneek	2
Canisteo	2
Canoe	1
Cantril	1
Carlow	
Carr	5
Castana	8
Cerlin	1
Chaseburg	
Chelsea	7
Chequest	2
Churchtown	2 3 7
Chute	7
Clanton	
Clarinda	4 2 3 2
Claringa	2
Clarion	3
Clearileiu	

Clinton	Clinton	4
Coggon 3 Cokato 3 Coland 2 Colinwood 1 Colo 2 Cooper 1 Cooper 1 Cooper 1 Coppock 1 Cordova 2 Corley 2 Corley 2 Cornell 4 Corwith 1 Cosmos 2 Cott 5 Coyne 3 Creal 1 Cresco 3 Creskin 4 Crippin 1 Crofton 8 Curran 1 Cylinder 1 Danbury 3 Darfur 2 Darwin 2 Darwin 2 Darwin 2 Dals 1 Delft 2 Dells 1 Derinda 6		
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Dundas 2 Dunkerton 1 Edina 2 Egan 3 Eitzen 3	Dumps	
Dunkerton 1 Edina 2 Egan 3 Eitzen 3		
Edina 2 Egan 3 Eitzen 3		2
Egan 3 Eitzen 3		1
Egan 3 Eitzen 3 Eleroy 3	Edina	2
Eitzen 3 Eleroy 3	Egan	3
I Eleroy 3		3
,	Eleroy	3

Eleva	6
Ella	3
Elon	8W
Elrick	5
Elrin	1
Elvers	2
Elvira	2
Ely	1
Emeline	10
Estherville	7
Everly	
Exette	3 3 3 5
Exira	3
Fairhaven	5
Farrar	
Faxon	3 2
Fayette	
Festina	3
Fieldon	3 3 2
Fill Land	10
Finchford	7
Flagler	5
Floris	3
Floyd	
Fluvaquents	2
Forney	2
Fostoria	1
Franklin	1
Frankville	6
Fruitfield	7
Gale	6
Galland	1
Galva	3 3 3 2
Gara	3
Garmore	3
Garwin	
Gasconade	10
Gilford	2
Gillett Grove	2
Given	1
Gorin	1
Gosport	6
Goss	4
Grable	8
Graceville	3 2
Granby	
Grantcenter	1
Gravel Pits	10
Grundy	1
Guckeen	1
Gullied Land	10
Haig	2
Hamburg	2 8 3 2
Hanlon	3
Hanska	
Harcot	W8
Harps	8W
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Harpster	8W
Havana	2
Havelock	8W
Hawick	7
Hayden	3
Hayfield	1
Haynie	8
Hedrick	3
Hesch Variant	6
Histosols	10
Hixton	6
Holly Springs	8W
Hoopeston	1
Hornick	1
	10
Houghton	
Humeston	2
Huntsville	3
Ida	8
Inton	3
lon	3
Jackson	3
Jacwin	
Jameston	2
Judson	3
Kalona	2
Kamrar	4
Kanaranzi Variant	5
Kandiyohi	1
Kasson	3 5
Keg	
Kenmoor	4
Kennebec	3
Kensett	1
Kenyon	3
Keomah	
Keosaqua	3 4
Keswick	4
Kilkenny	4
Killduff	3
Kingston	1
Klinger	1
Klingmore	1
Klossner	
Klum	5
Kniffin	1
Knoke	8W
Knox	3
Kossuth	3 2
Koszta	1
Lacrescent	5
Ladoga	4
Lamoni	1
Lamont	5 5
Landes	2
Lanyon	1
Larpenteur	
Lawler	1

Lawson	1
La Sueur	1
Lemond	W8
Lerdal	1
Lester	3
Letri	2
Lilah	7
Limecreek	3
Linder	1
Lindley	3
Lineville	1
Liscomb	3
Liston	8
	10
Loamy terrace escarpments	10
Lossing	·
Lourdes	3
Luana	5
Luther	1
Luton	2
Lycurgus	3
Macksburg	1
Madelia	2
Mahaska	1
Malvern	1
Marcus	2
Marlean	5
Marna	2
Marquis	3
Marshall	3
Marshan	2
Martinsburg	3 3 2 2
Massbach	3
Maxfield	2
Maxmore	2
May City	5
Mayberry	4
Mayer	W8
McCreath	1
McPaul	W8
Medary	4
Millington	8
Minden	2
Minnetonka	2
Modale	8W
Moingona	3
Moneta	8
Monona	3
Montieth	6
Moody	6
	7
Morconick	
Mottland	8
Moville	1
Mt. Carroll	3
Mt. Sterling	2
Muck	10
Mula	8
Muscatine	1

