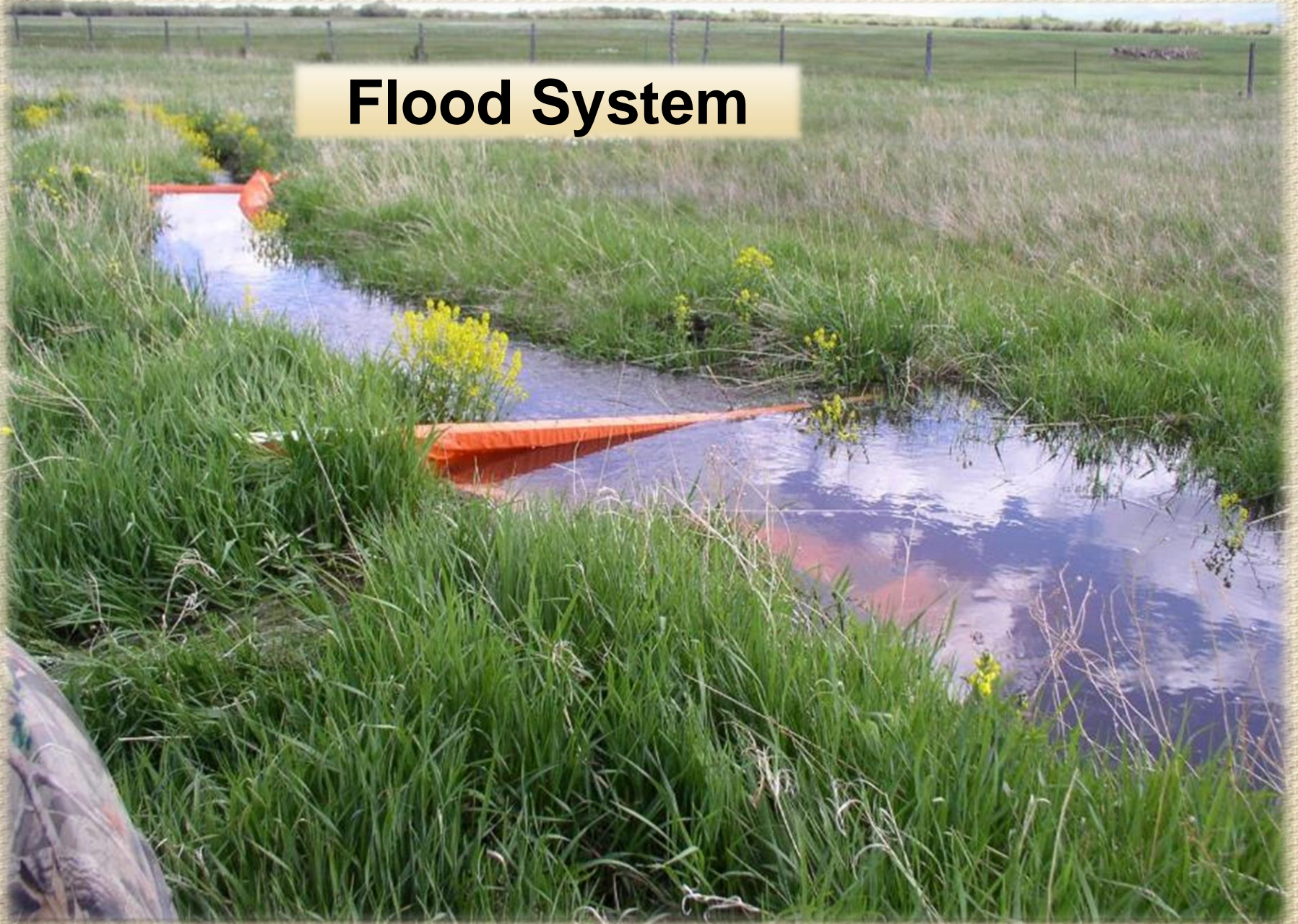
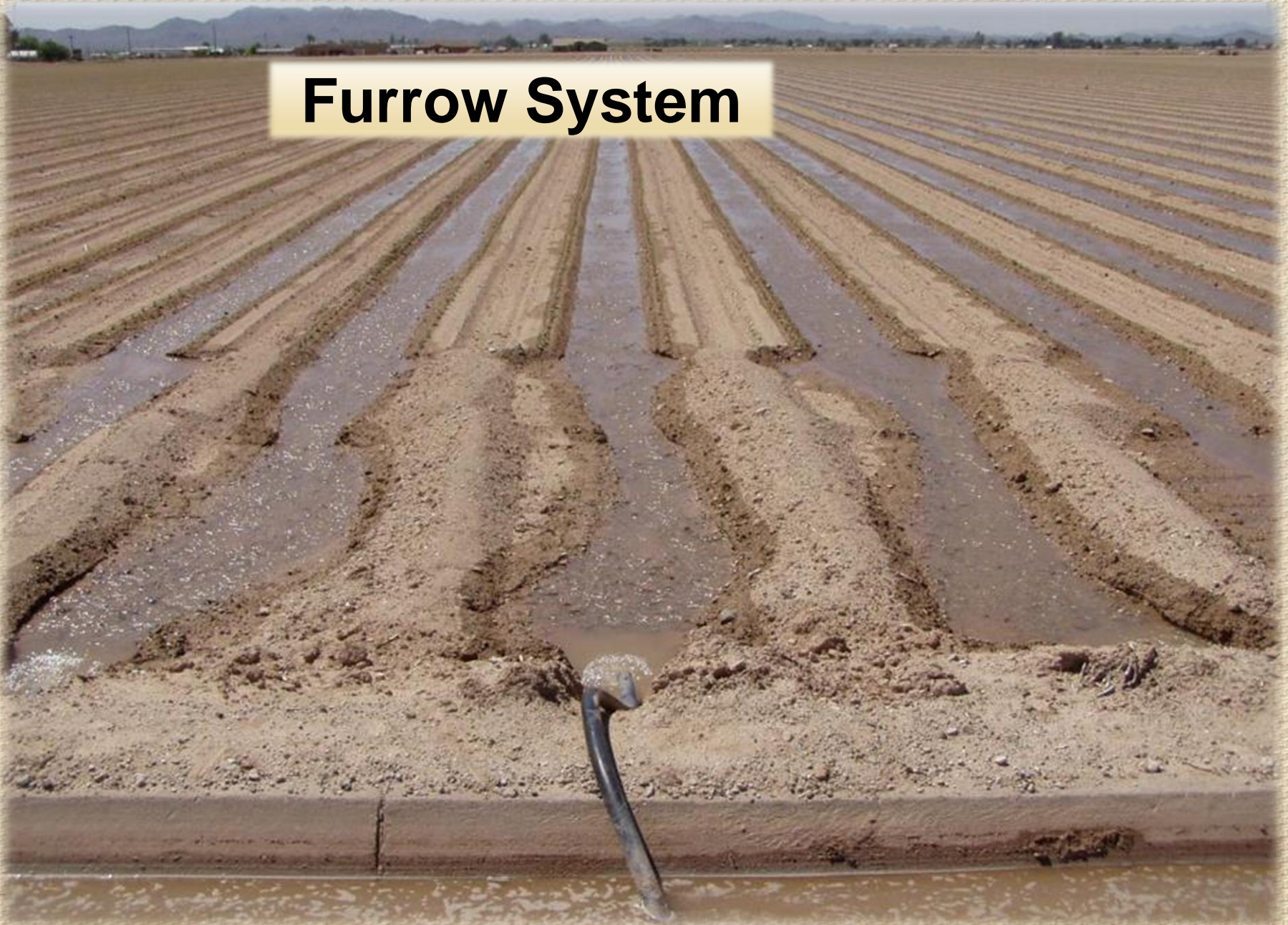


