WILDWOOD CREST FIRE DEPARTMENT HI-RISE HOSELINE FLOWS

2-1/2" Pack

Maintain Standpipe Inline Gauge Pressure @ 100 p.s.i.

Inline Gauge - (4) 50' lengths of 2-1/2" hose	- 2-1/2" Nozzle w/ 1-1/4'	' smooth bore tip = 325 g.p.m.
---	---------------------------	---------------------------------------

FL=24/100 = 48		plus NP = 50	total = 98 psi. (100 p.s.i.)
Nozzle Reaction:	R=1.57d2P	R=1.57 x (1.25)(1.25) x 50	R=123 lbs.
Nozzle Reaction with comparable Fog Nozzle:	R=0.0505 x F(gpm) x sq.rt. of P	R= 0.0505 x 325 x 10	R=164 lbs.

1-3/4" Pack

Maintain Standpipe Inline Gauge Pressure @ 100 p.s.i.

Inline Gauge - (2) 50' lengths of 2-1/2" - (1) 10' 2-1/2" length - Gated Wye - (2) 50' lengths 1-3/4" hose -

1-1/2" Nozzle w/ 15/16" smooth bore tip = **180 g.p.m.**

FL=8/100 =	8 FL=8/10	D0 = 1 FL= 5	FL= 36/100 = 36
plus NP = 50			total = 100 psi. (100 p.s.i.)
Nozzle Reaction:	R=1.57d2P	R=1.57 x (.9375)(.9375) x 50	R=69 lbs.
Nozzle Reaction with comparable Fog Nozzle:	R=0.0505 x F(gpm) x sq.rt. of P	R= 0.0505 x 180 x 10	R=91 lbs.

Two (2) 1-3/4" Hoselines

Maintain Standpipe Inline Gauge Pressure @ 130 p.s.i.

> Jim Saldutti September 30, 2010