

PLOT 830

LOCATION: 4 m from western edge of Grid Square #: 830

DATE SAMPLED: 7/17/80

SITE VARIABLES:

SLOPE: 18° ASPECT: 120° POSITION: midslope

SURFACE WATER: none

LITTER DEPTH: 0.63 cm EXPOSED BEDROCK: no

SOIL SERIES (mapped):

SOIL pH:

VISUAL EVIDENCE OF: LOGGING: no
GRAZING: yes
STONE WALLS: no
FIRE: no
RECENT WINDTHROW: yes
MOUNDS & PITS: yes

AGES OF DOMINANT TREES: 48.9 cm Quercus alba : years

CANOPY HEIGHT: 26.3 m % SKY VISIBLE: 12.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

The soil is shallow and stony with a poorly developed litter layer. There is a talus covering most of the slope. This plot is practically in Joe Warner's backyard. The center is offset 12.62m south due to open patch. There is a nodon on a white oak trunk. The shrub and sapling layers are dense and there are no stumps in the plot.

HISTORY:

There are quite a few recent windthrown trees in and around the plot

STAND CONDITION:

The canopy is quite open due to dieback and windthrow. Overall, this is a fairly young stand.

ADDITIONAL COMMENTS ON THE SITE:

VEGETATION STRUCTURE AND COMPOSITION:

TREES: Absolute density and basal area of stems > 10 cm DBH, by canopy position.

SPECIES	CANOPY		SUB-CANOPY		UNDER-STORY		ALL STEMS	
	DENS	BA	DENS	BA	DENS	BA	DENS	BA
Cornus florida	0	0.000	20	0.187	0	0.000	20	0.187
Quercus velutina	40	1.232	20	0.219	20	0.190	80	1.641
Carya glabra	80	6.557	40	2.157	20	0.295	140	9.009
Carya ovata	20	1.205	60	2.042	0	0.000	80	3.247
Acer rubrum	0	0.000	20	0.176	0	0.000	20	0.176
Quercus alba	20	3.756	0	0.000	0	0.000	20	3.756
Unknown	0	0.000	0	0.000	0	0.000	0	0.000
TOTALS:	DENSITY / HA	160	160	40	360			
	BASAL AREA (M2) / HA	12.7497	4.7811	0.4849	18.0157			

TREES: Relative density and basal area of stems > 10 cm DBH, by canopy position; and overall species importance values (mean of overall %D and %BA).

SPECIES	CANOPY		SUB-CANOPY		UNDER-STORY		ALL STEMS		IMPORTANCE
	%D	%BA	%D	%BA	%D	%BA	%D	%BA	VALUE
Cornus florida	0	0	13	4	0	0	6	1	3.30
Quercus velutina	25	10	13	5	50	39	22	9	15.66
Carya glabra	50	51	25	45	50	61	39	50	44.45
Carya ovata	13	9	38	43	0	0	22	18	20.12
Acer rubrum	0	0	13	4	0	0	6	1	3.27
Quercus alba	13	29	0	0	0	0	6	21	13.20
Unknown	0	0	0	0	0	0	0	0	0.00

TREES: Size class distribution of trees tallied in the 1/20 ha plot.

SPECIES	SIZE CLASS (cm)								
	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	> 50
Cornus florida	1	0	0	0	0	0	0	0	
Quercus velutina	2	1	1	0	0	0	0	0	
Carya glabra	1	0	1	3	0	2	0	0	
Carya ovata	0	2	0	2	0	0	0	0	
Acer rubrum	1	0	0	0	0	0	0	0	
Quercus alba	0	0	0	0	0	0	0	1	
Unknown	0	0	0	0	0	0	0	0	
TOTALS	5	3	2	5	0	2	0	1	0

TREES: Absolute density (per ha) and relative density (as % of density of live trees) of standing dead trees and trees with upper branch dieback

(NOTE: "% OF LIVE" = 999 indicates no live trees of that species in the plot).

SPECIES	STANDING DEAD		BRANCH DIEBACK	
	DENSITY	% OF LIVE	DENSITY	% OF LIVE
Cornus florida	20.0	100.00	20.0	100.00
Quercus velutina	0.0	0.00	0.0	0.00
Carya glabra	0.0	0.00	0.0	0.00
Carya ovata	0.0	0.00	0.0	0.00
Acer rubrum	60.0	300.00	0.0	0.00
Quercus alba	0.0	0.00	20.0	100.00
Unknown	20.0	999.00	0.0	0.00
TOTALS:	100.0	27.78	40.0	11.11

SAPLINGS: Densities per hectare of all stems > 1 m height and < 10 cm DBH.

SPECIES	SIZE CLASSES (cm)					TOTAL
	0 - 2	2 - 4	4 - 6	6 - 8	8 - 10	
Acer rubrum	360	0	0	80	0	440
Rhamnus cathartica	240	120	0	0	0	360
Carya glabra	0	80	80	0	0	160
Cornus florida	40	40	0	80	0	160
Hammamelis virginiana	200	40	0	0	0	240
TOTALS:	840	280	80	160	0	1360

SEEDLINGS: Densities (per m^2) of stems < 1 m tall.

SPECIES	DENSITY ($\#/m^2$)
Acer rubrum	1.750
Fraxinus americana	1.250
Prunus serotina	0.250
Rhamnus cathartica	1.000
Hammamelis virginiana	0.750
TOTAL:	5.000

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Vitis sp.	3.250
Lindera benzoin	0.595
Viburnum acerifolium	4.043
Cornus racemosa	3.369
Parthenocissus quinquefolia	1.506
Berberis thunbergii	0.079
TOTAL:	12.842

HERBACEOUS SPECIES AND THE FOREST FLOOR: Percent cover (note: + means < 1 %).

	% COVER
Litter layer	85.875
Exposed soil	2.122
Exposed rock	7.250
Bryophytes	+
Lichens	1.867
Dead wood	4.749
Unknown seedlings	+
Tree boles	+
Solidago caesia	1.250
Fungi(Russula)	+
Lysimachia quadrifolia	+
Solidago sp.	+
Deadwood over	+
Fragaria virginiana	+
Monotropa uniflora	+