



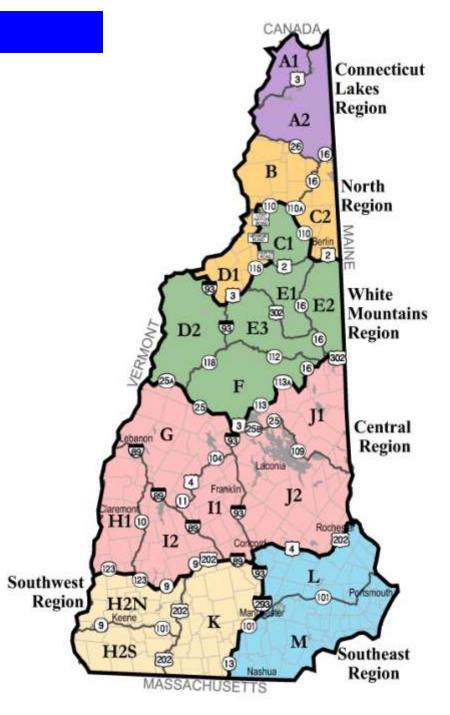


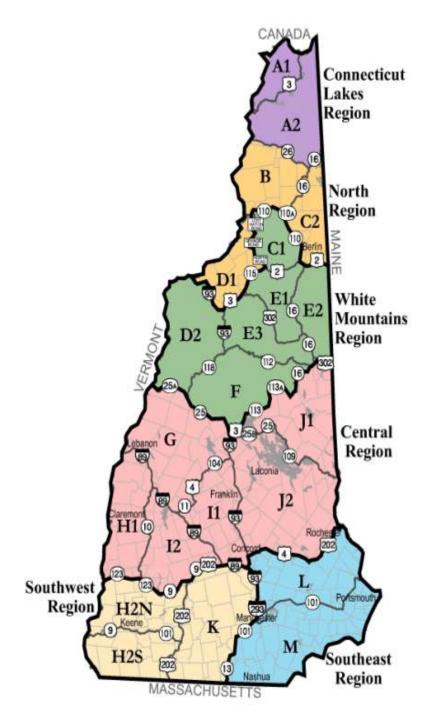




2012 EST DEER/MOOSE DENSITY

Regions	Deer/Mi ²	Moose/ Mi ²
Ct Lakes	8	2.23
North	7	1.45
W. Mt.s	6	0.52
Central	11	0.32
S. West	16	0.25
S. East	24	0.14





DEER HUNTER MAIL SURVEY

REGION	GOAL	CURRENT LEVEL*
CT. LAKE	7.40	7.22
NORTH	6.00	4.74
W MTN	3.00	1.36
CENTRAL	1.50	0.99
SW	1.30	0.83
SE	0.50	0.37

^{*} Moose seen per hundred hunter hrs, 2010 - 2012

Connecticut Lakes Region A2 North Region White Mountains D2 Region Central Region H1 10 Southwest Region H2N Keene H2S Southeast Region

Deer Hunter Mail Survey Data

REGION	Adult Bulls/ Cow	% Calves
CT. LAKE	0.68	17
NORTH	0.92	15
W MTN	0.55	21
CENTRAL	0.67	20
SW	0.62	19
SE	0.64	26



- 92 collared animals
- Adult cows and calves
- -A annual survival 0.87
- -c annual survival 0.45



WINTER TICK

41% - 49% all mortalities 75% occurs in April 88% composed of calves

Problems Associated with Winter Tick



Elevated spring mortality

Lower body weights = lower herd fecundity.

Influenced by moose density and weather

Need early snow and late springs to reduce ticks loads

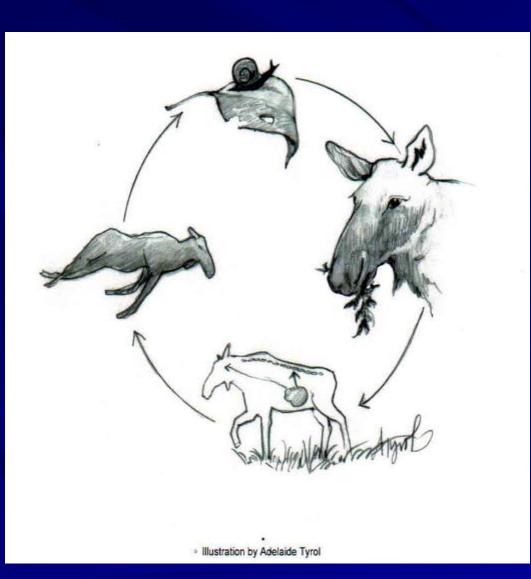
Brain Worm

?



