

Mahaska County, Iowa

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
7: Wiota-----	---	---	---	---
8B: Judson-----	---	---	---	---
8C: Judson-----	---	---	---	---
11B: Colo-----	---	---	---	---
Ely-----	---	---	---	---
13B: Nodaway-----	white oak-----	65	43	European larch, black walnut, eastern white pine, red pine, sugar maple
Vesser-----	---	---	---	---
24D2: Shelby-----	---	---	---	---
24E2: Shelby-----	---	---	---	---
41C: Sparta-----	eastern white pine-- jack pine----- northern red oak---- red pine-----	--- --- 70 ---	0 0 57 0	eastern white pine, jack pine, red pine
43: Bremer-----	eastern cottonwood-- silver maple-----	90 80	100 29	American sycamore, common hackberry, eastern arborvitae, eastern cottonwood, green ash, silver maple
51: Vesser-----	---	---	---	---
51B: Vesser-----	---	---	---	---
53: Riverwash-----	---	---	---	---
54: Zook-----	---	---	---	---

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	Common trees	Site index	Volume of wood fiber cu ft/ac	
54+: Zook-----	---	---	---	---
54B: Zook-----	---	---	---	---
63C: Chelsea-----	white oak-----	55	43	European larch, Scotch pine, eastern redcedar, eastern white pine, jack pine, red pine
63D2: Chelsea-----	white oak-----	55	43	European larch, Scotch pine, eastern redcedar, eastern white pine, jack pine, red pine
63E2: Chelsea-----	white oak-----	55	43	European larch, Scotch pine, eastern redcedar, eastern white pine, jack pine, red pine
63F2: Chelsea-----	white oak-----	55	43	European larch, Scotch pine, eastern redcedar, eastern white pine, jack pine, red pine
65D2: Lindley-----	black oak----- blackjack oak----- northern red oak---- post oak----- white oak-----	63 --- 61 53 56	43 0 43 43 43	black oak, green ash, northern red oak, white oak
65E2: Lindley-----	black oak----- blackjack oak----- northern red oak---- post oak----- white oak-----	63 --- 61 53 56	43 0 43 43 43	black oak, green ash, northern red oak, white oak

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	Common trees	Site index	Volume of wood fiber cu ft/ac	
65F2: Lindley-----	black oak----- blackjack oak----- northern red oak---- post oak----- white oak-----	63 --- 61 53 56	43 0 43 43 43	black oak, green ash, northern red oak, white oak
69C: Clearfield-----	---	---	---	---
69C2: Clearfield-----	---	---	---	---
74: Rubio-----	white oak-----	45	29	American sycamore, eastern arborvitae, eastern cottonwood, green ash, laurel willow, silver maple
75: Givin-----	northern red oak---- white oak-----	--- 65	0 43	black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
76B: Ladoga-----	northern red oak---- white oak-----	75 75	57 57	European larch, black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
76C: Ladoga-----	northern red oak---- white oak-----	75 75	57 57	European larch, black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
76C2: Ladoga-----	northern red oak----	75	57	European larch, black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
	white oak-----	75	57	
76D: Ladoga-----	northern red oak----	75	57	European larch, black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
	white oak-----	75	57	
76D2: Ladoga-----	northern red oak----	75	57	European larch, black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
	white oak-----	75	57	
80B: Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	
80C: Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	
80C2: Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	

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	Common trees	Site index	Volume of wood fiber cu ft/ac	
80D2: Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	
80D3: Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	
80E2: Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	
88: Nevin-----	---	---	---	---
98: Huntsville-----	American sycamore----	---	0	American sycamore, black walnut, common hackberry, eastern cottonwood, green ash, red maple, sugar maple
	cherrybark oak-----	---	0	
	eastern cottonwood--	110	157	
	green ash-----	---	0	
	sweetgum-----	---	0	
	tuliptree-----	98	100	
122: Sperry-----	---	---	---	---
131B: Pershing-----	white oak-----	55	43	eastern white pine, red pine, white oak
131C2: Pershing-----	white oak-----	55	43	eastern white pine, red pine, white oak
132C2: Weller-----	white oak-----	55	43	black walnut, eastern white pine, red pine, sugar maple

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
133: Colo-----	---	---	---	---
133+: Colo-----	---	---	---	---
133B: Colo-----	---	---	---	---
163B: Fayette-----	black walnut----- northern red oak---- tuliptree----- white oak-----	--- 80 90 80	0 57 86 57	eastern white pine, green ash, northern red oak, tuliptree
163C2: Fayette-----	black walnut----- northern red oak---- tuliptree----- white oak-----	--- 80 90 80	0 57 86 57	eastern white pine, green ash, northern red oak, tuliptree
163D2: Fayette-----	black walnut----- northern red oak---- tuliptree----- white oak-----	--- 80 90 80	0 57 86 57	eastern white pine, green ash, northern red oak, tuliptree
163E2: Fayette-----	black walnut----- northern red oak---- tuliptree----- white oak-----	--- 80 90 80	0 57 86 57	eastern white pine, green ash, northern red oak, tuliptree
179D2: Gara-----	northern red oak---- white oak-----	55 55	43 43	eastern white pine, northern red oak, red pine, white oak
179E2: Gara-----	northern red oak---- white oak-----	55 55	43 43	eastern white pine, northern red oak, red pine, white oak
179F2: Gara-----	northern red oak---- white oak-----	55 55	43 43	eastern white pine, northern red oak, red pine, white oak

