

Wildlife Management Exercise

Exercise 15 (extra credit) looks at wildlife management areas and bird nesting sites within the counties.

It is due by the date of the final exam.

RURAL LANDSCAPE

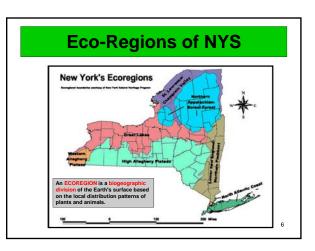
Rural areas have seen a changing landscape since the late 1800s:

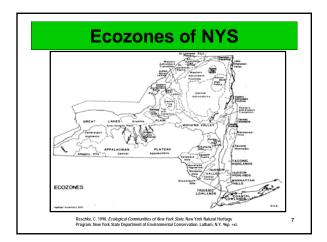
- Movement of people to the industrial cities.
- Farm abandonment.
- Increase in woodland acreage.
- Changes in the size and operation of farms.
- Encroachment as cities and suburbs grow.
- Exurbanization as city people relocate to rural areas but continue to work in the city.

RURAL LANDSCAPE
Rural areas are divided into 3 categories:

- Forest landscape: densely wooded areas; tends to be located in the least accessible areas (increasing)
- Farm landscape: mainly agricultural land (decreasing)
- Mixed landscape: farmland, abandoned farmland, woodland, towns and suburban development (increasing)

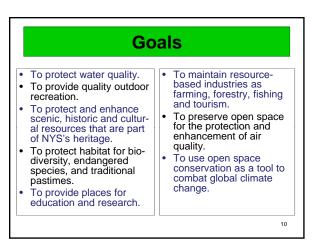
Land Use	Acreage	% Co\	/er
 Forest 	19,533,793	62.8	A reduction in agricultural land
Agriculture	7,727,003	24.8	has resulted in an increase in forest
 Residential 	1,352,117	4.4	cover!
Water	994,431	3.2	
 Wetland 	901,990	2.9	
Commercial/			
Industrial	303,979	1.0	
 Parks/golf cou 	ırses 239,728	0.8	
Barren land	57,857	0.2	







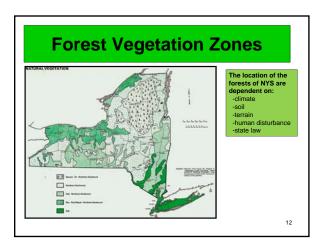




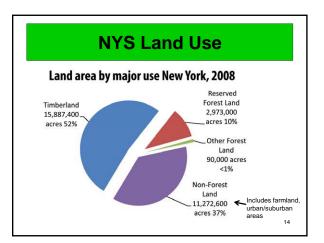
Forests of NYS

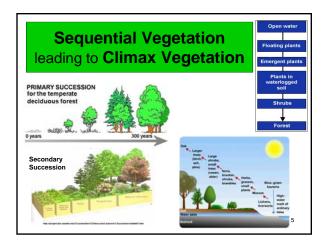
- Of the NYS's open space, forested land constitutes 63% of the land area, followed by agriculture with 25% of the land area.
- Read the *Forest Cover and Uses* handout on the course home page.

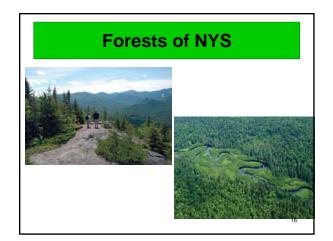
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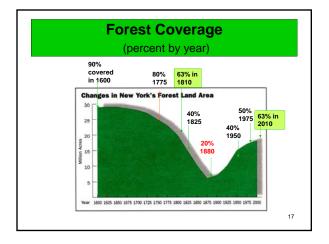


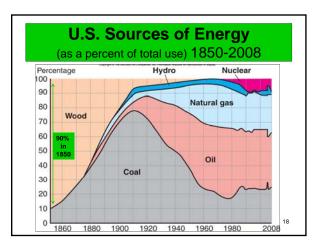
 The forests of NYS are relatively young. Native Americans had a great impact on the forests: cutting trees for wood and clearing land for farming. (Second growth trees were used in longhouse construction.) 	 Clearings allowed sunlight to reach the forest floor, setting sequential vegetation cycles in motion. Climax vegetation: the best species for a set of physical characteristics.

