

PLOT 601

LOCATION: 65 m from western edge of Grid Square #: 601

DATE SAMPLED: 6/22/84

SITE VARIABLES:

SLOPE: 35° ASPECT: 280° POSITION: ridgetop

SURFACE WATER: none

LITTER DEPTH: 2.99 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: 54.0 cm Quercus prinus : 66 or 70 years

CANOPY HEIGHT: 25.1 m % SKY VISIBLE: 11.0

COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

Soil depth is variable.

HISTORY:

Road very nearby. Electric line with pits near plot center.

STAND CONDITION:

Most hemlock are dead and the oaks have a lot of dieback.

ADDITIONAL COMMENTS ON THE SITE:

Plot center offset to 65 (from 27) due to "the road between the hills".
Huge red oak (DBH = 72.6) just off plot.

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 prinus	160	23.777	0	0.000	0	0.000	160	23.777
Tsuga canadensis	0	0.000	0	0.000	80	0.969	80	0.969
Acer rubrum	0	0.000	40	0.731	40	0.734	80	1.465
Pinus strobus	0	0.000	0	0.000	20	0.387	20	0.387
Betula lenta	40	2.069	0	0.000	0	0.000	40	2.069
Acer pennsylvanicum	0	0.000	20	0.180	0	0.000	20	0.180
Quercus rubra	0	0.000	20	0.699	0	0.000	20	0.699
TOTALS:	DENSITY / HA							
	200		80		140		420	
	BASAL AREA (M2) / HA		25.8456		1.6100		2.0901	
							29.5457	

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
Quercus prinus	80	92	0	0	0	0	38	80	59.28
Tsuga canadensis	0	0	0	0	57	46	19	3	11.16
Acer rubrum	0	0	50	45	29	35	19	5	12.00
Pinus strobus	0	0	0	0	14	19	5	1	3.04
Betula lenta	20	8	0	0	0	0	10	7	8.26
Acer pennsylvanicum	0	0	25	11	0	0	5	1	2.69
Quercus rubra	0	0	25	43	0	0	5	2	3.56

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 prinus	0	0	0	1	1	0	3	1	54	52
Tsuga canadensis	4	0	0	0	0	0	0	0		
Acer rubrum	1	3	0	0	0	0	0	0		
Pinus strobus	0	1	0	0	0	0	0	0		
Betula lenta	0	0	1	1	0	0	0	0		
Acer pennsylvanicum	1	0	0	0	0	0	0	0		
Quercus rubra	0	0	1	0	0	0	0	0		
TOTALS	6	4	2	2	1	0	3	1	2	

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 prinus	0.0	0.00	20.0	12.50
Tsuga canadensis	260.0	325.00	0.0	0.00
Acer rubrum	0.0	0.00	0.0	0.00
Pinus strobus	0.0	0.00	20.0	100.00
Betula lenta	20.0	50.00	0.0	0.00
Acer pennsylvanicum	0.0	0.00	0.0	0.00
Quercus rubra	0.0	0.00	0.0	0.00
TOTALS:	280.0	66.67	40.0	9.52

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 pennsylvanicum	920	240	280	120	0	1560
Acer rubrum	120	0	80	0	40	240
Tsuga canadensis	0	40	40	80	40	200
Hammamelis virginiana	200	0	0	0	0	200
Betula lenta	40	80	40	0	0	160
Castanea dentata	40	0	0	0	0	40
TOTALS:	1320	360	440	200	80	2400

SEEDLINGS: Densities (per m²) of stems < 1 m tall.

SPECIES	DENSITY (#/m ²)
Acer rubrum	4.500
Acer pennsylvanicum	1.500
Prunus serotina	0.500
TOTAL:	6.500

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Viburnum acerifolium	0.515
TOTAL:	0.515

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

	% COVER
Litter layer	58.500
Exposed soil	3.497
Exposed rock	9.750
Bryophytes	24.749
Lichens	5.120
Dead wood	5.750
Unknown seedlings	+
Tree boles	+
Carex sp.	+