

IWM

Sample Plan

THE FOLLOWING ITEMS NEED TO BE ADDRESSED IN AN IRRIGATION WATER MANAGEMENT PLAN TO PROVIDE THE INFORMATION NECESSARY TO EFFICIENTLY MANAGE AN IRRIGATION SYSTEM.

(When the information is provided elsewhere in the plan, just reference it. If the item is not applicable, indicate N/A.)

Farmer Joe Farmer
 Field office Anywhere
 Technician, date ABC 7-24-78
 Field ID and size (acres) A3, 130.5
 Method of irrigation Center Pivot Sprinkler

RESOURCES

Soils

Name Amarillo FSL
 Intake family or maximum application rate for sprinklers 1.5 in./hr.
 Other restrictions, problems or limitations NONE

Water holding capacity of soil

Depth (ft)	0 - 12"	12 - 24"	24 - 36"	36 - 48"	48 - 60"
Texture	<u>FSL</u>	<u>L</u>	<u>L</u>	<u>L</u>	<u>L</u>
WHC (in)	<u>1.8</u>	<u>1.7</u>	<u>1.7</u>	<u>1.6</u>	<u>1.6</u>

Crops

Cropping pattern Consumptive use data provided
 Planting date _____
 Harvest date _____

Rooting depth (ft)	_____	_____	_____	_____
Peak period water requirement (in/day)	_____	_____	_____	_____
Annual irrigation requirement (in/yr)	_____	_____	_____	_____

Water supply

Kind	<u>Well</u>
Location	<u>by pivot</u>
Quantity (flow rate, acre feet)	<u>850 gpm</u>
Quality	<u>good</u>

Land preparation

Land leveling, land smoothing, access roads and etc.	<u>N/A</u>
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Erosion control

Max. application rates or stream size, tillage practices, mulching, structures and etc.	<u>use stubble mulching to reduce runoff</u>
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Water removal

Surface	<u>N/A</u>
Subsurface	_____

Distribution system

Method (ditch or pipeline)	<u>Well at pivot - NA</u>
Capacity (cfs or gpm)	_____
Size	_____
Length	_____

Location

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Method of irrigation scheduling
(description)

checkbook method provided

Method of water measurement
(description)

Flow meter installed

Method of moisture measurement
(description)

Fact sheet provided to
help farmer decide

CENTER PIVOT SPRINKLER SYSTEM

Wetted radius of center pivot

See Center Pivot Evaluation

Portion of circle irrigated

Wetted radius of end gun

Percent of time end gun is on

Acres irrigated

Length of system

Operating pressure, at pivot (psi)

End gun, capacity (gpm)

End gun, nozzle size (in)

End gun, operating pressure (psi)

End gun, angle of operation

Acreage capacity, peak period

Seasonal irrigation requirement (in/yr)

System capacity

APPLICATION MANAGEMENT

Net application (in.)

System efficiency (%)

Gross application (in.)

Speed control setting (%)

Minimum wetted width needed to meet maximum application rate at end of pivot (ft.)

COMMENTS:

PUMPING PLANT

Total dynamic head

Efficiency

Kind of energy

Energy use rate

Energy use per inch applied


Seasonal operating time

Seasonal energy consumption

See pumping plant

evaluation

COMMENTS:



A vertical line with a downward-pointing arrowhead is positioned in the center of six horizontal lines. The horizontal lines are evenly spaced and extend across the width of the page. The arrowhead is located at the bottom of the vertical line, pointing towards the bottom-most horizontal line.