Muskogo	10
Muskego	10
Mystic	
Napa	9
Napier	3
Nasset	3
Nevin	
New Glarus	3
New Vienna	3
Nicollet	1
Niota	2
Nira	3
Nishna	W8
Nodaway	3
Nordness	10
Northboro	3
Norville	3
Oakton	1
Ocheda	1
Ocheyedan	3
Okaw	3 2
Okoboji	2
Olin	5
Olmitz	
Omadi	3 3
Omsrud	3
Onawa	8W
Oran	1
Orion	1
Orthents	10
Orwood	
Ossian	3 2 3 4
Ostrander	3
Otley	1
Otter	2
Ottosen	1
Ottoseri	1 2
Paint Creek	4
Palms	10
Percival	8W
Perks	7
Pershing	1 5
Pillot	5
Pinicon	1
Pits	10
Pits, Clay	10
Pits, Sand & Gravel	10
Port Byron	3
Primghar	1 1
Protivin	1
Psammaquents	2
Quarries	10
Quiver	2
Racine	3
Racoon	2 3 2 3 1
Raddle	3
Radford	1
Ransom	1

Rathbun	1
Rawles	8
Readlyn	1
Reeds Creek	5
Renova	3
Revere	8W
Riceville	1
Richwood	3
Ridgeport	5
Ridgeton	
Rinda	3 2
	6
Ripon	
River Wash	10
Rock Outcrop	10
Rocksan	8W
Rockton	6
Rodney	8W
Roine	3
Rolfe	2
Rollingstone	4
Roseville	6
Rossfield	3
Rowley	1
Rozetta	3
Rubio	2
Rushmore	2
Rushville	2
Russell	
	3 2
Sable	2
Sac	7
Salida	7
Salix variant	3
Sandy Escarpments	10
Sarpy	7 5 5 2
Sattre	5
Saude	5
Sawmill	2
Schapville	6
Schley	1
Scroll	W8
Seaton	3
Sewage lagoon	10
Seymour	1
Shaffton	1
Shandep	2
Sharpsburg	4
Shelby	3
Shellwood	8
Shorewood	1
	1
Shullsburg	
Sigglekov	1
Smithland	1
Snider	1
Sogn	10
Soloman	7
Sparta	
Sperry	2
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Spicer	8W
Spillco	1
Spillville	3
Steep Rock Land	10
Steinauer	8
Storden	8
Strahan	3
Strip Mine Spoils	10
Stronghurst	1
Sunburg	5
Taintor	2
Talcot	8W
Tallula	3
Tama	3
Tell	3 5
Terril	3
Thebes	3
Thorp	3 2
Ticonic	8
Tieville	8W
Tilfer	8W
Timula	
Titus	3 2
Toolesboro	1
Traer	2
Trent	
Tripoli	3 2
Truman	
Turlin	3
Tuskeego	2
Udifluvents	10
Udolpho	2
Udorthents	10
Urban land	10
Uturin	8W
Van Meter	6
Vesser	2
Vessei	3
Viniage	4
Volney	5
Voire	0
Wabash	2
Wacousta	8 2 2 5 2 2 2 5
Wadena	5
Waldorf	2
Walford	2
Wapsie	5
Waste Treatment	10
Waste Treatment Watkins	
Watseka	3
Waubeek	
	3 3 5 5 2
Waukoo) F
Waukee	5
Waukegan	5
Webster	4
Weller	3
Wentworth	<u> </u>

Whalan	6
Whittier	5
Wilmonton	1
Wilsey	8
Winneshiek	6
Winterset	2
Wiota	3
Woodbury	2
Worthen	3
Yellowriver	3
Zenor	5
Zook	2
Zwingle	2

Recommended Species for each Soil Group

(nn) Denotes non-native to lowa

(*) Denotes a species especially susceptible to insects and/or disease

CSG	Description	Hardwoods	Evergreens	Shrubs
Moderately Wet	These deep soils are somewhat poorly drained with a seasonal high water table of 1 to 3.5 feet during the growing season (unless artificially drained). They contain less than 5% calcium carbonate. Soils are typically neutral to moderately acid. Suitability of this soil for: Upland Oaks = moderately high Conifers = low Bottomland Hardwoods = high SI= 56-65 Production = 150-199 board feet/acre/year	Hardwoods suitable for plantings consist of: Bur Oak Pin Oak Swamp White Oak Black Ash Green Ash Walnut (consult forester) Pecan (consult forester) Hackberry Kentucky Coffee Tree Shellbark Hickory (consult forester) River Birch Silver Maple Sycamore Cottonwood Hybrid Poplar (nn) Willow	Evergreens suitable for plantings consist of: • E. Red Cedar	Shrubs suitable for plantings consist of: American Plum Arrowwood Buttonbush Choke Cherry Crabapple Dogwood, Gray Dogwood, Silky Dogwood, Redosier Elderberry Hawthorn Hazelnut Highbush Cranberry Nanking Cherry (nn) Nannyberry Ninebark E. Redbud Sandbar Willow Serviceberry Viburnum spp. Paw Paw Winterberry