Surface Irrigation Systems

Flood System



Furrow System



Border System



Contour Levees system



Basin System



Basin Dike



Drain back system



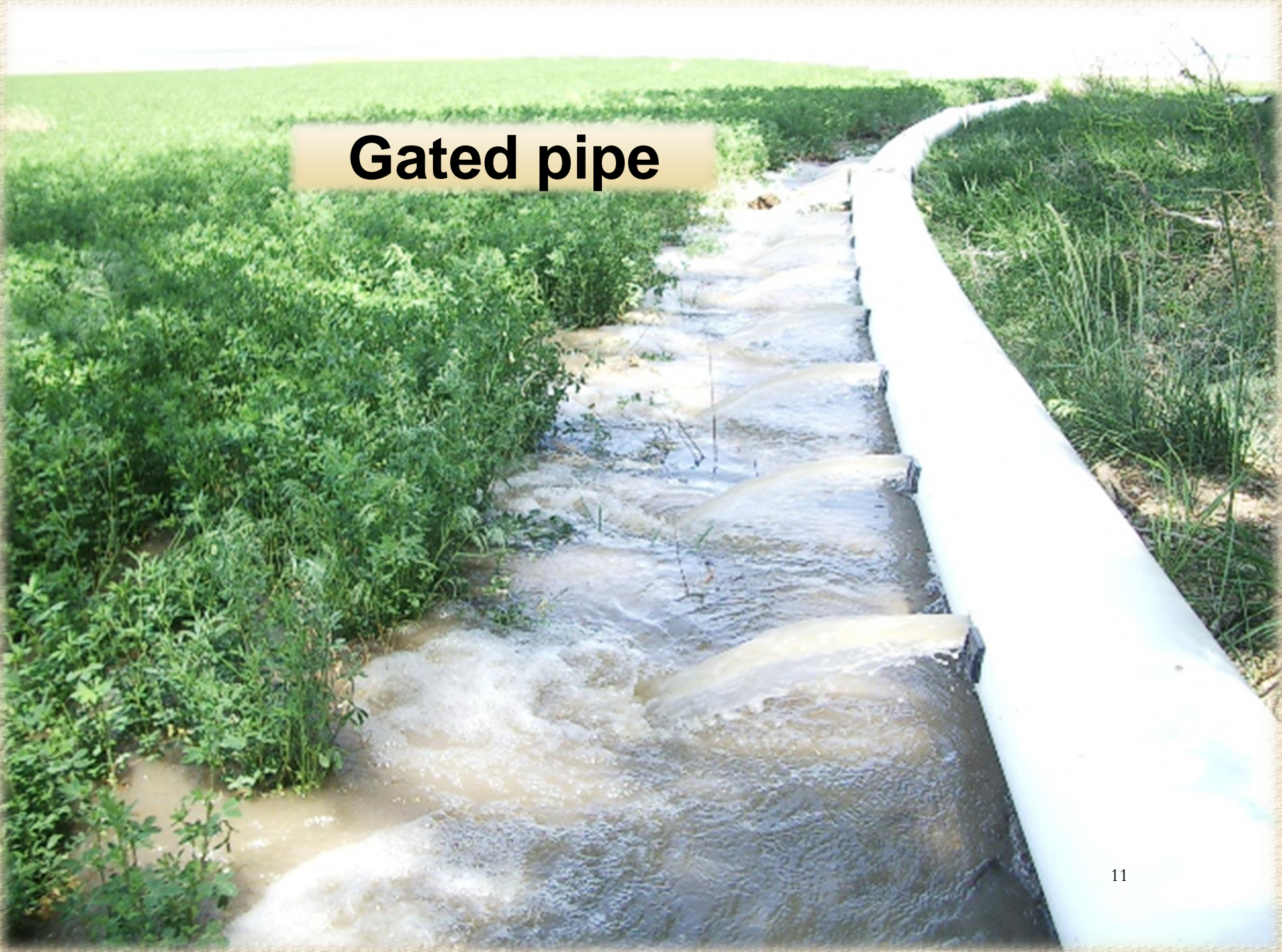
Cut outs control



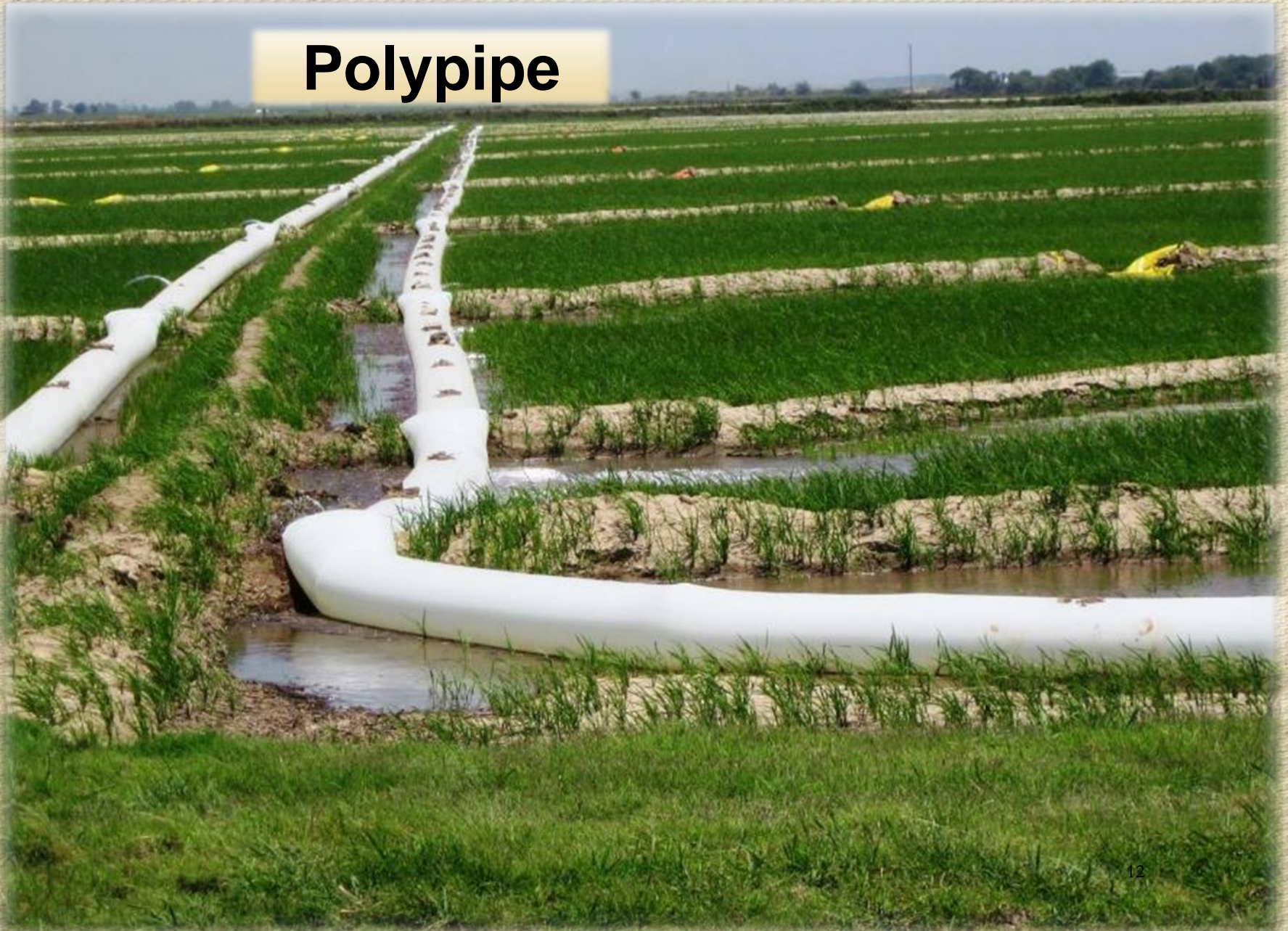
Siphon tubes



Gated pipe



Polypipe



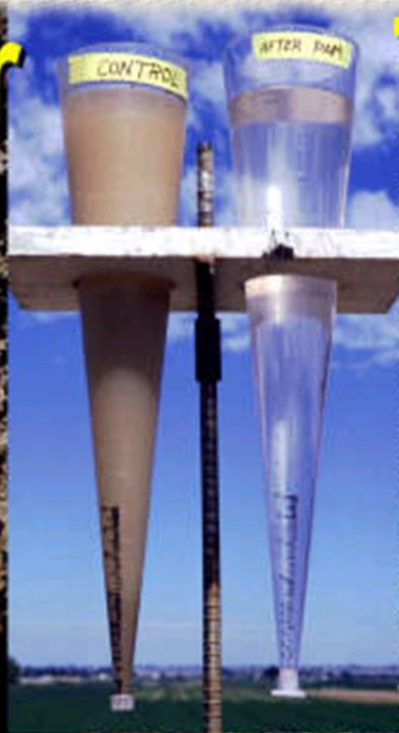
Risers



Erosion



**This is your
irrigated
furrow.**



**This is your
furrow on
PAM!**



Northwest Irrigation and Soils Research Laboratory, Kimberly, Idaho



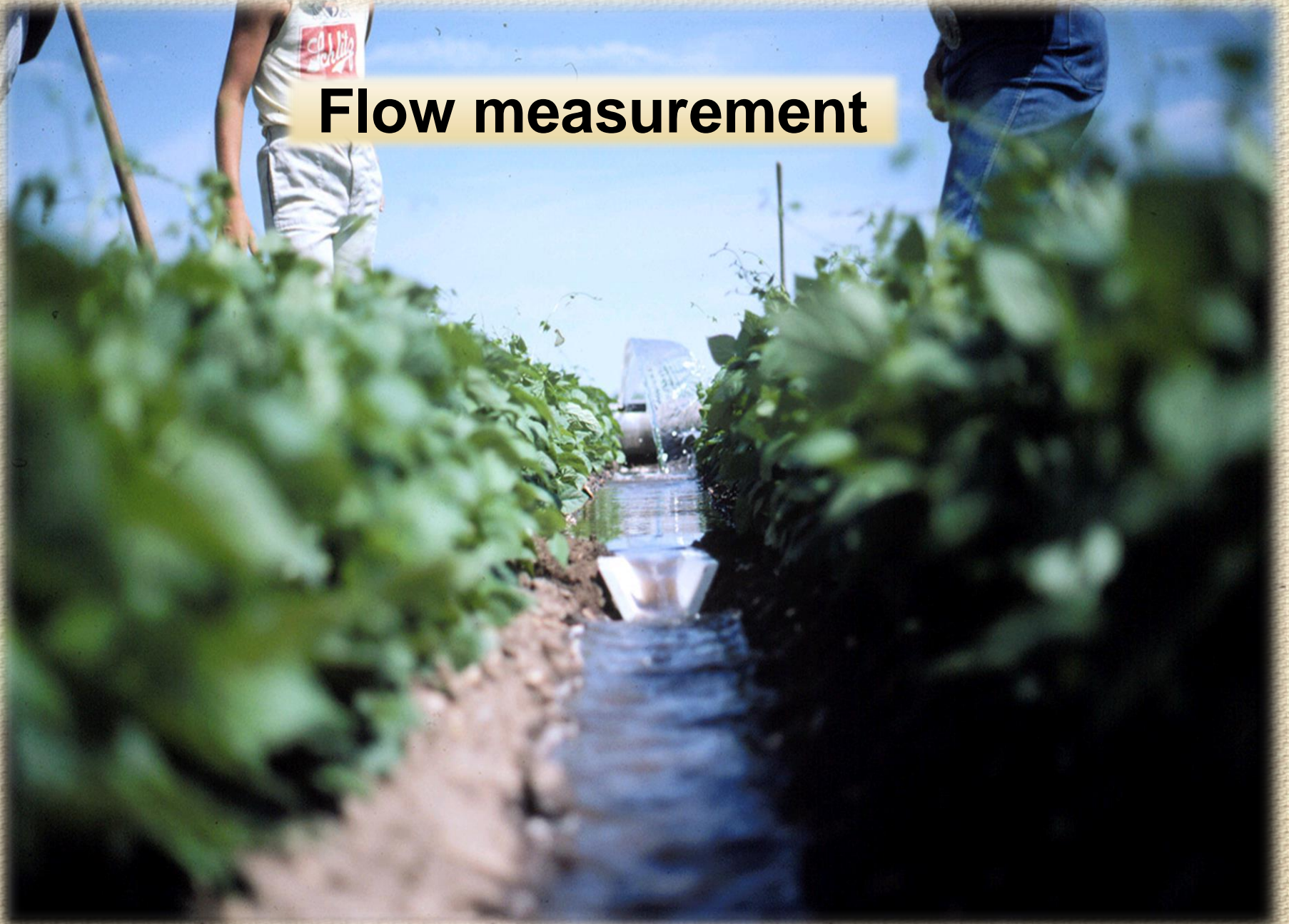
Laser leveling



Leveled Fields



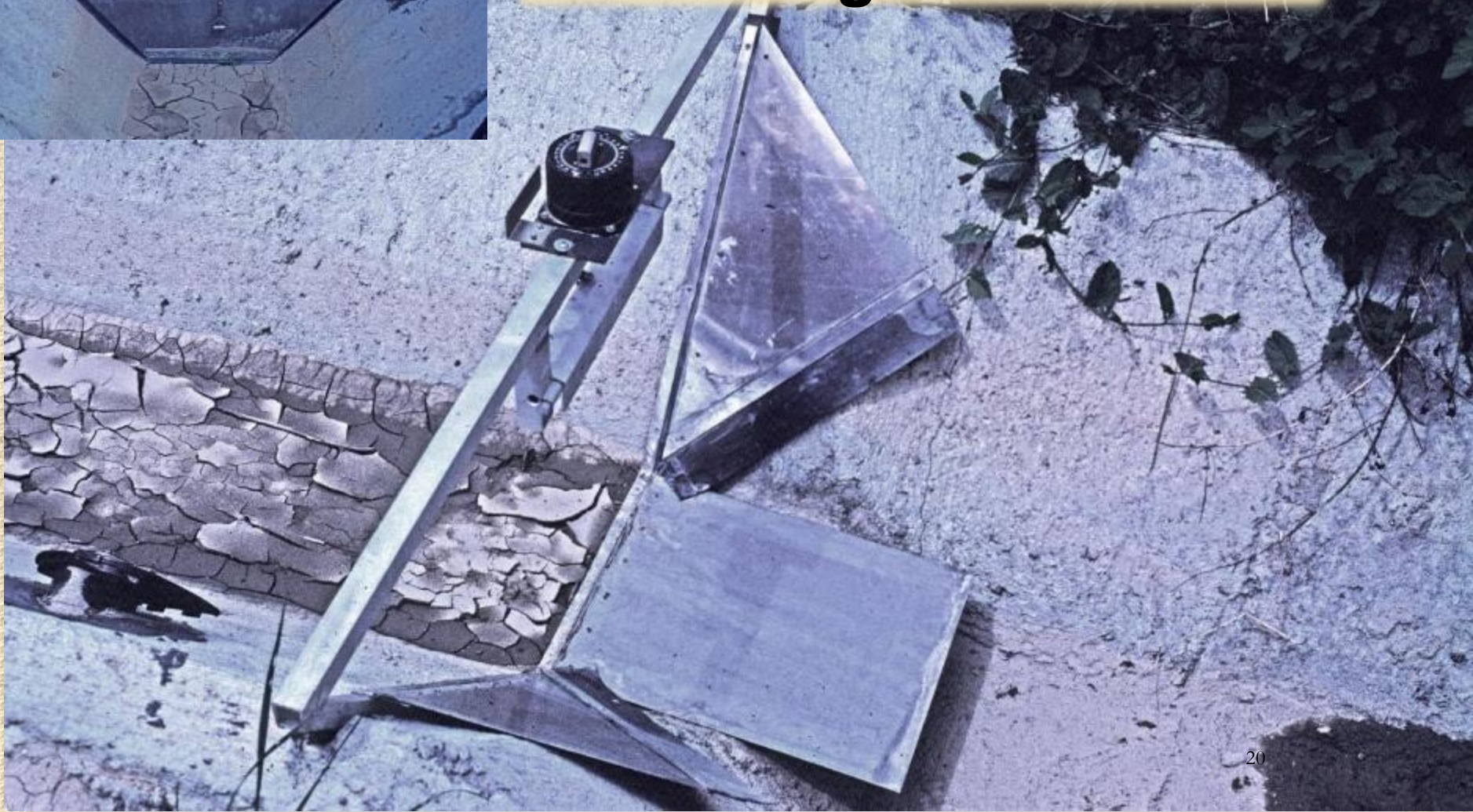
