Summary of Slope and Elasticity Formulas

Functional Form	Slope $\left(\frac{dL}{dW}\right)$	Elasticity $\left(\eta_{lw} = \frac{dL}{dW}\frac{W}{L}\right)$
Linear: $L = a + bW$	b	$b\frac{W}{L}$
Double–log: $L = e^{b_0}W^{b_1}$ $\Rightarrow \ell n\, L = b_0 + b_1 \ell n\, W$	$b_1 e^{b_0} W^{b_1 - 1}$ $= b_1 \frac{L}{W}$	b_1
Semi–log: $L = e^{(a_0 + a_1 W)}$ $\Rightarrow \ell n\, L = a_0 + a_1 W$	$a_1 e^{(a_0 + a_1 W)}$ $= a_1 L$	$a_1 W$
Reciprocal: $L = c_0 + c_1\left(\frac{1}{W}\right)$	$\frac{-c_1}{W^2}$	$\frac{-c_1}{WL}$
Quadratic: $L = d_0 + d_1 W + d_2 W^2$	$d_1 + 2d_2 W$	$(d_1 + 2d_2 W)\left(\frac{W}{L}\right)$