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United States Department of Agriculture

USDA's
93rd
Annual

Agricultural Outlook Forum

A New Horizon: The Future of Agriculture

February 23-24, 2017 • Crystal Gateway Marriott Hotel, Arlington, Virginia

Presentation from the USDA Agricultural Outlook Forum 2017

United States Department of Agriculture
93rd Annual Agricultural Outlook Forum
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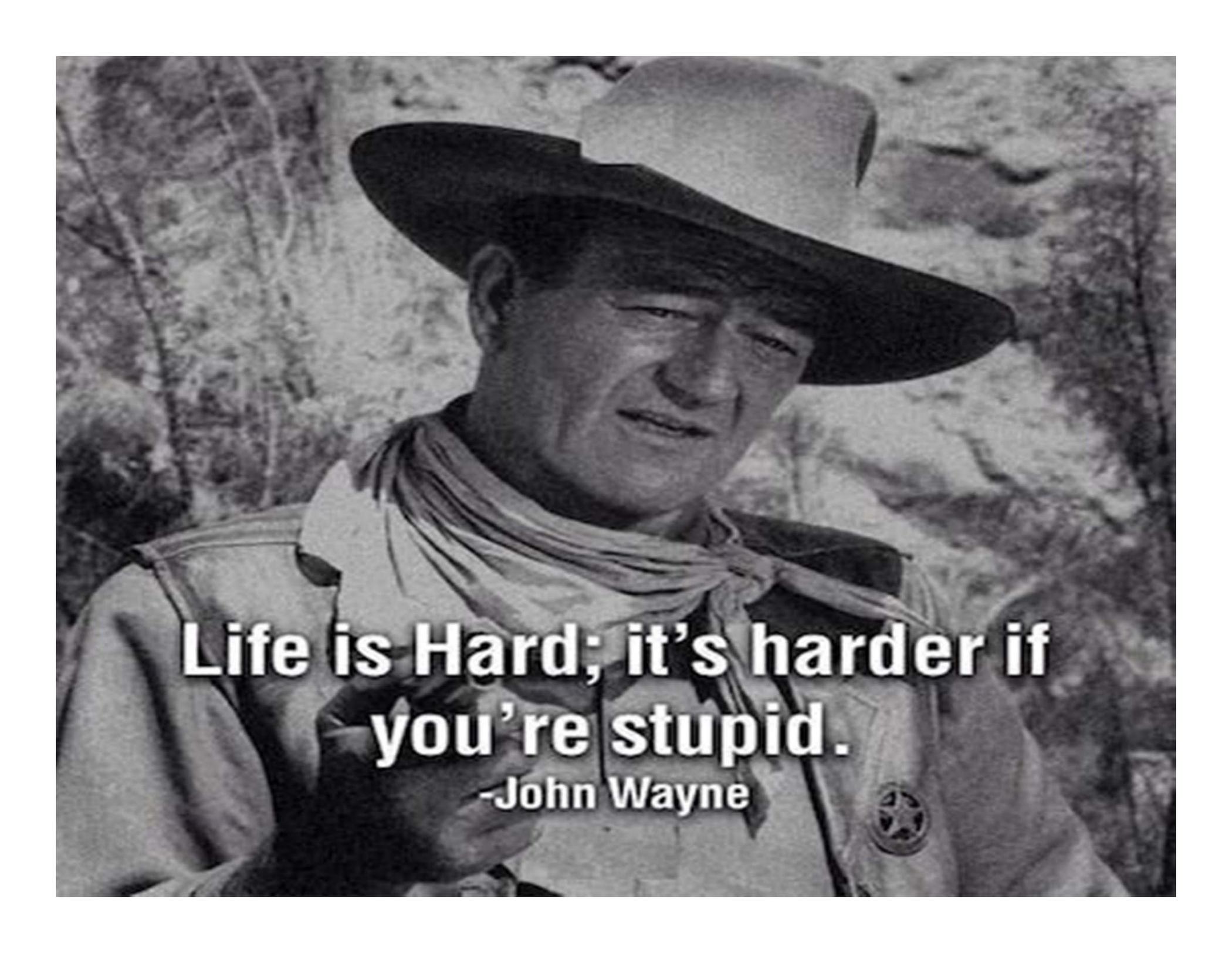


