

Real Goods Hydroelectric Site Evaluation Form

Name: _____

Address: _____

Phone: _____ Date: _____

Pipe Length: _____ (from water intake to turbine site)

Pipe Diameter: _____ (only if using existing pipe)

Available Water Flow: _____ (in gallons per minute)

Fall: _____ (from water intake to turbine site)

Turbine to Battery Distance: _____ (one way, in feet)

Transmission Wire Size: _____ (only if existing wire)

House Battery Voltage: _____ (12, 24, etc.)

Alternate estimate (if you want to try different variables)

Pipe Length: _____ (from water intake to turbine site)

Pipe Diameter: _____ (only if using existing pipe)

Available Water Flow: _____ (in gallons per minute)

Fall: _____ (from water intake to turbine site)

Turbine to Battery Distance: _____ (one way, in feet)

Transmission Wire Size: _____ (only if existing wire)

House Battery Voltage: _____ (12, 24, etc.)

For a complete computer printout of your hydroelectric potential, including sizing for wiring and piping, please fill in the above information and send it to Real Goods.

Harris Turbine Output in Watts

Feet of Head	Gallons per Minute Flow (permanent-magnet specs in bold)								
	3	6	10	15	20	30	50	100	200
25	–	–	–	20 25	30 40	50 65	115 130	200 230	–
50	–	–	35 40	60 75	80 100	125 150	230 265	425 500	520 580
75	–	25 30	60 75	95 110	130 160	210 250	350 420	625 750	850 900
100	–	35 45	80 95	130 150	200 240	290 350	500 600	850 1,100	1,300 1,300
200	30 45	100 130	180 210	260 320	400 480	580 650	950 1,100	1,500 1,500	–
300	70 80	150 180	275 300	400 450	550 600	850 940	1,400 1,500	–	–

A typical micro-hydro output chart, available from the manufacturer.

Maximum wattage @ voltage: 12 V=750, 24 V=1,500, 48 V=2,500