

## Summary of Slope and Elasticity Formulas

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