Reducing Tillage



Runoff from Reduced Infiltration





**Life is Hard; it's harder if
you're stupid.**

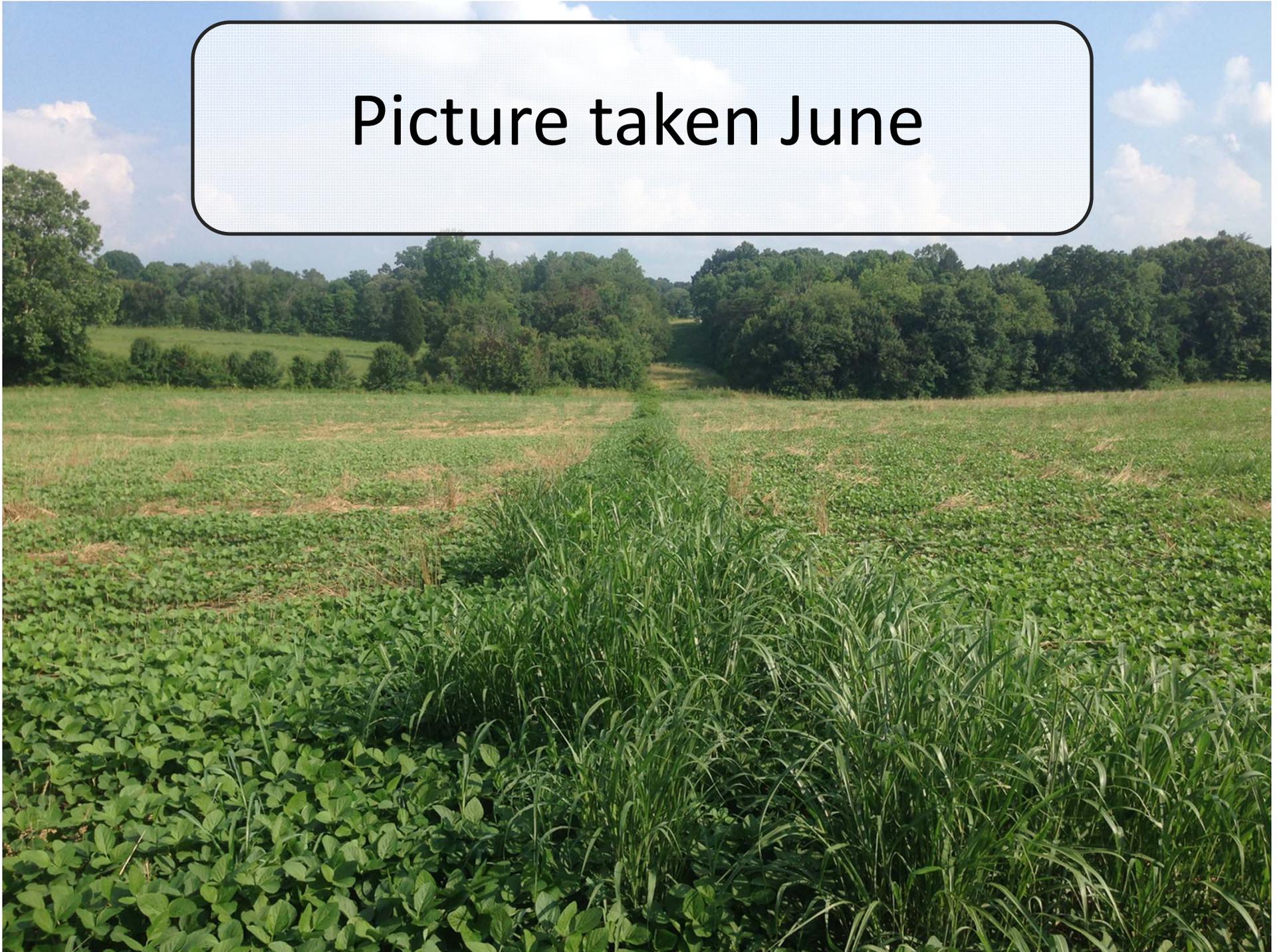
-John Wayne

Winter Weed Suppression

Picture taken March



Picture taken June







Carbon in top 8 inches





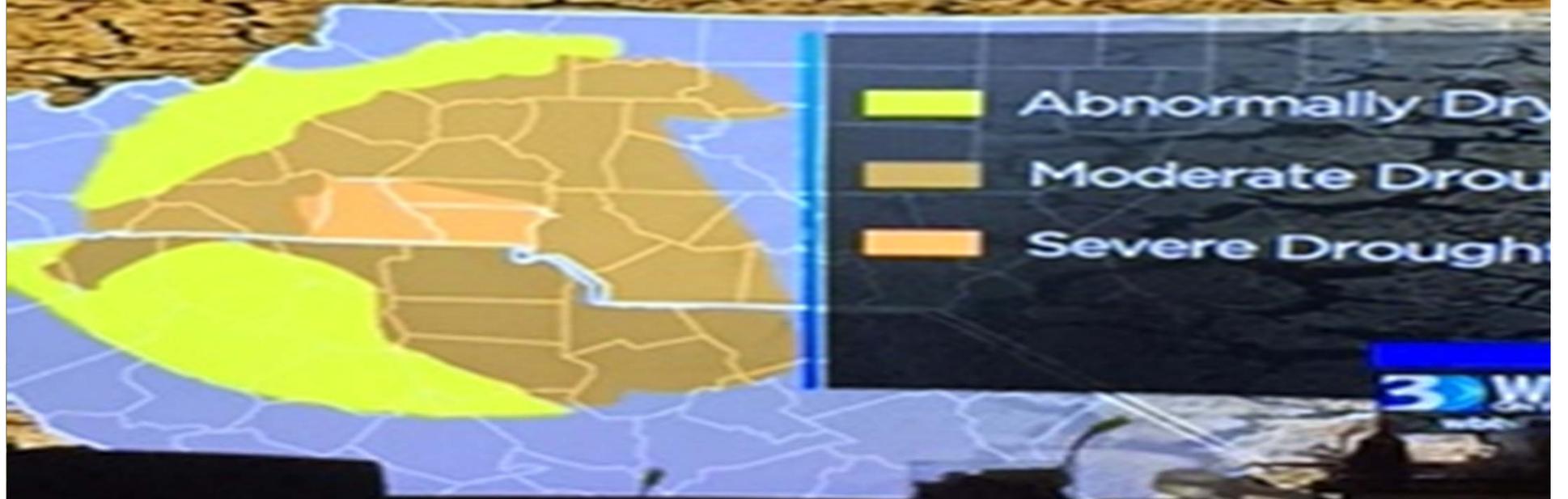






Drought in NC

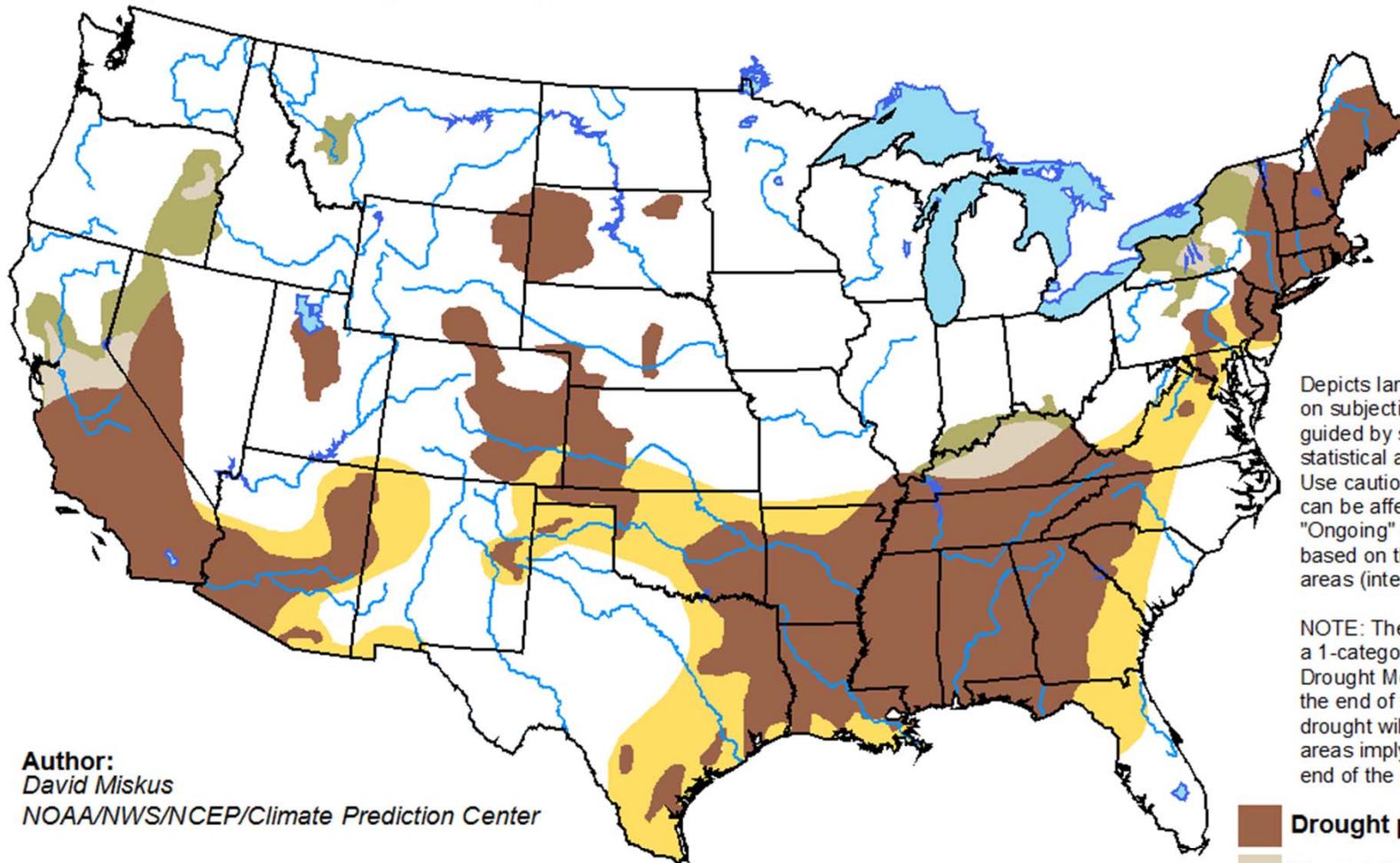
CAROLINA DROUGHT
WBTV ON YOUR SIDE



3 W
WBTV

U.S. Seasonal Drought Outlook *Valid for November 17 - February 28, 2017*

Drought Tendency During the Valid Period *Released November 17, 2016*

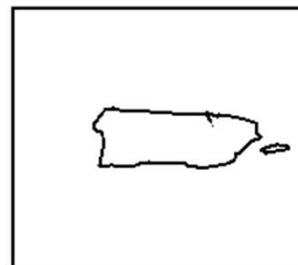
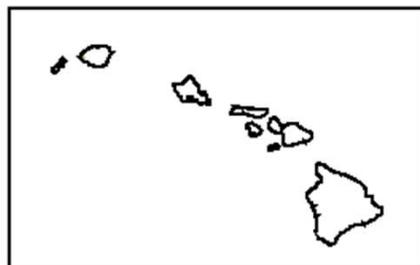
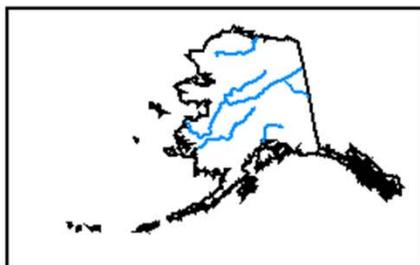


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
David Miskus
NOAA/NWS/NCEP/Climate Prediction Center

-  **Drought persists**
