

## PLOT 92

LOCATION: 55 m from western edge of Grid Square #: 92  
DATE SAMPLED: 7/26/84

## SITE VARIABLES:

SLOPE: 4° ASPECT: 20° POSITION: ridgetop  
SURFACE WATER: none  
LITTER DEPTH: 3.38 cm EXPOSED BEDROCK: no  
SOIL SERIES (mapped):  
SOIL pH:

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

AGES OF DOMINANT TREES: 49.8 cm Acer rubrum : years

CANOPY HEIGHT: 23.9 m % SKY VISIBLE: 4.0

## COMMENTS:

HYDROLOGY:

Site is well drained.

SOILS:

Soils are very deep, only slightly stony and well drained.

HISTORY:

No recent windthrow, but some old windthrown logs are in plot.

STAND CONDITION:

Many canopy individuals are showing signs of dieback.

ADDITIONAL COMMENTS ON THE SITE:

Dense understory (sapling/shrub) layer. Not too many major canopy individuals. No stumps in plot. Dead Pinus strobus wolf tree in plot (lying down).

## 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
Acer rubrum	80	6.771	140	7.201	0	0.000	220	13.972
Quercus bicolor	0	0.000	20	1.205	20	0.438	40	1.643
Amelanchier sp.	0	0.000	20	0.312	20	0.157	40	0.469
Prunus serotina	0	0.000	0	0.000	0	0.000	0	0.000
Juniperus virginiana	0	0.000	0	0.000	20	0.526	20	0.526
Quercus velutina	0	0.000	40	0.699	0	0.000	40	0.699
TOTALS:	DENSITY / HA	80	220	60	360			
	BASAL AREA (M2) / HA	6.7708	9.4174	1.1212	17.3094			

**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	
Acer rubrum	100	100	64	76	0	0	61	81	70.92
Quercus bicolor	0	0	9	13	33	39	11	9	10.30
Amelanchier sp.	0	0	9	3	33	14	11	3	6.91
Prunus serotina	0	0	0	0	0	0	0	0	0.00
Juniperus virginiana	0	0	0	0	33	47	6	3	4.30
Quercus velutina	0	0	18	7	0	0	11	4	7.57

**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		
Acer rubrum	1	2	3	2	1	1	0	1		
Quercus bicolor	0	1	0	1	0	0	0	0		
Amelanchier sp.	2	0	0	0	0	0	0	0		
Prunus serotina	0	0	0	0	0	0	0	0		
Juniperus virginiana	0	1	0	0	0	0	0	0		
Quercus velutina	1	1	0	0	0	0	0	0		
TOTALS	4	5	3	3	1	1	0	1	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
Acer rubrum	0.0	0.00	140.0	63.64
Quercus bicolor	0.0	0.00	40.0	100.00
Amelanchier sp.	0.0	0.00	0.0	0.00
Prunus serotina	20.0	999.00	0.0	0.00
Juniperus virginiana	0.0	0.00	20.0	100.00
Quercus velutina	0.0	0.00	0.0	0.00
TOTALS:	20.0	5.56	200.0	55.56

**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 velutina	320	160	80	120	0	680
Quercus alba	80	40	80	0	0	200
Betula lenta	80	40	0	0	0	120
Ostrya virginiana	920	40	40	0	0	1000
Carya glabra	80	160	0	0	0	240
Acer rubrum	0	0	80	0	0	80
Amelanchier sp.	80	0	0	0	0	80
Quercus rubra	0	0	40	0	0	40
Carpinus caroliniana	40	40	0	0	0	80
Acer saccharum	40	0	0	0	0	40
Fraxinus americana	0	40	0	0	0	40
Hammamelis virginiana	920	120	40	0	0	1080
Quercus bicolor	0	0	0	0	40	40
Cornus florida	880	320	0	0	0	1200
TOTALS:	3440	960	360	120	40	4920

**SEEDLINGS:** Densities (per m<sup>2</sup>) of stems < 1 m tall.

SPECIES	DENSITY (#/m <sup>2</sup> )
Hammamelis virginiana	3.000
Amelanchier sp.	2.250
Ulmus americana	0.250
Prunus serotina	0.250
Fagus grandifolia	0.500
Fraxinus americana	0.250
TOTAL:	6.500

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
Galussacia baccata	10.860
Cornus racemosa	0.119
Parthenocissus quinquefolia	0.713
Viburnum acerifolium	0.515
Viburnum rafinesquianum	0.119
Vitis sp.	0.634
TOTAL:	12.961

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

	% COVER
Litter layer	95.750
Exposed soil	+
Exposed rock	+
Bryophytes	+
Lichens	+
Dead wood	2.746
Unknown seedlings	+
Tree boles	1.000
Lycopodium complanatum	2.750
Lysimachia quadrifolia	+
Solidago sp.	+
Dead wood over	+
Polygonatum biflorum	+
Tree root	+
Potentilla simplex	+
Uvularia sessilifolia	+
Solidago caesia	+