Flow measurement



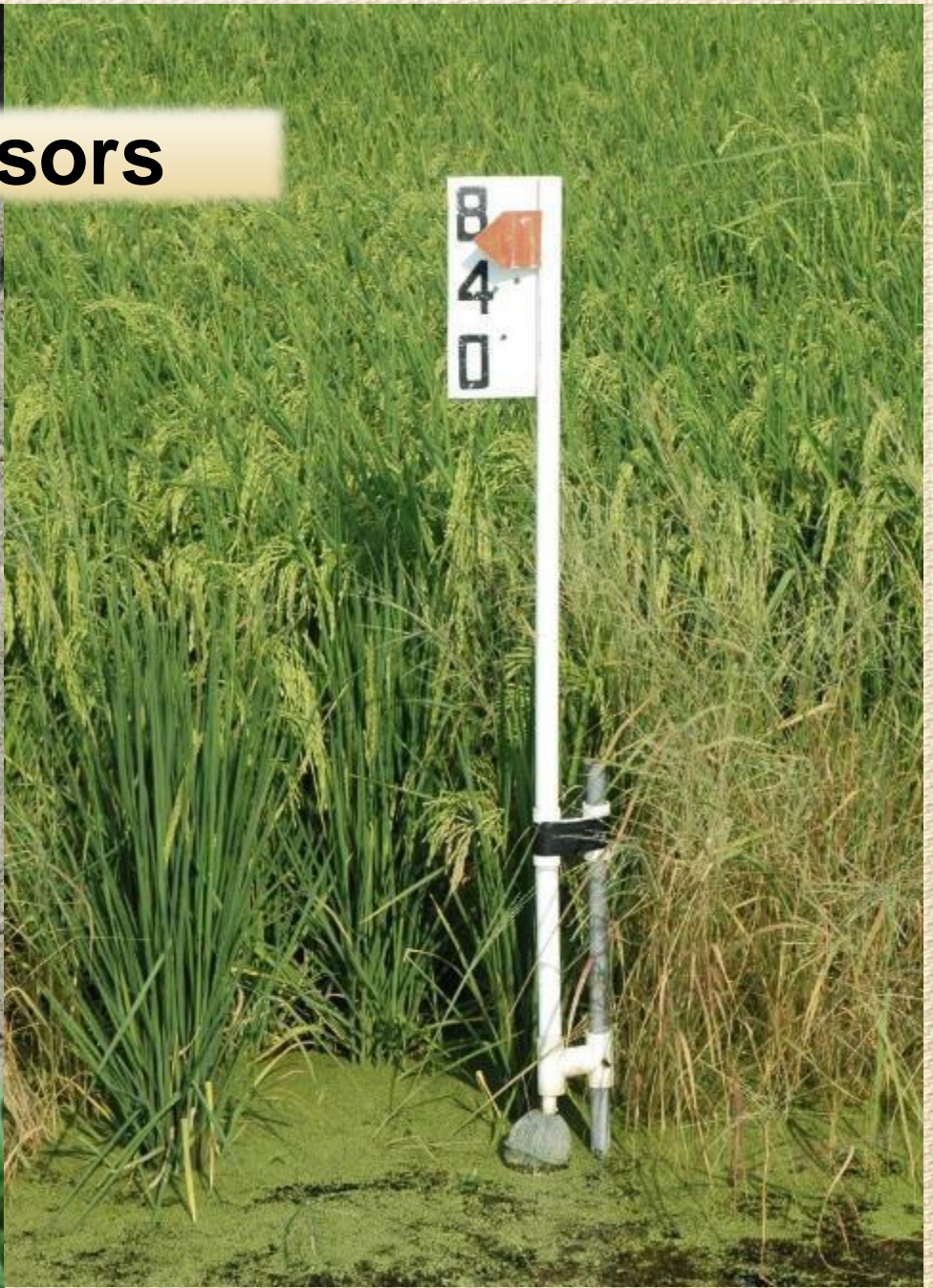
Surge Irrigation/ Automatic valves



Timers and automatic gates



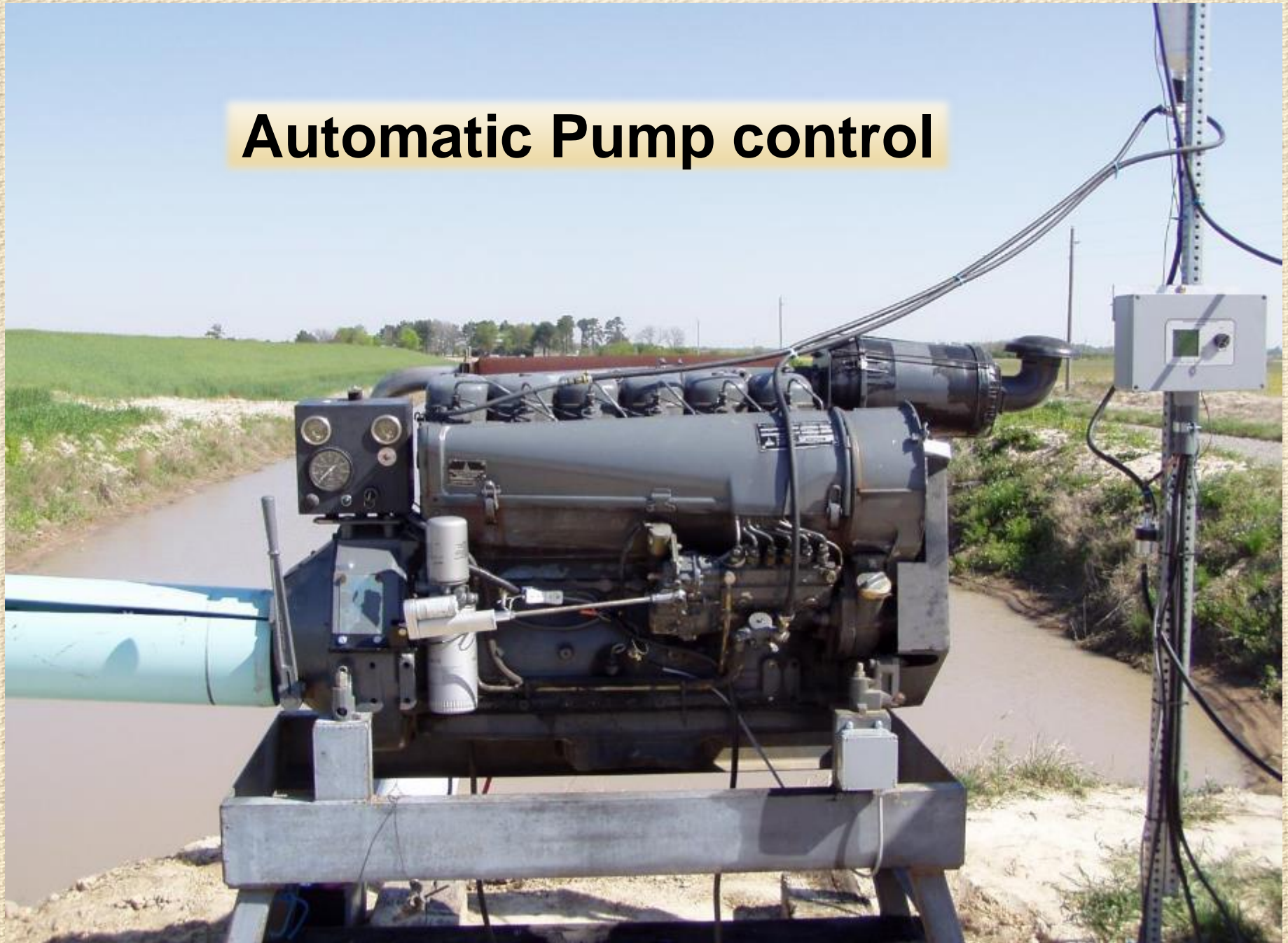
Sensors



Automatic controls with telemetry



Automatic Pump control



Tail water recovery



Sprinkler Irrigation Systems

Pivots



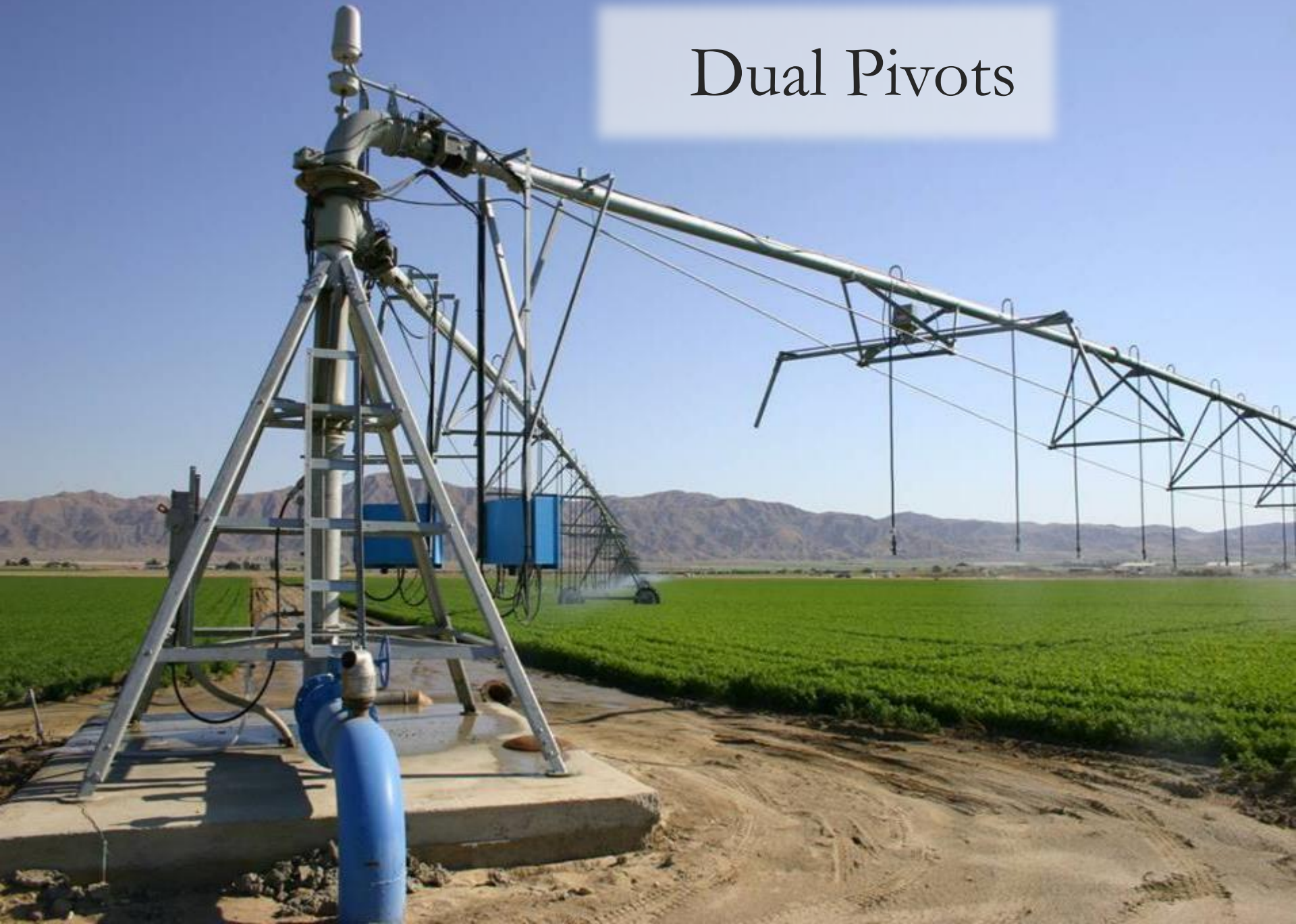
LEPA



Low Energy Precision Application (LEPA)



Dual Pivots



Towable pivot



Corner System





Squares



Buildings in
Corner



Buildings in
Center



Both Ends

Articulated pivots

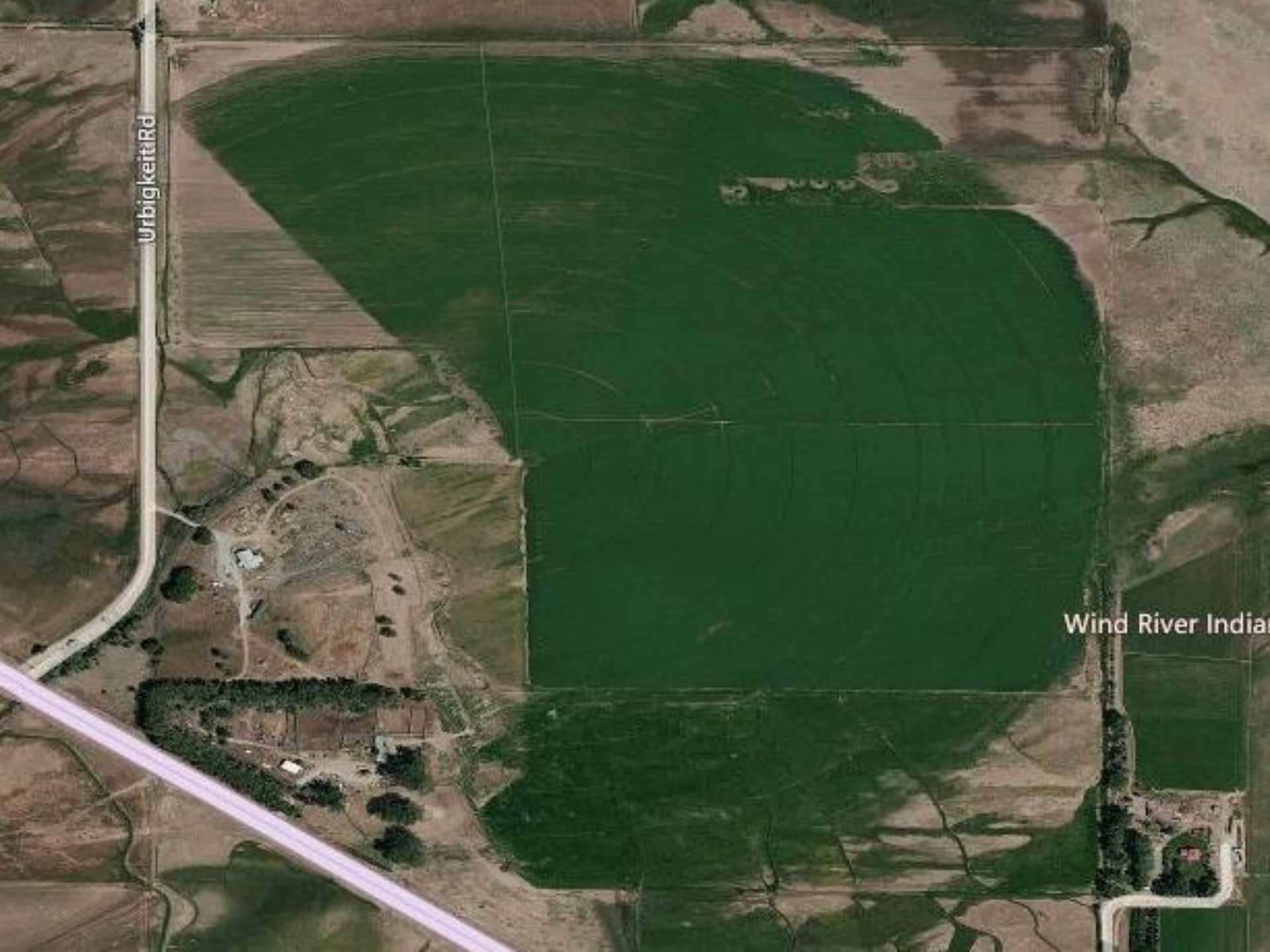
JOINT





Urbigkeri Rd

Wind River Indian



Buried Wire



