### Urban Moose Movements in Fairbanks, Alaska Dave Cox and Matt Steffes June 17, 2004 Geos 595



Content: Objectives Standards Methodology Data Conclusions Acknowledgements

# **Objectives**



- Construct a map of the study area showing the distribution of urban moose (*Alces alces*) with respect to vegetation type (habitat) in different months.
- Compare the distribution of moose in different months to extrapolate a pattern of movement during September to April.
- Determine the influence, if any, human obstacles have on urban moose movements?

#### Alaska Standards

#### Technology

A.Students should be able to operate technology-based tools.

B.Students should be able to use technology to locate, select, and manage information

#### Science

A.Students should understand scientific facts, concepts, principles and theories

B.Students should possess and understand the skills of scientific inquiry.

#### • Geography

A.Students should be able to make and use maps, globes and graphs and report spatial information.

B.Students should be able to utilize, analyze and explain information about places and regions.

# Methodology

- Collection of geospatial data using satellite collars on 3 urban moose
- Identification and mapping of routes over a set period of time

Analysis of Data -GIS

Conclusions

ArcView GI5 3.2a



#### 🍭 ArcView GIS 3.2a





### The Whole Ball of Wax....All themes turned on.



### **Future Directions**

- 1.Additional collaring of other urban moose.
- 2.Possibly tag and follow other species in urban areas depending on funding.
- 3.Measurements of movement lengths during time periods.
- 4.Collar rural moose and compare amount of movement.

# Acknowledgements

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