-  **Drought remains but improves**
-  **Drought removal likely**
-  **Drought development likely**



<http://go.usa.gov/3eZ73>

5 to 9 Bushels Per Acre

















JRH Grain Farms Cash Crop

Wheat – CSG
Black Oats – CSG
Triticale - CSG
Abruzzi Rye - CSG

Winter Peas - CSB

Corn – WSG
Milo – WSG
Grazing-Sudan

Sun Flowers-WSB
CBD Hemp-WSB

JRH Grain Farms Cover Crops

Annual Ryegrass – CSG

Oats – CSG

Barley – CSG

Winter Triticale – CSG

Forage Winter Wheat - CSG

Abruzzi Rye – CSG

Carolina White Wheat-CSG

Canola – CSB

Radish – CSB

Turnip – CSB

Sweet Clover – CSB Winter Pea CSB

Phacelia – CSB

Kale – CSB

Crimson Clover - CSB

Berseem Clover -CSB

Hairy Vetch - CSB

Buckwheat – CSB

Cowpea – WSB

Soybean – WSB

Sunn Hemp – WSB

Ethiopian Cabbage – WSB

Fava Bean – WSB

Mung Bean – WSB

Okra-WSB

Hubam Clover-WSB

Hybrid Pearl Millet – WSG

German Millet – WSG

Sorghum/Sudangrass – WSG

Brown Millet – WSG

Teff – WSG

Reducing Inputs

Nitrogen credits from Legume Cover Crops

Reducing Herbicide Spraying-Timing & Money

2016

No post spray on 200ac of Corn

No Post spray on 215ac of soybeans

*Post sprayed 80 acre Soybeans-Didn't have cover crops

Chemical Savings-\$11,800.00

Fertilizer Reductions using Carbon Burst and Haney test-

Phosphorous-\$16,600, Potassium-\$10,375, Nitrogen-\$23,343

Total Savings 2016-\$62,118.00

An aerial photograph showing a large green field, likely a cornfield, with a dirt road or path winding through it. The field is bordered by a dense forest. In the upper right corner, a multi-lane highway is visible. The text "Test Farm 7-13-16" is overlaid in a white rounded rectangle in the upper center of the image.

