

ES 10 Lectures March 21 and 23 2001
Biodiversity and Biogeography

Reading B&K Ch 12

Web site with tule elk information-- <http://www.nps.gov/pore/resources/natural/elk.htm>

Lecture Topics:

1. Biodiversity—genetic, species, community
2. Population growth models—exponential, logistic, logistic with time lag
3. Minimum Viable Population (MVP) and Minimum Dynamic Habitat (MDA)
4. Biogeography, present and past distribution of organisms
5. Conservation of species diversity, case study of Tule elk

Some species names likely to be used in lectures

Animals

Bos taurus cow

Canis latrans coyote

Cervus elaphus nanus tule elk

Felis concolor mountain lion

Homo sapiens human

Microtus californicus meadow vole

Ovis canadensis bighorn sheep

Odocoileus hemionus columbianus black-tailed deer

Panthera leo African lion

Plants

Avena barbata wild oats

Baccharis pilularis coyote brush

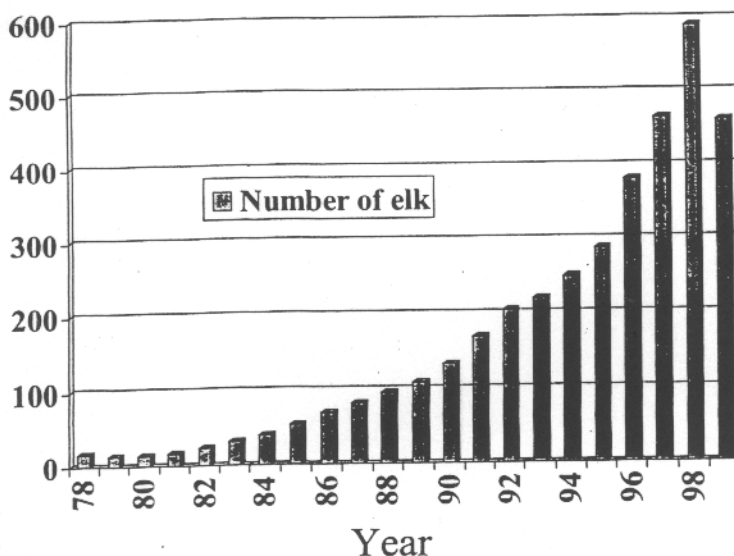
Erodium botrys filaree

Lolium multiflorum annual ryegrass

Lupinus arboreus bush lupine

Nassella pulchra purple needlegrass

Toxicodendron diversilobum poison oak



Estimate for 2000 = 550