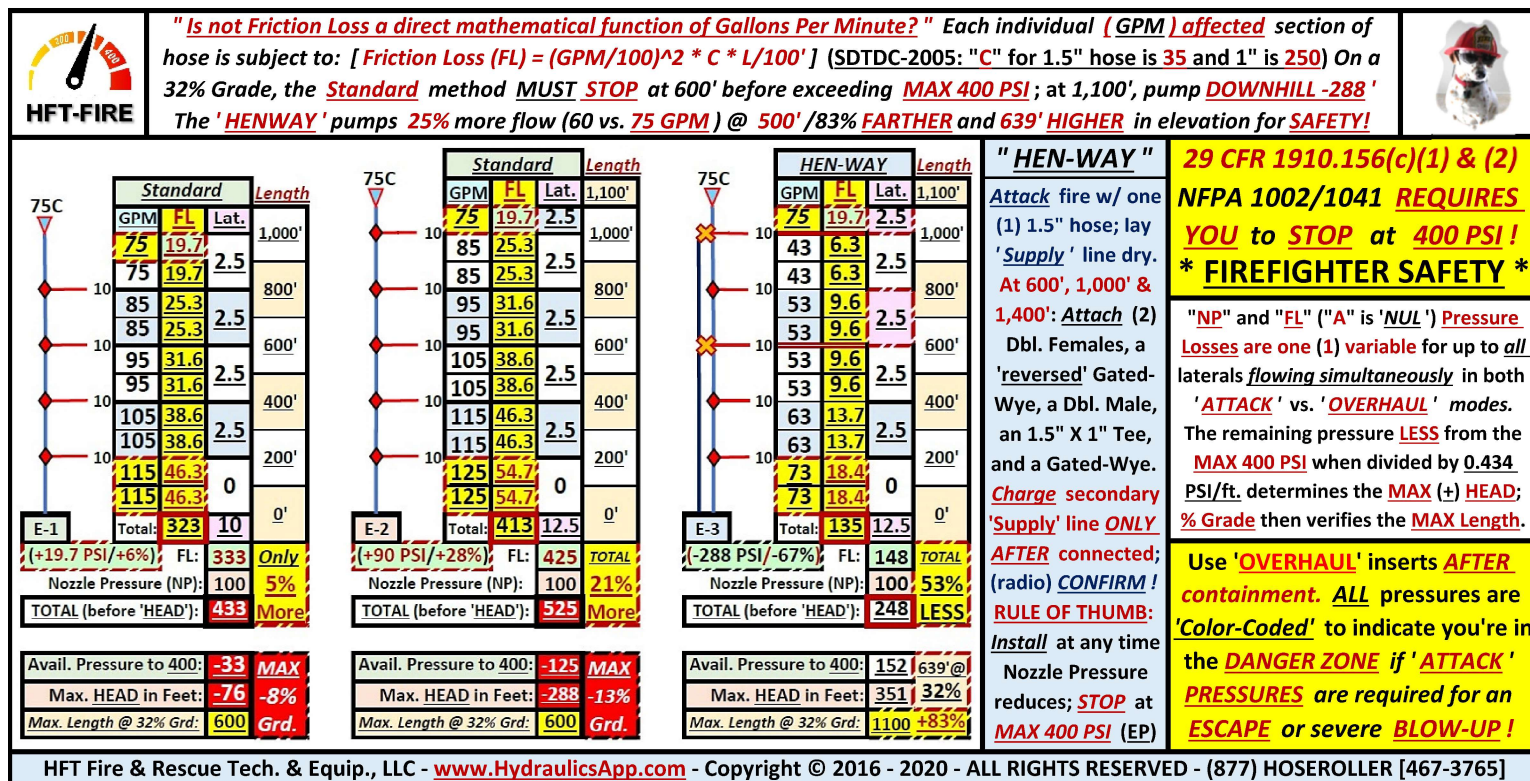


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DO THE MATH!

This is a 1,000' hoselay as illustrated:

There are eight (8) contour lines.

Each contour line is 40 feet INCREASED elevation.

Eight (8) times (X) 40'/contour line = 320'

320' over a 1,000' run is a 32% Grade

320' times 0.434 PSI/ft. = 139 PSI HEAD pressure.

Per NFPA 1002, 139 PSI HEAD pressure LOSS [PLUS TOTAL (FL) AND (NP)] MUST BE COMPENSATED at the pump for SAFETY!

The Standard method must STOP at 600' on a 32% Grade upon utilizing 75 GPM /10 GPM nozzles for HEAVY FIRE ATTACK for far BETTER PROTECTION and EFFICIENCY to INCREASE FIREFIGHTER SAFETY!