Test Farm 7-13-16

JRH Grain Farms LLC

2 Probes in Dryland Corn (No Irrigation)

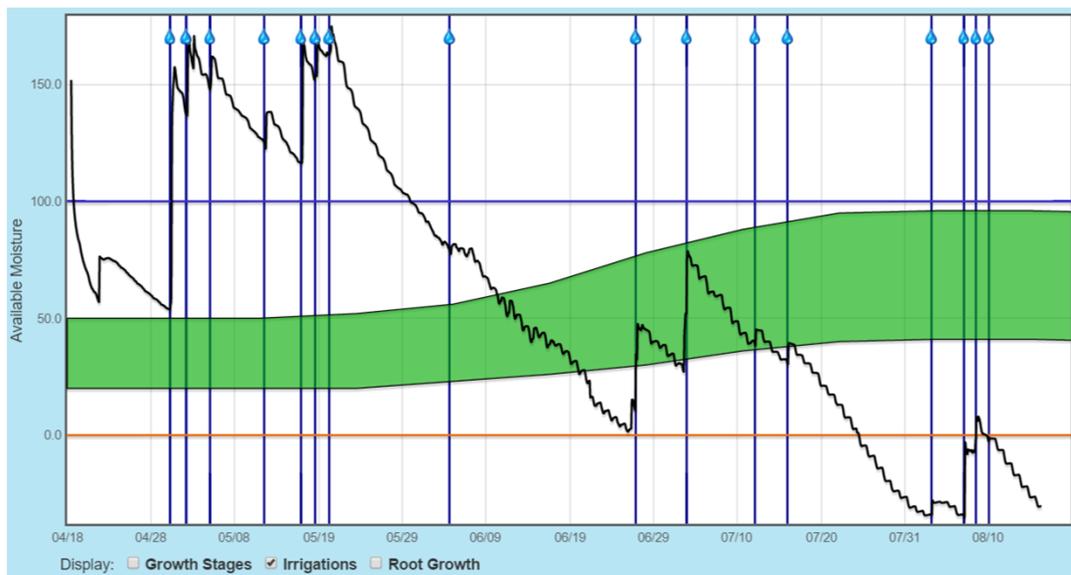
Soil: Silt Loam



• [6184] **NC-JRH Grain Farms LLC No Cover Crop**

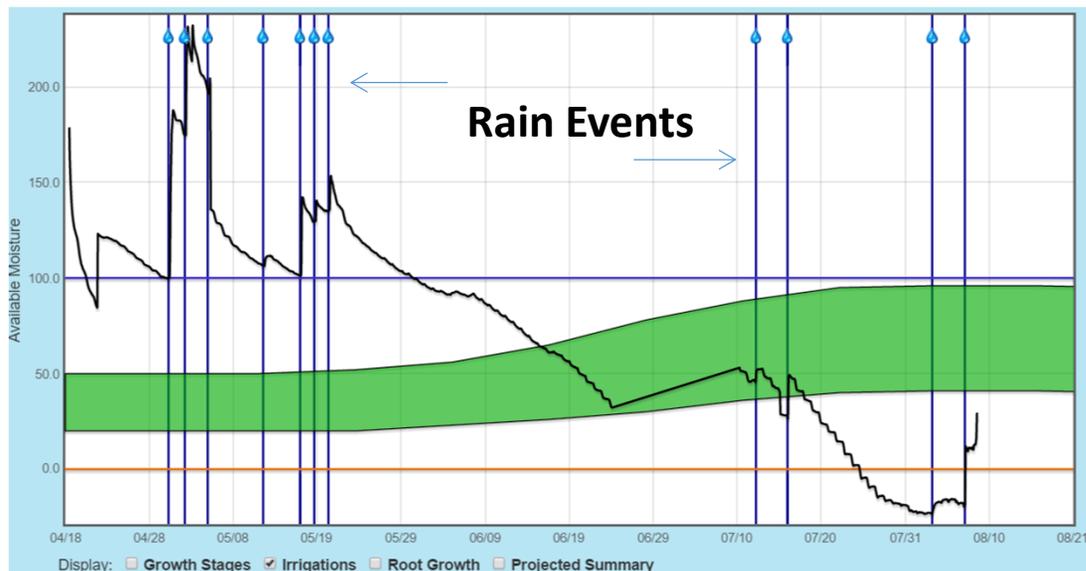
• [6185] **NC-JRH Grain Farms LLC-with Cover Crop** (After planting, a herbicide was applied to kill off the cover crop.)