GPS



Sprays




Low Pressure Irrigation

A black irrigation pipe with a white section is shown in a grassy field. Water is being discharged from the bottom of the pipe, creating a large, shallow, circular pool of water.

Bubble Mode

A black irrigation pipe is shown in a field of green plants. Water is being discharged from the bottom of the pipe, creating a shallow pool of water with visible air bubbles.

Aerated Bubble Mode

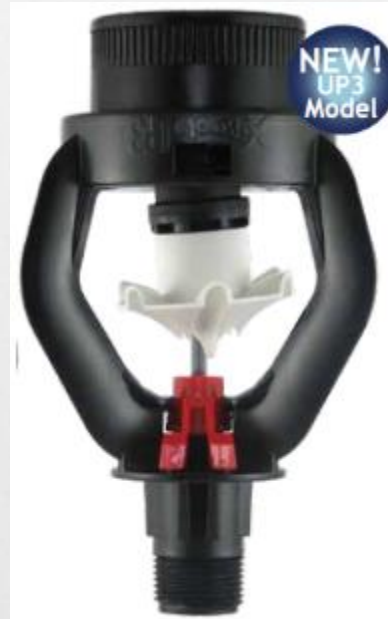
A black irrigation pipe is shown in a field of green plants. Water is being discharged from the bottom of the pipe, creating a fine spray of water.

