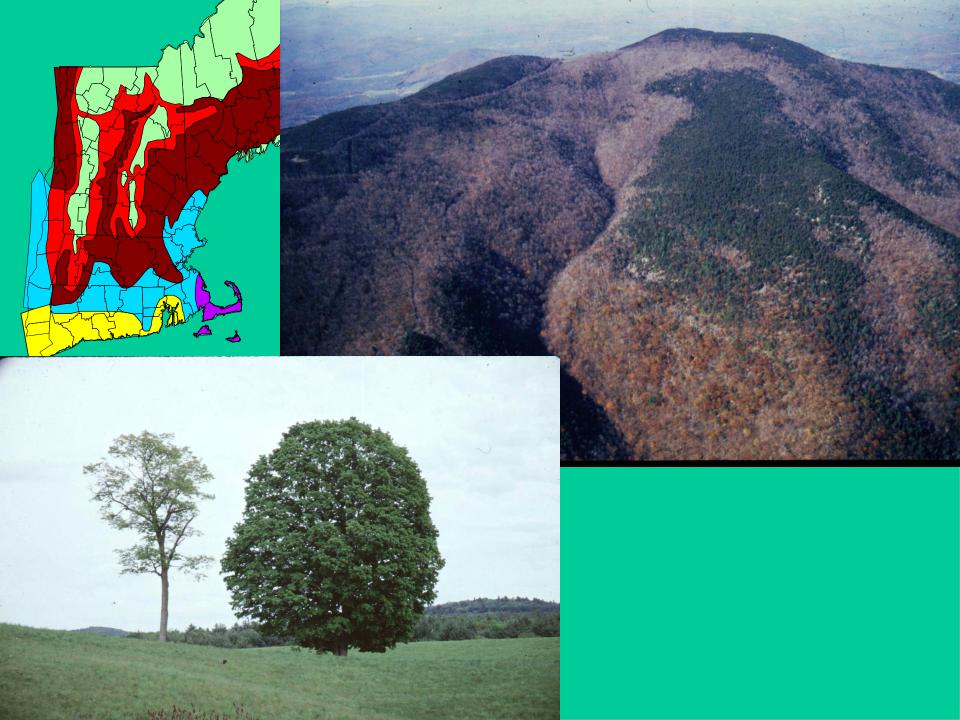
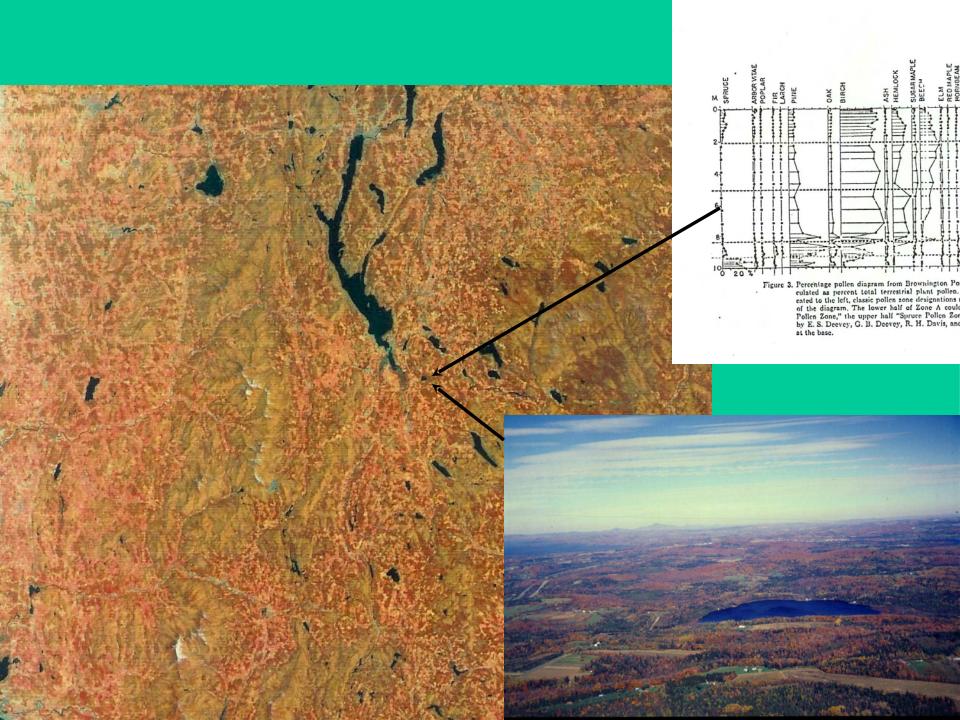
The Original Forests of Vermont



