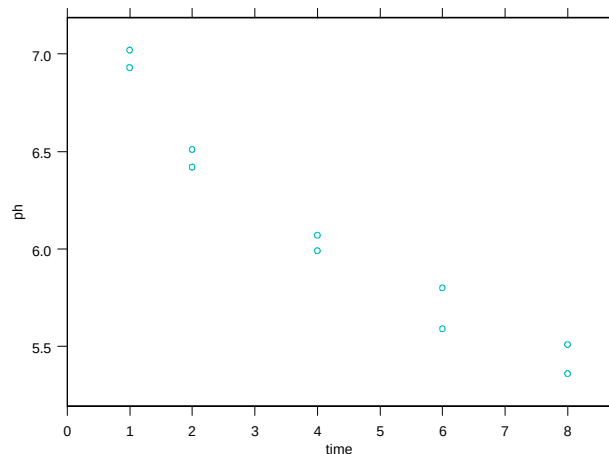


Meat Processing and pH

Topics

- Standard errors of the mean
- Standard errors of predictions
- Inverse prediction/calibration

Data need transformation of time for linear model to be appropriate, use $\log(\text{hours})$



*** Summary Statistics for data in: Case0702***

	time	pH	loghours
Mean:	4.200000000	6.120000000	1.190128511
Std Dev.:	2.699794231	0.583152353	0.796480429

*** Linear Model ***

Coefficients:

	Value	Std. Error	t value	Pr(> t)
(Intercept)	6.9836	0.0485	143.897	0.0000
loghours	-0.7257	0.0344	-21.079	0.000

Residual standard error: 0.08225969
on 8 degrees of freedom

hour	pH	log(hour)	fit	residual	SE.fit
1.00	7.02	0.00	6.98	0.04	0.049
1.00	6.93	0.00	6.98	-0.05	0.049
2.00	6.42	0.69	6.48	-0.06	0.031
2.00	6.51	0.69	6.48	0.03	0.031
4.00	6.07	1.39	5.98	0.09	0.027
4.00	5.99	1.39	5.98	0.01	0.027
6.00	5.59	1.79	5.68	-0.09	0.033
6.00	5.80	1.79	5.68	0.12	0.033
8.00	5.51	2.08	5.47	0.04	0.040
8.00	5.36	2.08	5.47	-0.11	0.040

