



Better Farming, Better Soils, Better Food, Better Future

HOMELAND WATER TECH FARM

Our Heartbeat

1. Leave a legacy for our children of vibrant flourishing farms and communities from small rural towns to large cities.
2. Work together with others to steward the Ogallala Aquifer in a manner that the water used from it is at sustainable levels and ultimately to help it replenish itself.

Our Goal - Sustainable water levels in
all of our irrigation wells.

How?

- ▶ WCA's
- ▶ Playa Lakes
- ▶ Water Technology Farms
 - ▶ HPJ Article
 - ▶ Making the Ogallala sustainable means thinking outside of the box.

What are we doing to achieve our goal of sustaining water levels?

► 5 Technologies

1. MDI also known as Dragon Line
2. VRI with VRP – putting the water and seed where it will do the most good.
3. Moisture probes – Running sprinklers when we need to and not just because this is when we normally do it to get ahead of any dry spells that might come.

What are we doing to achieve our goal of sustaining water levels?

► 5 Technologies

4. Aerial/Satellite Imagery

a. Compaction

b. Crop stress

5. Cover Crops (Along with No-Till Farming) – We believe this could potentially be where we make our greatest savings.



Cover Crops – a much different approach to farming.



- + No-Till farming – no mechanical tillage.
- + Increases Organic Material.
- + Builds the underground ecosystem in our fields.
- + Multi-species – plants work symbiotically.
- = Increased infiltration and storage.

I believe that an aquifer that is at sustainable levels (or even replenishing itself) will be indicative of farms and communities that are flourishing throughout rural Western Kansas.



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