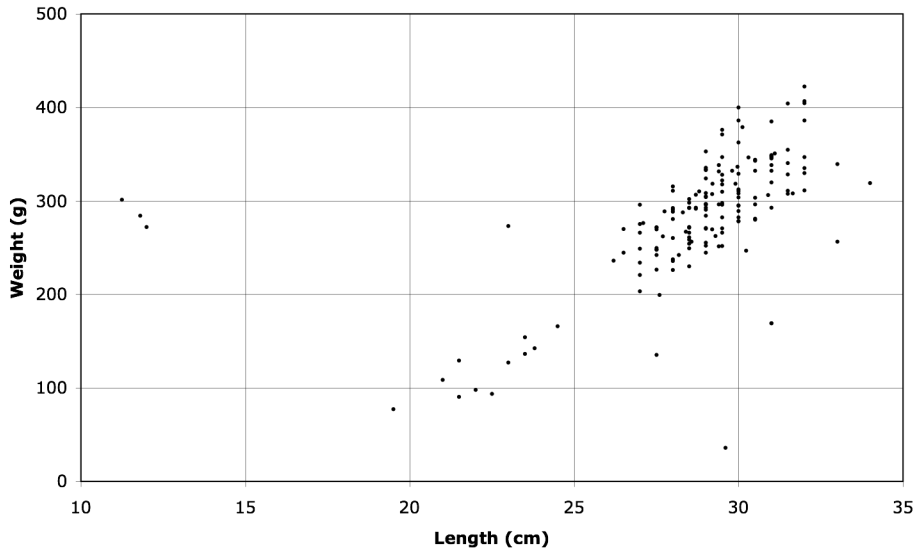


# Bio 112 Spring 2009 Pooled Trout Data

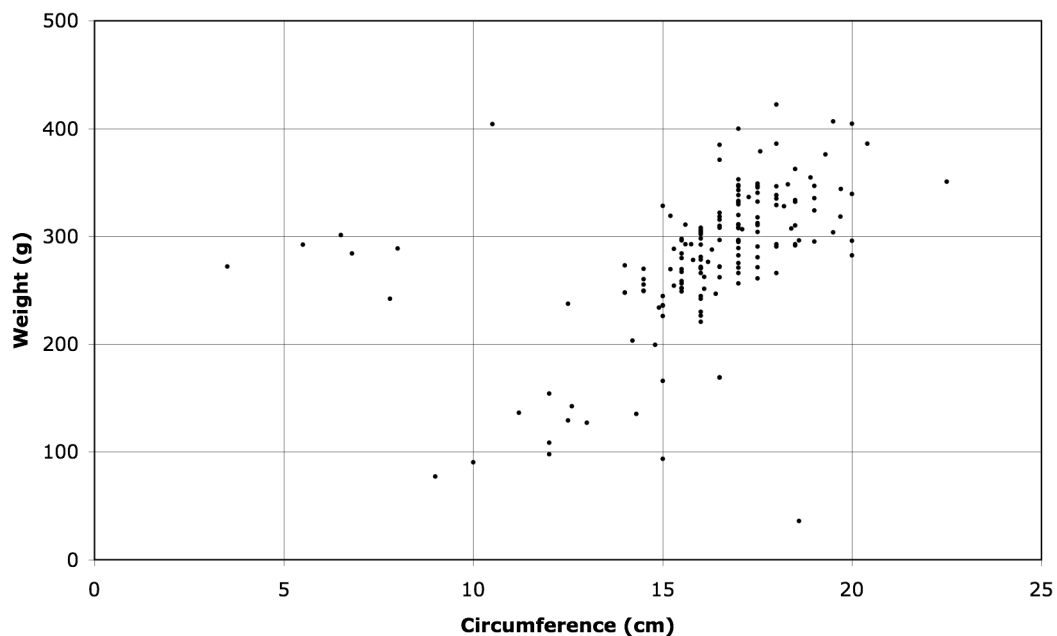
These are the pooled results from the lab in 2009 pooled with data from 2007 & 2008. They are intended to help answer questions 3 (a) and (b) in the Animal Diversity Lab. You will discuss these results in lab during the last week of the Animal Diversity Lab.

