Pewee Valley Fire Department
Pump Reference Sheet

rev. 6-16-03

Hose Load	**Pump at ***
Booster	**200** psi
8433 Front Line	**150** psi
Crosslay	**150** psi
Rear 2 ½" at 250 gpm (attack mode)	**130** (comb.) **80** (smooth bore)
Rear 2 ½" at 350 gpm (defense, anchored)	**150** (comb.) **100** (smooth bore)
2 ½" with thief and bundle	150 + 15 psi per 100' of 2 ½ " hose used
Relay pumping	**50** psi at receiving pumper
Sprinkler or Standpipe	**150** + 5 psi per floor
Deck Gun: on ground, at nozzle**	**80** psi for smooth bore, **100** psi for comb.
on truck, at pump:	**120** psi for smooth bore, **140** psi for comb.

**Start at pressure listed raise or lower as requested.*

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**When deck gun is on the ground, do not use 2" tip or 1000 gpm setting on comb. nozzle

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-The person at the nozzle is the final judge of proper pressure

-**Raise** or **Lower** pressure in **20** lb increments

-Never exceed **270** psi on attack lines
-Never exceed **150** psi on 5" supply lines, or lines supplying other pumpers

Positive Water Supply
- Maintain **20** psi residual
- At **20** psi, notify IC: "Pumping at Maximum Capacity"

Smooth Bore nozzles:	**50** psi
Combination nozzles:	**100** psi
Low psi comb. nozzles:	50 psi

Hose Size	**Friction Loss per 100'** (at max. flow)	**Max. Flow**
1"	50 psi	50 gpm
1¾"	**60 psi**	**200 gpm**
2"	30 psi	200 gpm
2 ½"	**15 psi**	**250 gpm**
3" (attack use)	5 psi	250 gpm
3" (supply use)	20 psi	500 gpm
5"	**7 psi**	**1000 gpm**

Deck Gun (at 80 psi)

Tip Size	**Flow**
1 3/8"	500 gpm
1 1/2"	600 gpm
1 3/4"	800 gpm
2"	1000 gpm

Ballpark Rules for Quick Figuring
-Supply Hoses: Friction Loss = *"7 per section" psi*
-1 ¾" lines w/ comb. nozzles: *"Pump psi = GPM pumped*