- -Statewide
- -See most often in Central region
- -Seen least in SE region

P. tenuis Life Cycle

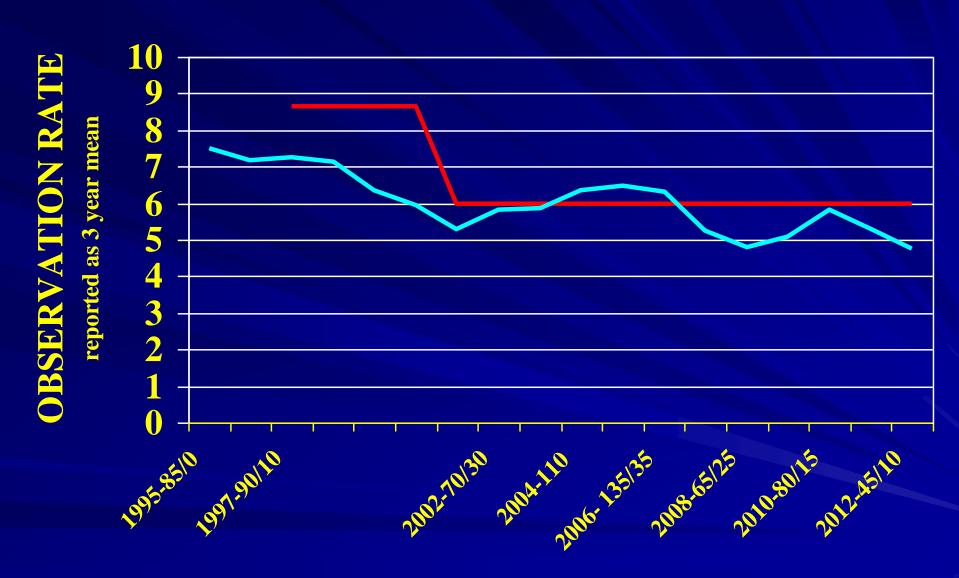


- Moose are an incompatible host.
- Present in areas with moderate to high deer densities.
- Wet conditions that favor snails and other gastropods increase spread of the disease.