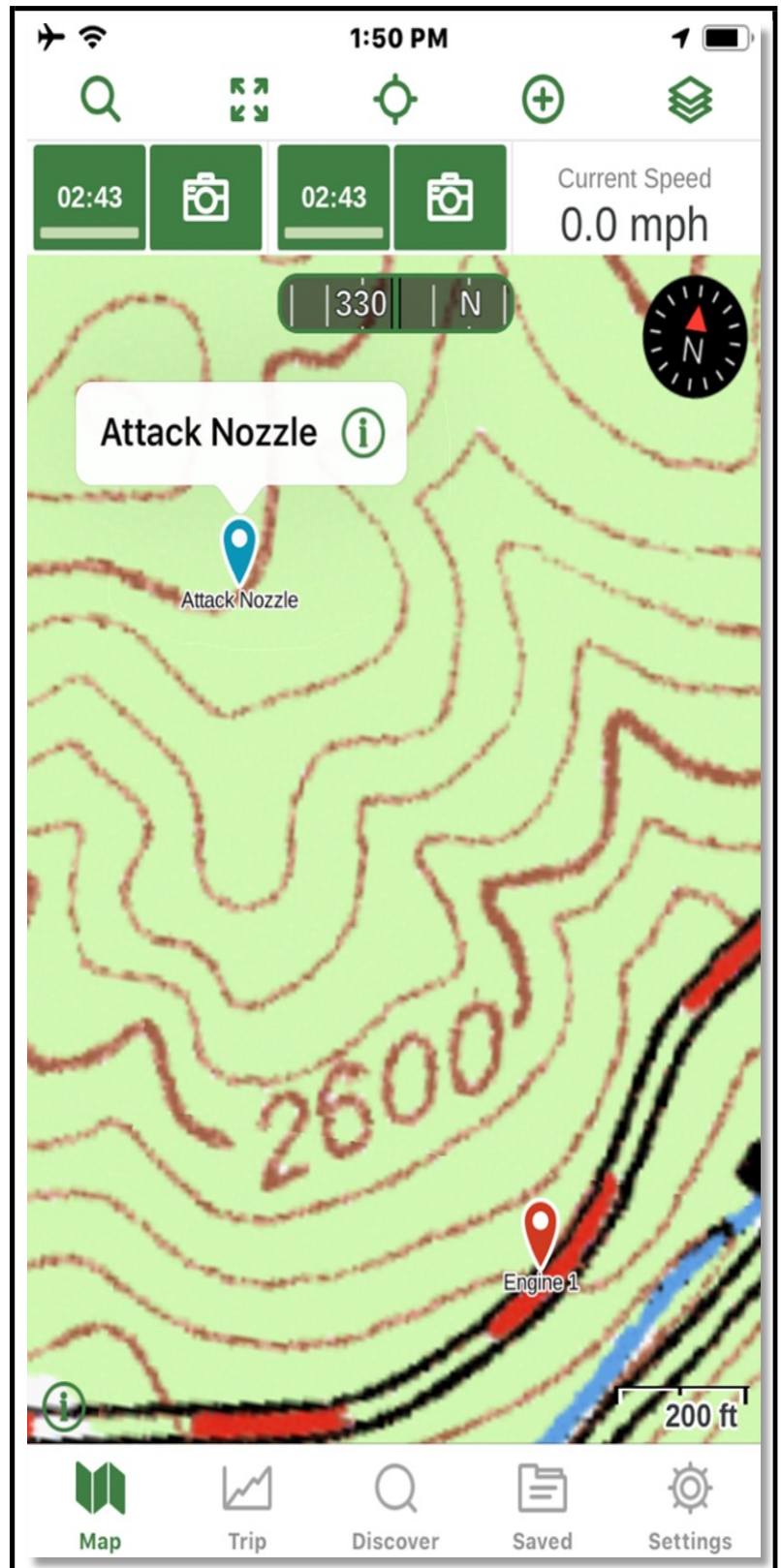
Upon extending only 100' from 900' feet to 1,000', FL increases by only 19.7 PSI or 6%...

BUT when extending only 100' from 1,000' to 1,100', and therefore ADDING a FIFTH (5th) lateral at 10 GPM, the OVERALL FLOW from the Engine to the first lateral increases from 115 GPM to 125 GPM, PLUS the Friction Loss (FL) of each AFFECTED section thereafter, to cause FL to INCREASE a FULL 90 PSI at 28%! *The calculated evidenced increase in Friction Loss SHALL NOT EVER be disregarded to ensure our highest priority: FIREFIGHTER SAFETY!*

The HEN-WAY method, reduces the water flow (GPM) to supply the ATTACK nozzle and each Lateral thereafter by one-half (1/2); upon squaring this fraction of $1/2 \times 1/2 = 1/4$, Friction Loss in each INDIVIDUALLY AFFECTED SECTION is reduced by an INCREDIBLE:

75% LESS FRICTION LOSS!!!

Thus, a 75 GPM /10 GPM hoselay limited to 600' (at 25% MORE flow and therefore 50% MORE "KNOCK-DOWN" than 60 GPM) can be SAFELY EXTENDED an additional 500' (83% further) to 1,100' ...and yet a FULL 639' higher (351' uphill vs. -288' downhill) to significantly INCREASE FIREFIGHTER SAFETY!



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