

5.6. Wildlife habitat. A note was placed on your computer's keyboard, from Will Edwards, wildlife biologist, which read: "Could you perform some queries of the Brown Tract stands database for me? I am working on some wildlife habitat suitability models, and am interested in the following:"

a) Sharp-shinned hawk habitat: acres of ≥ 25 and ≤ 50 year old stands

Query: ([Age] ≥ 25) and ([Age] ≤ 50)

Result: 1,451.5 acres

b) Cooper's hawk habitat: acres of ≥ 30 and ≤ 70 year old stands

Query: ([Age] ≥ 30) and ([Age] ≤ 70)

Result: 2,287.6 acres

c) Goshawk habitat: acres of ≥ 150 year old stands

Query: ([Age] ≥ 150)

Result: 403.5 acres

d) Red tree vole habitat: acres of ≥ 195 year old stands

Query: ([Age] ≥ 195)

Result: 206.6 acres

e) Also, could you make me a map of the sharp-shinned hawk habitat?"

Save the queried stands from part *a* above to a new GIS database with the following steps:

1. After the query, select from the Main Menu system, *Theme*, then *Convert to Shapefile*.
2. Provide ArcView a name for which you will save the new GIS database.

When asked whether you want to add the shapefile to the view, select *yes*.

Turn on (make visible) the new shapefile in the Table of Contents.

Develop a Layout where you will display the sharp-shinned hawk habitat stands along with the other Brown Tract stands.

If the scale bar is not present in the layout, return to the View window, and select from the Main Menu system, *View*, then *Properties*.

Change both the *Map units* and *Distance units* related to the view to *feet*.