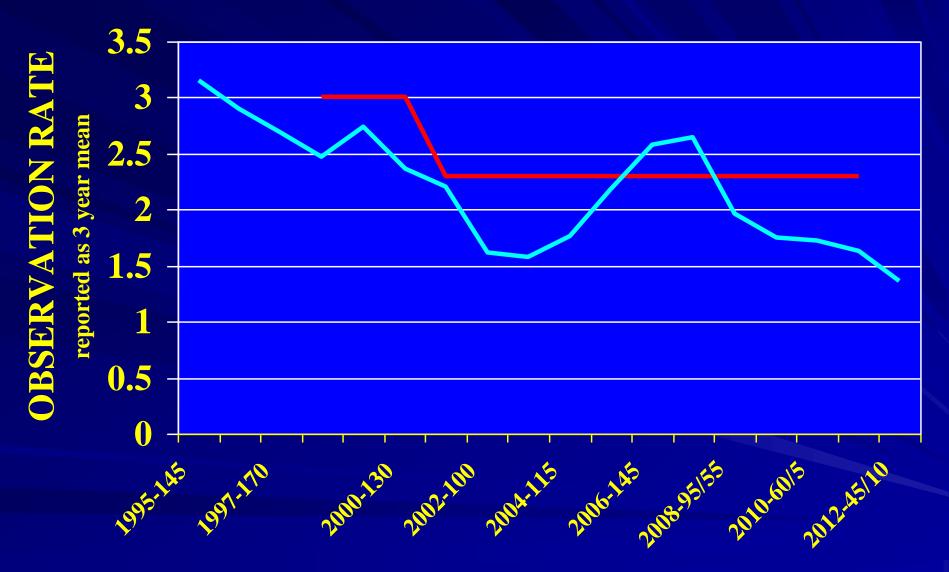
Ct. Lake; A1, A2



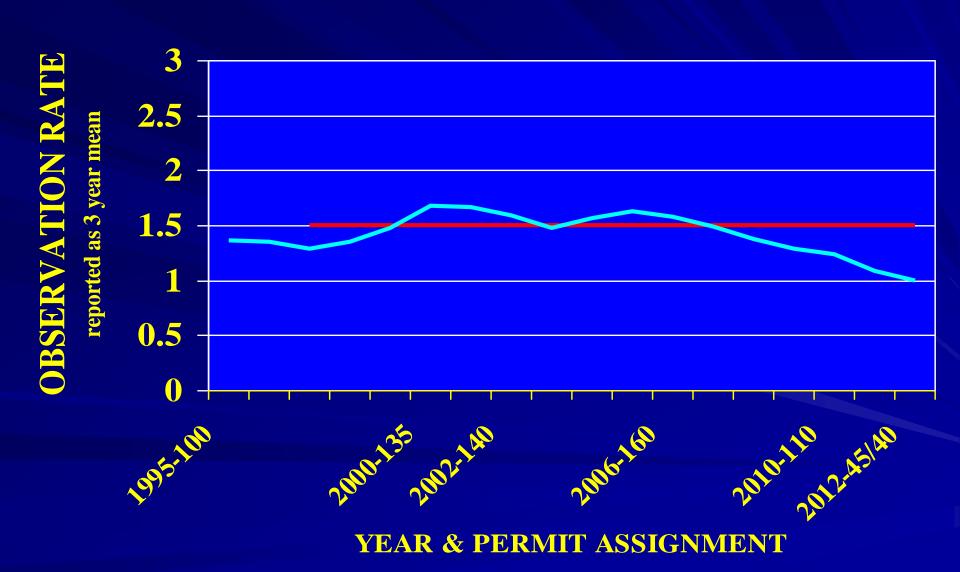
North; B, C2, D1



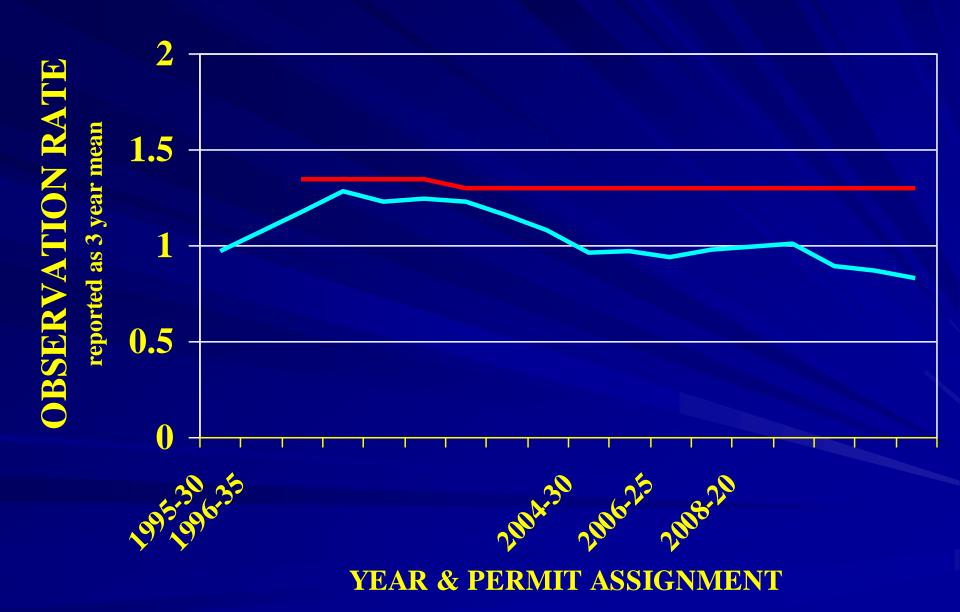
W. Mtn.; C1, D2, E1, E2, E3, F



Central; G,H1,I1,I2,J1,J2



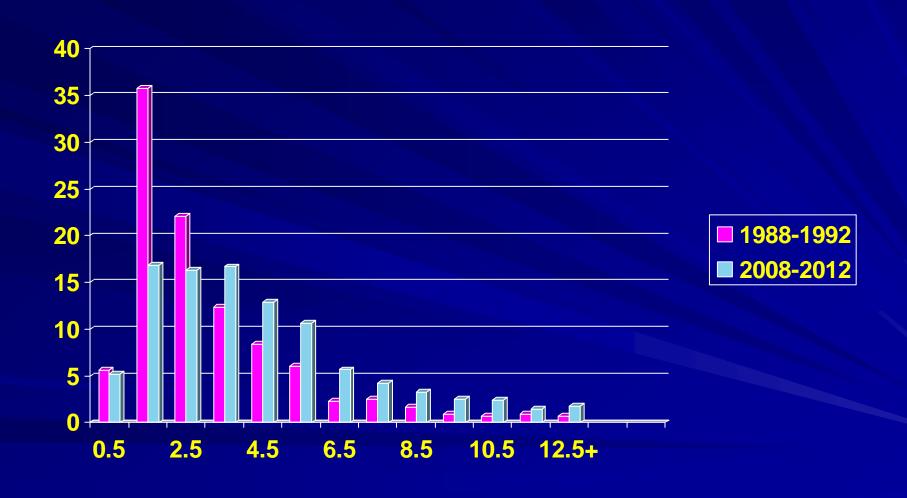
SouthWest; H2N, H2S, K



SouthEast; L, M

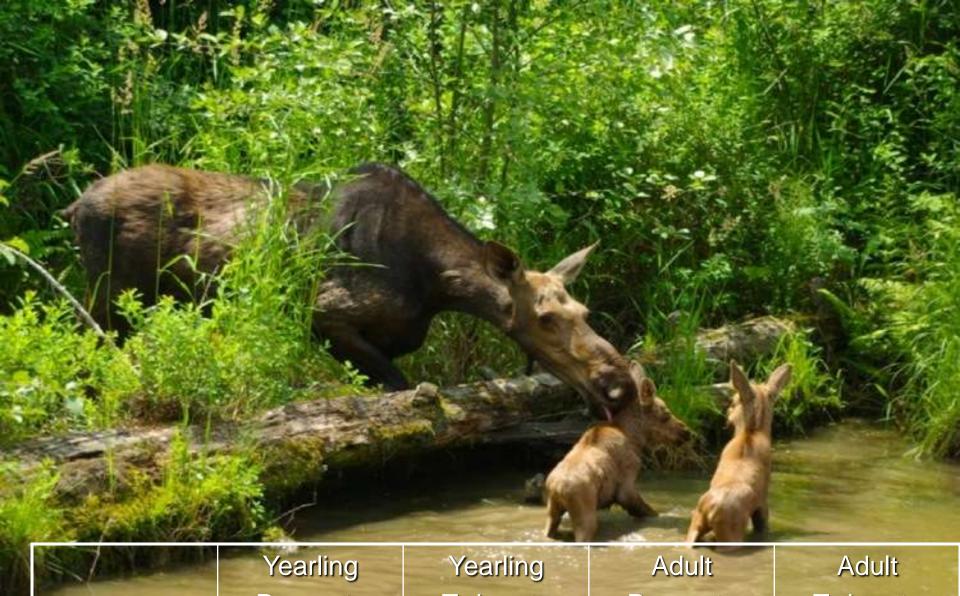


Age Structure as Percentage



COW WEIGHT; CT LAKES





The last service of the la	Yearling	Yearling	Adult	Adult	
	Preg rate	Twin rate	Preg rate	Twin rate	
1988-1992	82	44	100	52	
2008-2012	27	8	81	18	



- Stocking rate of commercial tree species acceptable in all regions –% trees w/ severe damage in single digits with one exception growth rates were slower at higher
- moose densities
- Small mean annual home range (24.6 km²), coupled with high overlap of seasonal HR and core areas, suggest habitat is not limiting.
- Lack of preferred habitat use and similar habitat use by barren and maternal cows suggest high habitat heterogeneity, quality & forage availability.
- HSI models suggest current estimated densities are below carrying capacity