[6185] NC-JRH Grain Farms LLC-with Cover Crop



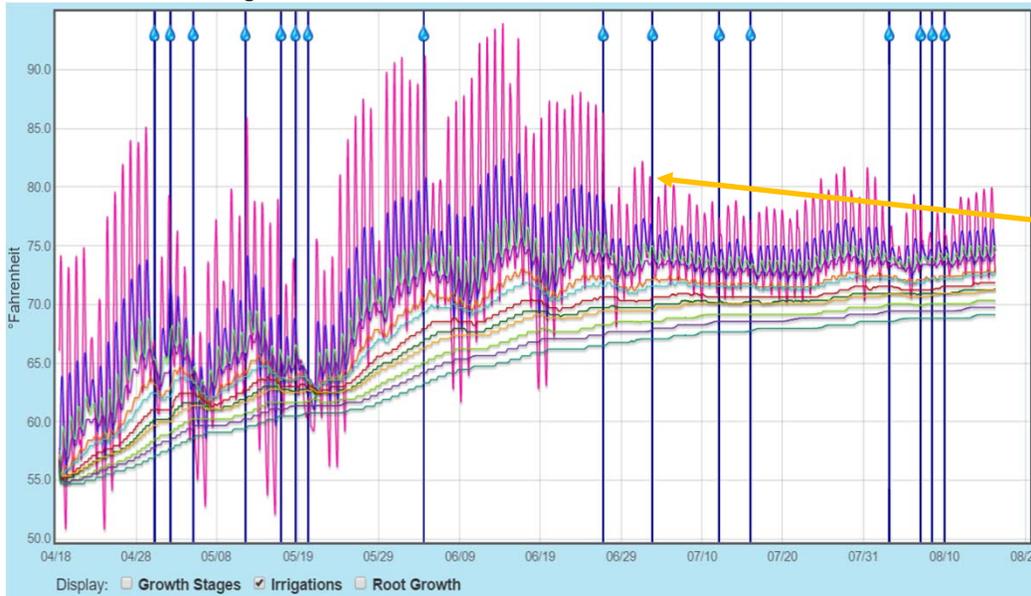
- **Overall Moisture Graph**
- Blue Lines are rain events
- More recorded moisture events than 6184

[6184] NC-JRH Grain Farms LLC No Cover Crop



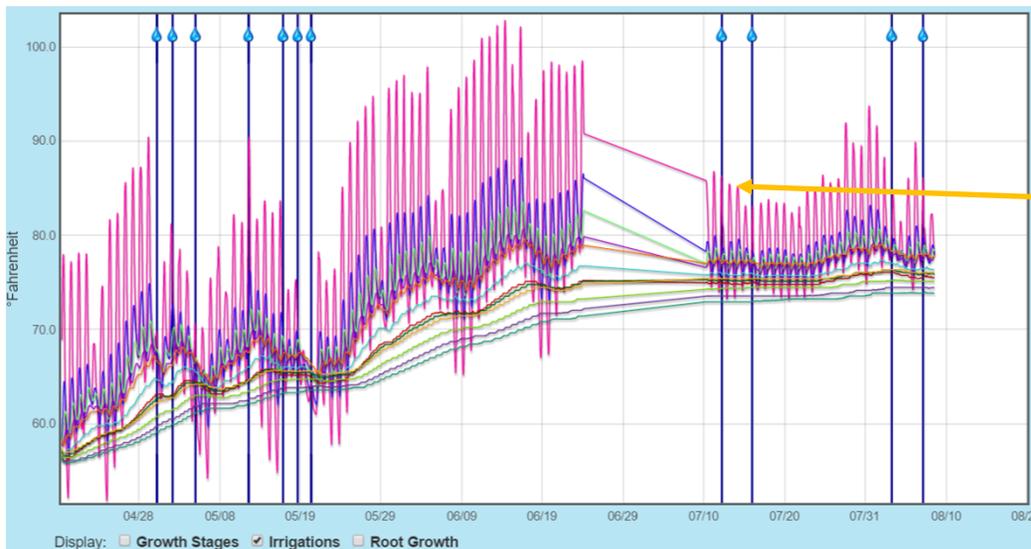
- **Overall Moisture Graph**
- Blue Lines are rain events
- Less recorded moisture events than 6185

