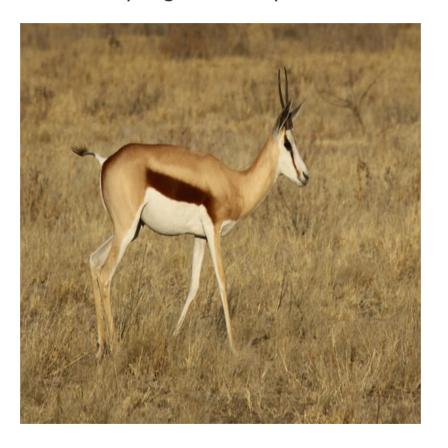
IDS 702: Module 3.2

Poisson regression (Illustration)

DR. OLANREWAJU MICHAEL AKANDE

SPRINGBOK ANALYSIS

The data contains counts of springbok antelope around 25 watering holes.



The data is in the file springbok.csv on Sakai.



SPRINGBOK ANALYSIS

- Springbok are counted at each site (hole) at an altitude of 200-300 meters.
- A survey normally includes counts at all 25 sites but occasionally some sites could not be counted because of poor weather.
- For larger groups of springbok, color photographs were taken and springbok were counted later from the photos.
- Several surveys, usually 7-10, were made each year.
- Within a year, springbok are faithful to a single site. That is, if a springbok goes to site i on one day, it will return to site i on other days.
- We want to
 - Analyze trend
 - Estimate the effects of predictors



SPRINGBOK ANALYSIS DATA

- n = 1050 counts from 1990-2002 for sites 12-21, 23, and 24.
- The other sites were excluded because they usually don't have many antelope.
- Three time variables: year, date (week) and hour from noon.

Variable	Description
LOCNUMBER	Location Number
SITEI	Site
YEAR	Year (1990 - 2002)
DATE	Week (14 - 42)
HourFromNoon	Hour From Noon (Numeric)
COUNTS	Springbok Count (Discrete)

In-class analysis: move to the R script here



WHAT'S NEXT?

MOVE ON TO THE READINGS FOR THE NEXT MODULE!