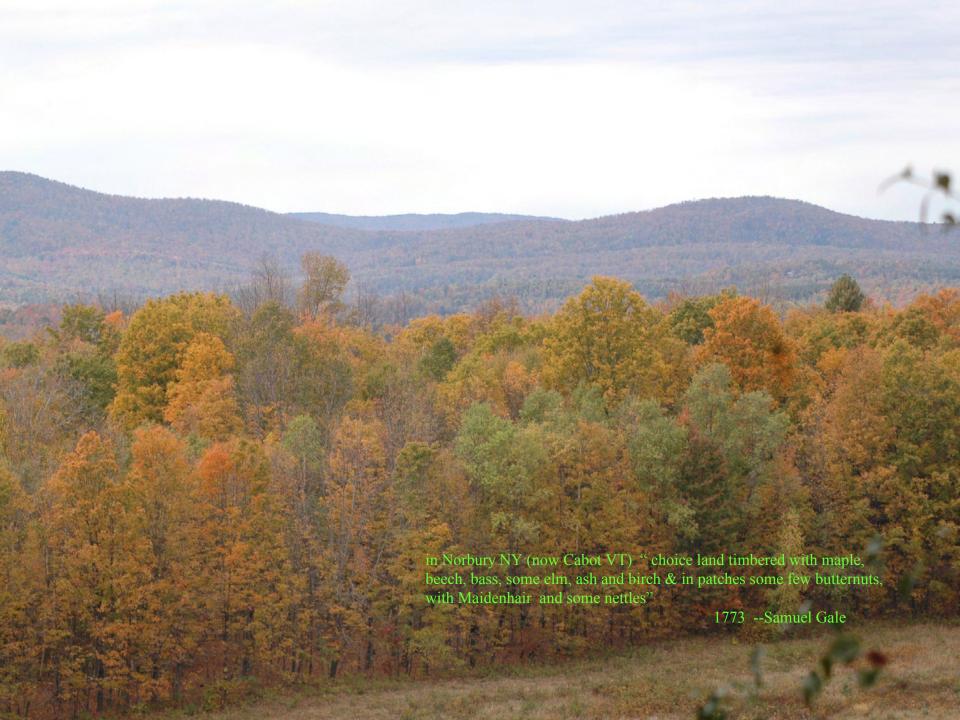












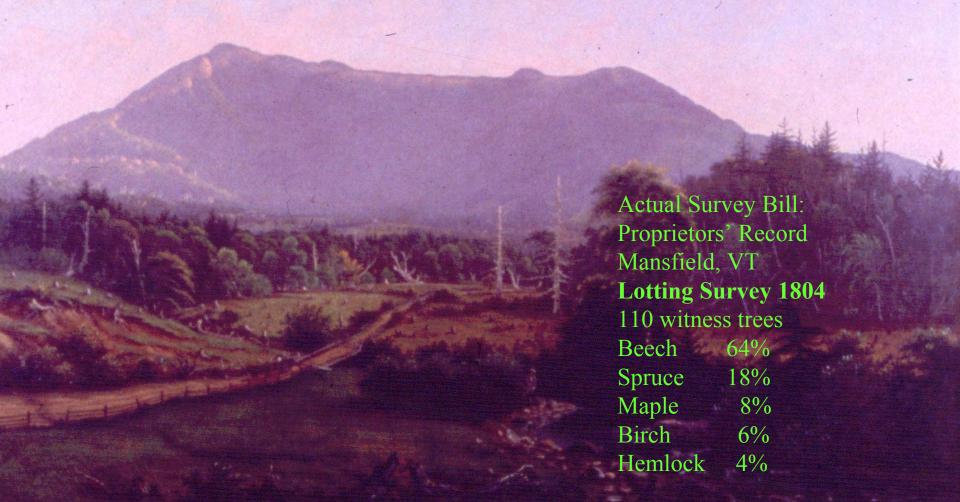






"... a difficulty arose in my mind, for my object was to sell out of Mansfield and if possible get the ninety pounds for the survey. A great proportion of the corners of said lots were made on spruce or of fir timber, and if I described them as such, it would show the poorness of the town. In my survey bills, I called spruce and fir gumwood, a name not known to the people of Sharon [Connecticut, proprietors]"...

1773 Ira Allen, Autobiography



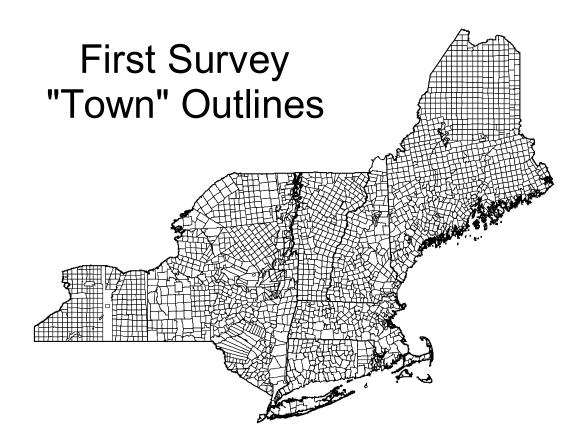


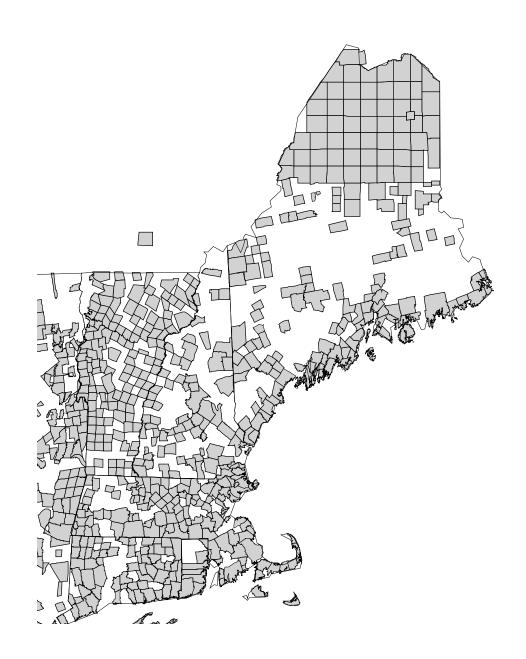
Survey of Charlotte Town Lots within lot 54 1st Division 1785-86 188 witness trees Beech 40% 17% Maple -- 2/34 "white maples" Hemlock 12% Pine 9% -- all "white" 7% Ashes -- both "white" and "red" Oaks 5% -- all "white" Basswood 3% 3% Burch Witch Hasle 3%

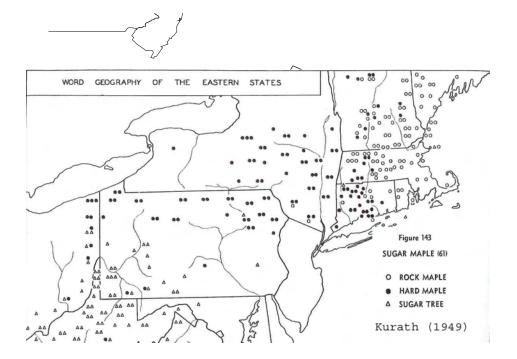
-- {ironwood}

1%

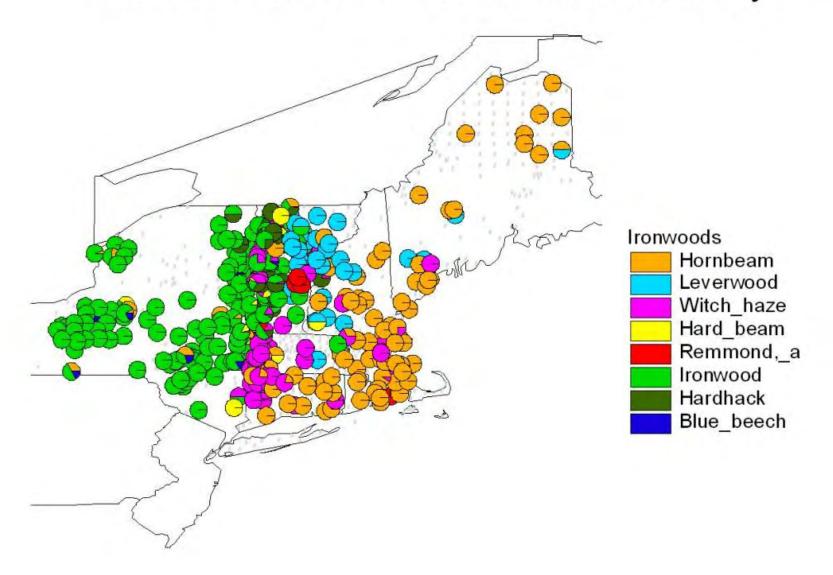


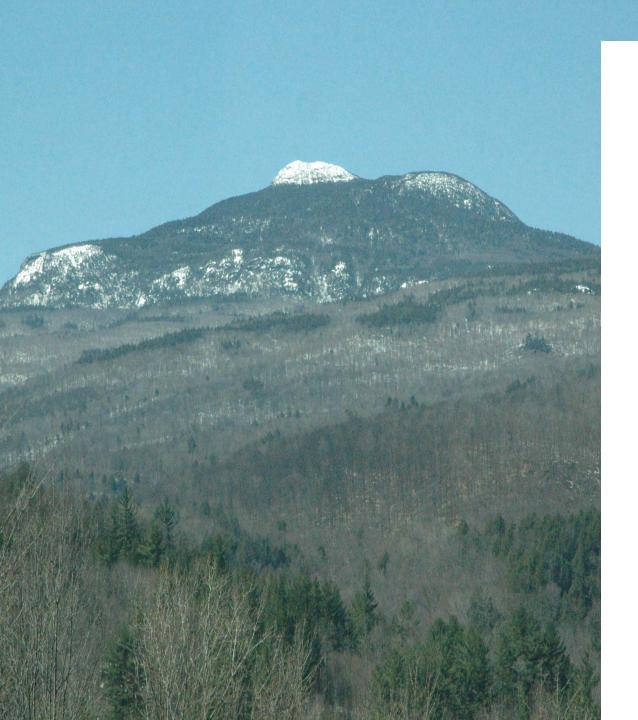






# Ironwood Names in Presettlement Surveys





#### Vermont Original Forest Composition

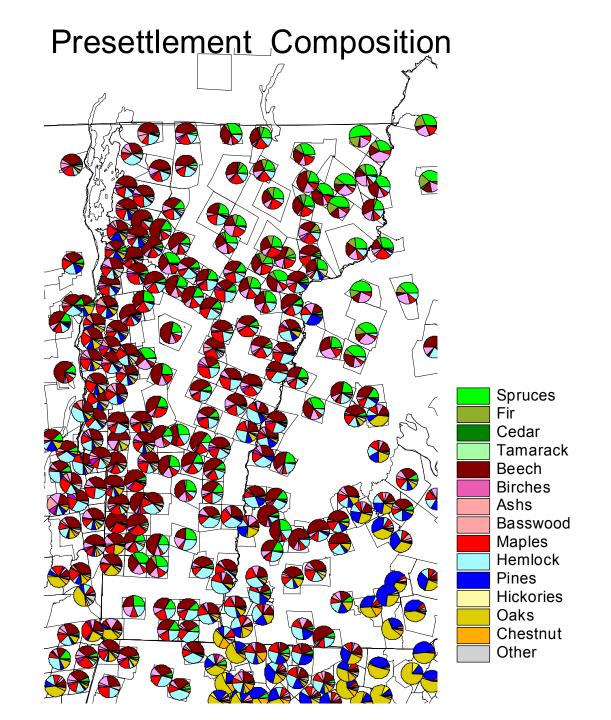
Presettlement

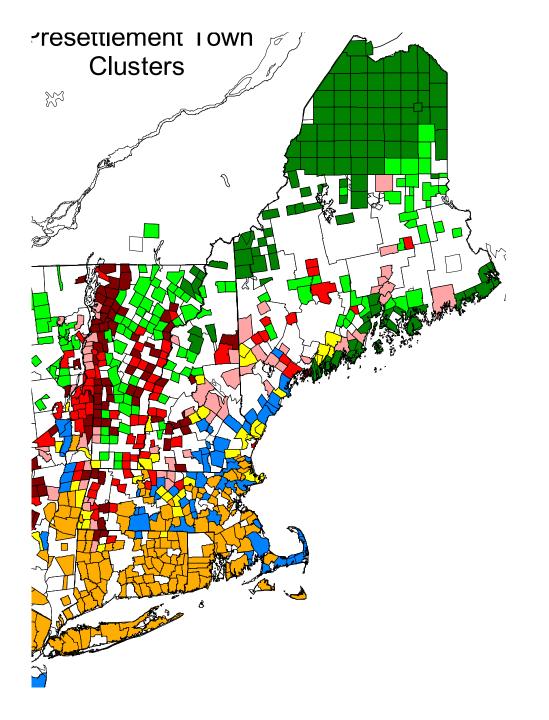
ca. 1800

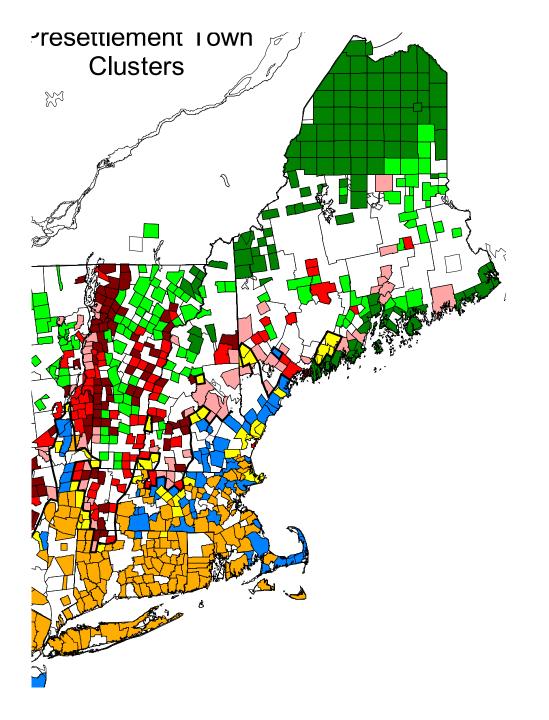
138 towns

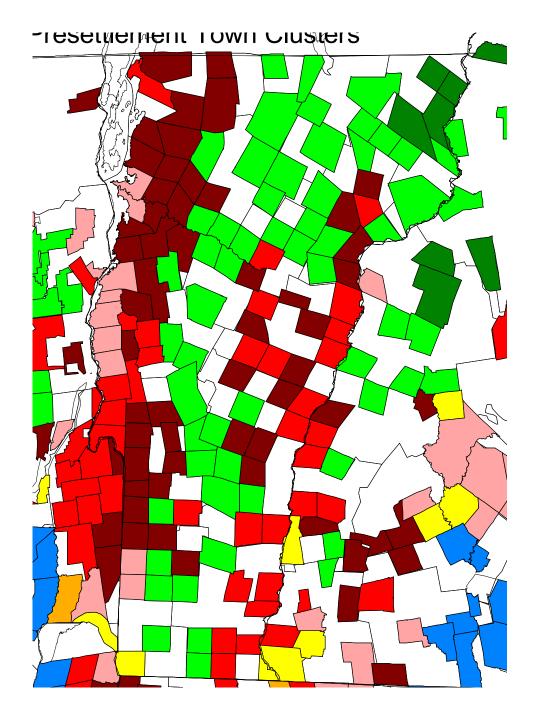
34052 trees

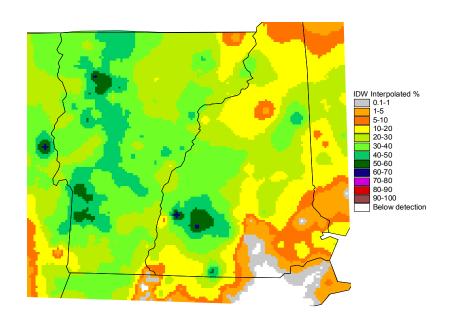
Beech	34.0%
Maples	15.4%
Hemlock	13.4%
Spruces	10.8%
Birches	8.7%
Ashes	2.6%
Oaks	2.6%
Pines	2.5%
Fir	2.2%
Ironwoods	2.0%
Basswood	1.8%
