

## PLOT 809

LOCATION: 4 m from western edge of Grid Square #: 809  
DATE SAMPLED: 7/11/84

## SITE VARIABLES:

SLOPE: 37° ASPECT: 286° POSITION: crest of slope  
SURFACE WATER: none  
LITTER DEPTH: 4.50 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: yes

AGES OF DOMINANT TREES: 65.6 cm Tsuga canadensis : years  
3.16000000000E+01 cm Quercus alba : years

CANOPY HEIGHT: 19.7 m % SKY VISIBLE: 2.0

## COMMENTS:

HYDROLOGY:

Site is very well drained.

SOILS:

The soils are deep and well drained, slightly stony with a well developed MOR humus.

HISTORY:

A barbed wire fence runs through the plot. There is a white pine plantation on the east side of the plot. This plot was probably pastured to the edge of the slope down to the creek. It does not seem that this slope has been logged for a long time, if ever.

STAND CONDITION:

There is a dense stand of Tsuga canadensis bordered by a Pinus strobus plantation stand. There are very few other tree species. Some blowdown trees are present.

ADDITIONAL COMMENTS ON THE SITE:

A creek runs just west of the plot. There is barbed wire in the plot. A white pine stand is partially in the east side of the plot. There are some OLD stumps in the plot which are difficult to tell whether they were cut or not. Some windthrown trees are present.

## 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
Tsuga canadensis	40	10.289	60	2.720	320	5.508	420	18.516
Quercus alba	120	6.966	20	0.412	0	0.000	140	7.378
Pinus strobus	60	4.587	40	1.765	20	0.335	120	6.687
Quercus prinus	0	0.000	20	0.567	0	0.000	20	0.567
Ostrya virginiana	0	0.000	40	0.623	20	0.667	60	1.290
Prunus serotina	20	0.603	0	0.000	0	0.000	20	0.603
Acer rubrum	60	3.316	40	0.543	20	0.308	120	4.167
Carya ovata	0	0.000	20	0.299	0	0.000	20	0.299
Carya glabra	80	2.748	0	0.000	0	0.000	80	2.748
Betula lenta	40	1.636	60	0.925	0	0.000	100	2.562
TOTALS:	DENSITY / HA		300		380		1100	
	BASAL AREA (M2) / HA		30.1458		7.8545		6.8172	
							44.8175	

**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
Tsuga canadensis	10	34	20	35	84	81	38	41	39.75
Quercus alba	29	23	7	5	0	0	13	16	14.59
Pinus strobus	14	15	13	22	5	5	11	15	12.91
Quercus prinus	0	0	7	7	0	0	2	1	1.54
Ostrya virginiana	0	0	13	8	5	10	5	3	4.17
Prunus serotina	5	2	0	0	0	0	2	1	1.58
Acer rubrum	14	11	13	7	5	5	11	9	10.10
Carya ovata	0	0	7	4	0	0	2	1	1.24
Carya glabra	19	9	0	0	0	0	7	6	6.70
Betula lenta	10	5	20	12	0	0	9	6	7.40

**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
Tsuga canadensis	12	2	3	2	0	0	0	1	66
Quercus alba	0	1	1	4	1	0	0	0	
Pinus strobus	1	0	2	1	1	1	0	0	
Quercus prinus	0	1	0	0	0	0	0	0	
Ostrya virginiana	1	1	1	0	0	0	0	0	
Prunus serotina	0	1	0	0	0	0	0	0	
Acer rubrum	3	0	1	1	1	0	0	0	
Carya ovata	1	0	0	0	0	0	0	0	
Carya glabra	0	1	3	0	0	0	0	0	
Betula lenta	3	1	0	1	0	0	0	0	
TOTALS	21	8	11	9	3	1	0	1	1

**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
Tsuga canadensis	0.0	0.00	0.0	0.00
Quercus alba	20.0	14.29	0.0	0.00
Pinus strobus	0.0	0.00	0.0	0.00
Quercus prinus	0.0	0.00	0.0	0.00
Ostrya virginiana	0.0	0.00	0.0	0.00
Prunus serotina	0.0	0.00	0.0	0.00
Acer rubrum	0.0	0.00	0.0	0.00
Carya ovata	0.0	0.00	0.0	0.00
Carya glabra	0.0	0.00	0.0	0.00
Betula lenta	0.0	0.00	0.0	0.00
TOTALS:	20.0	1.82	0.0	0.00

**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	
Tsuga canadensis	40	200	40	80	120	480
Pinus strobus	0	0	40	0	40	80
TOTALS:	40	200	80	80	160	560

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

SPECIES	DENSITY ( $\#/m^2$ )
Acer rubrum	0.250
TOTAL:	0.250

SHRUBS: Percent cover of shrub species within the stand.

SPECIES	% COVER
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TOTAL:	0.000

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

	% COVER
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Litter layer	81.875
Exposed soil	+
Exposed rock	+
Bryophytes	4.245
Lichens	2.995
Dead wood	4.750
Unknown seedlings	+
Tree boles	6.875
Tree root	+
Mitchella repens	+
Deadwood over	2.125
Carex sp.	+
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