

Stepwise Regression: biomass versus salinity, ph, k, na, zn

Alpha-to-Enter: 0.15 Alpha-to-Remove: 0.15

Response is biomass on 5 predictors, with N = 45

Step	1	2
Constant	-885.2	-475.7
ph	410	405
T-Value	8.02	8.48
P-Value	0.000	0.000
na		-0.0233
T-Value		-2.70
P-Value		0.010
S	423	395
R-Sq	59.94	65.84
R-Sq(adj)	59.00	64.22
Mallows C-p	7.4	2.3

Regression Analysis: biomass versus ph, na

The regression equation is

biomass = - 476 + 405 ph - 0.0233 na

Predictor	Coef	SE Coef	T	P
Constant	-475.7	273.5	-1.74	0.089
ph	404.95	47.77	8.48	0.000
na	-0.023326	0.008655	-2.70	0.010

S = 394.853 R-Sq = 65.8% R-Sq(adj) = 64.2%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	2	12622789	6311394	40.48	0.000
Residual Error	42	6548174	155909		
Total	44	19170963			

Source	DF	Seq SS
ph	1	11490388
na	1	1132401

Unusual Observations

Obs	ph	biomass	Fit	SE Fit	Residual	St Resid
12	3.45	1400.0	580.9	82.9	819.1	2.12R
14	4.10	1736.0	905.2	75.6	830.8	2.14R
34	4.75	2080.0	911.6	81.3	1168.4	3.02R

R denotes an observation with a large standardized residual.