Elms	1.5%
Cedar	0.7%
Juglans	0.3%
Hickories	0.3%
Poplars	0.3%
Chestnut	0.3%
Cherries	0.2%
Tamarack	0.1%
Buttonwood	0.0%
Nyssa	0.0%

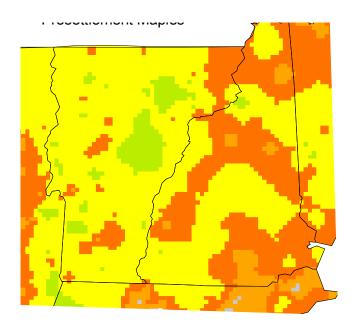


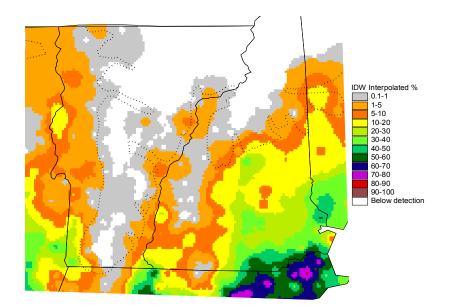


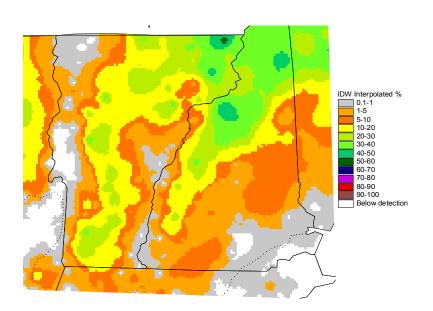


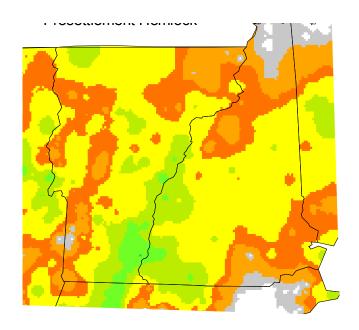


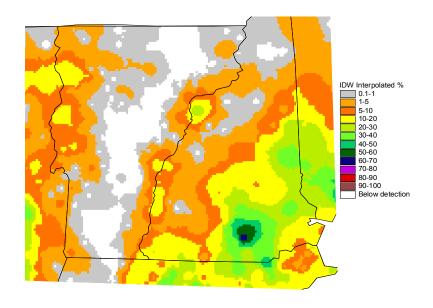


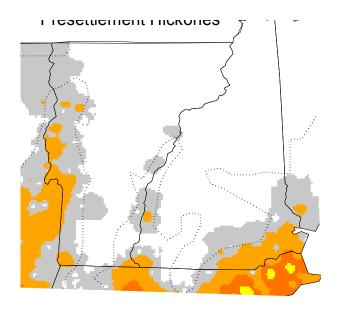


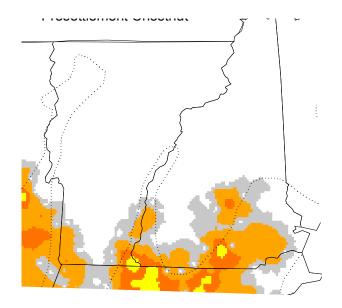






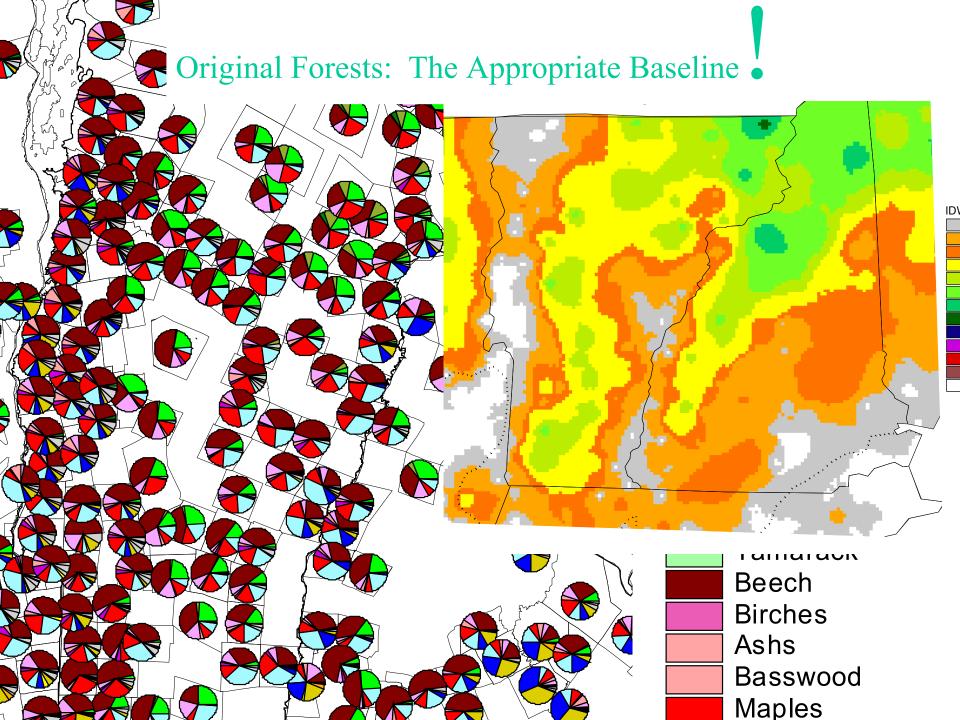










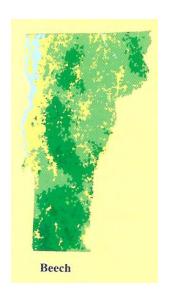


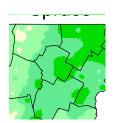
#### Change of Forest Composition in Vermont

