

WATERING FACILITY - DESIGN AND CHECK SHEET

Cooperator: _____ Location: _____

Conservation District: _____ Field Office: _____

Identification No.: _____ Field No.: _____

Automatic Water Level Control Valve \geq _____ gpm
 Valve: _____ in.
 Capacity _____ gal.
 Hose Diameter: _____ in.
 Guard Post:
 Size: _____
 Type: _____
 Ramp
 Trough base
 Pipe Strap
 Ground Slope To Drain
 Depth of Cover _____ inches
 Pipeline:
 Type: _____
 Pressure Rating: _____ psi
 Diameter: _____ in.

(Not To Scale)

Trough or tank material: _____
 Trough base material and thickness: _____
 Ramp material and thickness: _____

Designed by: _____ Date: _____ Checked By: _____ Date: _____

Approved by: _____ Date: _____

Construction Check

Tank #							
Size of trough, gal							

Material used for trough: _____

Type of ramp used and condition: _____

Comments: _____

Condition of valves, outlet pipe, float, etc.: _____

This practice meets NRCS standards and specifications. _____ Date: _____

 (Signature)

FACT SHEET WATERING FACILITY

The purpose of a watering facility is to provide water for livestock at sites to encourage good grazing land management and reduce health hazards to livestock.

Trough. Troughs are designed to provide a constant water supply. Each trough water storage plus pipe inflow must supply $\frac{1}{2}$ of the daily water requirement in a 2 hour period. The total required storage capacity shall be as follows:

- 7 day water supply if only source is unreliable (wind mill, solar, etc.)
- 3 day water supply for well with electric pump no other source.
- minimum supply when another permanent water source is available.

Type of Livestock	Minimum Trough Capacity (gallons)	Minimum Trough Depth (inches)	Daily Requirement gal. per animal unit per day ^{1/}
Beef Cattle	100	18	12
Dairy Cattle	200	18	25
Horse	100	18	12
Sheep & Goats	15	6	1.5
Swine	16	6	1.5

^{1/} During periods of high temperatures, animals may drink 50% more water.

Trough Materials. Troughs shall be constructed of commercially available galvanized metal, concrete, or other approved materials. Trough and accessories shall be new material.

Floats. Automatic flow control is required to keep the water in the troughs at a constant level and prevent overflow.

Guard Post. Protects pipe riser from livestock or other damage.

Pipeline. Pipeline is sized to provide water to refill the troughs at such a rate that troughs are refilled without running dry. Pipe size is sized considering friction losses in the pipeline, elevation change, and desired pumping rate. Pipeline shall be located so that it is protected from hazards imposed by traffic, farming operations, and freezing temperatures. Pipeline and accessories shall be new material. See pipeline plan for pipeline type, diameter (minimum pipe diameter is 3/4 inch.), lengths, pressure rating, and depth of cover.