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Whit oak

Blk oak

1531 28A

Spt. ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||~~
" ~~||||~~ ~~||||~~ ~~||||~~
"

Not ~~||||~~ ~~||||~~ ~~||||~~ ~~||~~
~~||||~~ ~~||||~~ ~~||||~~

95 yrs 200 B.A @ BH

5.0 + 18 = 68

73.5	26.5
X 3	
220.5	79.5
3.6	2.5
793.8	198.7

C.T. = 992.5

Correlation of stump & breast height. (Done in Stewards' Wood)

Quercus alba

Stump	B.H.	
90	40	44.4
50	28	56
85	50	58.8
130	70	53.8
180	110	61.1
85	40	47.1
70	40	57.1
120	60	50
280	190	67.9
50	35	70
100	65	65
200	120	60
95	50	52.6
180	120	66.6
150	85	56.7
110	65	59.1
120	75	62.5
130	85	65.4
130	80	61.5
320	160	50
150	85	56.7
55	35	63.6
80	50	62.5
340	250	73.5
160	110	68.7
120	75	62.5

26

26 / 1553.1
59.7

Quercus
Stump

Stump	B.H.	
200	140	70
280	170	60.7
230	130	56.5
140	70	50
70	55	78.6
210	140	66.6
	6	382.4
		63.7

Prunus
Stump

Stump	B.H.	
28	25	89.3
29	24	82.7
65	50	76.9
105	70	66.7
	4	315.6
		78.9

	20	30	40	50	60	70	80	90	96
<i>Q. velut.</i>	$1\frac{3}{4}$ " diam.	3	$4\frac{1}{2}$	$7\frac{1}{2}$	10	$12\frac{1}{4}$	$14\frac{1}{2}$	$18\frac{1}{4}$	20-24
<i>Q. velut.</i>		$3\frac{1}{4}$		14					<u>97</u>
<i>Q. velut.</i>		$4\frac{1}{2}$		$8\frac{1}{2}$					22-29
<i>Q. velut.</i>		$7\frac{1}{8}$		13					$15\frac{1}{2} - 18\frac{1}{2}$
									<u>94</u>
									25
<i>Q. alba</i>	¹⁰ $2\frac{1}{2}$	²⁰ $5\frac{1}{2}$	³⁰ $7\frac{1}{2}$	⁴⁰ 9	⁵⁰ 10	⁶⁰ $11\frac{1}{2}$	⁷⁰ $12\frac{1}{2}$	220 BA.	<u>86</u> 15

$1\frac{1}{4}$ $2\frac{3}{4}$

$\begin{array}{r} 16 \\ 3 \end{array}$ $\begin{array}{r} 64 \\ 3 \end{array}$ $\begin{array}{r} 144 \\ 3.14 \\ 576 \\ 144 \\ 472 \\ 452.16 \end{array}$

Pteridium	Cornus	Parthenociss	Circaea
Helianthus	Corylus	Phryma	geum
Rubus allegh.	Sambucus	Aralia	
Desmodium	(mesic)	Celastrus	
	Vitis	Smilacina	
	Rhus	Rubus strig.	

Arenaria latifolia

Presence or Frequency
(Common species only)

SOUTHERN UPLAND HARDWOODS

6N8E NW31

Stand No. 28A

Quadrat No.

Actaea pachypoda	Eupatorium rugosum	Polygonatum canaliculatum
Adiantum pedatum	Festuca obtusa	Polygonatum pubescens
Agrimonia gryposepala	Fragaria virginiana	Potentilla simplex
Allium tricoccum	Galium aparine	Prenanthes alba
Amphicarpa braceata	G. circaezans	Pteridium aquilinum
Anemone quinquefolia	G. concinnum	Pyrola elliptica
A. virginiana	G. lanceolatum	Ranunculus abortivus
Anemonella thalictroides	G. triflorum	R. recurvatus
Antennaria sp.	Geranium maculatum	R. septentrionalis
Aplectrum hiemale	Gerardia grandiflora	Rhus radicans
Apocynum androsaemifolium	Geum canadense	Ribes americanum
Aquilegia canadensis	Goodyera pubescens	R. cynosbati
Aralia nudicaulis	Habenaria bracteata	R. missouriense
A. racemosa	Hackelia virginica	Rosa sp.
Arenaria lateriflora	Hamamelis virginiana	Rubus allegheniensis
Arisaema atrorubens	Helianthus strumosus	R. occidentalis
Asarum canadensis	Hepatica acutiloba	R. strigosus
Aster macrophyllus	Heuchera richardsonii	Sambucus canadensis
A. sagittifolius	Hydrastis canadensis	Sanguinaria canadensis
A. shortii	Hydrophyllum virginianum	Sanicula gregaria
Athyrium filix-femina	Hystrix patula	S. marilandica
Botrychium virginianum	Impatiens capensis	Smilacina racemosa
Brachyelytrum erectum	I. pallida	S. stellata
Campanula americana	Isopyrum biternatum	Smilax ecirrhata
Carex albursina	Lactuca biennis	S. herbacea
C. pensylvanica	Laportea canadensis	S. tamnoides
Caulophyllum thalictroides	Lathyrus ochroleucus	Solidago altissima
Celastrus scandens	Lonicera prolifera	S. flexicaulis
Circaea quadrisulcata	Lysimachia quadrifolia	S. ulmifolia
Claytonia virginiana	Maianthemum canadensis	Thalictrum dioicum
Cornus alternifolia	Menispermum canadensis	Tovara virginiana
C. femina	Mitella diphylla	Trillium cernuum
C. rugosa	Monarda fistulosa	T. flexipes
Corylus americana	Orchis spectabilis	T. grandiflorum
Cryptotaenia canadensis	Oryzopsis racemosa	T. recurvatum
Cypripedium pubescens	Osmorhiza clayton	Triosteum perfoliatum
Cystopteris fragilis	O. longistylis	Uvularia grandiflora
Dentaria laciniata	Osmunda claytoni	Veronicastrum virginicum
Desmodium glutinosum	Panax quinquefolia	Viburnum acerifolium
D. nudiflorum	Panicum latifolium	V. rafinesquianum
Dicentra cucullaria	Parietaria pennsylvanica	Viola cucullata
Dodecatheon meadia	Parthenocissus inserta	V. pubescens
Dryopteris spinulosa	Phlox divaricata	Vitis aestivalis
Erigeron pulchellus	Phryma leptostachya	V. riparia
Erythronium albidum	Podophyllum peltatum	Xanthoxylum americ.
Eupatorium purpureum	Polemonium reptans	Zizia aurea

