Water System Simulation Report – 640-gal Pressure Tank Model
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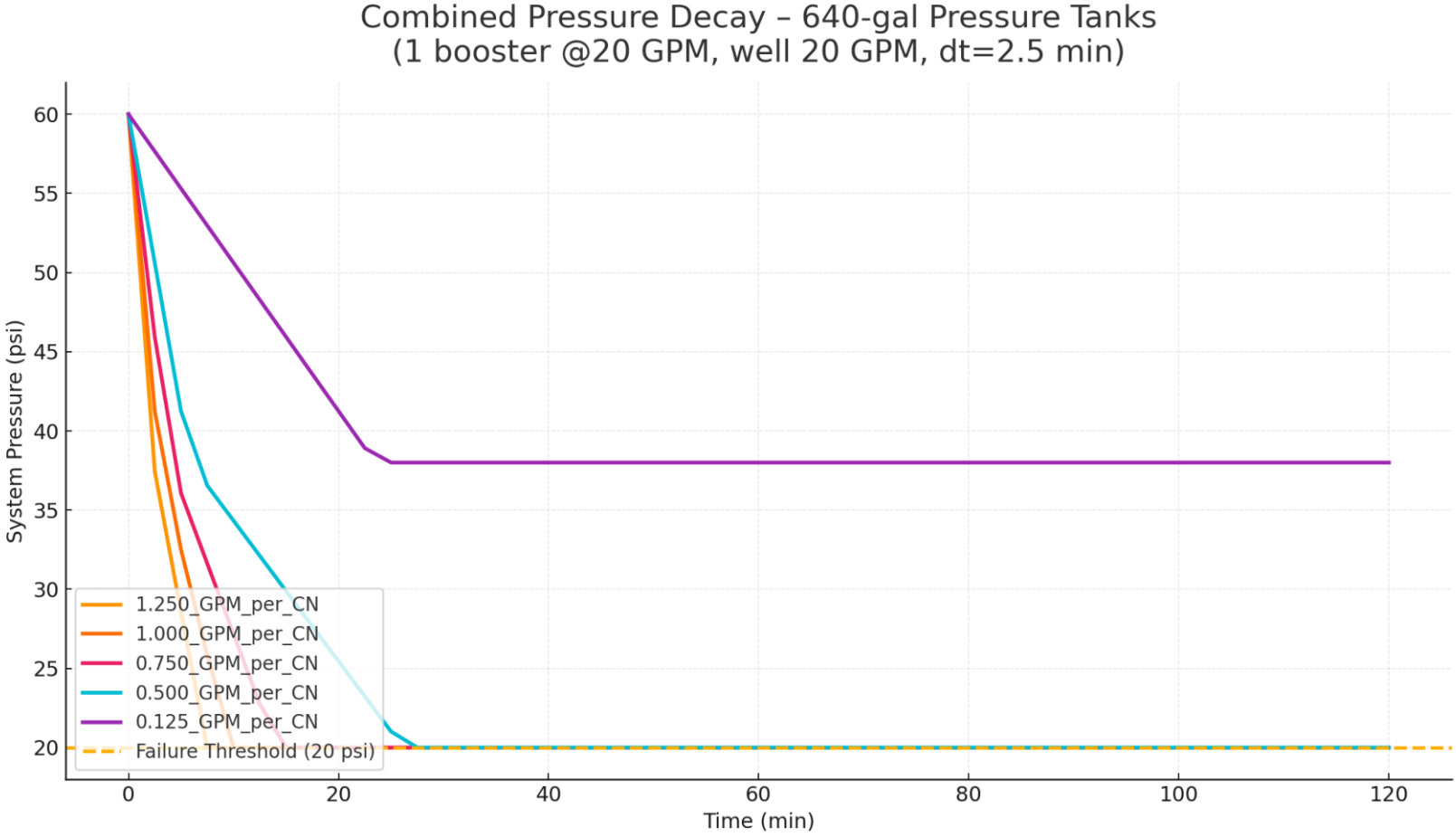
1) System Description & Parameters

- Pressure tank effective volume (model): 640 gal
- Booster pump(s): one @ 20 GPM (cut-in = 38 psi; cut-out/initial = 60 psi)
- Well (supply): 20 GPM (steady)
- Failure threshold: 20 psi
- Connection nodes: 80
- Flow scenarios per CN: 1.250, 1.000, 0.750, 0.500, 0.125 GPM
- Time step: 2.5 min; Simulation duration: 120.0 min

