

PLOT 554

LOCATION: 59 m from western edge of Grid Square #: 554  
DATE SAMPLED: 6/12/84

SITE VARIABLES:

SLOPE:  $16^{\circ}$  ASPECT:  $222^{\circ}$  POSITION: local depression  
SURFACE WATER: none  
LITTER DEPTH: 4.00 cm EXPOSED BEDROCK: yes  
SOIL SERIES (mapped):  
SOIL pH:

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

AGES OF DOMINANT TREES: 47.7 cm Acer saccharum : years

CANOPY HEIGHT: 34.0 m % SKY VISIBLE: 6.0

COMMENTS:

HYDROLOGY:

Site has a stable surface (i.e. no evidence of ponding) and is well drained.

SOILS:

Soils are deep in the swale and shallow on the slopes and rocky all around.

HISTORY:

There was a fairly recent blowdown in plot.

STAND CONDITION:

Canopy is in good shape. No defoliation is evident. Plot is in a mature sugar maple stand.

ADDITIONAL COMMENTS ON THE SITE:

Plot is located in a local depression. The understory is moderate with little regeneration of canopy species. A canopy gap was created by a treefall in the plot, but has filled in to a great extent.

## 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 saccharum	200	14.237	60	2.402	60	0.787	320	17.426
Quercus prinus	20	2.476	0	0.000	0	0.000	20	2.476
Carya ovata	20	1.690	0	0.000	0	0.000	20	1.690
TOTALS:	DENSITY / HA	240	60	60	360			
	BASAL AREA (M2) / HA	18.4031	2.4018	0.7872	21.5921			

**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
Acer saccharum	83	77	100	100	100	100	89	81	84.80
Quercus prinus	8	13	0	0	0	0	6	11	8.51
Carya ovata	8	9	0	0	0	0	6	8	6.69

**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 saccharum	3	3	3	2	3	1	0	1	
Quercus prinus	0	0	0	0	0	1	0	0	
Carya ovata	0	0	0	0	1	0	0	0	
TOTALS	3	3	3	2	4	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
Acer saccharum	20.0	6.25	0.0	0.00
Quercus prinus	0.0	0.00	0.0	0.00
Carya ovata	0.0	0.00	0.0	0.00
TOTALS:	20.0	5.56	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	
<i>Ostrya virginiana</i>	480	160	40	0	0	680
<i>Acer saccharum</i>	400	40	0	0	0	440
TOTALS:	880	200	40	0	0	1120

**SEEDLINGS:** Densities (per m<sup>2</sup>) of stems < 1 m tall.

SPECIES	DENSITY (#/m <sup>2</sup> )
<i>Acer saccharum</i>	1.250
TOTAL:	1.250

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Viburnum acerifolium	6.579
Cornus alternifolia	0.198
TOTAL:	6.778

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

	% COVER
Litter layer	66.875
Exposed soil	3.875
Exposed rock	12.750
Bryophytes	+
Lichens	+
Dead wood	17.500
Unknown seedlings	+
Tree boles	+
Alliaria officinalis	9.125
Galium triflorum	+
Eupatorium rugosum	+
Hieracium sp.	+