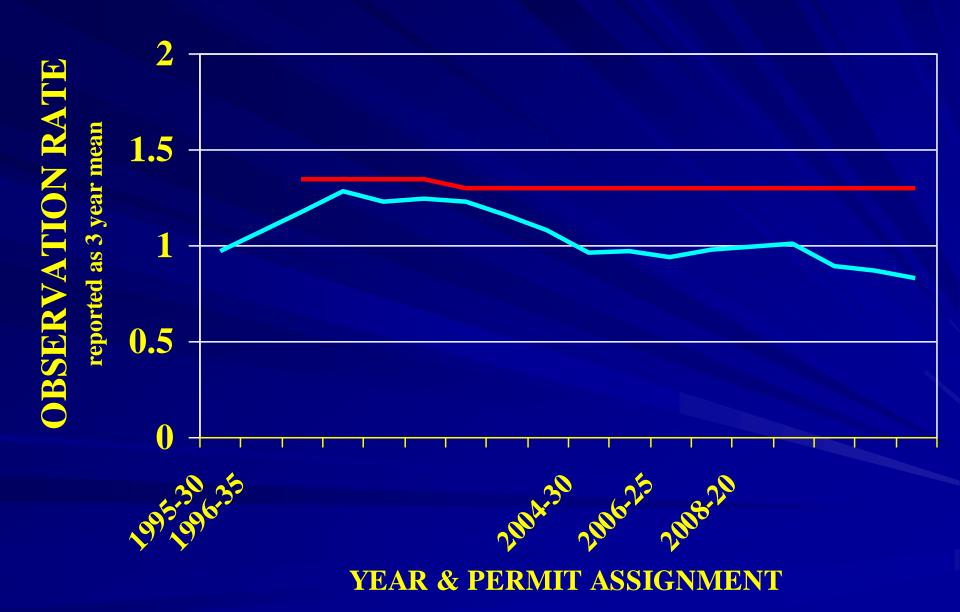


- Severe browsing was site-specific (only 2.6% of clear-cuts) and likely influenced by proximity to winter habitat.
- Severe browsing may shift local species composition in favor of softwood.
- ** Interestingly, CT Lakes Timber is no longer the landowner! On average, commercial forests in New England now turn over in <10 years. Cooperative management programs are inherently more difficult.**