CSG	Description	Hardwoods	Evergreens	Shrubs
2 Wet	These deep soils are poorly drained with a seasonal high water table within 1 foot of the soil surface during the growing season (unless artificially drained). These soils also appear on the lowa list of Hydric soils unless they are organic soils, in which case they will be in Group 10. They contain less than 5% calcium carbonates. Soils are typically neutral to moderately acid. Suitability of this soil for: Upland Oaks = low; Conifers = low Bottomland Hardwoods = moderately high SI= <45 Production = <100 board feet/acre/year	Hardwoods suitable for plantings consist of: Bur Oak Pin Oak Swamp White Oak Green Ash Hackberry River Birch Shellbark Hickory (consult forester) Silver Maple Sycamore Cottonwood Willow	Evergreens are not suitable for these sites.	Shrubs suitable for plantings consist of: Buttonbush Dogwood, Silky Dogwood, Redosier Elderberry Winterberry
Well Drained Moist Loamy	These deep medium textured soils are moderately well or well drained. These soils typically contain 18-35% clay in the series control section. They are typically neutral or slightly acidic and have high available water capacity. Suitability of this soil for: Upland Oaks = very high Conifers = very high Bottomland Hardwoods = very high SI = 76-85 Production = 250-300 board feet/acre/year	Hardwoods suitable for plantings consist of: Black Oak Bur Oak Chinkapin Oak Red Oak Swamp White Oak White Oak Black Ash Green Ash Walnut Pecan (consult forester) Hackberry Basswood Kentucky Coffee Tree Black Cherry Shagbark Hickory Hard Maple (Black, Sugar) Silver Maple Cottonwood Hybrid Poplar (nn) Butternut	Evergreens suitable for plantings consist of: E. Red Cedar E. White Pine Jack Pine (nn) Red Pine (nn) Black Hills Spruce (nn) Norway Spruce (nn) White Spruce (nn) White/Concolor Fir (nn) Arborvitae (N. White Cedar) (nn)	Shrubs suitable for plantings consist of: American Plum Arrowwood Buttonbush Choke Cherry Crabapple Dogwood, Gray Dogwood, Silky Dogwood, Redosier Elderberry Hawthorn Hazelnut Highbush Cranberry Nanking Cherry (nn) Nannyberry Ninebark E. Redbud Serviceberry Viburnum spp. Paw Paw Blackhaw

CSG	Description	Hardwoods	Evergreens	Shrubs
4 Well Drained Clayey	These deep fine textured soils are well drained or moderately well drained. They typically contain > 35% clay in the series control section. They are typically neutral or slightly acidic and have high available water capacity. Suitability of this soil for: Upland Oaks = High; Conifers = Moderately High Cottonwood type species = High SI= 66-75. Production = 200-249 board feet/acre/year	Hardwoods suitable for plantings consist of: Bur Oak Pin Pak Red Oak Swamp White Oak White Oak Black Ash Green Ash Walnut Pecan (consult forester) Hackberry Basswood Kentucky Coffee Tree Black Cherry Shagbark Hickory Hard Maple (Black, Sugar) Silver Maple Cottonwood Hybrid Poplar (nn)	Evergreens suitable for plantings consist of: E. Red Cedar E. White Pine Jack Pine (nn) Red Pine (nn) Black Hills Spruce (nn) Norway Spruce (nn) White Spruce (nn) White/Concolor Fir (nn) Arborvitae (N. White Cedar) (nn)	Shrubs suitable for plantings consist of: American Plum Arrowwood Crabapple Dogwood, Gray Dogwood, Silky Dogwood, Redosier Elderberry Hawthorn Hazelnut Highbush Cranberry Nanking Cherry (nn) Nannyberry Ninebark E. Redbud Serviceberry Viburnum spp. Blackhaw
5 Well Drained Dry Loamy	These deep medium textured soils are well or moderately well drained. These soils typically contain 8-18% clay in the series control section. Sand and/or gravel in the subsoil is common. They are typically neutral or slightly acid and have medium or low available water capacity. Suitability of this soil for: Upland Oaks = moderately high Conifers = moderately high Bottomland Hardwoods = moderately high SI = 56-65 Production = 150-199 board feet/acre/year	Hardwoods suitable for plantings consist of: Black Oak Bur Oak Red Oak Chinkapin Oak White Oak Green Ash White Ash Walnut (consult forester) Hackberry Black Cherry Hickory Butternut	Evergreens suitable for plantings consist of: E. Red Cedar E. White Pine Jack Pine (nn) Red Pine (nn) Black Hills Spruce (nn) Norway Spruce (nn) White Spruce (nn) Concolor fir (nn)	Shrubs suitable for plantings consist of: American Plum Arrowwood Buttonbush Chokecherry Crabapple Dogwood, Gray Hawthorn Hazelnut Highbush Cranberry Nanking Cherry (nn) Nannyberry Ninebark Serviceberry Viburnum spp. Paw Paw Blackhaw