For Question 3a:

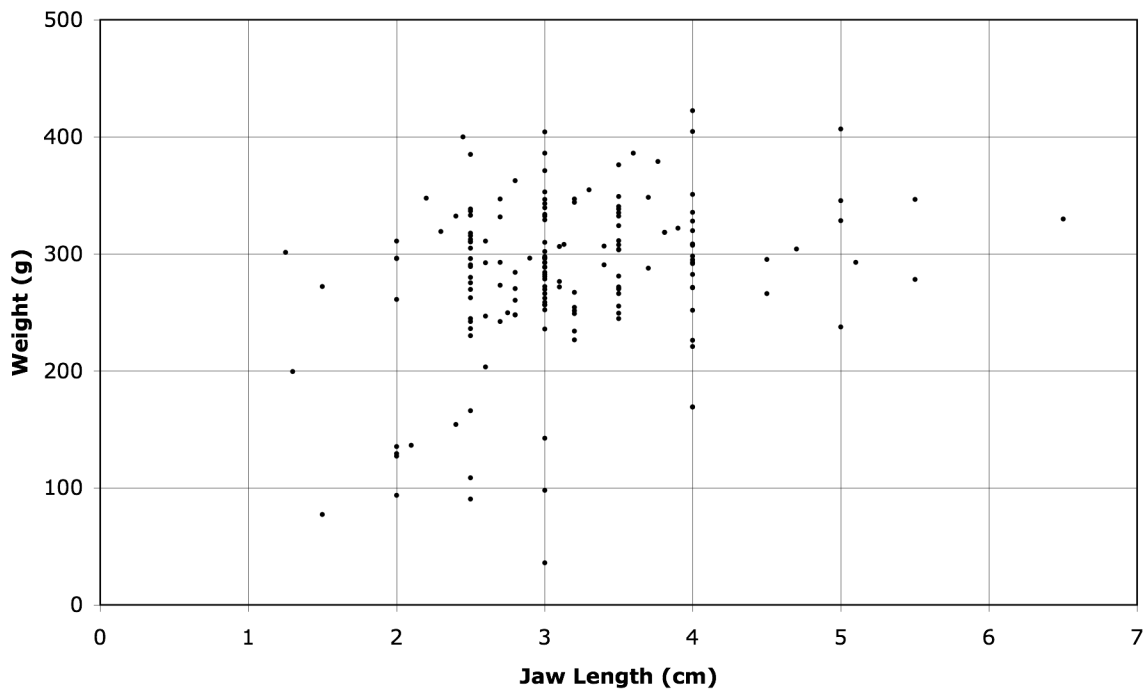
**Fish Weight vs Fish Length**



**Fish Weight vs Circumference**



### Fish Weight vs Jaw Length



For Question 3b:

- Avg. = average
- St. dev = standard deviation (measures the 'spread' of the data - roughly 95% of the data points lie within 2 standard deviations of the average)
- # = number of fish in that group
- significant = statistically significant (95% confidence that the difference is not due to chance)

<u>Measure</u>	<u>Females</u>			<u>Males</u>			<u>significant?</u>
	<u>Avg.</u>	<u>St. dev.</u>	<u>#</u>	<u>Avg.</u>	<u>St. dev.</u>	<u>#</u>	
Weight	288	63	75	299	44	83	no
Circ./length ratio	0.55	0.09	75	0.57	0.04	83	yes
weight/length ratio	10.3	3.1	75	10.3	1.9	83	no
jaw length/total length	0.11	0.02	75	0.12	0.03	83	yes

Numbers of fish with specific spot patterns:

	<u>Females</u>	<u>Males</u>
Leopard spots	46	60
Circular spots	29	23

the difference is not significant

Misc factoid:

- Average % of total weight that is heart = 0.0015