Spray Mode

A black irrigation pipe is shown in a field of green plants. Water is being discharged from the bottom of the pipe, creating a fine spray of water.

Chemigation Mode

Wobbler



ADVANCED
LATE
TECHNOLOGY



R3000 Rotator



A3000 Accelerator



S3000 Spinner

O3000 Orbitor



N3000 Nutator

T3000 Trash buster



D3000 Spray



Pad style

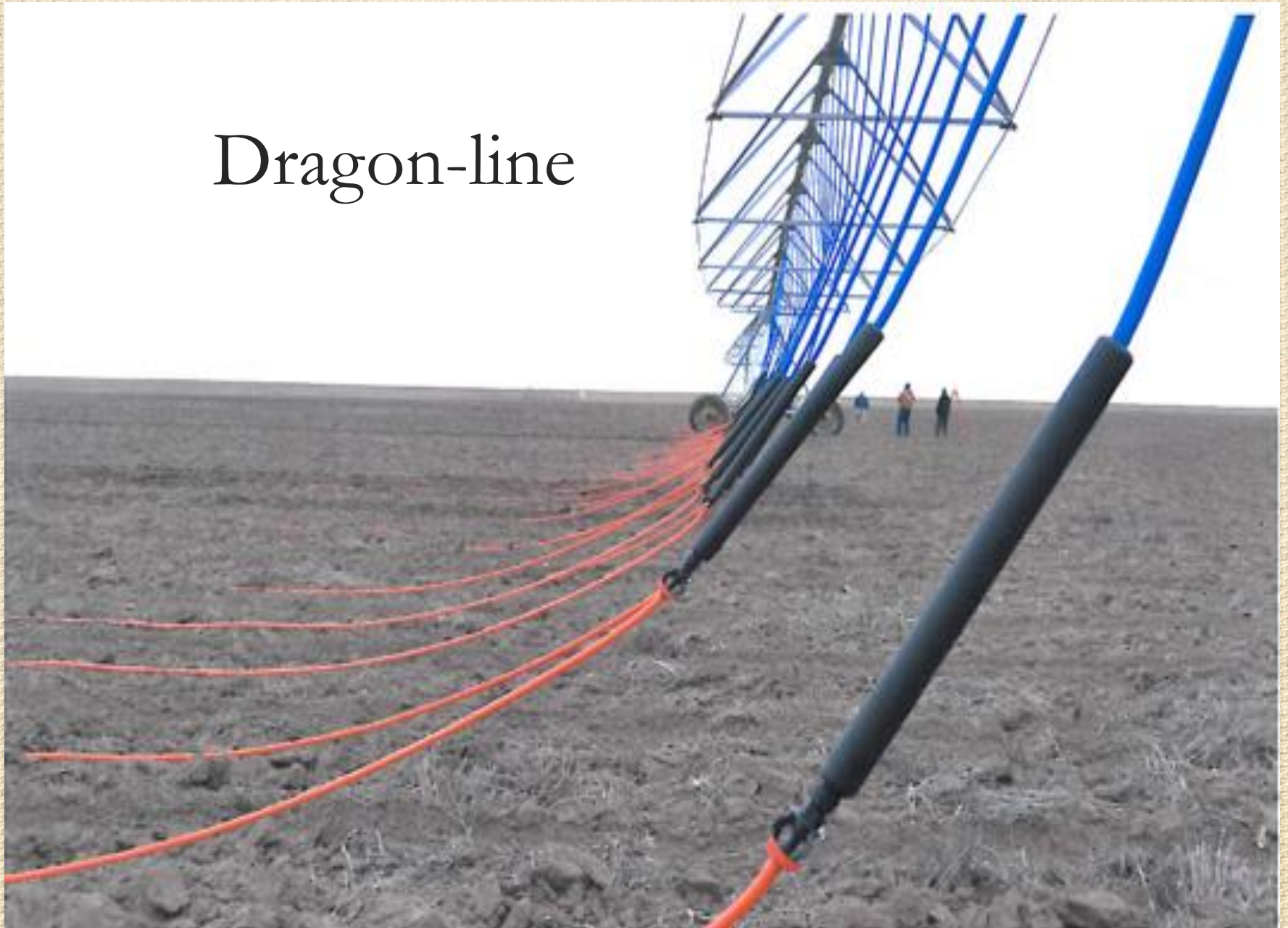
- Smooth Spray Pads
- Medium Groove Spray Pads
- Deep Grooved Spray Pads
- Multi-grove



