Water Delivery Information

- Pump Discharge Pressure (PDP) = Nozzle Pressure (NP) + Friction Loss (FL) of Hoselay ± Head Pressure (HP)
- Gallons per Minute (GPM) and NP:

Forester

³/₁₆ tip: 7 gpm (50 psi NP) ³/₈ tip: 30 gpm (50 psi NP)

Variable Pattern (Adjustable Barrel)

1": 20 gpm (100 psi NP) 1½": 60 gpm (100 psi NP)

• FL for 1" hose:

10 gpm = 5* psi per 100' 20 gpm = 10 psi per 100' 30 gpm = 20* psi per 100'

• FL for 11/2" hose:

20 gpm = 1 psi per 100' 30 gpm = 5* psi per 100' 60 gpm = 15* psi per 100' * Numbers rounded for easier math

- HP: Add or subtract 1 psi for every 2' elevation change.
- Gallons of water to fill 100' of hose:

 $\frac{3}{4}$ " hose ≈ 2 gals. 1" hose ≈ 4 gals. $\frac{1}{2}$ " hose ≈ 9 gals.

- Maximum effective lift for drafting = 22' at sea level, 14' at 8.000' elevation.
- Loss of 1' draft per 1,000' elevation.
- Use check and bleeder valve on pump discharge when pumping uphill to prevent back flow into the pump.
- A parallel hose lay will have ¼ the friction loss of a single hose lay.