

# PROPANE IRRIGATION ENGINE

## CALCULATOR WORKSHEET



Curious about how much you could be saving with a propane irrigation engine over diesel? Complete this worksheet to find out. Fill in the inputs on the left, and then use those numbers in the formulas to the right to get your results. If you want help or have questions, contact your propane supplier. They'll be happy to work through it with you. Or, visit [propanecostcalculator.com/irrigation](http://propanecostcalculator.com/irrigation) for the easy-to-use online tool that does the calculations for you.

INPUTS	OUTPUTS	PROPANE	DIESEL
A. HORSEPOWER REQUIRED: _____	G. FUEL COSTS PER HOUR	$G_1$ Formula: $A \div E \times C$	$G_2$ Formula: $A \div E \div F \times C$
B. HOURS OF USAGE PER YEAR: _____	H. FUEL COSTS PER YEAR Formula: $G \times B$		
C. FUEL PRICE PER GALLON: Propane: _____ Diesel: _____	I. FUEL COSTS PER 5 YEARS Formula: $H \times 5$		
D. ENGINE PURCHASE AMOUNT: Propane: _____ Diesel: _____	J. FUEL SAVINGS PER HOUR Formula: $G_2 - G_1$		
E. HORSEPOWER-HOUR PER GALLON OF PROPANE: 13.76 (Data from the Propane Education & Research Council)	K. FUEL SAVINGS PER YEAR Formula: $B \times J$		
F. RATIO OF PROPANE/DIESEL: 1.57 (Data from the Propane Education & Research Council)	L. FUEL SAVINGS PER 5 YEARS Formula: $K \times 5$		
	M. TOTAL 1 YEAR COST	$M_1$ Formula: $D + H$	$M_2$ Formula: $D + H$
	N. TOTAL 5 YEAR COST	$N_1$ Formula: $D + I$	$N_2$ Formula: $D + I$
	O. TOTAL 1 YEAR SAVINGS USING PROPANE Formula: $M_2 - M_1$		
	P. TOTAL 5 YEAR SAVINGS USING PROPANE Formula: $N_2 - N_1$		