	49%		
	87%		
	71%		
	85%		

SouthWest; H2N, H2S, K



SouthEast; L, M

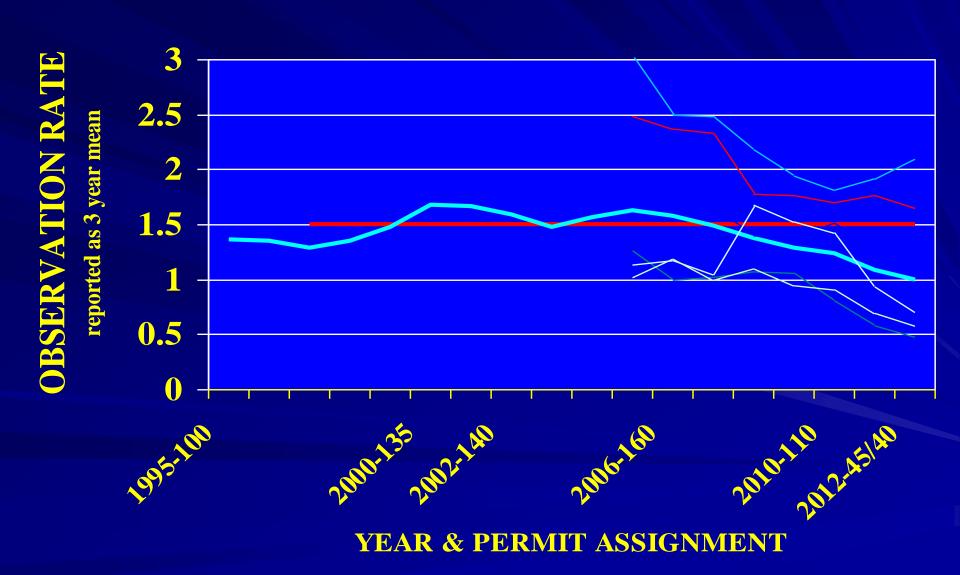




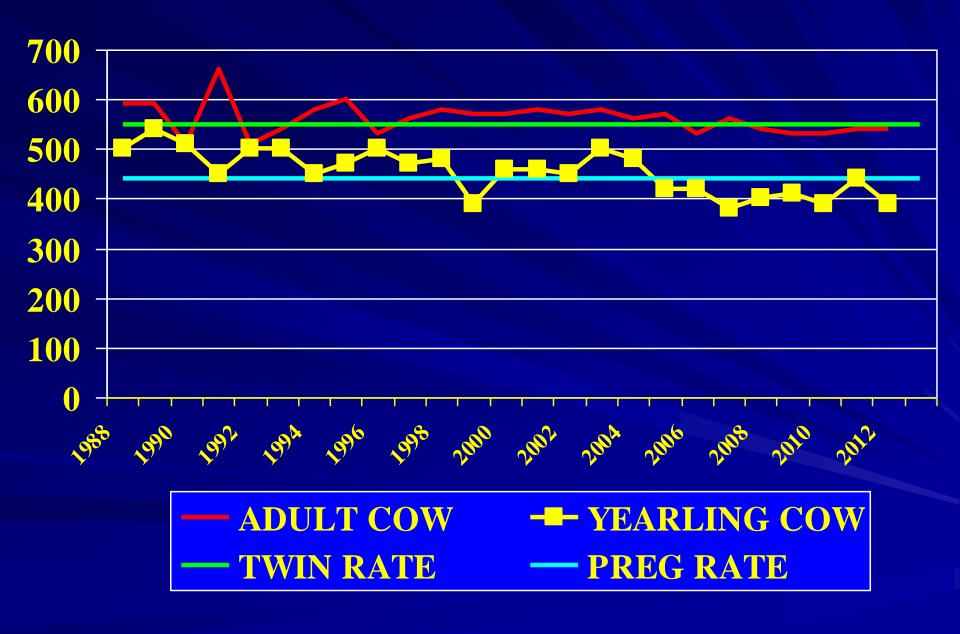
Ct. Lake; A1, A2



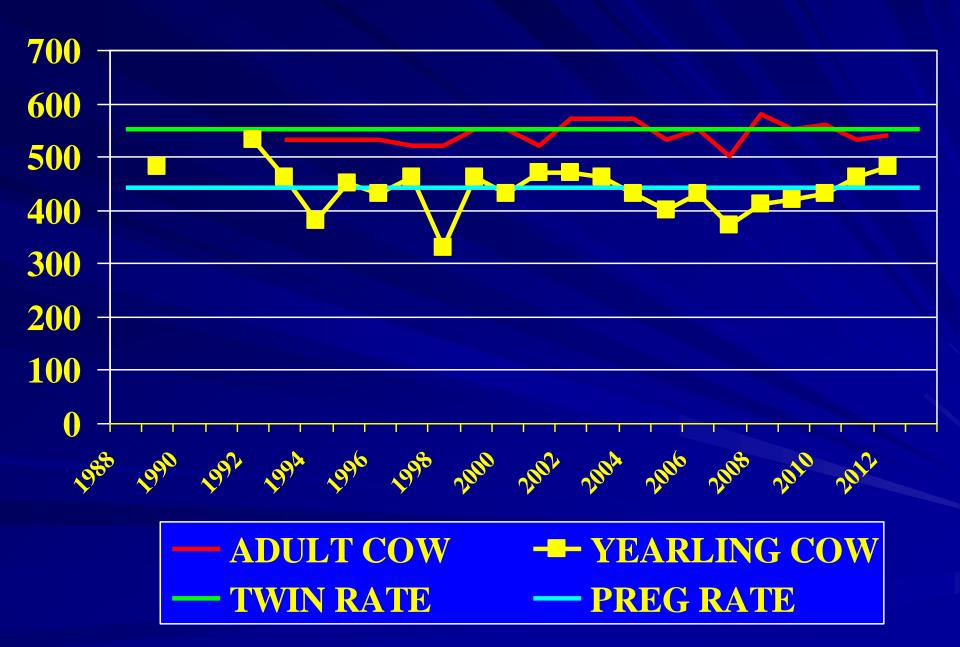
Central; G,H1,I1,I2,J1,J2



COW WEIGHT: W MTNS



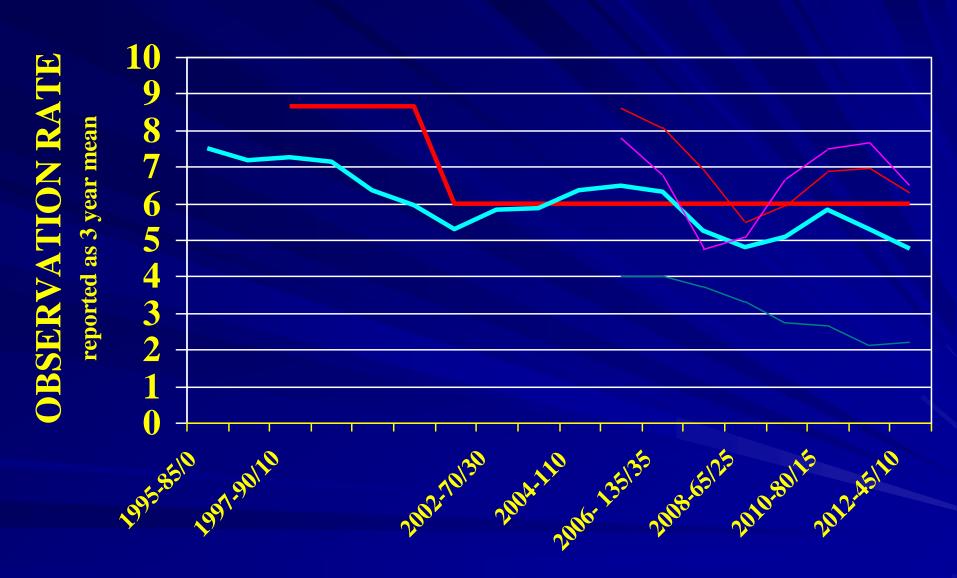
COW WEIGHT: CENTRAL



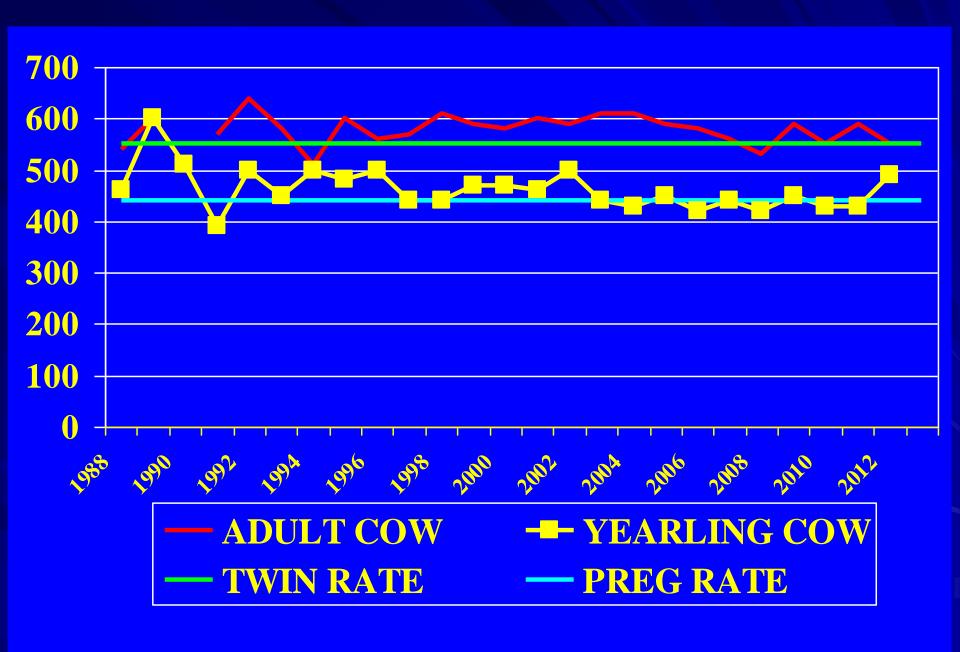
Some Negative Factors Effecting New Hampshire's Moose Herd

- Parasites
 - Winter Tick: <u>Dermacentor albipictus</u>
 - Brain worm: Parelaphostrongylus tenuis
- Environmental stresses
 - Heat Stress
 - Begins in winter above 23 degrees F.
 - Begins in summer above 57 degrees F.
 - Active panting occurs at 68 degrees.
 - Remain bedded, stop eating at 79 degrees
 - Shorter winters

