



The Rut (mid-Sept to mid-Oct)



Moose Diets

Mainly browse – annual growth and buds of trees

- Maple, Birch, Aspen, Mountain Ash, Balsam Fir are preferred species
- Other hardwoods
- 40-60 lbs./moose/day

Aquatic Plants in Summer

 Water Lilies, pondweeds, sedges, horsetail





Seasonal Habitat Use



Wetlands and riparian areas during the summer for aquatic vegetation, insect relief, and thermoregulation during warm periods.

In winter and spring, moose rely on coniferous habitats for thermoregulation. Moose are well-adapted for cold temperatures, but can overheat during warmer periods.



History

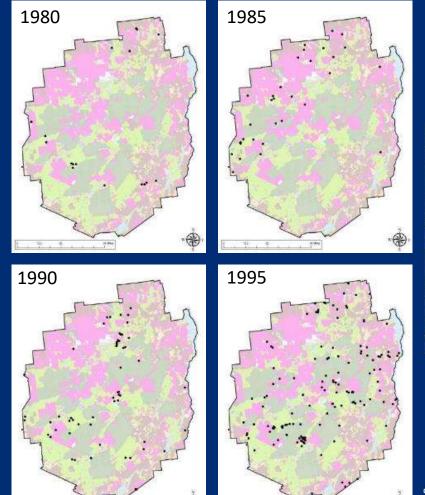
 Moose were extirpated from NY in 1892

 Similar to other species during this time, likely due to a combination of unregulated hunting and large landscape changes that altered the wildlife community



Moose Recolonization

- Moose begin recolonizing
 New York in 1980s from New
 England and southern
 Canada
- 1989: ESF M.S. student Dale Garner completes study on the feasibility of moose translocation to the Adirondacks
- Public rejects DEC proposal in the 1990s to augment the population and favors natural recolonization and continued population monitoring
- 1990-2014; opportunistic sightings and collaring (A.Hicks)

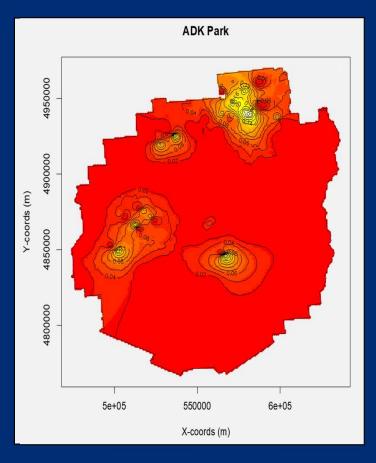


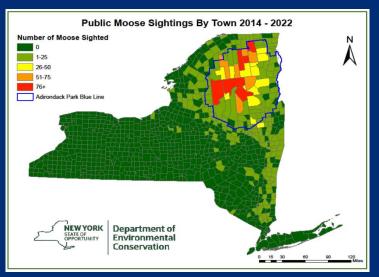


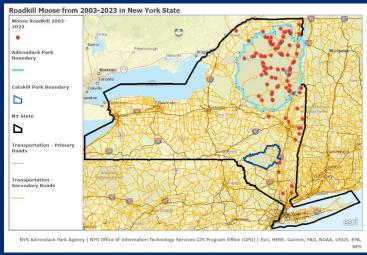




Where are they?







W YORK
TE OF
ORTUNITY

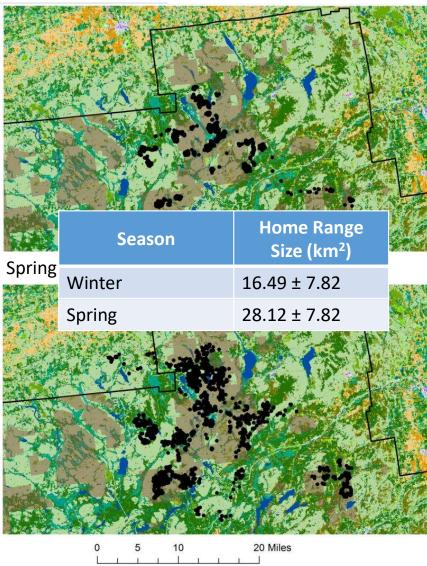
Department of Environmental Conservation

Moose Spatial Patterns

| Land Use | Winter | Spring |
|-----------------------|--------|--------|
| Private | 88% | 82% |
| Public | 12% | 18% |
| Conservation Easement | 76% | 64% |
| Deciduous Forest | 77% | 65% |
| Evergreen Forest | 12% | 20% |
| GPS fixes | 8136 | 9080 |

High use of previously cut, regenerating hardwoods on conservation easements

Winter: Jan 24 – Mar 23, 2015



How many?

Two survey techniques tested

- Helicopter surveys (efficient protocol developed & adopted)
- Scat detection dogs (found to be inefficient & inconclusive)

~716 Moose (95% 566-906) w/ helicopter survey







Limiting Factors?

Habitat



Young forest lacking in a "forever wild" landscape, but not all young forest habitats occupied or occupied to capacity.

Survival



Adult survival high, but young moose survival unknown.

Recruitment



Calf:cow ratios sufficient to support growth, but herd growth has been slower than expected.

Are young moose surviving to reproduction age?



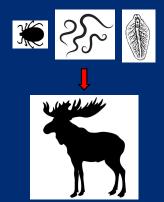
Current Research

Parasites:

Brainworm, liver fluke, and winter ticks

The role of deer in parasite distribution

Survival & spatial analysis of young moose







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WCS









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