Additional species:

Q. velut 16, 18
A. alba 5, 15
A. minor 14, 13, 16, 17
Cirsium 12
Quercus macrocarpa 7
Amelanchier 9, 18
Ambrosia 19
Convolvulus 19

Cataegus 19, 20
Dioscorea villosa 3

A. 21, 22, 27
B. trifol. (in bud) 19, 20
C. trifol.

Been cutting here 3-4 years. 40 acres

Clear cut 1-2 yrs. ago

These are the plants left from when the forest stood here, plus those that came in. See, some died off, but other spp. replaced them.

Example of mature woods cut down. 27 was immature wood cut. There O. alba + oak were up to 100 yrs. old.

S. facing slope.

C. $\frac{2}{3}$ White & $\frac{1}{3}$ red oak

Red sprouts > white.

If don't sprout c. 1st yr, wait.

How can you kill stumps to keep from sprouting?

Clear cut

1531

1532

(1958 & 9, cutting this stand too)

N
Φ

Additional species:

Stump stand - adj. to 1532

SOUTHERN UPLAND HARDWOODS

Presence 1958
1531

Actaea pachypoda
Adiantum pedatum
Agrimonia gryposepala
Amelanchier spp.
✓ Amphicarpa bracteata
Anemonella thalictroides
✓ Apocynum androsaemifolium
✓ Aralia nudicaulis
A. racemosa
Arenaria lateriflora
✓ Arisaema atrorubens
Aster macrophyllus
A. sagittifolius
A. shortii
Athyrum filix-femina
Botrychium virginianum
Brachyelytrum erectum
Carex albursina
C. convoluta
✓ C. pennsylvanica
✓ Caulophyllum thalictroides
Celastrus scandens
Circaea quadrisulcata
Cornus alternifolia
✓ C. femina
C. rugosa
✓ Corylus americana
✓ Cryptotaenia canadensis
✓ Desmodium glutinosum
D. nudiflorum
Dioscorea villosa
Eupatorium purpureum
✓ E. rugosum
Festuca obtusa
Fragaria virginiana

✓ Galium aparine
G. circaezans
✓ G. concinnum
G. lanceolatum
G. triflorum
✓ Geranium maculatum
✓ Geum canadense
Hackelia virginiana
✓ Helianthus strumosus
Hepatica acutiloba
Hydrophyllum virginianum
Hystrix patula
Impatiens biflora
✓ Lactuca biennis
Laportea canadensis
Lathyrus ochroleucus
Lonicera prolifera
✓ Lysimachia quadrifolia
Monarda fistulosa
Osmorhiza claytoni
O. longistylis
✓ Oxalis violacea
Panicum latifolium
Parietaria pennsylvanica
✓ Parthenocissus vitacea
Phlox divaricata
✓ Phryma leptostachya
✓ Podophyllum peltatum
Polemonium reptans
✓ Polygonatum canaliculatum
P. pubescens
Polygonum virginianum
✓ Potentilla simplex
Prenanthes alba
✓ Prunus virginiana

✓ Pteridium aquilinum
Pyrola elliptica
Ranunculus abortivus
R. recurvatus
R. septentrionalis
Rhus radicans
✓ R. cynosbati
R. missouriense
✓ Rosa sp.
✓ Rubus allegheniensis
✓ R. occidentalis
✓ R. strigosus
✓ Sambucus canadensis
Sanguinaria canadensis
✓ Sanicula gregaria
S. marilandica
✓ Smilacina racemosa
✓ S. stellata
Smilax ecirrhata
S. herbacea
✓ Solidago canadensis
S. flexicaulis
S. ulmifolia
Thalictrum dioicum
✓ Triosteum perfoliatum
Uvularia grandiflora
Veronicastrum virginicum
Viburnum acerifolium
V. lentago
V. rafinesquianum
✓ Viola cucullata
V. pubescens
Vitris aestivalis
✓ V. riparia
✓ Zanthoxylum americanum

Additional species:

Melilotus alba
Achillea millefolium
Erigeron philadelphicus
Cirsium
Plantago
Ambrosia artemisiifolia
A. trifida
Verbascum thapsus
Urtica dioica
Taraxacum

Solidago gigantea
Rhus glabra
Chenopodium album
Nepeta cataria

(Section burned
mostly blackberry now)