

### STOCKWATER PIPELINE RESOURCE INVENTORY WORKSHEET

Land user \_\_\_\_\_ Field Office \_\_\_\_\_

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

Location \_\_\_\_\_

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 x 1.1 (optional)

GT = \_\_\_\_\_ x 1.1 = \_\_\_\_\_ gal/day

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

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

TOT (Total Operating Time/Day) = \_\_\_\_\_ hrs

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

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

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

Total reserve storage required: (RS) = RST x GT

RS = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ gallons total storage in pasture.

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

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

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

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