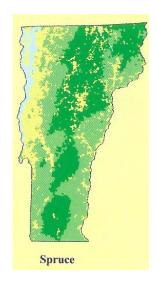
	Presettlement	FIA	Change	
	ca. 1800	1997	Del	
	138 towns	all	Ratio	
	34052 trees	??	1997/1800	
Cherries	0%	4%	22.1	
Poplars	0%	2%	7.1	
Fir	2%	12%	5.4	
Maples	15%	33%	2.1	
Cedar	1%	1%	1.9	
Ironwoods	2%	4%	1.8	
Ashes	3%	3%	1.3	
Tamarack	0%	0%	1.3	
Birches	9%	11%	1.3	
Hickories	0%	0%	1.0	
Pines	2%	2%	1.0	
Spruces	11%	7%	0.7	
Elms	2%	1%	0.4	
Hemlock	13%	5%	0.4	
Oaks	3%	1%	0.4	
Beech	34%	10%	0.3	
Juglans	0%	0%	0.1	
Basswood	2%	0%	0.1	
Chestnut	0%	0%	0.0	
Buttonwood	0%	0%	0.0	
Nyssa	0%	0%	0.0	

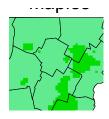
## Forest Composition ca. 1800 $\rightarrow$ 2000