Soil Temp: NC-JRH Grain Farms LLC-with Cover Crop

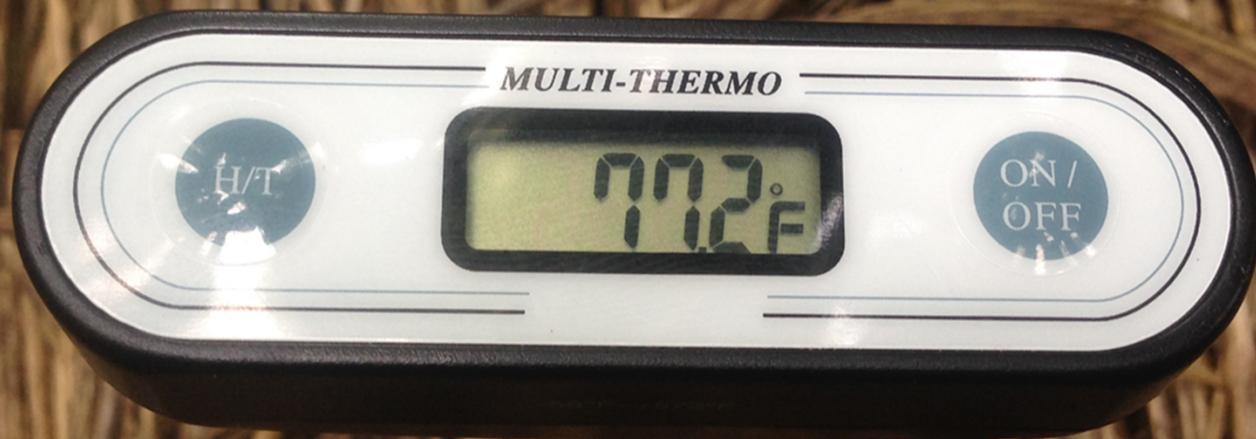


- **Temperature Graph**
- Slightly cooler soil temperatures
- Daily fluctuation of 4" sensor less after June-27 due to denser corn crop shading soil

Soil Temp: NC-JRH Grain Farms LLC No Cover Crop



- **Temperature Graph**
- Slightly warmer soil temperatures
- Daily fluctuation of 4" sensor more after June-27 due to less dense corn crop shading soil

