SEAMAN
CROP
CONSULTING
LLC

Since 1977.



**Cotton Since 1997** 

#### ARE YOU DISAPPOINTED ??

**WHY???** 

**WHY??** 

WHY?



# Disappointment ?



# Welcome -- A New Day!



# Best Water Management

Start Planning Now

**COMMIT TO MANAGEMENT** 

#### **PLANNING NOW**

- 1. When did the last crop quit using moisture?
- 2. If needed, is prewater available?
- 3. Are we sharing water with another crop?
- 4. What is the elevation, lay of the land?
- 5. How long maturity cotton variety?
- 6. Is pop/ac a consideration ?
- 7. What are options, if cotton planting fails?

# IF YOU DON'T HAVE TIME TO DO IT RIGHT.....

YOU MUST HAVE TIME TO DO IT OVER.....

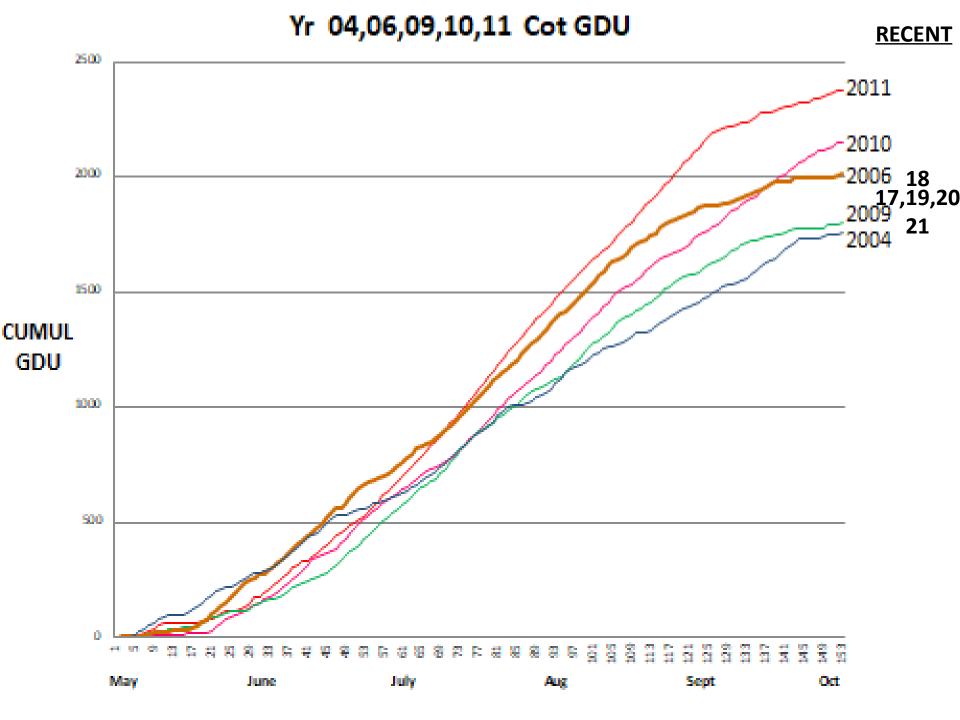
In Cotton.... NO, Wrong!!!

# Most Efficient Ways to Waste Water @ 600 gpm

- 1. Let weeds grow on fallow
- 2. Apply so little per rev that evaporation takes a large percent.
- 3. Leaks- a small leak running at 23 gpm for a 100 day period = 1" on 122 ac.
- 4. Stuck pivots- a stuck pivot for four hours at four different times = 21 ac in
- 5. Grow a crop that makes no money.

#### Save Water in Light Sandy Soil

- Overwatering pushes water below the possible root zone and this amount is lost and actually heads back toward the aquifer
- This is water that is metered out for use and never even goes through your crop.
- This is water you pay for in the pumping cost









- 36" core probe
- 48" auger

#### **HOW MUCH WATER NECESSARY? Ks**

Generally 9-13" water is needed in-season

- Too much rain or irrig is <u>problematic</u>
- a. Excess growth less maturity
- less quality
- less yield
- b. More input cost PGR \$
- Prewatering on silt loam only up to 75%
- of the 3' profile

# Best Rec. for Irrigation

Start with a full profile 3 - 4' at 75% WHC

Water lightly to get germ of cotton + weeds

Water at begin flower

<u>Do not</u> overwater. A 73% profile is easiest to manage.

Dammer-diking will help -less ponding in low spots

#### Excess Nitrogen- Problem

- Leads to excess vegetative growth + shading
- Shading causes slowdown in maturity
- Less maturity causes- lower mic grade
- tough leaf drop
- high risk of bark

You <u>must</u> deep sample nitrate !!!!!

#### 1522 lb/ac

# 8" irrig

**NO SUMMER RAIN** 



### Irrig amts vs Expected Yields

Starting with a good 3' profile..... No rainfall Yield lb/ac

<u>Gpm</u>	<u>"/ac</u>	sandy loam	<u>silt loam</u>
• 200	4.55	375	475
• 350	6.37	575	700
• 475	8.20	800	1000
• 550	10.00	1100	1200
• 600	11.00	1350	1600

# Regulation Guidelines

<u>GDU</u>	<u>Stage</u>	<u>Date</u>
500	1 <sup>st</sup> square	June 15
1000	1st flower	July 12
1450	Speckle	Aug 10

If you do not meet these parameters.....

consider the crop behind in maturity.