End Gun and Impact Sprinklers



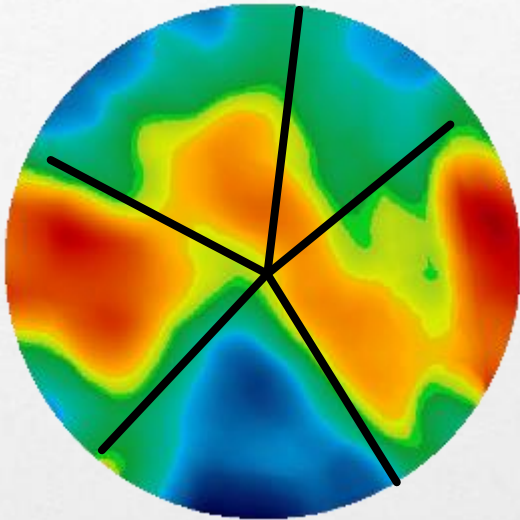
Dragon-line



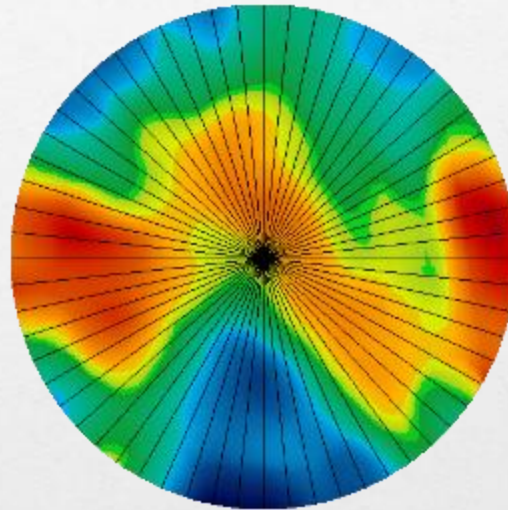


Choices for Precision Irrigation

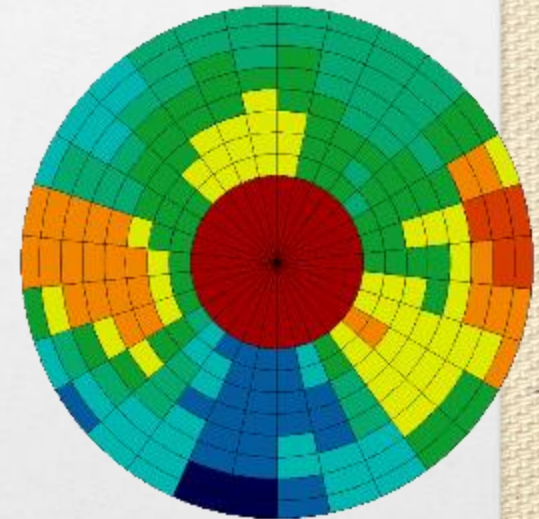
Sector Control



VRI Speed Control



VRI Zone Control



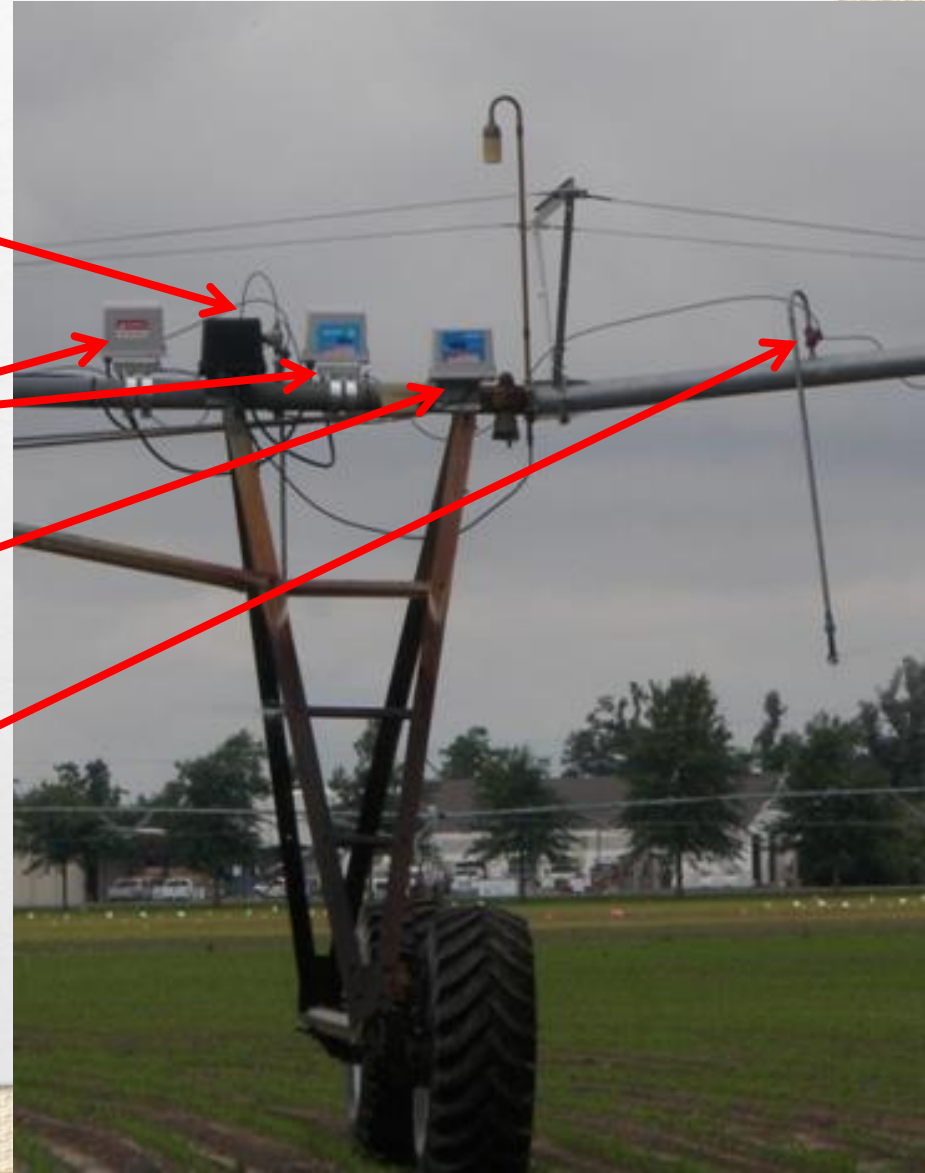
VRI Zone Control Hardware

Last tower box

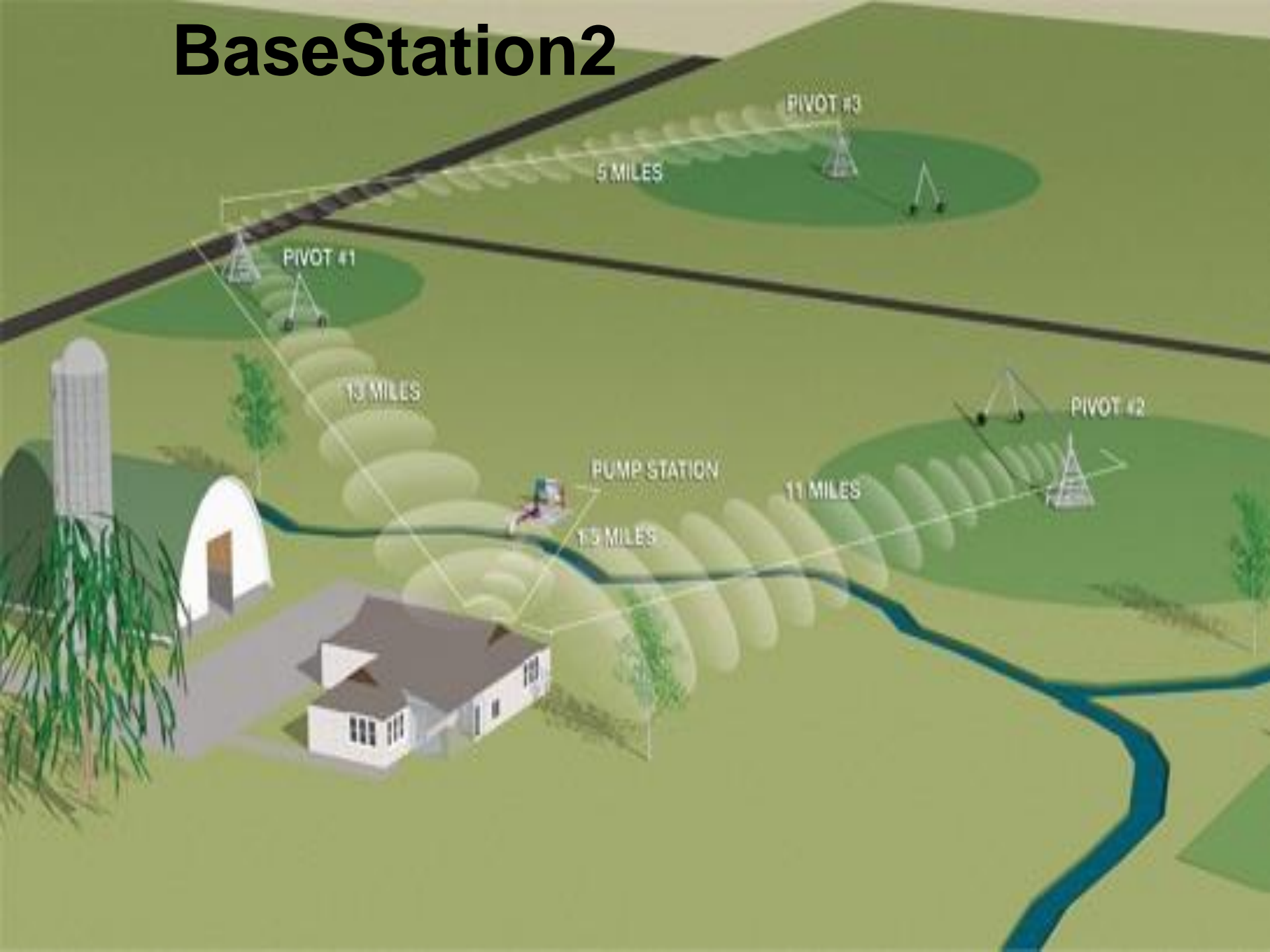
VRI tower box

GPS tower box

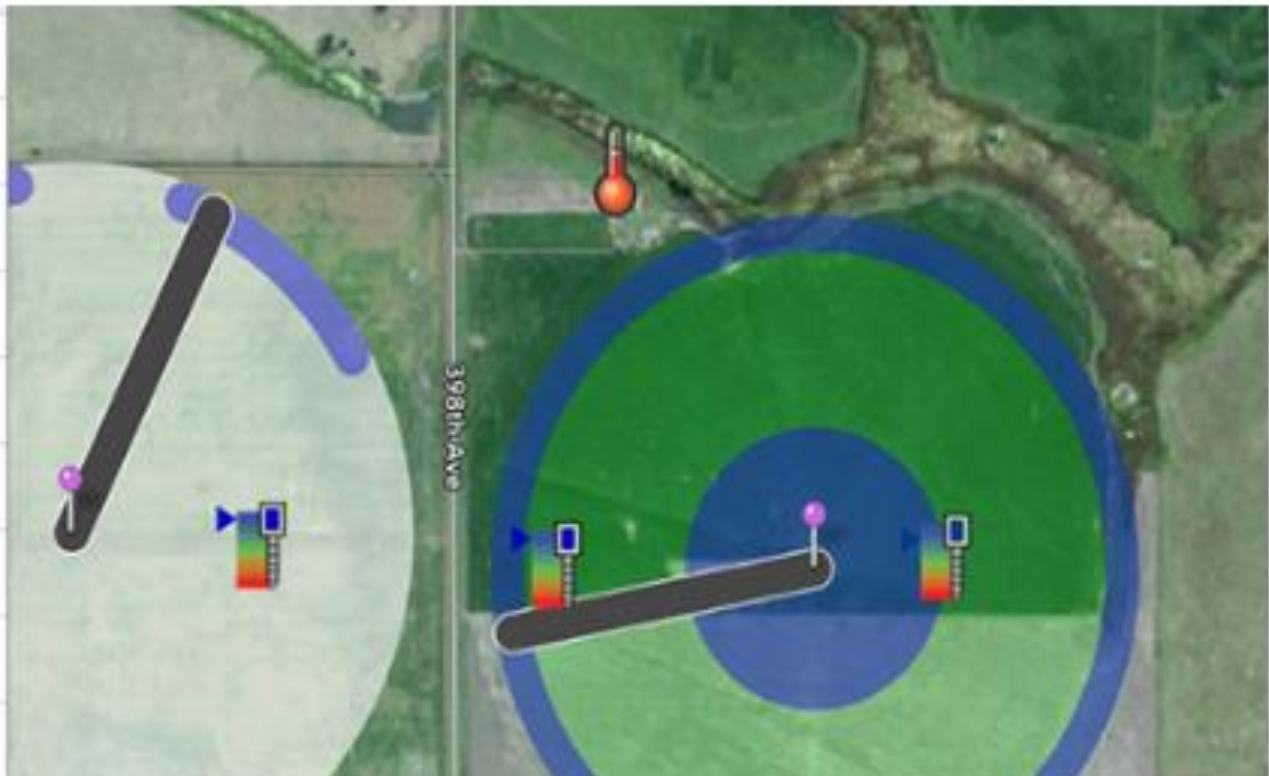
**Sprinkler control
valve**



BaseStation2



-  (133) Pivot Point >
-  72838 Aqua Trac >
-  72840 Aqua Trac >
-  72839 Aqua Trac >
-  Lovett Weather Crop Link >
-  Tsec 21 N Field Commander >
-  T21 north WM Aqua Trac >
-  Tsec 21 North West WM Aqua Trac >
-  Tsec 21 South Field Commander >



-  HOME
-  MAP
-  EQUIPMENT
-  ALERTS (11)
-  REPORTS
-  SETTINGS
-  ADMIN

Registration #: 2012
08:20 AM, CDT

Field Area

Bates Pump Station

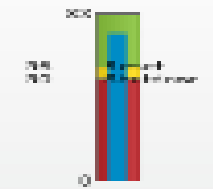
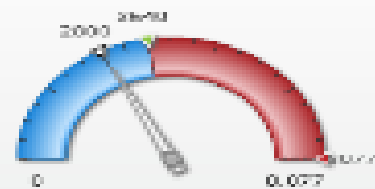
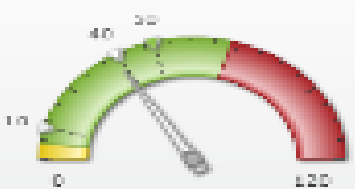
Watertronic's Pump Station



- Dashboard
- Related Equipment
- Pumps
- Properties
- Logs
- Reports
- Schedule Equipment



