

TABLE 91. Comparison of dry-weight biomass in g/m² with percent of open sunlight and topographic elevation (in m) for *I. pseudacorus* from a regression design survey of 20 points

Characteristics ^a	Multiple regression ^b	Simple regression, biomass and light	Simple regression, biomass and elevation
Equation	$Y_c = a + b_1X_1 + b_2X_2$	$Y_c = a + bX$	$Y_c = a + bX$
Y intercept (a)	-696.18234	5821.99883	-3818.23869
Slope (b)	b_1 -23.99642 b_2 5056.64505	-52.43042	6157.98561
F or t value	$F_{2/17 \text{ df}} = 8.906$	$t_{18 \text{ df}} = 2.627$	$t_{18 \text{ df}} = 3.984$
significance level	significant at 0.005	significant at 0.02	significant beyond 0.001
R ² or r ²	$R^2_{Y.12} = 51\%$	$r^2 = 28\%$	$r^2 = 47\%$
$r^2_{Y2.1}$	32%	_____	_____
t value for $r^2_{Y2.1}$	$t_{17 \text{ df}} = 2.857$	_____	_____
significance $r^2_{Y2.1}$	significant at 0.02	_____	_____
$r^2_{Y1.2}$	8%	_____	_____
t value for $r^2_{Y1.2}$	$t_{17 \text{ df}} = 1.224$	_____	_____
significance $r^2_{Y1.2}$	not significant at 0.1	_____	_____

^aR² = coefficient of multiple determination expressed as a percent;

r^2 = coefficient of determination expressed as a percent.

^bY = biomass in g/m²;

X₁ = percent of open sunlight;

X₂ = topographic elevation in m.