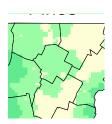






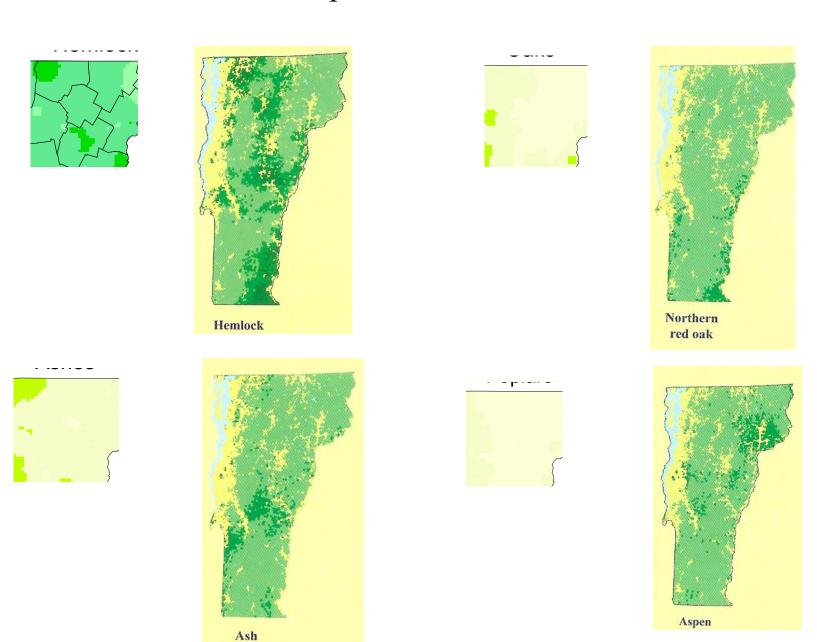




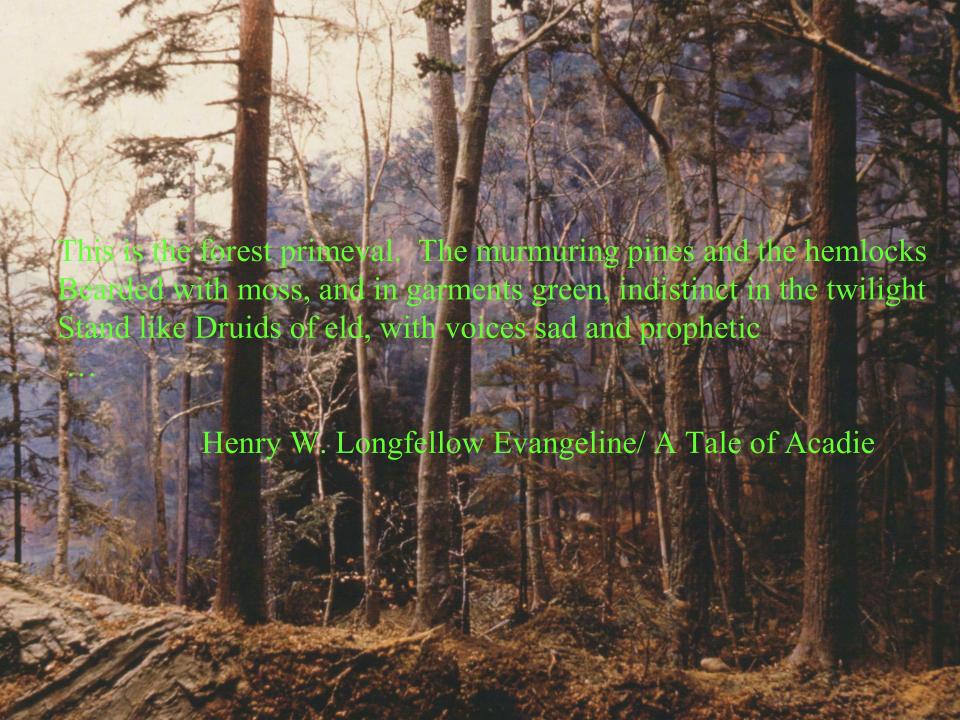




## Forest Composition ca. 1800 → 2000





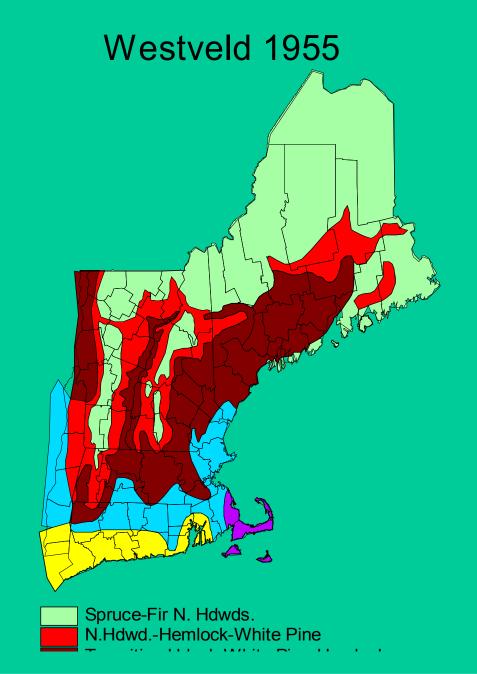


This is the fores

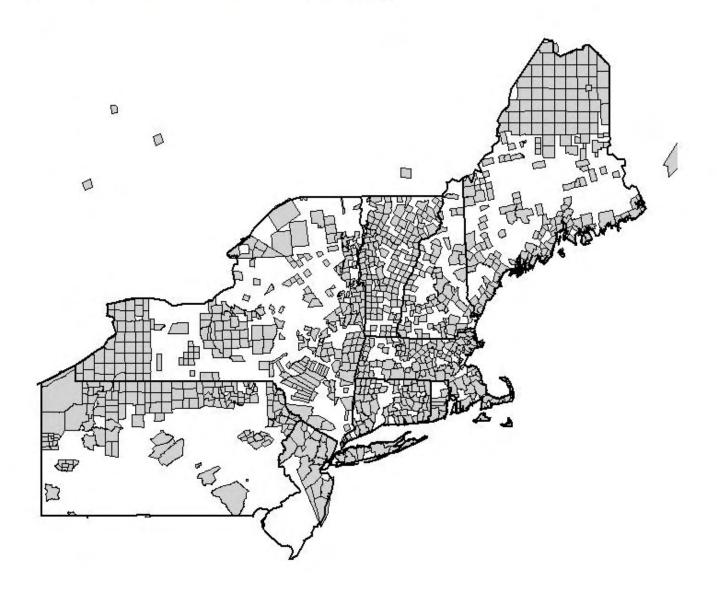
+1200 lines.

Still stands the forest primeval; but under the shade of its branches Dwells another race, with other customs and language.

-- Henry W. Longfellow Evangeline/ A Tale of Acadie.



# Town-wide Presettlement Surveys



## **Chittenden County Historical Land Use**

	% in forest	% in farms		
1770	98%	0%		
1850	48%	82%		
1860	43%	82%		
1870	35%	13%		
1880	21%	100%		
1997	85%	??		
always open 2%				
always woodland 0%				
always woodlot 5%				
reforested	19%			
reforested	37%			
maintained	37%			

## **Vermont Historical Land Use**

%	in forest %	in farms					
1770	98%	1%					
1850	56%	70%					
1860	52%	72%					
1870	47%	31%					
1880	43%	82%					
min: 42%							
1997	78%	??					

## **Historical Use and Legacy**

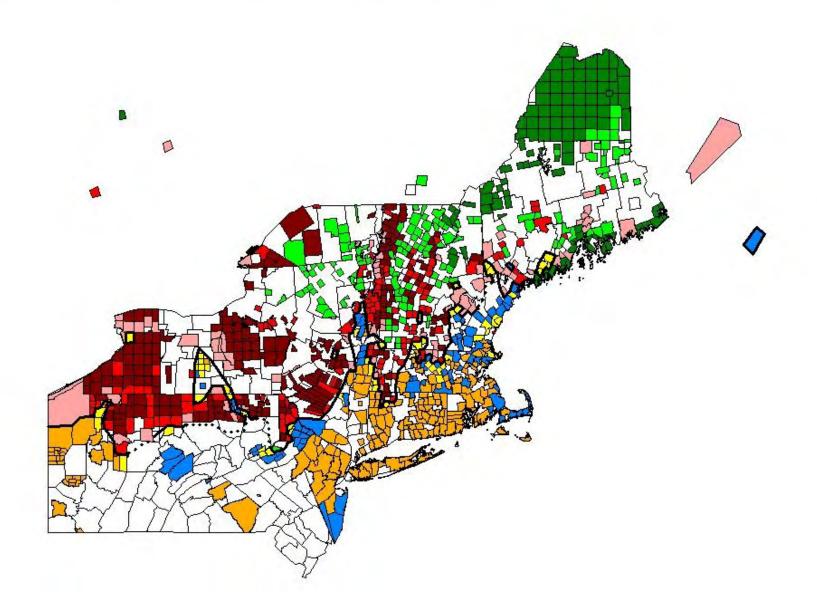
assume: originally open 2%

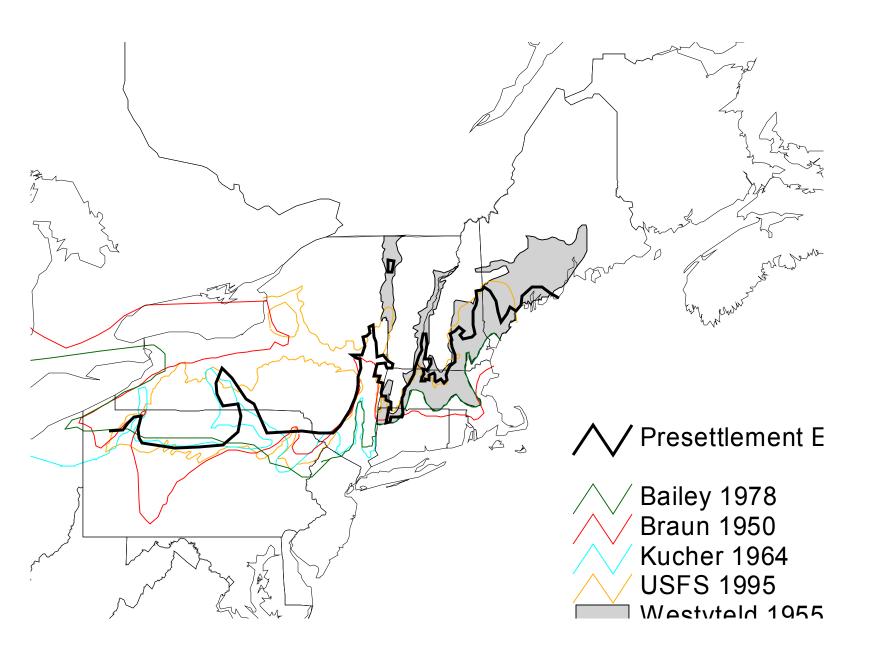
maintained open is complement of today forested less wetlands etc. always woodland resid of max farm ownership always woodlot half of min woodlot for conversion to open/developed reforested till is residual of improved farmland reforested pasture is 80% of the max cultivated times the tilled ratio