Running



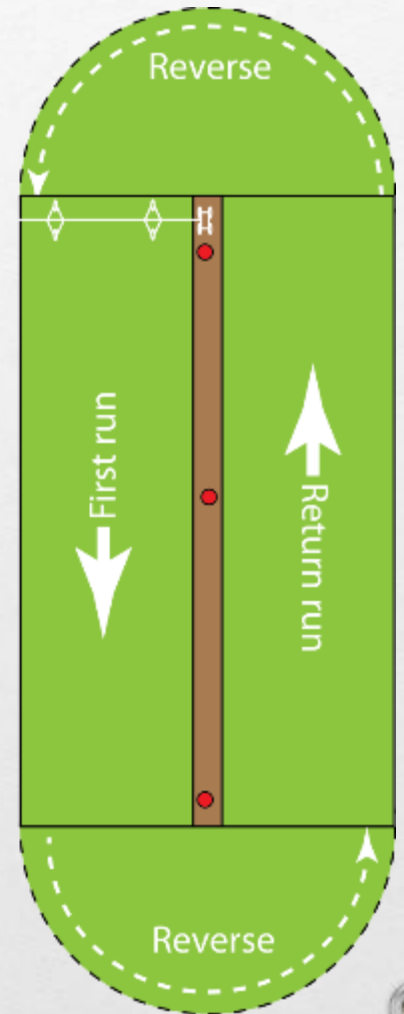
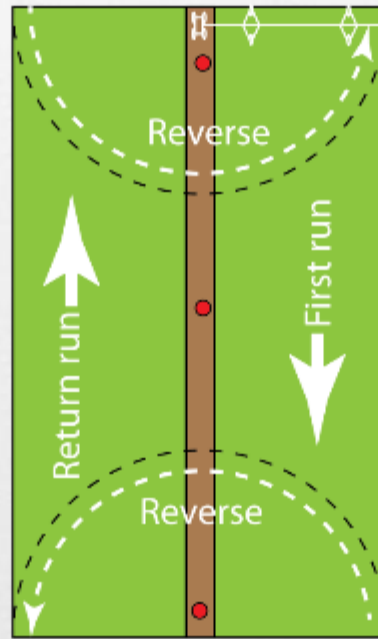
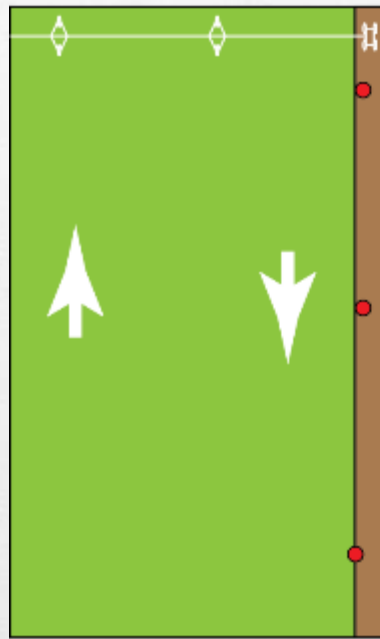
Linears