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
208: Landes-----	American sycamore--- eastern cottonwood-- green ash----- sweetgum----- tuliptree-----	--- 105 --- --- 95	0 143 0 0 100	American sycamore, black walnut, eastern cottonwood, eastern white pine, green ash, sugar maple, sweetgum, tuliptree
210G: Boone-----	black oak----- jack pine----- northern red oak---	44 49 ---	29 57 0	jack pine, red pine
212: Kennebec-----	black walnut----- bur oak----- common hackberry--- eastern cottonwood-- green ash-----	79 63 --- --- ---	0 43 0 0 0	American sycamore, black walnut, bur oak, common hackberry, eastern cottonwood, green ash
220: Nodaway-----	white oak-----	65	43	European larch, black walnut, eastern white pine, red pine, sugar maple
222C: Clarinda-----	---	---	---	---
222C2: Clarinda-----	---	---	---	---
222D2: Clarinda-----	---	---	---	---
248: Zook-----	---	---	---	---
269: Humeston-----	---	---	---	---
270: Spillville-----	---	---	---	---
273B: Olmitz-----	---	---	---	---
273C: Olmitz-----	---	---	---	---

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
279: Taintor-----	---	---	---	---
280: Mahaska-----	---	---	---	---
280B: Mahaska-----	---	---	---	---
281B: Otley-----	---	---	---	---
281C: Otley-----	---	---	---	---
281C2: Otley-----	---	---	---	---
281D: Otley-----	---	---	---	---
281D2: Otley-----	---	---	---	---
284: Flagler-----	---	---	---	---
293C2: Chelsea-----	white oak-----	55	43	European larch, Scotch pine, eastern redcedar, eastern white pine, jack pine, red pine
Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	
293D2: Chelsea-----	white oak-----	55	43	European larch, Scotch pine, eastern redcedar, eastern white pine, jack pine, red pine
Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
293E2: Chelsea-----	white oak-----	55	43	European larch, Scotch pine, eastern redcedar, eastern white pine, jack pine, red pine
Clinton-----	northern red oak----	65	43	European larch, black walnut, eastern white pine, northern red oak, red pine, white oak
	white oak-----	65	43	
313D: Gosport-----	white oak-----	45	29	Norway spruce, Scotch pine, cottonwood, eastern white pine, red pine, white spruce
313E: Gosport-----	white oak-----	45	29	Norway spruce, Scotch pine, cottonwood, eastern white pine, red pine, white spruce
313F: Gosport-----	white oak-----	45	29	Norway spruce, Scotch pine, cottonwood, eastern white pine, red pine, white spruce
315: Nodaway-----	white oak-----	65	43	European larch, black walnut, eastern white pine, red pine, sugar maple
Alluvial Land-----	---	---	---	---
354: Marsh-----	---	---	---	---
362: Haig-----	---	---	---	---
364B: Grundy-----	---	---	---	---

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
364C2: Grundy-----	---	---	---	---
412G: Sogn-----	---	---	---	---
422: Amana-----	northern red oak----	58	43	black walnut, eastern white pine, red pine, sugar maple
	white oak-----	62	43	
424D2: Lindley-----	black oak-----	63	43	black oak, green ash, northern red oak, white oak
	blackjack oak-----	---	0	
	northern red oak----	61	43	
	post oak-----	53	43	
	white oak-----	56	43	
Keswick-----	northern red oak----	55	43	eastern white pine, red pine, sugar maple
	white oak-----	55	43	
424E2: Lindley-----	black oak-----	63	43	black oak, green ash, northern red oak, white oak
	blackjack oak-----	---	0	
	northern red oak----	61	43	
	post oak-----	53	43	
	white oak-----	56	43	
Keswick-----	northern red oak----	55	43	eastern white pine, red pine, sugar maple
	white oak-----	55	43	
428B: Ely-----	---	---	---	---
442C2: Sparta-----	eastern white pine--	---	0	eastern white pine, jack pine, red pine
	jack pine-----	---	0	
	northern red oak----	70	57	
	red pine-----	---	0	
Otley-----	---	---	---	---
442D2: Sparta-----	eastern white pine--	---	0	eastern white pine, jack pine, red pine
	jack pine-----	---	0	
	northern red oak----	70	57	
	red pine-----	---	0	
Otley-----	---	---	---	---