CSG	Description	Hardwoods	Evergreens	Shrubs
6	These well and	Hardwoods suitable	Evergreens suitable for	Shrubs suitable for
6 Moderately Deep	These well and moderately well drained soils are underlain by weathered shale, limestone, or sandstone at depths of 20 inches to 40 inches. They are typically neutral to slightly acidic. Suitability of this soil for: Upland Oaks = high Conifers = high Bottomland Hardwoods = high SI = 66-75 Production = 200-249 board feet/acre/year	for plantings consist of: Black oak Bur Oak Red Oak Swamp White Oak White Oak Black Ash Green Ash White Ash Walnut - (consult forester) Hackberry Basswood Kentucky Coffee Tree Black Cherry Hickory Hard Maple (Black, Sugar) Silver Maple Sycamore Cottonwood Hybrid Poplar (nn)	Evergreens suitable for plantings consist of: E. Red Cedar E. White Pine Jack Pine (nn) Red Pine (nn) Black Hills Spruce (nn) Norway Spruce (nn) White Spruce (nn) White/Concolor Fir (nn) Arborvitae (N. White Cedar) (nn)	Shrubs suitable for plantings consist of:
7 Deep Sandy	These well to excessively drained soils are sandy throughout the soil profile. They are typically slightly acid or neutral. Available water capacity is low. Suitability of this soil for: Upland Oaks = moderate Conifers = moderately high Bottomland Hardwoods = moderately high S I= 46-56 Production = 100-149 board feet per acre per year	 Butternut Hardwoods suitable for plantings consist of: Black Oak Bur Oak Red Oak White Oak Green Ash White Ash Hackberry Hickory Butternut 	Evergreens suitable for plantings consist of: E. Red Cedar E. White Pine Jack Pine (nn) Red Pine (nn) Black Hills Spruce (nn) Concolor fir (nn)	Shrubs suitable for plantings consist of: American Plum Arrowwood Chokecherry Crabapple Dogwood, Gray Hawthorn Hazelnut Nanking Cherry (nn) Ninebark Viburnum spp. Blackhaw
8 Calcareous	These deep moderately well to well drained soils have a high concentration of calcium carbonate in the soil profile. They are moderately to strongly alkaline.	Hardwoods suitable for plantings consist of: Bur Oak Red Oak Chinkapin Oak White Oak Green Ash Hackberry Shagbark Hickory Cottonwood Hybrid Poplar (nn)	Evergreens suitable for plantings consist of: • E. Red Cedar • Jack Pine (nn)	Shrubs suitable for plantings consist of:

CSG	Description	Hardwoods	Evergreens	Shrubs
8W Wet Calcareous	These deep somewhat poor or poorly drained soils have a high concentration of calcium carbonate in the soil profile. They are moderately to strongly alkaline. Suitability of this soil for: Upland Oaks = low Conifers = low Bottomland Hardwoods = moderate SI= <45. Production = <100 board feet/acre/year	Hardwoods suitable for plantings consist of: Bur Oak Swamp White Oak Green Ash Hackberry Shellbark Hickory (consult forester) Sycamore Cottonwood River Birch Willow	Evergreens suitable for plantings consist of: • E. Red Cedar • Jack Pine (nn)	Shrubs suitable for plantings consist of:
9 Saline/Sodic	These deep soils have high concentrations of soluble salts and/or sodium in the soil profile. They are strongly or very strongly alkaline. Suitability of this soil for: Upland Oaks = low Conifers = low Bottomland hardwoods = moderate SI = <45 Production = <100 board feet/acre/year	Hardwoods suitable for plantings consist of: • Silver Maple • Cottonwood • Willow	Evergreens are not suitable for these sites.	Shrubs suitable for plantings consist of: Buttonbush Dogwood, Silky Elderberry
10 Shallow Soils and Misc. Areas	These areas are mapped as miscellaneous land types or are very shallow soils. Consultation with a professional forester is advised to determine which tree or shrub species may be suited to these sites. Many existing timber areas are found on the shallow soils (i.e. Nordness) in this group.	Consult with a professional forester for recommendations.	Consult with a professional forester for recommendations.	Consult with a professional forester for recommendations.