

PLOT 602

LOCATION: 27 m from western edge of Grid Square #: 602
DATE SAMPLED: 6/22/84

SITE VARIABLES:

SLOPE: 14° ASPECT: 280° POSITION: midslope
SURFACE WATER: none
LITTER DEPTH: 5.25 cm EXPOSED BEDROCK: yes
SOIL SERIES (mapped):
SOIL pH:

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

AGES OF DOMINANT TREES: 46.1 cm Quercus prinus : years

CANOPY HEIGHT: 25.2 m % SKY VISIBLE: 8.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

Soil is rocky. (Soil sample was taken on 29 June).

HISTORY:

A deer trail runs through the plot.

STAND CONDITION:

The hemlock are all dead (standing). Oaks have extreme dieback of upper branches.

ADDITIONAL COMMENTS ON THE SITE:

There is much exposed bedrock, some limestone. Plot was part of a very old road - canopy not affected by this. There is a huge boulder in the plot (5m x 3m x 2.5m). Plot center offset 12.6m east due to power line and road.

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
Quercus alba	0	1	0	0	0	0	0	0	
Quercus velutina	0	0	0	0	1	0	0	0	
Quercus rubra	2	2	3	1	0	0	0	1	
Quercus prinus	0	2	2	2	0	0	0	1	
Populus grandidentata	0	1	0	0	0	0	0	0	
Betula lenta	0	2	3	0	0	0	0	0	
Acer rubrum	2	2	0	0	0	0	0	0	
Amelanchier sp.	2	0	0	0	0	0	0	0	
Acer saccharum	1	0	1	1	0	0	0	0	
Ostrya virginiana	1	0	0	0	0	0	0	0	
Tsuga canadensis	0	0	0	0	0	0	0	0	
TOTALS	8	10	9	4	1	0	0	2	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 alba	0.0	0.00	20.0	100.00
Quercus velutina	0.0	0.00	20.0	100.00
Quercus rubra	0.0	0.00	100.0	55.56
Quercus prinus	40.0	28.57	60.0	42.86
Populus grandidentata	0.0	0.00	0.0	0.00
Betula lenta	0.0	0.00	0.0	0.00
Acer rubrum	20.0	25.00	20.0	25.00
Amelanchier sp.	0.0	0.00	0.0	0.00
Acer saccharum	0.0	0.00	0.0	0.00
Ostrya virginiana	0.0	0.00	0.0	0.00
Tsuga canadensis	40.0	999.00	0.0	0.00
TOTALS:	100.0	14.71	220.0	32.35

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	
Hamamelis virginiana	1080	360	80	0	0	1520
Acer rubrum	0	0	0	80	0	80
Fagus grandifolia	80	0	0	0	0	80
Acer saccharum	40	40	0	40	0	120
Carya glabra	0	40	0	0	0	40
Ostrya virginiana	0	0	40	0	0	40
Quercus rubra	0	0	0	40	0	40
TOTALS:	1200	440	120	160	0	1920

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

SPECIES	DENSITY ($\#/m^2$)
Hamamelis virginiana	0.250
Acer rubrum	1.500
Quercus prinus	0.500
Amelanchier sp.	0.250
TOTAL:	2.500

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Vaccinium sp.	0.238
Viburnum acerifolium	7.372
Galussacia baccata	0.555
TOTAL:	8.165

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

	% COVER
Litter layer	89.375
Exposed soil	2.370
Exposed rock	3.874
Bryophytes	4.249
Lichens	+
Dead wood	4.249
Unknown seedlings	+
Tree boles	+
Lysimachia quadrifolia	+
Monotropa uniflora	+
Commandra umbellata	+
Dryopteris marginalis	+