

Drip System Output:

Rows: 4

Emitters/Row: 200

Total Emitters/Plot: 800 x 15.3 mls/min/emitter (from output check Part 6C)

A = 12,240 mls/min (for whole plot)

+ 3785 mls/gal
x 60 min/hr

B = 194.0 gals/hr

Plot 4,000 - sq. ft. (from Part 5C & 6A)

+ 43560 sq. ft. / ac

C = .091827 acres

x 13577 gallons/1/2 Acre-Inch

D = 1247 gallons

Time to Apply Irrigation = 6.4 hours (dividing gals D by gals/hr B above)

x 0.25 x 60 min/hr

F = 96 minutes for first 1/4 of irrigation

x 0.33 x 60 min/hr

G = 126 minutes for first 1/3 of irrigation

Irrigation Volume Delivery Check

403 min/60 total irrigation time (hours)

x gals/hr B = 1303 actual gallons applied

± gallons calculated D x 100% = 104 % of target

Actual amount applied is ± 10% of 1/2 acre inch per protocol:
 Yes No

Injector System Output & TS Dilution volume

(from calibration)

Start Volume: 4000 - mls

End Volume: 1950 - mls

Difference: 2050 mls 1/4 seconds

÷ 60 seconds/minute = 28.53 minutes

Injector Output J 71.85 mls/min

Volume for 1/4 irrigation time: 6898 - mls (multiplying 1/4 time F x injector output J)

Volume for 1/3 irrigation time: 9053 mls (multiplying 1/3 time G x injector output J)

Test Substance rate (formulated product): 570 mls/acre (from protocol)

Chosen Dilution Volume (from Part 6G): 7000 mls

Test Substance amt (Rate K x Acres C): 52.34 mls

Estimated Injection Time (Chosen Volume L ÷ Injector Output J) ~97 min

Actual Injection Time (from Part 6I): 125 min

Chosen dilution volume falls between amounts required for 1/4 to 1/3 of irrigation, per protocol requirements.
 Yes No

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 Data entered by:

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 Date: