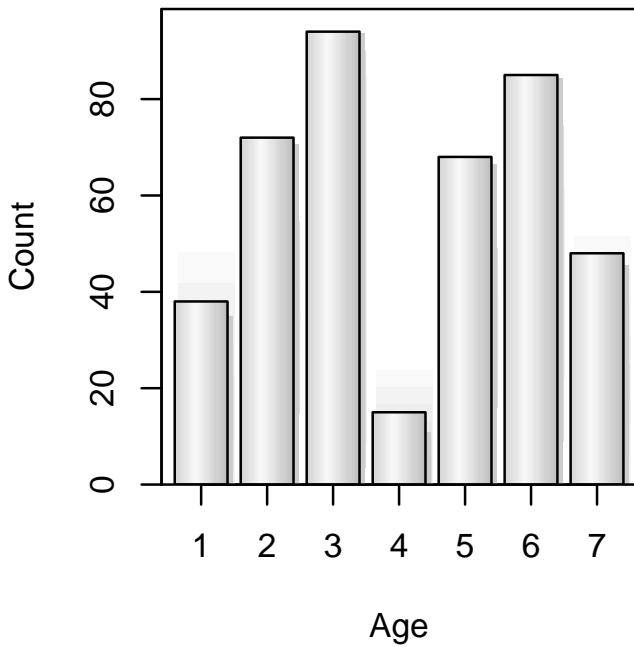
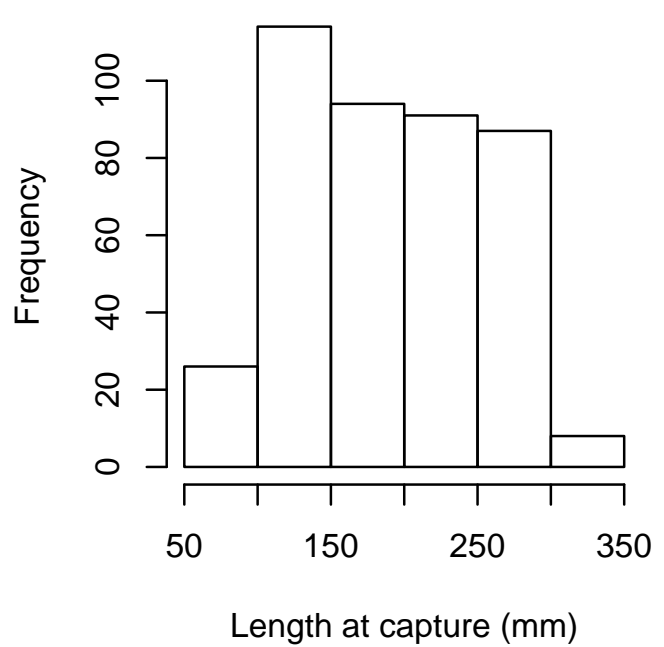


Stat 1001 Spring 2009, A few graphs

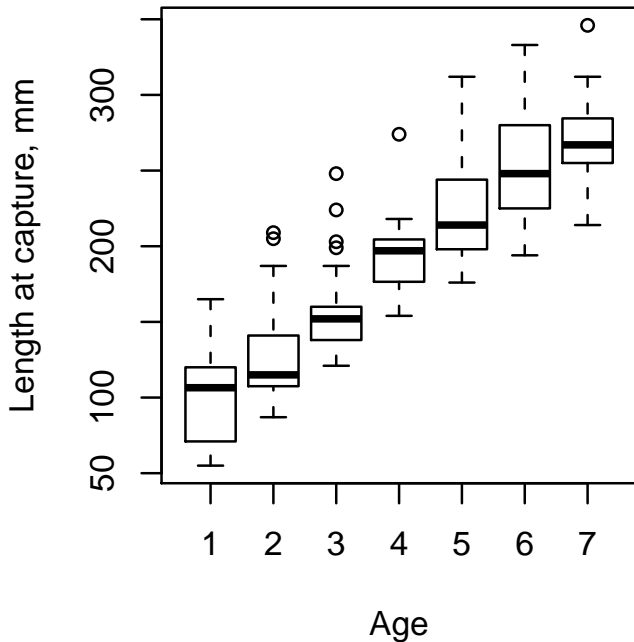
West Bearskin Smallmouth Bass



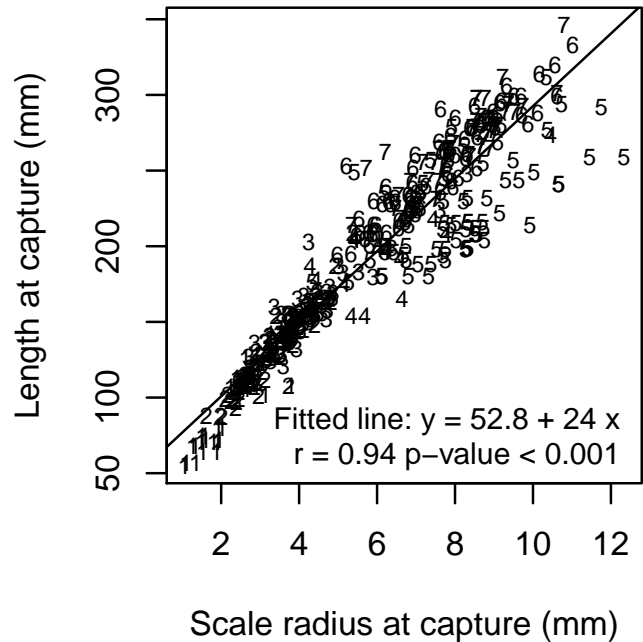
West Bearskin Smallmouth Bass



West Bearskin Smallmouth Bass



West Bearskin Smallmouth Bass



Comparing proportions

Fish were collected either by trapnetting or by electrofishing. Do these methods sample the population in the same way?

GEAR	SIZE	
	< 8 inches	> 8 inches
Electrofishing	169	96
Trapnetting	67	88

Proportion of fish < 8 inches:

Electrofishing	Trapnetting
0.6377	0.4323

Pearson's Chi-squared test

data: tab

X-squared = 16.77, df = 1, p-value = 4.211e-05

How about by age rather than size?

GEAR	AGE						
	1	2	3	4	5	6	7
Electrofishing	10	49	88	8	24	38	48
Trapnetting	28	23	6	7	44	47	0

Fraction of fish electrofished:

1	2	3	4	5	6	7
0.2632	0.6806	0.9362	0.5333	0.3529	0.4471	1.0000

Pearson's Chi-squared test

data: tab1

X-squared = 124.0, df = 6, p-value < 2.2e-16

The hypothesis tests: NH: Age distribution is the same for electrofishing and trapnetting versus the alternative AH: Age distributions are not the same, without specifying how they differ.