

PLOT 476

LOCATION: 64 m from western edge of Grid Square #: 476

DATE SAMPLED: 6/8/84

SITE VARIABLES:

SLOPE: 40 ASPECT: 160° POSITION: foot of slope

SURFACE WATER: none

LITTER DEPTH: 2.38 cm EXPOSED BEDROCK: no

SOIL SERIES (mapped):

SOIL pH:

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

AGES OF DOMINANT TREES: 39.1 cm Liriodendron tulipifera : years

CANOPY HEIGHT: 24.5 m % SKY VISIBLE: 16.0

COMMENTS:

HYDROLOGY:

Site is moist and moderately drained.

SOILS:

Soils are silty and fairly deep with moderately sized stones.

HISTORY:

A young, undisturbed forest. Some dead Juniperus virginiana in plot.

STAND CONDITION:

Even-aged stand. No signs of defoliation.

ADDITIONAL COMMENTS ON THE SITE:

Stand is an even-aged red maple stand (about 50 years old). Understory contains many yellow birch. The tulip tree is an emergent. There is lots of Osmundia (wet site). Plot bordered on one side by a wet swale.

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
Acer rubrum	560	18.407	80	1.151	100	1.254	740	20.812
Liriodendron tulipifera	20	2.401	0	0.000	0	0.000	20	2.401
TOTALS:								
DENSITY / HA	580		80		100		760	
BASAL AREA (M2) / HA		20.8084		1.1515		1.2540		23.2139

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 VALUE
	%D	%BA	%D	%BA	%D	%BA	%D	%BA	
Acer rubrum	97	88	100	100	100	100	97	90	93.51
Liriodendron tulipifera	3	12	0	0	0	0	3	10	6.49

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
Acer rubrum	14	11	7	2	3	0	0	0	
Liriodendron tulipifera	0	0	0	0	0	1	0	0	
TOTALS	14	11	7	2	3	1	0	0	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
Acer rubrum	80.0	10.81	0.0	0.00
Liriodendron tulipifera	0.0	0.00	0.0	0.00
TOTALS:	80.0	10.53	0.0	0.00

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	0	40	80	40	0	160
Ulmus americana	40	0	0	0	0	40
Fraxinus americana	40	40	40	0	0	120
Amelanchier sp.	40	80	80	0	0	200
Betula lenta	280	0	0	0	0	280
Carpinus caroliniana	40	0	40	0	0	80
Ostrya virginiana	120	0	0	0	0	120
TOTALS:	560	160	240	40	0	1000

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

SPECIES	DENSITY ($\#/m^2$)
Prunus serotina	0.750
Acer rubrum	7.500
Liriodendron tulipifera	1.250
Quercus rubra	0.750
Fraxinus americana	1.250
Quercus alba	0.250
Carya ovata	0.250
Betula sp.	1.000
TOTAL:	13.000

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
<i>Vaccinium angustifolium</i>	0.595
<i>Cornus racemosa</i>	0.079
TOTAL:	0.674

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

	% COVER
Litter layer	83.250
Exposed soil	+
Exposed rock	+
Bryophytes	+
Lichens	+
Dead wood	23.000
Unknown seedlings	+
Tree boles	+
<i>Lycopodium complanatum</i>	5.749
<i>Veronica</i> sp.	+
<i>Lysamachia quadrifolia</i>	1.749
<i>Solidago</i> sp.	+
Grass sp.	4.500
<i>Carex</i> sp.	+
<i>Lycopodium obscurum</i>	1.750