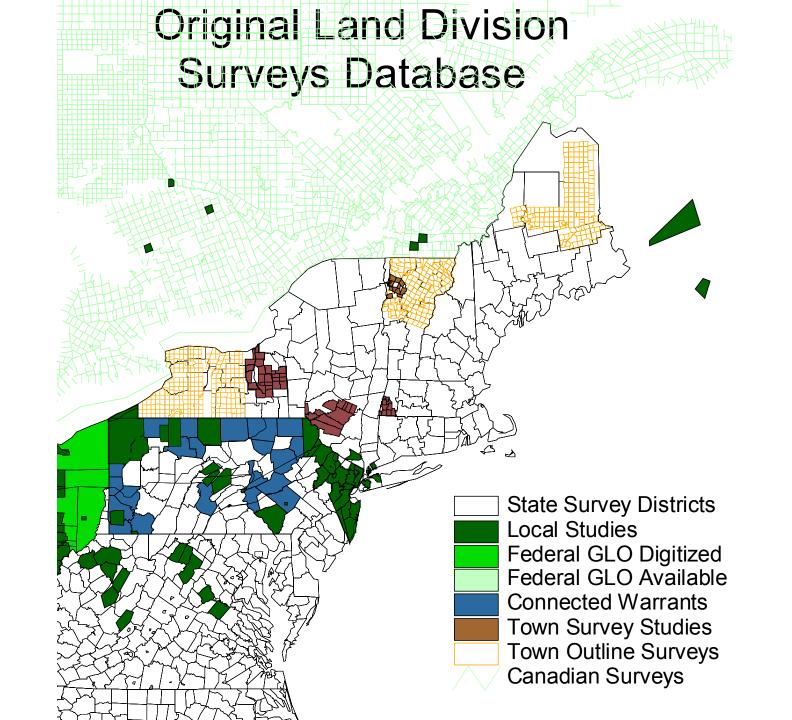
always open	2%
always woodland	18%
always woodlot	12%
reforested tilled land	23%
reforested pasture	26%
maintained open	20%

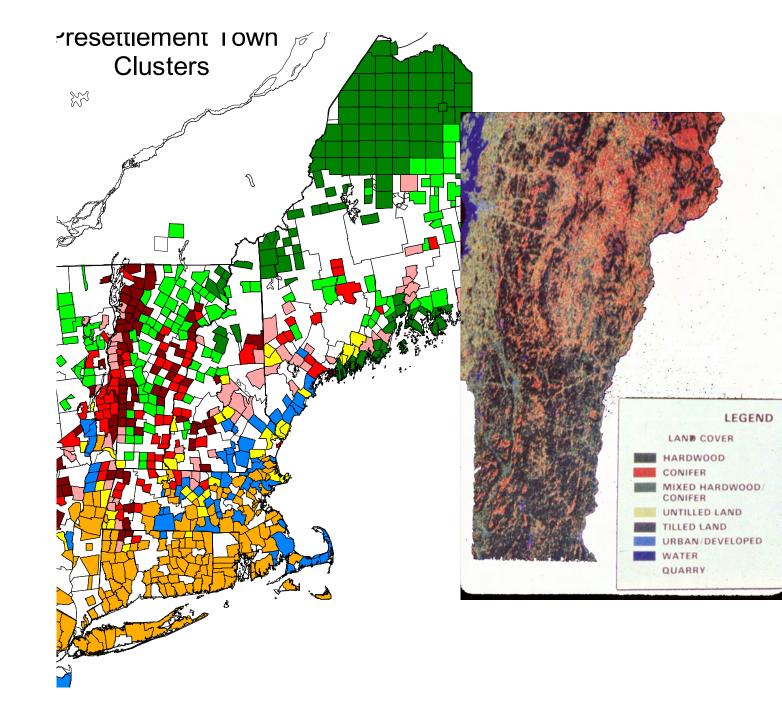
Town-wide	witness tree	surveys tallied ir	n Northeastern :	states	
Region	Towns	Trees	Trees/Town		
ME	186	22,505	121		
NH	66	21,110	320		
VT	137	34,014	248		
MA	117	52,427	448		
CT-RI	69	47,258	685		
NY	271	56,776	210		
PA	144	32,278	224		
All	1015	271,573	268	37 ha/tree	
	49%	lotting surveys			
	14%	connected warra	ants		
13% 12% 8% 2% 1%	13%	outline surveys			
	12%	combination of surveys			
	8%	deeds			
	2%	road surveys			
	freq of mentions				