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
451D2: Caleb-----	northern red oak----	55	43	black walnut, eastern white pine, red pine, sugar maple
	white oak-----	55	43	
451E2: Caleb-----	northern red oak----	55	43	black walnut, eastern white pine, red pine, sugar maple
	white oak-----	55	43	
451F2: Caleb-----	northern red oak----	55	43	black walnut, eastern white pine, red pine, sugar maple
	white oak-----	55	43	
453: Tuskeego-----	eastern cottonwood--	90	100	American sycamore, eastern arborvitae, eastern cottonwood, green ash, laurel willow, silver maple
	silver maple-----	80	29	
467: Radford-----	---	---	---	---
485: Spillville-----	---	---	---	---
489: Ossian-----	---	---	---	---
502: Mine Pits And Dumps-----	---	---	---	---
570B: Nira-----	---	---	---	---
570C: Nira-----	---	---	---	---
570C2: Nira-----	---	---	---	---

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
571B: Hedrick-----	white oak-----	75	57	Norway spruce, Scotch pine, eastern redcedar, eastern white pine, red pine, sugar maple, white spruce
571C: Hedrick-----	white oak-----	75	57	Norway spruce, Scotch pine, eastern redcedar, eastern white pine, red pine, sugar maple, white spruce
571C2: Hedrick-----	white oak-----	75	57	Norway spruce, Scotch pine, eastern redcedar, eastern white pine, red pine, sugar maple, white spruce
571D2: Hedrick-----	white oak-----	75	57	Norway spruce, Scotch pine, eastern redcedar, eastern white pine, red pine, sugar maple, white spruce
571E2: Hedrick-----	white oak-----	75	57	Norway spruce, Scotch pine, eastern redcedar, eastern white pine, red pine, sugar maple, white spruce
663D2: Seaton-----	black walnut-----	---	0	black walnut, green
	northern red oak----	80	57	ash, northern red
	tuliptree-----	90	86	oak, red pine,
	white oak-----	90	72	sugar maple, white oak

Forest Productivity  
Mahaska County, Iowa

FIELD OFFICE TECHNICAL GUIDE Sec. II  
FORESTLAND INTERPRETATIONS

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
663E2: Seaton-----	black walnut----- northern red oak---- tuliptree----- white oak-----	--- 80 90 90	0 57 86 72	black walnut, green ash, northern red oak, red pine, sugar maple, white oak
663F2: Seaton-----	black walnut----- northern red oak---- tuliptree----- white oak-----	--- 80 90 90	0 57 86 72	black walnut, green ash, northern red oak, red pine, sugar maple, white oak
687: Watkins-----	northern red oak---- white oak-----	70 65	57 43	eastern white pine, red pine, sugar maple
687B: Watkins-----	northern red oak---- white oak-----	70 65	57 43	eastern white pine, red pine, sugar maple
792D2: Armstrong-----	northern red oak---- white oak-----	55 55	43 43	European larch, eastern white pine, red pine, sugar maple
822C2: Lamoni-----	---	---	---	---
822D2: Lamoni-----	---	---	---	---
993D2: Gara-----	northern red oak---- white oak-----	55 55	43 43	eastern white pine, northern red oak, red pine, white oak
Armstrong-----	northern red oak---- white oak-----	55 55	43 43	European larch, eastern white pine, red pine, sugar maple
993E2: Gara-----	northern red oak---- white oak-----	55 55	43 43	eastern white pine, northern red oak, red pine, white oak

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Map symbol and soil name	Potential productivity		Trees to manage	
	Common trees	Site index		Volume of wood fiber cu ft/ac
Armstrong-----	northern red oak----	55	43	European larch, eastern white pine, red pine, sugar maple
	white oak-----	55	43	
C220: Nodaway-----	white oak-----	65	43	European larch, black walnut, eastern white pine, red pine, sugar maple
C422: Amana-----	northern red oak----	58	43	black walnut, eastern white pine, red pine, sugar maple
	white oak-----	62	43	
T75: Givin-----	northern red oak----	---	0	black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
	white oak-----	65	43	
T76B: Ladoga-----	northern red oak----	75	57	European larch, black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
	white oak-----	75	57	
T76C2: Ladoga-----	northern red oak----	75	57	European larch, black walnut, eastern white pine, northern red oak, red pine, sugar maple, white oak
	white oak-----	75	57	
T162B: Downs-----	black walnut-----	---	0	eastern white pine, green ash, northern red oak, tuliptree
	northern red oak----	80	57	
	tuliptree-----	90	86	
	white oak-----	80	57	
T279: Taintor-----	---	---	---	---
T280: Mahaska-----	---	---	---	---

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Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber cu ft/ac	
T281B: Otley-----	---	---	---	---
T281C2: Otley-----	---	---	---	---