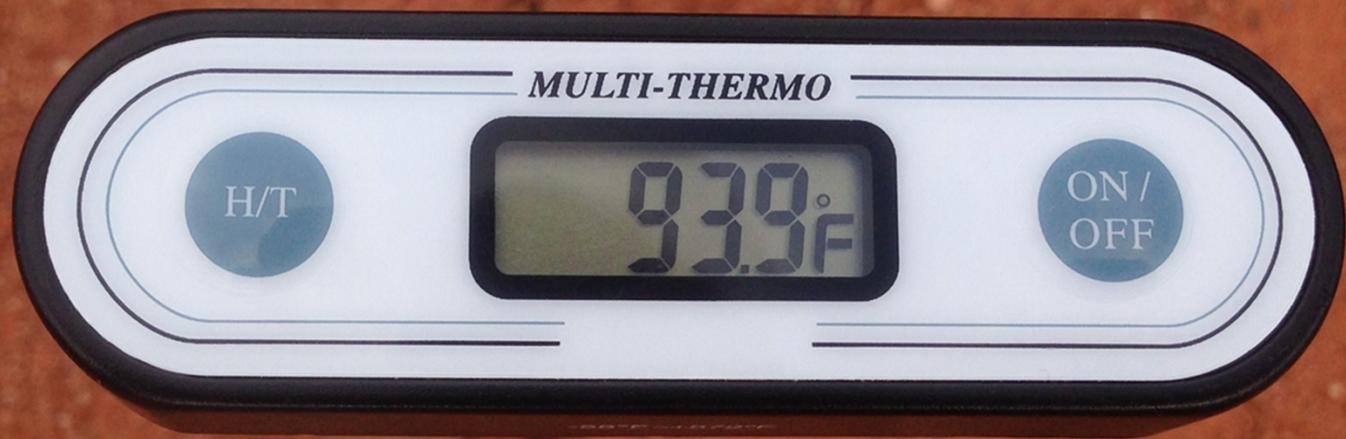


MULTI-THERMO

H/T

77.2°
77.2°F

ON/
OFF



MULTI-THERMO

H/T

93.9°F

ON/
OFF

















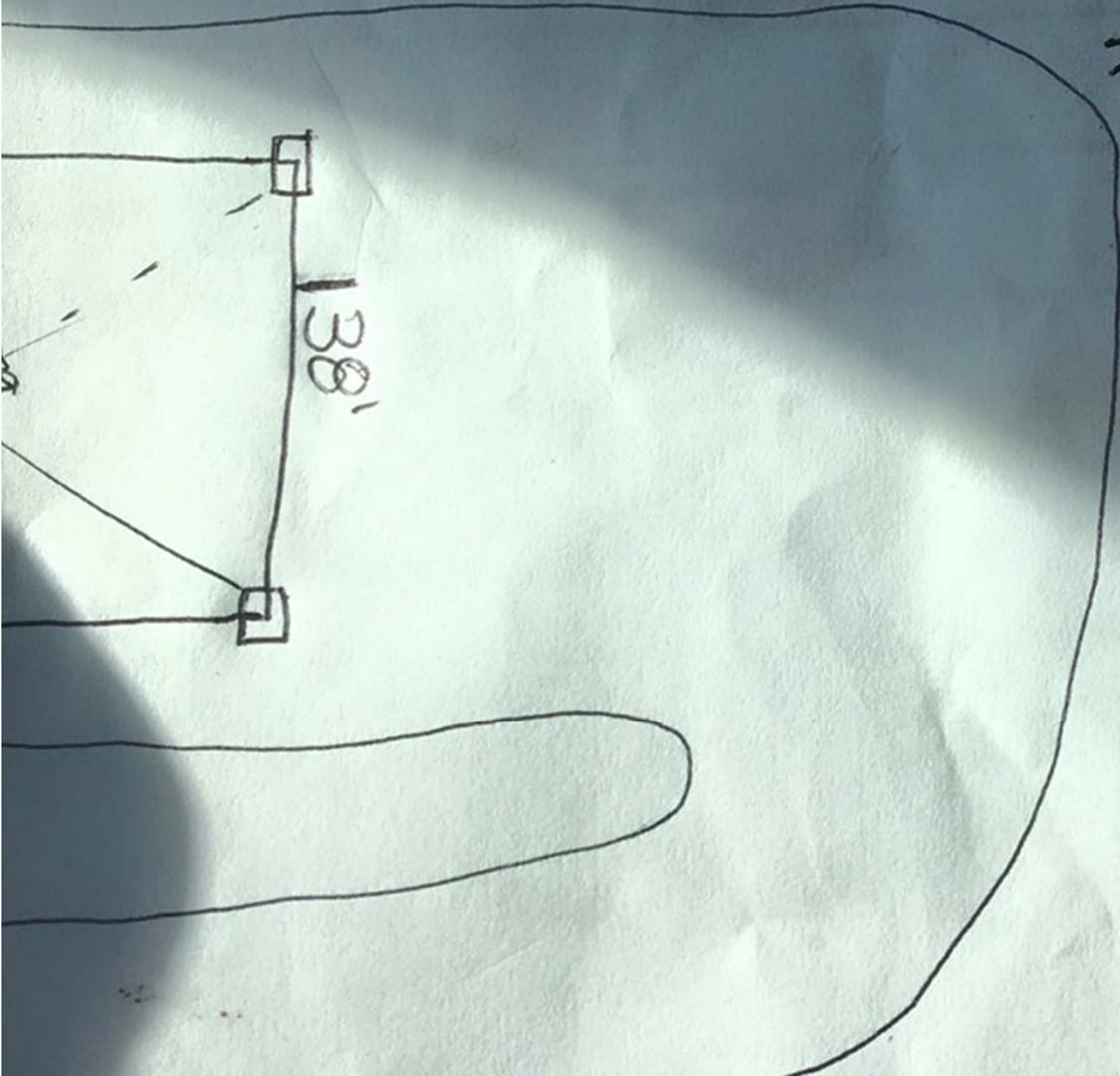


Attach weigh ticket to this

FIELD DIMENSIONS

of the area from which the yield was measured.
or chains and links. All four sides must be measured.
ox (if measured), and the diagonal (if measured).

$$\begin{array}{r} 1525080 \\ \hline 4793.514 \\ \hline = 318.15 \end{array}$$





Summary

Practicing No-till with cover crops can help you achieve higher farm income and reduced Costs.

Field Day Aug 5th 2017

Eventbrite-Southern Soil Health Field Day

Russell Hedrick

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803-530-4315