Biology 4605/7220 NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27 November 2009 Logistic Worksheet

1. Data in Box 17.16 (p 782) of Sokal and Rohlf (1995). The response variable is the number of acacia plants free of recent damage (scoring positive) in three successive months, after the removal of ants that normally protect the plants from phytophagous insects.

Does the number of plants free of damage Nfree decline with time (T = March, June, August)?

Define response and explanatory variables (symbol, name, unit) and write the generalized linear model used to compare whether odds of damage declines with time.

Model:

Symbol Name Units