Don't wait, action is required.

#### **DRYLAND SKIP-ROW**

# 



# 



# 



### NE 3-31-36 659 lb



## NW 2-31-36 662 lb



# NW 15-31-35 783 lb



#### How much prewater?

- Depends on current soil moisture
- Probe with a core probe.
- Consider soil type for WHC
- Figure amount of irrig needed to attain %
- Do not try for more than 4' profile.
- Consider what you will have left for in-season.

#### SOIL TYPE and WHC

Know your soil types to a depth of 3-4 ft	WHC/ft
Sand	1.50"
Sandy Loam	1.75"
Loam	2.0"
Silt Loam	2.2"
Silty Clay Loam	2.4"



#### Prewater.....Change Pivot Speed





#### Variable Rate Irrigation

- Redistribution of water; program rate for every 6 degrees around circle. Speed control.
  - to match prevailing soil types across the field.
  - to apply more on hilltops, lighter WHC soils
  - to apply less in areas of runoff
  - Can be used to effectively water the best acres and place the other acres in a different crop requiring less water.
  - Can be used for variable rate fertilizer applic

#### Common Irrig Pivot Problems

Declining water table

Poor nozzling –regulation

Migration of salts, pH increases in topsoil

Poor records

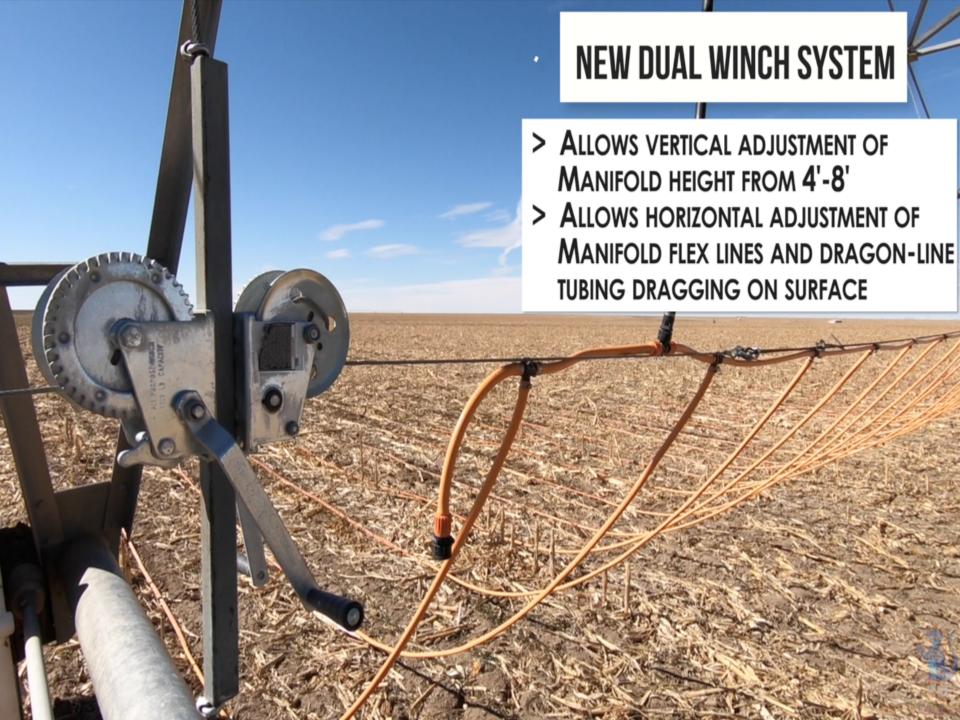






## Dragonline 2014





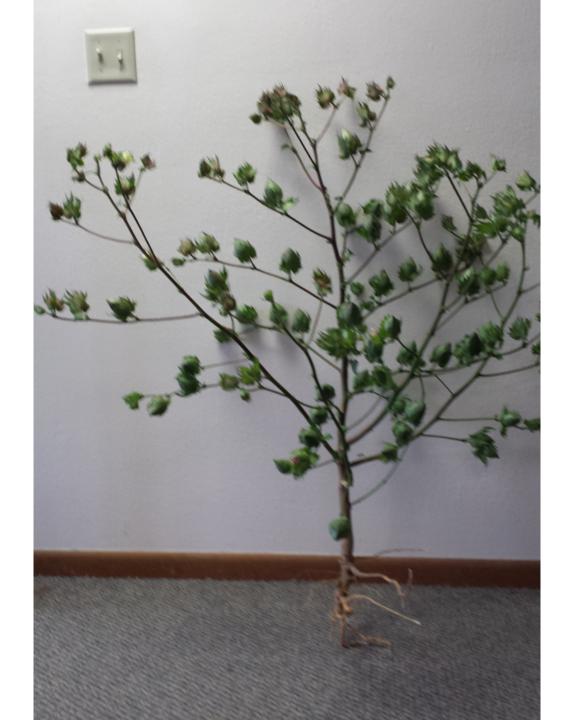












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## Questions??





## Wishing You Good Cotton !!



WANTED
(for shirking honey-do's)



Suspect frequently poses as crop consultant

Call Lillian 544-7562