Figuring Water Demand for 1 Acre of Chestnut Trees Using 16 mm Drip Tubing with 24" O.C. Emitters

$$\frac{\text{Total length of dripperline rows (ft.)}}{\text{Emitter spacing in ft.}} = \text{Total emitters in plantation}$$

OR

$$\frac{180' \times 7 \text{ rows} = 1560 \text{ ft.}}{2 \text{ ft.}} = 780 \text{ emitters}$$

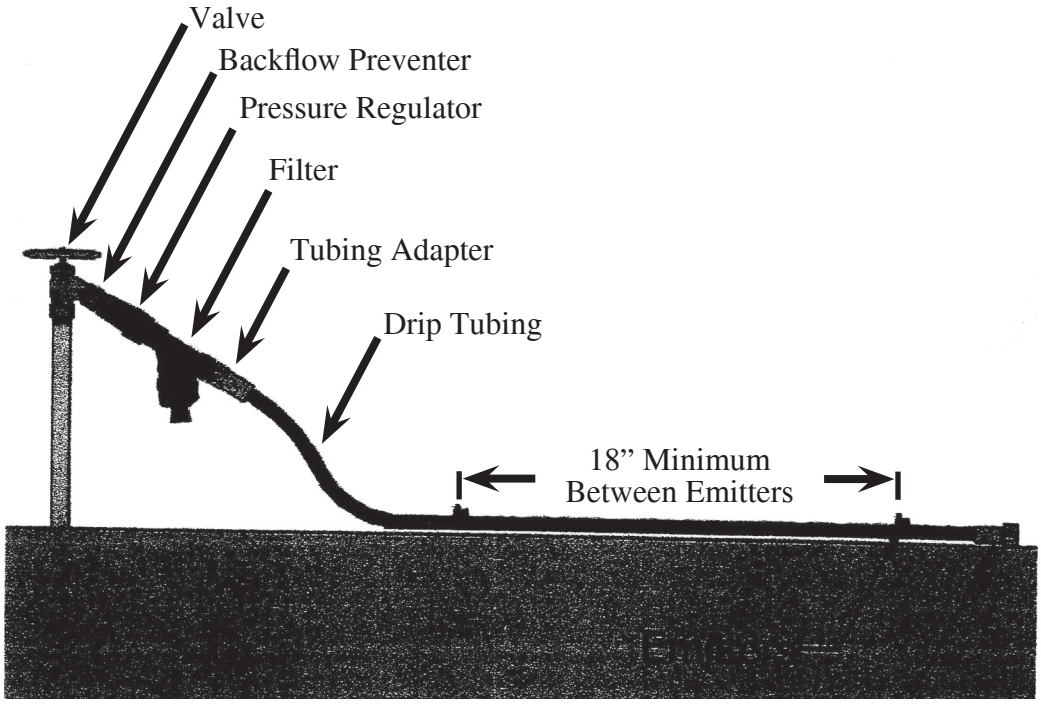
$$\text{No. of emitters} \times \frac{\text{flow/emitter}}{\text{(gal./hr.)}} = \text{Total gal./hr. for plantation}$$

OR

$$780 \text{ emitters} \times .63 \text{ gal./hr./emitter} = 491.4 \text{ gal./hr. for plantation}$$

$$\frac{491.4 \text{ gal./hr.}}{60 \text{ min./hr.}} = 8.19 \text{ gal./min.}$$

Simple Supply Riser



Irrigation for 1 Acre of Chestnut Trees
(49 Trees 30’ x 30’ Spacing)