

PLOT 556

LOCATION: 34 m from western edge of Grid Square #: 556
 DATE SAMPLED: 6/20/84

SITE VARIABLES:

SLOPE: 29° ASPECT: 250° POSITION: midslope
 SURFACE WATER: none
 LITTER DEPTH: 10.25 cm EXPOSED BEDROCK: yes
 SOIL SERIES (mapped):
 SOIL pH:

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

AGES OF DOMINANT TREES: 42.9 cm Quercus prinus : years

CANOPY HEIGHT: 22.0 m % SKY VISIBLE: 6.0

COMMENTS:

HYDROLOGY:

Site is very well drained.

SOILS:

Soils are extremely shallow and rocky.

HISTORY:

No recent evidence of disturbance.

STAND CONDITION:

Several trees have dieback of upper branches. Stand is fairly even-aged.

ADDITIONAL COMMENTS ON THE SITE:

Site is on a steep slope with much exposed bedrock. Fairly even-aged stand with a fairly dense shrub layer.

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	140	4.477	180	2.784	100	1.347	420	8.608
Quercus rubra	60	5.069	0	0.000	0	0.000	60	5.069
Quercus prinus	80	7.183	0	0.000	0	0.000	80	7.183
Betula lenta	20	0.982	20	0.377	0	0.000	40	1.359
Amelanchier sp.	0	0.000	20	0.368	0	0.000	20	0.368
Acer rubrum	20	0.387	20	0.261	20	0.245	60	0.894
TOTALS:	DENSITY / HA		240		120		680	
	BASAL AREA (M2) / HA		18.0987		3.7904		1.5923	
							23.4815	

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 saccharum	44	25	75	73	83	85	62	37	49.21
Quercus rubra	19	28	0	0	0	0	9	22	15.21
Quercus prinus	25	40	0	0	0	0	12	31	21.18
Betula lenta	6	5	8	10	0	0	6	6	5.84
Amelanchier sp.	0	0	8	10	0	0	3	2	2.25
Acer rubrum	6	2	8	7	17	15	9	4	6.32

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
	15	20	25	30	35	40	45	50	
Acer saccharum	11	6	4	0	0	0	0	0	
Quercus rubra	0	0	0	1	1	1	0	0	
Quercus prinus	0	0	0	2	1	0	1	0	
Betula lenta	0	1	0	1	0	0	0	0	
Amelanchier sp.	0	1	0	0	0	0	0	0	
Acer rubrum	2	1	0	0	0	0	0	0	
TOTALS	13	9	4	4	2	1	1	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 saccharum	0.0	0.00	0.0	0.00
Quercus rubra	0.0	0.00	0.0	0.00
Quercus prinus	40.0	50.00	60.0	75.00
Betula lenta	0.0	0.00	0.0	0.00
Amelanchier sp.	0.0	0.00	0.0	0.00
Acer rubrum	0.0	0.00	20.0	33.33
TOTALS:	40.0	5.88	80.0	11.76

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 saccharum	320	0	0	40	0	360
Hammamelis virginiana	560	0	0	0	0	560
Fagus grandifolia	0	0	40	0	0	40
Tsuga canadensis	0	0	40	0	0	40
Acer rubrum	80	0	0	0	0	80
Fraxinus americana	40	0	0	0	0	40
TOTALS:	1000	0	80	40	0	1120

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

SPECIES	DENSITY ($\#/m^2$)
Prunus serotina	0.750
Fraxinus americana	1.250
Acer saccharum	0.250
Acer rubrum	0.750
Quercus prinus	0.250
Carya glabra	0.250
TOTAL:	3.500

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Viburnum acerifolium	13.397
TOTAL:	13.397

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

	% COVER
Litter layer	70.625
Exposed soil	1.374
Exposed rock	13.750
Bryophytes	2.871
Lichens	2.621
Dead wood	2.621
Unknown seedlings	+
Tree boles	+
Solidago sp.	+
Carex sp.	+
Desmodium sp.	+
Root	+
Carex platyphylla	+
Hieracium sp.	+