Summarizing Age Data

Derek H. Ogle, Northland College 5-Mar-2015

Preliminaries

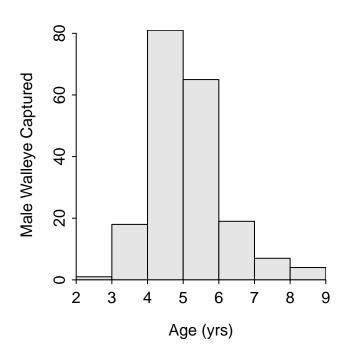
```
> # clears objects in R workspace
> rm(list = ls())

> # sourceing the script that constructed and applied the ALK
> # may need to adjust if you named your script differently
> source("02_AgeLengthKey.R")

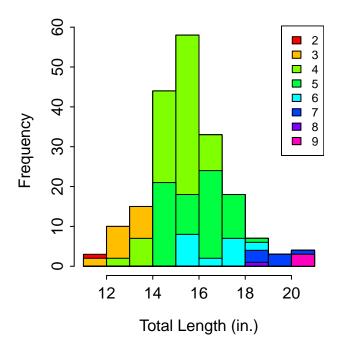
Warning in rm(hook1): object 'hook1' not found

> # to demonstrate what is in the workspace after the sourceing
> ls()
[1] "waeF.fnl" "waeM.fnl"

> hist(~Age..observed.annuli.,data=waeM.fnl,xlab="Age (yrs)",ylab="Male Walleye Captured")
```

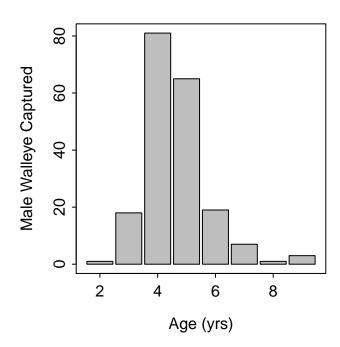


Warning in histStack.default(mf[, 1], mf[, 2], breaks = breaks, col = col, : z was converted to a factor

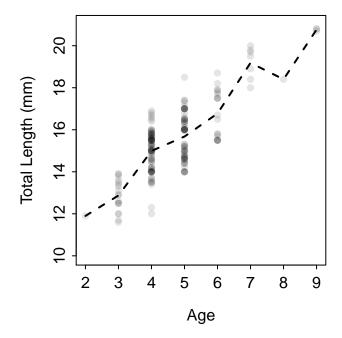


Source: local data frame [8 x 6]

	Ageobserved.annuli.	n	mean	sd	min	max
1	2	1	11.90000	NaN	11.9	11.9
2	3	18	12.87222	0.74423712	11.6	13.9
3	4	81	14.99136	0.96801311	12.0	16.9
4	5	65	15.67692	1.08638869	14.0	18.5
5	6	19	16.77368	1.13080213	15.5	18.7
6	7	7	19.18571	0.76469726	18.0	20.0
7	8	1	18.40000	NaN	18.4	18.4
8	9	3	20.76667	0.05773503	20.7	20.8



- > lines(mean~Age..observed.annuli.,data=waeM.sumlen,lwd=2,lty=2)



${\bf Construct\ and\ Aply\ an\ Age-Length\ Key-Females}$

Copy the code from above and convert the 'M's to 'F's

Application Assignment

Create a script that performs the following tasks:

- 1. Continue or source() your script from the previous handout.
- 2. Summarize the age distribution from all of the fish in your sample.
- 3. Show the mean length-at-age for all fish in your sample in both tabular and graphical forms.
- 4. (Time Permitting) Show the length frequency for all fish in your sample.
- 5. (Time Permitting) Repeat the above for your second sex or species.

Save your script!