

**STOCKWATER PIPELINE  
RESOURCE INVENTORY WORKSHEET**

Land user \_\_\_\_\_

Job description \_\_\_\_\_

Farm No. \_\_\_\_\_ Tract No. \_\_\_\_\_ Field No. \_\_\_\_\_ County \_\_\_\_\_

Planner \_\_\_\_\_ Date \_\_\_\_\_ Checked by \_\_\_\_\_ Date \_\_\_\_\_

Type of livestock \_\_\_\_\_

Type of grazing system: /\_/ Conventional /\_/ Intensive

Maximum number of livestock (No.) \_\_\_\_\_

Typical dates stock will be in field: From \_\_\_\_\_ to \_\_\_\_\_

Water requirements per head (V) \_\_\_\_\_ gal/day/head at peak use.

Total usage per day (T) = no x V = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ gal/day..

Add 10% for evaporation and spillage: (GT) = T + 10% T (optional)

$$GT = \text{_____} + .10 \times \text{_____} = \text{_____} \text{ gal/day}$$

$$\text{Minimum required flow rate (Qm)} = \frac{GT}{1440} = \frac{\text{_____}}{1440} = \text{_____} \text{ gpm}$$

Desired number of hours for entire days needs to be delivered:

$$TT = \text{_____} \text{ hrs}$$

$$\text{Design Flow Rate: (Q)} = \frac{24}{TT} \times Qm$$

$$Q = \frac{24}{\text{_____}} \times \text{_____} = \text{_____} \text{ gpm}$$

Desired reserve storage time (RST) = \_\_\_\_\_ days

Total reserve storage required (RS) = RST x GT

$$RS = \text{_____} \times \text{_____} = \text{_____} \text{ gallons total storage in pasture.}$$

Other water sources available in the field: \_\_\_\_\_

Dependability of water sources: \_\_\_\_\_

Quality of water sources: \_\_\_\_\_

Comments: \_\_\_\_\_