2) Methodology & Equations (script-conformant)

- Phase-split of pressure tank drawdown using proportion of pressure drop:
  $V_{phase1} = V_{TANK} \times (P_{OUT} - P_{IN}) / P_{OUT}$
  $V_{phase2} = V_{TANK} - V_{phase1}$
- Phase 1 ($P_{OUT} \rightarrow P_{IN}$):
  $t1 = V_{phase1} / Q_{total}$;  $P(t) = P_{OUT} - ((P_{OUT} - P_{IN})/t1) \cdot t$
- Phase 2 ($\leq P_{IN}$): booster provides 20 GPM; deficit $dQ = Q_{total} - 20$
  If $dQ>0$: $t2 = V_{phase2} / dQ$;  $P(t) = P_{IN} - ((P_{IN} - P_{FAIL})/t2) \cdot (t - t1)$ up to $P_{FAIL}$
  If $dQ \leq 0$: P holds at $P_{IN}$ (no further tank drawdown)

Note: The steady well is not throttled in these constant-demand stress tests;
tank drawdown is the dominant buffer to maintain pressure between 60→38→20 psi.


Combined Pressure Decay – 640-gal Pressure Tanks
(1 booster @20 GPM, well 20 GPM, dt=2.5 min)
System Pressure (psi)
Time (min)
60
55
50
45
40
35
30
25
20
0
20
40
60
80
100
120
1.250_GPM_per_CN
1.000_GPM_per_CN
0.750_GPM_per_CN
0.500_GPM_per_CN
0.125_GPM_per_CN
Failure Threshold (20 psi)

## Scenario Table – 1.250 GPM per CN (Total Demand = 100 GPM)

| Time (min) | System Pressure (psi) | Total Demand (GPM) | Booster Flow (GPM) | Net Deficit (GPM) | Pressure Tank Volume Remaining (g |
|---|---|---|---|---|---|
| 0.0 | 60.0 | 100.0 | 0.0 | 100.0 | 640.0 |
| 2.5 | 37.46 | 100.0 | 20.0 | 80.0 | 393.07 |
| 5.0 | 28.57 | 100.0 | 20.0 | 80.0 | 193.07 |
| 7.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 10.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 12.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 15.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 17.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 20.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 22.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 25.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 27.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 30.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 32.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 35.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 37.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 40.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 42.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 45.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 47.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 50.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 52.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 55.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 57.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 60.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 62.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 65.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 67.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 70.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 72.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 75.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 77.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 80.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 82.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 85.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 87.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 90.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 92.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 95.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 97.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 100.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 102.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 105.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 107.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 110.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 112.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 115.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 117.5 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |
| 120.0 | 20.0 | 100.0 | 20.0 | 80.0 | 0.0 |

## Scenario Table – 1.000 GPM per CN (Total Demand = 80 GPM)

| Time (min) | System Pressure (psi) | Total Demand (GPM) | Booster Flow (GPM) | Net Deficit (GPM) | Pressure Tank Volume Remaining (g |
|---|---|---|---|---|---|
| 0.0 | 60.0 | 80.0 | 0.0 | 80.0 | 640.0 |
| 2.5 | 41.25 | 80.0 | 0.0 | 80.0 | 440.0 |
| 5.0 | 32.49 | 80.0 | 20.0 | 60.0 | 281.33 |
| 7.5 | 25.83 | 80.0 | 20.0 | 60.0 | 131.33 |
| 10.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 12.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 15.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 17.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 20.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 22.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 25.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 27.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 30.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 32.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 35.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 37.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 40.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 42.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 45.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 47.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 50.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 52.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 55.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 57.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 60.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 62.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 65.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 67.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 70.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 72.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 75.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 77.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 80.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 82.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 85.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 87.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 90.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 92.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 95.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 97.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 100.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 102.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 105.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 107.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 110.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 112.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 115.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 117.5 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |
| 120.0 | 20.0 | 80.0 | 20.0 | 60.0 | 0.0 |

