

## PLOT 60

LOCATION: 60 m from western edge of Grid Square #: 60  
DATE SAMPLED: 8/3/84

## SITE VARIABLES:

SLOPE: 14° ASPECT: 314° POSITION: midslope  
SURFACE WATER: none  
LITTER DEPTH: 1.75 cm EXPOSED BEDROCK: yes  
SOIL SERIES (mapped):  
SOIL pH:

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

AGES OF DOMINANT TREES: 44.3 cm Quercus rubra : years

CANOPY HEIGHT: 21.6 m % SKY VISIBLE: 6.0

## COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

Soils are fairly deep, stony and well drained.

HISTORY:

Tree stumps (cut) just outside of plot to the west.

STAND CONDITION:

Stand is young and even-aged. Canopy is dense.

ADDITIONAL COMMENTS ON THE SITE:

Topography is determined by bedrock.

near canopy DBH  
canopy biomass

## 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
Quercus rubra	20	2.093	220	13.491	0	0.000	240	15.584
Acer saccharum	0	0.000	0	0.000	140	1.570	140	1.570
Fagus grandifolia	0	0.000	20	0.943	0	0.000	20	0.943
Quercus prinus	0	0.000	40	1.426	20	0.487	60	1.912
Acer rubrum	0	0.000	40	0.501	40	0.409	80	0.909
Fraxinus americana	0	0.000	0	0.000	20	0.422	20	0.422
Pinus strobus	20	1.490	0	0.000	0	0.000	20	1.490
TOTALS:	DENSITY / HA							
	40		320		220		580	
	BASAL AREA (M2) / HA							
		3.5828		16.3604		2.8879		22.8310

**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	
Quercus rubra	50	58	69	82	0	0	41	68	54.82
Acer saccharum	0	0	0	0	64	54	24	7	15.51
Fagus grandifolia	0	0	6	6	0	0	3	4	3.79
Quercus prinus	0	0	13	9	9	17	10	8	9.36
Acer rubrum	0	0	13	3	18	14	14	4	8.89
Fraxinus americana	0	0	0	0	9	15	3	2	2.65
Pinus strobus	50	42	0	0	0	0	3	7	4.99

**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		
Quercus rubra	0	1	2	5	2	1	1	0		
Acer saccharum	6	1	0	0	0	0	0	0		
Fagus grandifolia	0	0	1	0	0	0	0	0		
Quercus prinus	0	1	2	0	0	0	0	0		
Acer rubrum	4	0	0	0	0	0	0	0		
Fraxinus americana	0	1	0	0	0	0	0	0		
Pinus strobus	0	0	0	0	1	0	0	0		
TOTALS	10	4	5	5	3	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
Quercus rubra	20.0	8.33	20.0	8.33
Acer saccharum	0.0	0.00	0.0	0.00
Fagus grandifolia	0.0	0.00	20.0	100.00
Quercus prinus	20.0	33.33	0.0	0.00
Acer rubrum	20.0	25.00	20.0	25.00
Fraxinus americana	0.0	0.00	0.0	0.00
Pinus strobus	20.0	100.00	0.0	0.00
TOTALS:	80.0	13.79	60.0	10.34

**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	0	80	0	120
Acer saccharum	40	360	240	80	40	760
Fagus grandifolia	400	40	0	0	0	440
Ostrya virginiana	160	0	0	0	0	160
Hammamelis virginiana	80	0	0	0	0	80
Tsuga canadensis	0	0	40	40	0	80
Cornus florida	40	0	80	0	0	120
TOTALS:	720	440	360	200	40	1760

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

SPECIES	DENSITY ( $\#/m^2$ )
Amelanchier sp.	1.000
Prunus serotina	0.250
TOTAL:	1.250

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
<i>Viburnum acerifolium</i>	11.930
TOTAL:	11.930

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

	% COVER
Litter layer	83.625
Exposed soil	1.245
Exposed rock	1.999
Bryophytes	3.119
Lichens	1.370
Dead wood	10.000
Unknown seedlings	+
Tree boles	1.374
dead wood over	+
<i>Amplicarpa bractenta</i>	+
<i>Maianthemum canadense</i>	+
<i>Prenanthes</i> sp.	+
<i>Mitchella repens</i>	+
<i>Carex</i> sp.	+
<i>Aster divaricatis</i>	+