

PLOT 697

LOCATION: 4 m from western edge of Grid Square #: 697

DATE SAMPLED: 6/25/84

SITE VARIABLES:

SLOPE: 11° ASPECT: 40° POSITION: midslope and foot of slope

SURFACE WATER: none

LITTER DEPTH: 4.25 cm EXPOSED BEDROCK: yes

SOIL SERIES (mapped):

SOIL pH:

VISUAL EVIDENCE OF: LOGGING: no

GRAZING: yes

STONE WALLS: no

FIRE: no

RECENT WINDTHROW: yes

MOUNDS & PITS: yes

AGES OF DOMINANT TREES: 44.1 cm Quercus rubra : 120 years

CANOPY HEIGHT: 15.9 m % SKY VISIBLE: 30.0

COMMENTS:

HYDROLOGY:

Site is well drained-dry.

SOILS:

The soil is shallow. The humus is intermediate between MOR and MUL.

HISTORY:

A deer/human trail cuts through one end of the plot.

STAND CONDITION:

The canopy is fairly open canopy due to dieback and a trail.

ADDITIONAL COMMENTS ON THE SITE:

A deer/human trail runs through the edge of the plot. The plot center is offset by 10 to 35m.

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	180	7.142	60	1.165	0	0.000	240	8.307
Tsuga canadensis	0	0.000	0	0.000	40	0.828	40	0.828
Acer rubrum	0	0.000	20	0.428	20	0.208	40	0.635
Pinus strobus	20	0.481	0	0.000	100	1.301	120	1.783
Quercus rubra	80	7.593	0	0.000	20	0.211	100	7.804
TOTALS:	DENSITY / HA		80		180		540	
	BASAL AREA (M2) / HA		15.2158		1.5926		2.5485	
							19.3569	

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 prinus	64	47	75	73	0	0	44	43	43.68
Tsuga canadensis	0	0	0	0	22	32	7	4	5.84
Acer rubrum	0	0	25	27	11	8	7	3	5.34
Pinus strobus	7	3	0	0	56	51	22	9	15.72
Quercus rubra	29	50	0	0	11	8	19	40	29.42

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 prinus	2	4	3	3	0	0	0	0	
Tsuga canadensis	1	1	0	0	0	0	0	0	
Acer rubrum	1	1	0	0	0	0	0	0	
Pinus strobus	4	2	0	0	0	0	0	0	
Quercus rubra	1	0	1	1	0	0	2	0	
TOTALS	9	8	4	4	0	0	2	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 prinus	0.0	0.00	80.0	33.33
Tsuga canadensis	40.0	100.00	0.0	0.00
Acer rubrum	0.0	0.00	40.0	100.00
Pinus strobus	20.0	16.67	20.0	16.67
Quercus rubra	20.0	20.00	80.0	80.00
TOTALS:	80.0	14.81	220.0	40.74

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	
Quercus rubra	0	0	80	0	0	80
Fraxinus americana	40	40	0	0	0	80
Pinus strobus	0	0	120	0	80	200
Betula lutea	120	0	0	0	0	120
Carya glabra	0	40	0	40	0	80
Amelanchier sp.	40	80	80	0	0	200
Acer rubrum	80	0	0	0	0	80
Acer pennsylvanicum	40	0	0	0	0	40
Quercus prinus	0	40	0	0	0	40
TOTALS:	320	200	280	40	80	920

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

SPECIES	DENSITY ($\#/m^2$)
Quercus prinus	0.750
Prunus serotina	0.500
Acer saccharum	0.250
Amelanchier sp.	0.500
TOTAL:	2.000

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Vaccinium angustifolium	4.915
Vaccinium sp.	1.308
Galussacia baccata	0.238
Cornus racemosa	0.515
Viburnum acerifolium	2.774
Vitis sp.	0.238
TOTAL:	9.988

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

	% COVER
Litter layer	92.750
Exposed soil	1.497
Exposed rock	+
Bryophytes	+
Lichens	+
Dead wood	1.871
Unknown seedlings	+
Tree boles	1.500
Carex sp.	+
Maianthemum canadense	+