## Scenario Table – 0.750 GPM per CN (Total Demand = 60 GPM)

| Time (min) | System Pressure (psi) | Total Demand (GPM) | Booster Flow (GPM) | Net Deficit (GPM) | Pressure Tank Volume Remaining (g |
|---|---|---|---|---|---|
| 0.0 | 60.0 | 60.0 | 0.0 | 60.0 | 640.0 |
| 2.5 | 45.94 | 60.0 | 0.0 | 60.0 | 490.0 |
| 5.0 | 36.07 | 60.0 | 20.0 | 40.0 | 361.78 |
| 7.5 | 31.62 | 60.0 | 20.0 | 40.0 | 261.78 |
| 10.0 | 27.18 | 60.0 | 20.0 | 40.0 | 161.78 |
| 12.5 | 22.74 | 60.0 | 20.0 | 40.0 | 61.78 |
| 15.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 17.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 20.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 22.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 25.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 27.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 30.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 32.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 35.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 37.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 40.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 42.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 45.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 47.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 50.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 52.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 55.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 57.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 60.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 62.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 65.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 67.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 70.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 72.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 75.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 77.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 80.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 82.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 85.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 87.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 90.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 92.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 95.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 97.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 100.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 102.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 105.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 107.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 110.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 112.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 115.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 117.5 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |
| 120.0 | 20.0 | 60.0 | 20.0 | 40.0 | 0.0 |

## Scenario Table – 0.500 GPM per CN (Total Demand = 40 GPM)

| Time (min) | System Pressure (psi) | Total Demand (GPM) | Booster Flow (GPM) | Net Deficit (GPM) | Pressure Tank Volume Remaining (g |
|---|---|---|---|---|---|
| 0.0 | 60.0 | 40.0 | 0.0 | 40.0 | 640.0 |
| 2.5 | 50.62 | 40.0 | 0.0 | 40.0 | 540.0 |
| 5.0 | 41.25 | 40.0 | 0.0 | 40.0 | 440.0 |
| 7.5 | 36.55 | 40.0 | 20.0 | 20.0 | 372.67 |
| 10.0 | 34.33 | 40.0 | 20.0 | 20.0 | 322.67 |
| 12.5 | 32.11 | 40.0 | 20.0 | 20.0 | 272.67 |
| 15.0 | 29.89 | 40.0 | 20.0 | 20.0 | 222.67 |
| 17.5 | 27.67 | 40.0 | 20.0 | 20.0 | 172.67 |
| 20.0 | 25.45 | 40.0 | 20.0 | 20.0 | 122.67 |
| 22.5 | 23.23 | 40.0 | 20.0 | 20.0 | 72.67 |
| 25.0 | 21.01 | 40.0 | 20.0 | 20.0 | 22.67 |
| 27.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 30.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 32.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 35.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 37.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 40.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 42.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 45.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 47.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 50.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 52.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 55.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 57.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 60.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 62.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 65.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 67.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 70.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 72.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 75.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 77.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 80.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 82.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 85.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 87.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 90.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 92.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 95.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 97.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 100.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 102.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 105.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 107.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 110.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 112.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 115.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 117.5 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |
| 120.0 | 20.0 | 40.0 | 20.0 | 20.0 | 0.0 |

## Scenario Table – 0.125 GPM per CN (Total Demand = 10 GPM)

| Time (min) | System Pressure (psi) | Total Demand (GPM) | Booster Flow (GPM) | Net Deficit (GPM) | Pressure Tank Volume Remaining (g |
|---|---|---|---|---|---|
| 0.0 | 60.0 | 10.0 | 0.0 | 10.0 | 640.0 |
| 2.5 | 57.66 | 10.0 | 0.0 | 10.0 | 615.0 |
| 5.0 | 55.31 | 10.0 | 0.0 | 10.0 | 590.0 |
| 7.5 | 52.97 | 10.0 | 0.0 | 10.0 | 565.0 |
| 10.0 | 50.62 | 10.0 | 0.0 | 10.0 | 540.0 |
| 12.5 | 48.28 | 10.0 | 0.0 | 10.0 | 515.0 |
| 15.0 | 45.94 | 10.0 | 0.0 | 10.0 | 490.0 |
| 17.5 | 43.59 | 10.0 | 0.0 | 10.0 | 465.0 |
| 20.0 | 41.25 | 10.0 | 0.0 | 10.0 | 440.0 |
| 22.5 | 38.91 | 10.0 | 0.0 | 10.0 | 415.0 |
| 25.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 27.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 30.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 32.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 35.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 37.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 40.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 42.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 45.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 47.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 50.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 52.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 55.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 57.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 60.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 62.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 65.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 67.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 70.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 72.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 75.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 77.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 80.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 82.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 85.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 87.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 90.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 92.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 95.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 97.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 100.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 102.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 105.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 107.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 110.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 112.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 115.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 117.5 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |
| 120.0 | 38.0 | 10.0 | 20.0 | 0.0 | 405.33 |