

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 damage free plants  $N_{free}$  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.

Symbol	Name	Units
--------	------	-------

Model

2. Does the increase in risk of cancer in smokers relative to non-smokers differ in men and women?

<u>Symbol</u>	<u>Name</u>	<u>Units</u>
---------------	-------------	--------------

Model: