

IRRIGATION DESIGN AND SPECIFICATION DATA SHEET
FOR
449 - IRRIGATION WATER MANAGEMENT

Name of Owner _____ S.W.C.D. _____ Plan No. _____

County _____ State _____ Date _____

Prepared by _____

1. DESIGN AREA - (Attach sketch or enlarged aerial photograph or map, showing exact boundaries of the area or areas to be irrigated. Show irrigated (IAcres) and total acreage in each field.)
2. TOPOGRAPHY - (Plot adequate topographic information on aforementioned photo or map. Profiles of proposed main line locations and elevations of points around field boundaries will suffice for uniformly sloping land.)
3. SOILS - Dominant soil series and phase. _____ (show on map also)
Effective depth of profile to irrigate _____ inches
Available water holding capacity of dominant soil type _____ in. ft.
4. WATER SUPPLY - (Show location on photo or map.)

Pond - Maximum Depth _____ Ft., _____ Surface Acres, _____ Ac.Ft.
Well - Diameter _____ Ins., Capacity _____ G.P.M., Drawdown _____ Ft.
Stream - Measured Dry Weather Flow _____ G.P.M.
Quality of Water _____
Distance from Design Area, Horiz. _____ Ft., Vert. _____ ± Ft.

5. CROPS - Rotation
Field No. _____ Crop _____ Acres _____
Field No. _____ Crop _____ Acres _____
Field No. _____ Crop _____ Acres _____

6. LABOR - Hours Required per Day _____, Days per Week _____

7. DESIGN CRITERIA - (Taken from irrigation guide.)

Irrigation Specifications
Maximum application rate _____ inches/hour

Available water holding capacity _____ inches/foot
Moisture to replace each irrigation _____ inches
Design moisture use rate _____ inches/day
Recommended design application rate _____ inches/hour
Irrigation interval _____ days
Suggested application amount (I applied) _____ inches
Maximum time allowable for completion for one irrigation (1I) _____ days

8. MINIMUM SYSTEM CAPACITY

453 x _____ (lacs) x _____ x _____ (I applied)
_____ = _____ gpm
_____ hrs. operated per day x _____ (1I)

9. OTHER SPECIFICATIONS

Type of System:

Supply Line: Portable or Permanent Kind of Pipe _____
Main Line: Portable or Permanent Kind of Pipe _____

Is continuous operation, using extra lateral lines and valves in main line, desired?

Yes _____ No _____

Proposed Power Source: Gasoline Distillate Diesel Gas
Electricity Other _____

Remarks:

10. MINIMUM DESIGN STANDARDS - Minimum standards for the design of this irrigation system shall be those recommended and adapted by the American Society of Agricultural Engineers and the Sprinkler Irrigation Association.

CROSS REFERENCE:

NEM 523