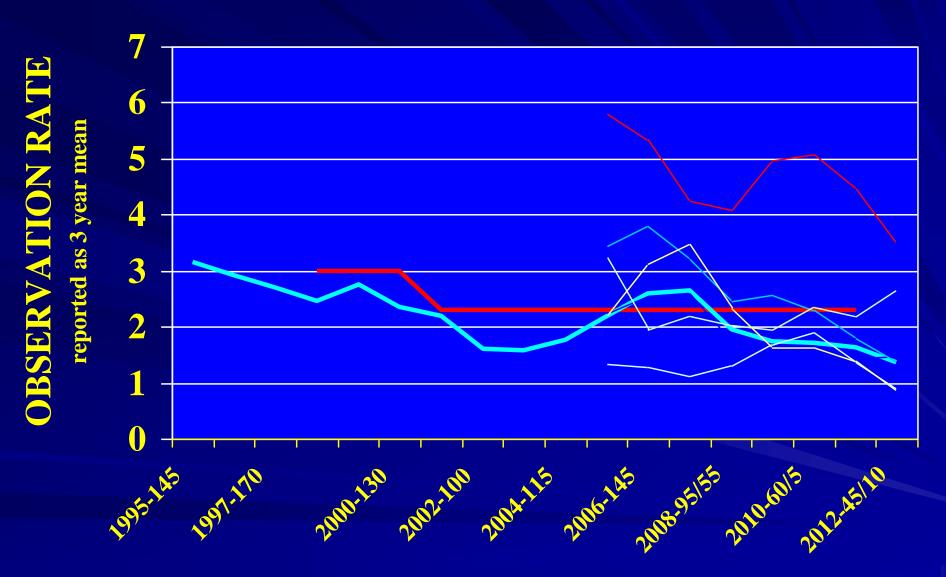
North; B, C2, D1



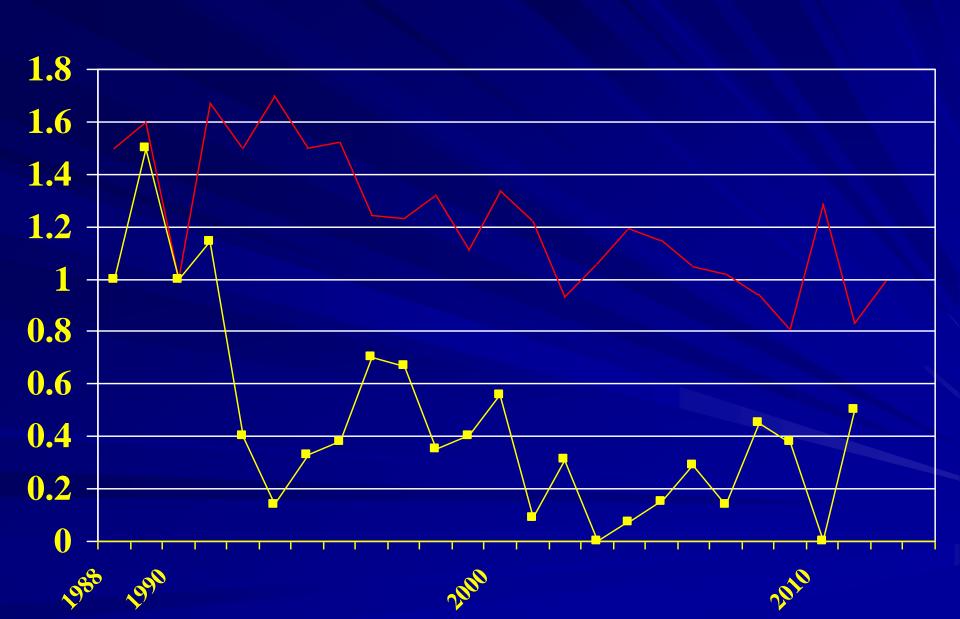
COW WEIGHT: NORTH



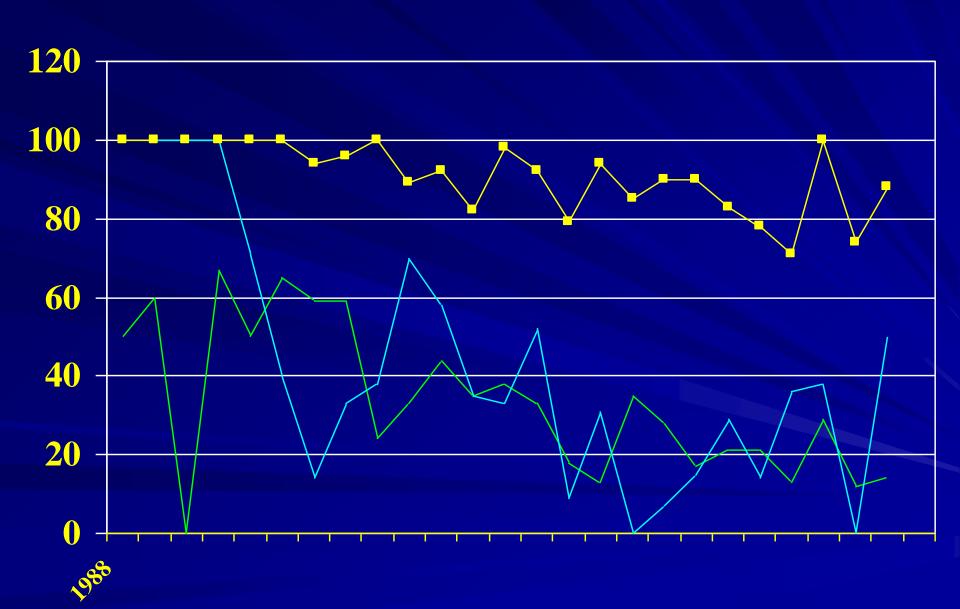
W. Mtn.; C1, D2, E1, E2, E3, F



COW CL CT LAKES



A & Y preg & A tr: CT LAKES



2012/2013 MOOSE SEASON PROPOSAL

	2012/2013	2013 PROPOSAL
	SEASON	ES-AO
	ES-AO	
Ct. Lakes	25-20	25
North	40-10	40
W. Mtns.	45-10	45
Central	45-40	45
S. West	20	20
S. East	20	20
Statewide Total	195-80	195