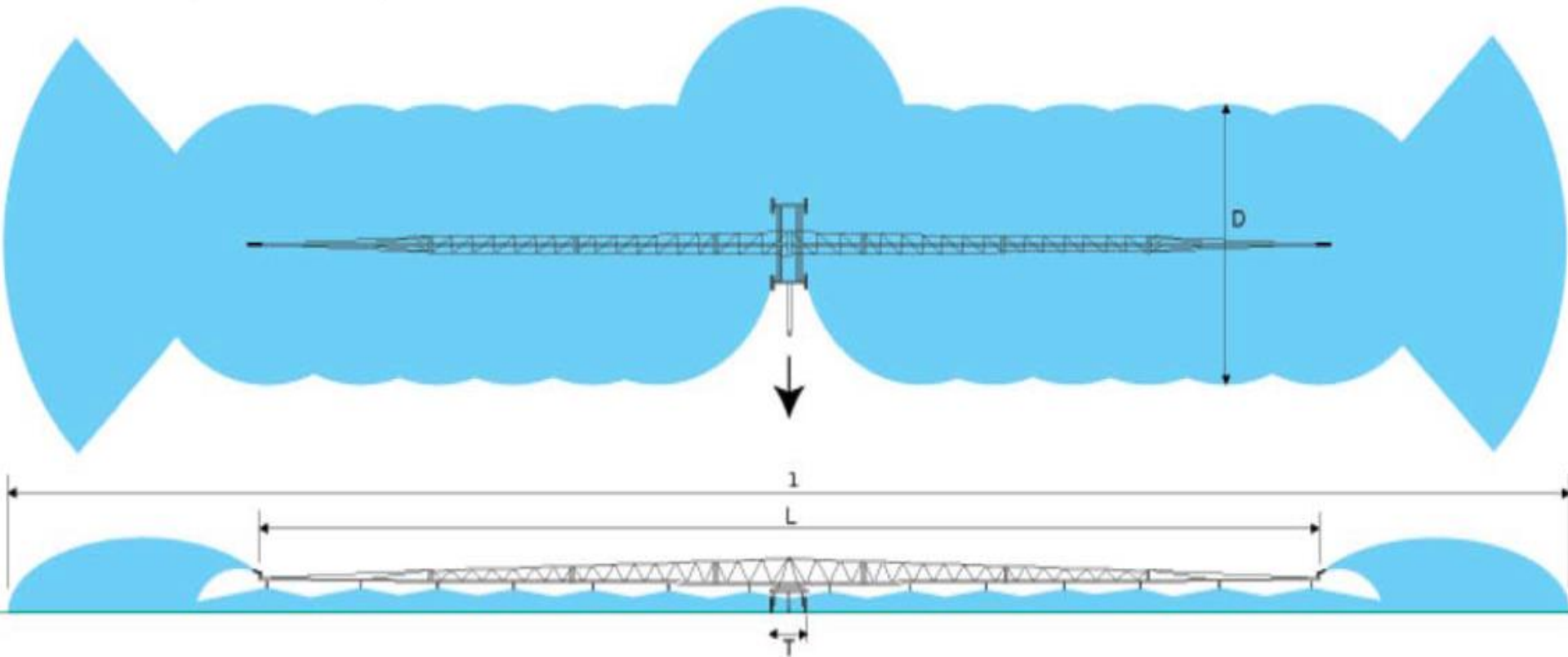
Possible Layouts



Booms



Plan



Profile

Wheel lines









Big gun









Hand line



PVC or Aluminum





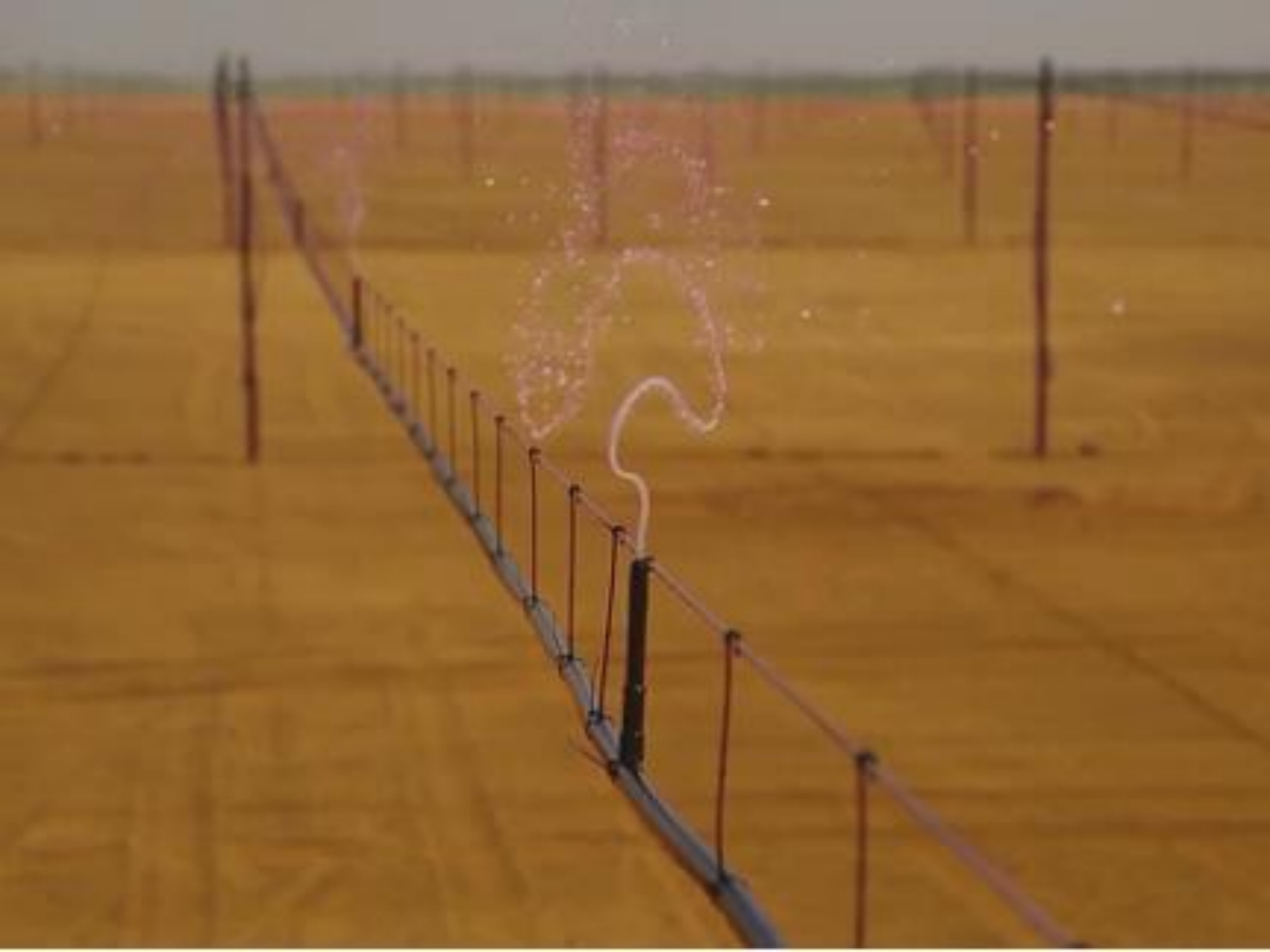
K-line



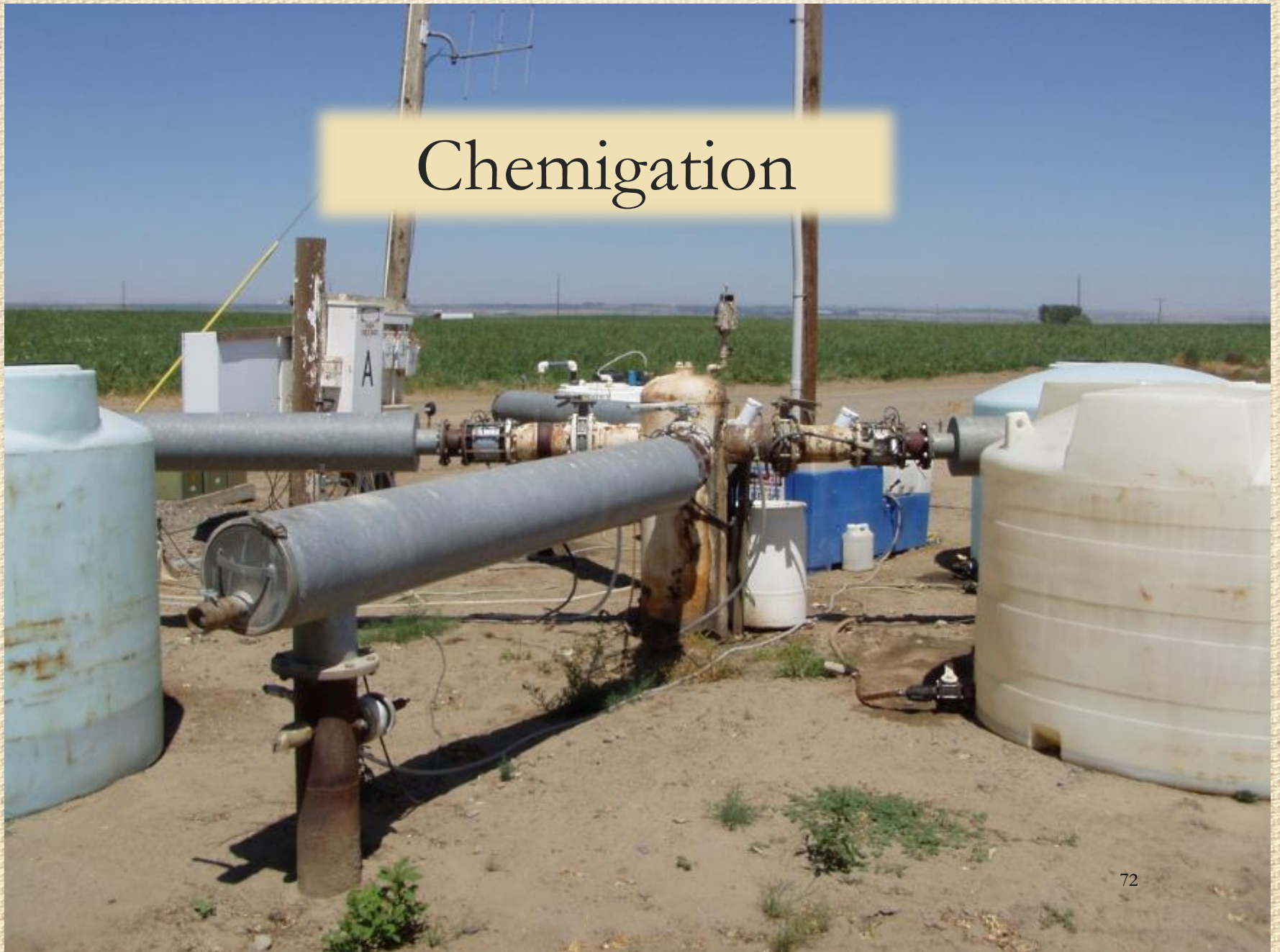


Floppy Sprinkler





Chemigation



Center Pivot Design and Evaluation

Default
 Linear/Lateral **Center Pivot**

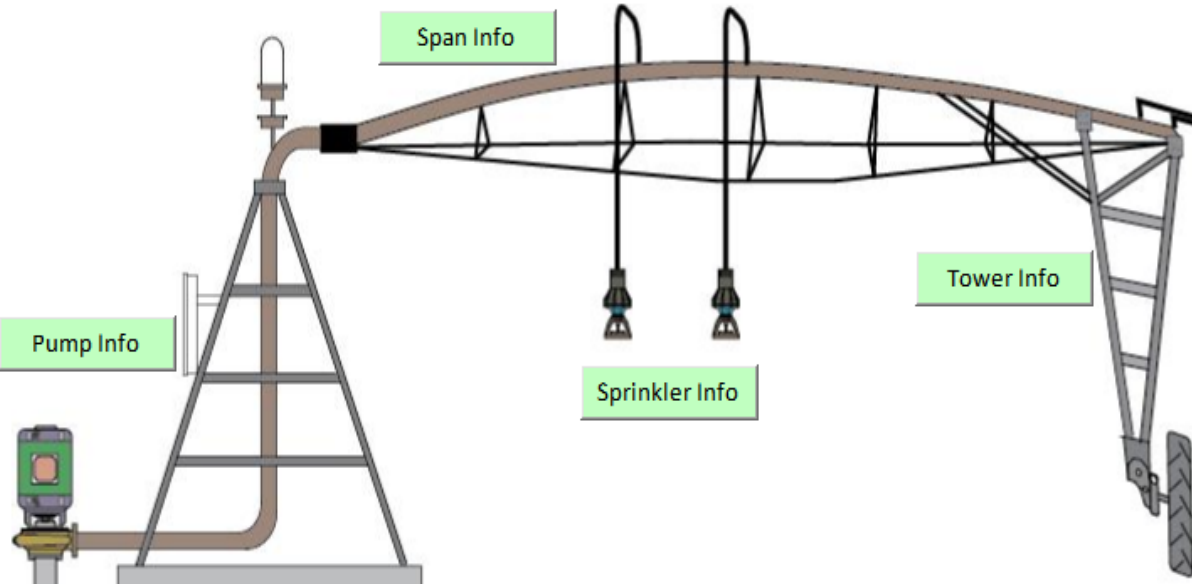
Simulation Parameters

| | |
|----------------------------------|-----|
| Hours/Revolution | |
| Sprinkler Number | all |
| Start Distance (ft) | |
| Stop Distance (ft) | |
| Distance Increment (ft) | |
| Minimum Depth (in) (Optional) | |

System Parameters

Type of Pressure
 Potential Runoff Analysis

File View Options Help



CPNozzle

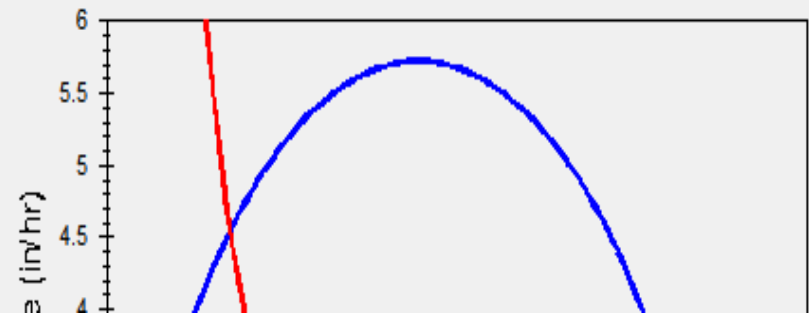
Input Data

Results

Percent Potential Runoff

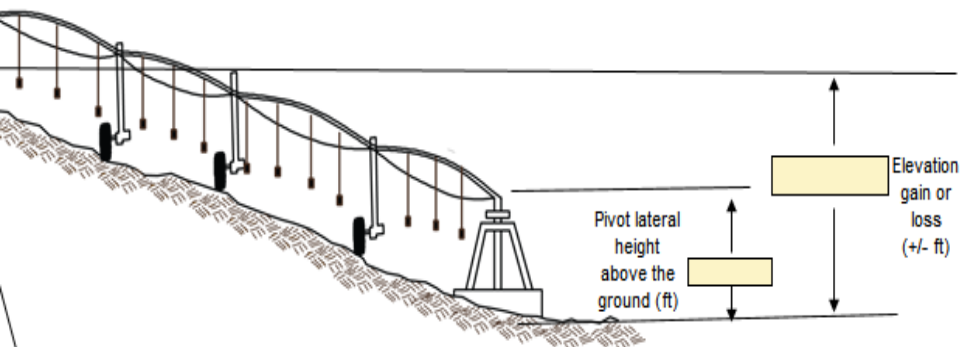
0.5 NRCS Intake Family

| System Length (feet) | Wetted Diameter (feet) | Surface Storage (in) | 1300 (gpm) | 1400 (gpm) | 1500 (gpm) |
|----------------------|------------------------|----------------------|------------|------------|------------|
| 150 | 40 | 0.51 | 0.0 | 0.0 | 0.0 |
| 300 | 40 | 0.51 | 0.0 | 0.0 | 0.0 |
| 450 | 40 | 0.51 | 0.0 | 0.0 | 0.0 |



| Pivot type | Pivot Design length (ft) | End Gun Radius (ft) | System Flow rate (gpm) |
|------------|--------------------------|---------------------|------------------------|
| | | | |

| Lateral pipe information | | | | | | Total length (ft) |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Length (ft) | PipeID (in) | Length (ft) | PipeID (in) | Length (ft) | PipeID (in) | |
| 0 | | 0 | | 0 | | 0 |



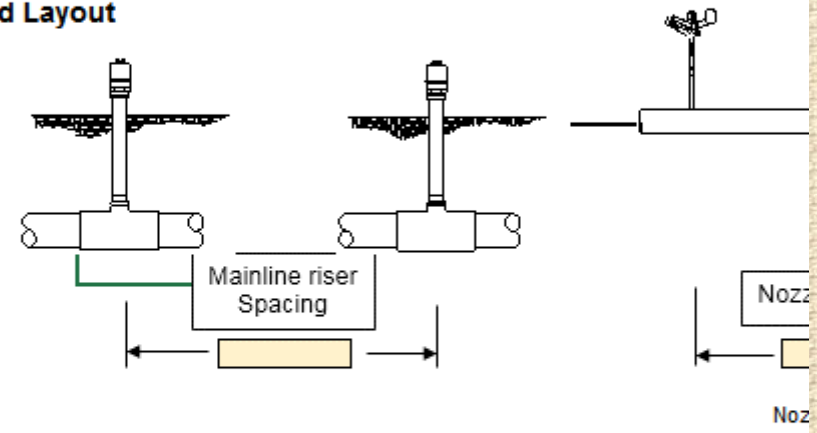
Measurement at the pivot point

| Nozzle operating pressure (psi) | Are Pressure regulators used ? | Pressure regulator losses (psi) | Local Losses (psi) | Pressure required top of pivot (psi) |
|---------------------------------|--------------------------------|---------------------------------|--------------------|--------------------------------------|
| | | | | |

Water Source/Inventory

| Water source | Amount available | | | Water Quality EC _w (dS/m) |
|--------------|------------------|----------------------|------------|--------------------------------------|
| | gpm | ft ³ /sec | ac-ft/acre | |
| | | | | |

Field Layout



| | | | |
|------------------------------|-----------------------------|-------------------------------------|------------------------------|
| | Maximum Lateral length (ft) | Total number of nozzles per lateral | Total number of riser valves |
| | | | |
| Maximum Mainline Length (ft) | | | |
| | | | |