## Presettlement Town Clusters



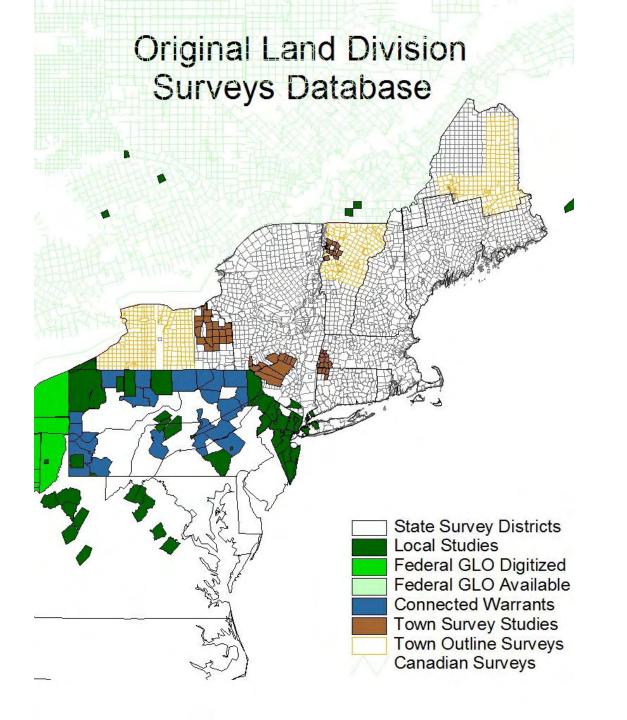




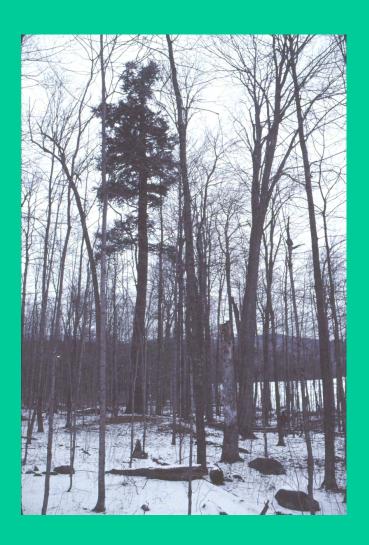






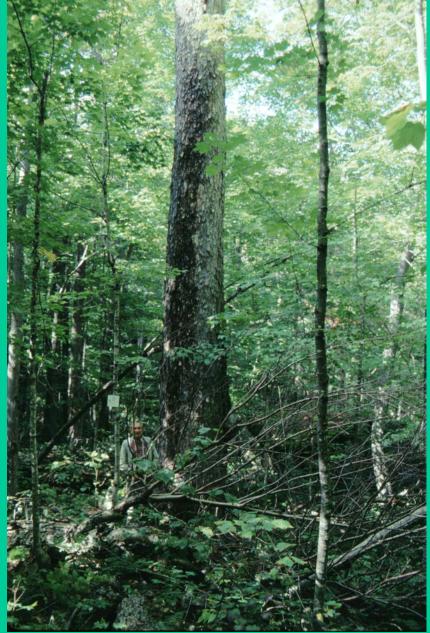


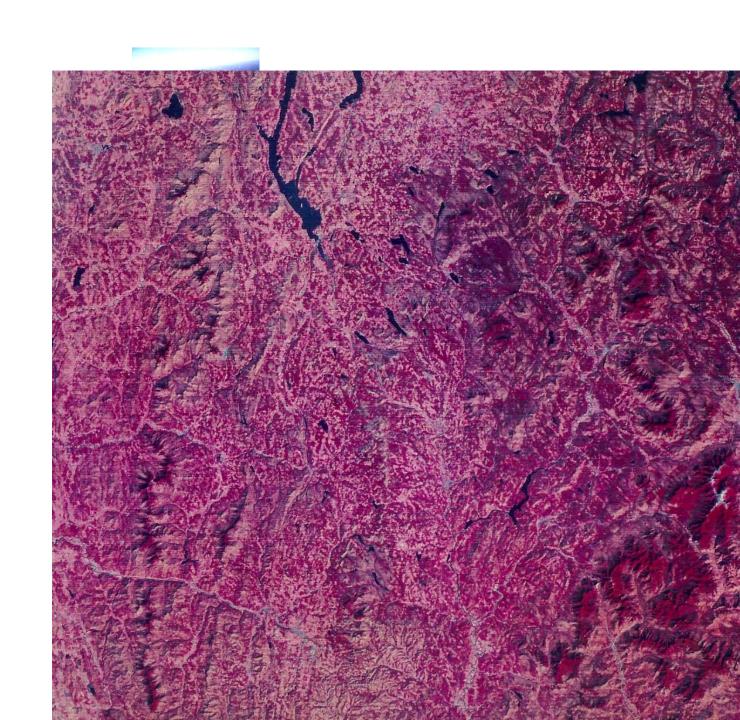




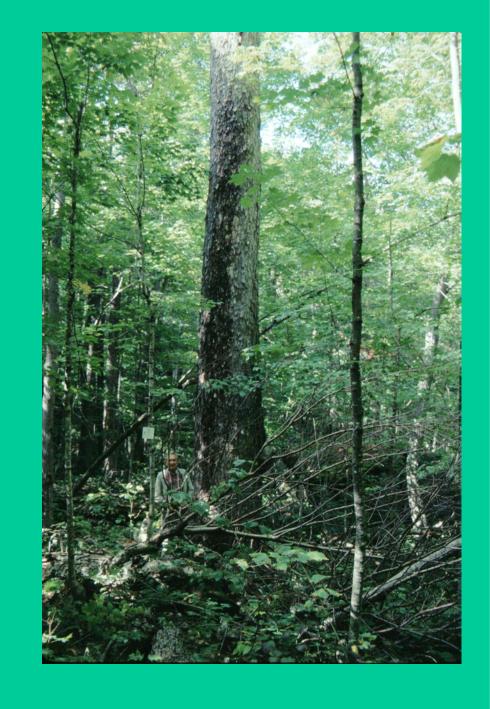


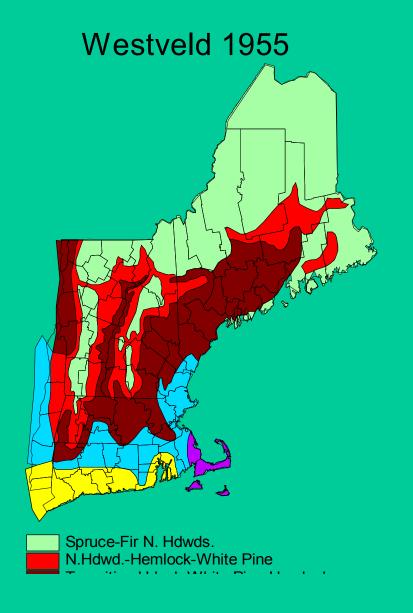


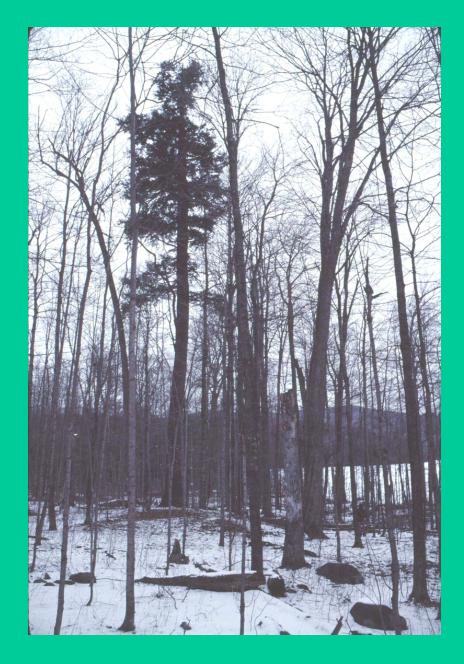














between Guilford and Whitingham VT "The land mountainous...the timber it produces beech, Maple, Hemlock, & Some Chestnut.... exceeding good and covered with Beach, Maple, Chestnutt &c. ...the Pigeon's nests were so thick that 500 might have been told on the beech (&) Hemlocks as well." 1741 --Richard Hazzen

in Norbury NY (now Cabot VT) "choice land timbered with maple, beech, bass, some elm, ash and birch & in patches some few butternuts, with Maidenhair and some nettles" 1773 --Samuel Gale

between Fairhaven and Rutland VT "The timber here is chiefly Hemlock--Pine--Spruce--Beech--Poplar--Sugar Maple, &c-- no Oak." and later on Pico Peak VT "the Hemlock & Spruce towards the top of a cripply growth, being depressed by heavy snows & cold & very difficulte to come through." 1807 --Frederick Pursh