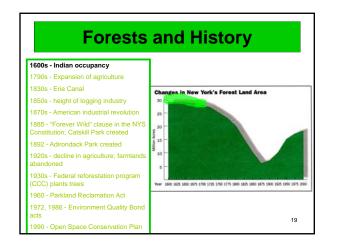


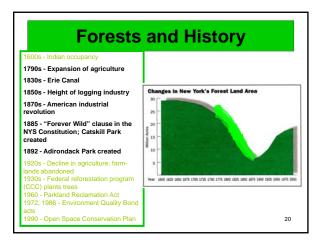


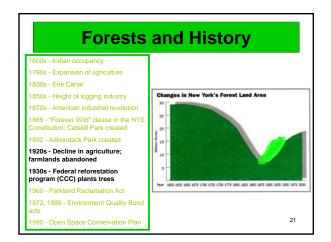


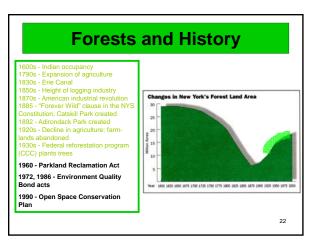


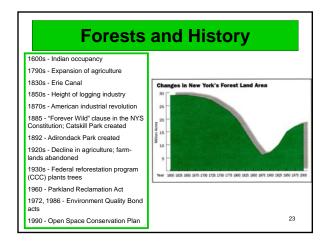


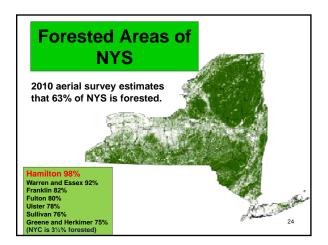


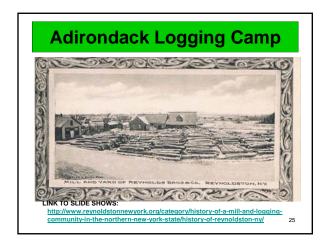






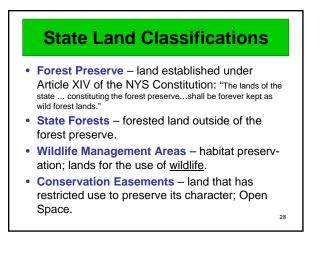


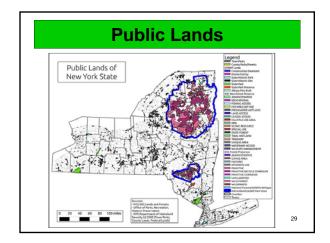


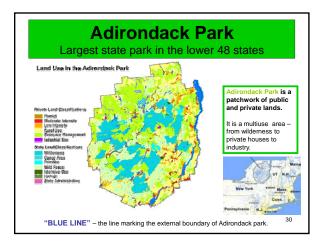












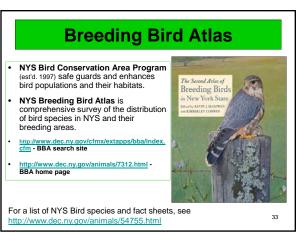
Wildlife Management

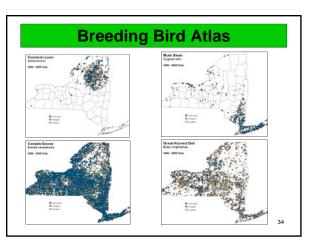
- In 1885 NYS's Bureau of Wildlife was established (then called the Fisheries, Game and Forest Commission) when wildlife populations were at one of the lowest points in history.
- Many species have been brought back from extinction through habitat restoration and species reintroduction.
- Now BoW monitors the geographic distribution of wildlife and engages in population control through regulated hunting. Also tracks invasive species.

http://www.dec.ny.gov/outdoor/55423.html Watchable Wildlife web site

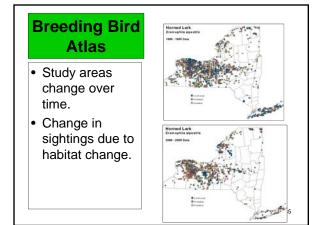
31

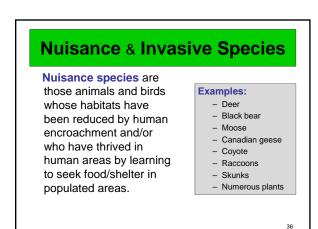
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32





Nuisance & Invasive Species

Both the NYS DEC and Agriculture & Markets monitor the geographic distribution of nonnative species in NYS.

- They are considered "biological pollution."
- They have no natural enemies or controls.
- They can cause harm to the environment or to human health (only 10-15% currently do).
- Usually enter the state as "hitchhikers."

Examples:				
 Asian long-horned beetle 				
 Sea lamprey eels 				
 Zebra mussels 				
 Big-head carp 				
 Potato beetles 				

- Snakehead fish
- Pathogens (disease carrying organism as viruses and bacteria) as those that cause West Nile disease.

37

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