

PLOT 699

LOCATION: 68 m from western edge of Grid Square #: 699
DATE SAMPLED: 6/28/84

SITE VARIABLES:

SLOPE: 5° ASPECT: 180° POSITION: foot of slope
SURFACE WATER: ephemeral pond
LITTER DEPTH: 2.50 cm EXPOSED BEDROCK: no
SOIL SERIES (mapped):
SOIL pH:

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

AGES OF DOMINANT TREES: 42.5 cm Pinus strobus : years
2.6800000000E+01 cm Acer rubrum : years

CANOPY HEIGHT: 23.4 m % SKY VISIBLE: 3.0

COMMENTS:

HYDROLOGY:

The site was very wet early in the year and poorly drained. During high water, it is an ephemeral stream, otherwise it is an ephemeral pond. The slopes are well drained.

SOILS:

The pond sediments are very deep with a high clay content. They are very fine when chewed.

HISTORY:

The site has been pastured. There are a few "wolf" trees in plot.

STAND CONDITION:

The stand is fairly young with many saplings.

ADDITIONAL COMMENTS ON THE SITE:

There is an ephemeral pond in plot. The plot is in a ravine and the slopes are well drained.

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
Rhamnus cathartica	0	0.000	0	0.000	20	0.194	20	0.194
Ulmus americana	0	0.000	0	0.000	0	0.000	0	0.000
Amelanchier sp.	0	0.000	60	1.422	0	0.000	60	1.422
Acer saccharum	80	5.483	0	0.000	0	0.000	80	5.483
Acer rubrum	80	3.404	20	0.610	0	0.000	100	4.014
Quercus rubra	0	0.000	20	0.308	0	0.000	20	0.308
Pinus strobus	60	7.965	0	0.000	20	0.368	80	8.333
Prunus serotina	0	0.000	20	1.078	0	0.000	20	1.078
TOTALS:	DENSITY / HA	220		120		40		380
	BASAL AREA (M2) / HA	16.8516		3.4179		0.5612		20.8307

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
Rhamnus cathartica	0	0	0	0	50	34	5	1	3.10
Ulmus americana	0	0	0	0	0	0	0	0	0.00
Amelanchier sp.	0	0	50	42	0	0	16	7	11.31
Acer saccharum	36	33	0	0	0	0	21	26	23.69
Acer rubrum	36	20	17	18	0	0	26	19	22.79
Quercus rubra	0	0	17	9	0	0	5	1	3.37
Pinus strobus	27	47	0	0	50	66	21	40	30.53
Prunus serotina	0	0	17	32	0	0	5	5	5.22

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	
Rhamnus cathartica	1	0	0	0	0	0	0	0	
Ulmus americana	0	0	0	0	0	0	0	0	
Amelanchier sp.	2	0	1	0	0	0	0	0	
Acer saccharum	0	0	2	0	1	1	0	0	
Acer rubrum	0	3	0	3	0	0	0	0	
Quercus rubra	1	0	0	0	0	0	0	0	
Pinus strobus	0	1	0	0	0	0	3	0	
Prunus serotina	0	0	0	1	0	0	0	0	
TOTALS	4	4	3	4	1	1	3	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
Rhamnus cathartica	0.0	0.00	0.0	0.00
Ulmus americana	20.0	999.00	0.0	0.00
Amelanchier sp.	0.0	0.00	0.0	0.00
Acer saccharum	0.0	0.00	0.0	0.00
Acer rubrum	20.0	20.00	20.0	20.00
Quercus rubra	0.0	0.00	0.0	0.00
Pinus strobus	40.0	50.00	0.0	0.00
Prunus serotina	0.0	0.00	0.0	0.00
TOTALS:	80.0	21.05	20.0	5.26

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	
Hammamelis virginiana	520	80	40	0	0	640
Acer saccharum	1240	40	0	0	0	1280
Amelanchier sp.	40	120	0	0	0	160
Cornus florida	0	0	0	40	0	40
Fraxinus americana	80	0	0	0	0	80
Acer rubrum	0	40	0	0	0	40
TOTALS:	1880	280	40	40	0	2240

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

SPECIES	DENSITY ($\#/m^2$)
Rhamnus cathartica	1.000
Prunus serotina	0.250
Acer saccharum	1.250
Hammamelis virginiana	0.500
TOTAL:	3.000

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Parthenocissus quinquefolia	5.034
Vitis sp.	0.595
TOTAL:	5.628

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

	% COVER
Litter layer	77.125
Exposed soil	1.624
Exposed rock	6.874
Bryophytes	4.622
Lichens	+
Dead wood	8.625
Unknown seedlings	+
Tree boles	+
Solidago caesia	1.875
Maianthemum canadense	+
Carex stricta	4.375
Thelypteris palustris	1.500
Satureja or Prunella	+
Viola sp.	+
Grass sp.	+