iCropTrak

Precisely Informed Farm Management

Farm Management made *MOBILE*

iCropTrak SOFTWARE Background

▪ Fielded in 2010 - Same year as the launch of the iPad

▪ Designed to **Run Fully Disconnected** (No networks)

▪ **User Customizable Real-time UI and Forms**

▪ **User Embedded Math in Forms and Dashboard**

▪ **iPad Computation** vs. Cloud Computing

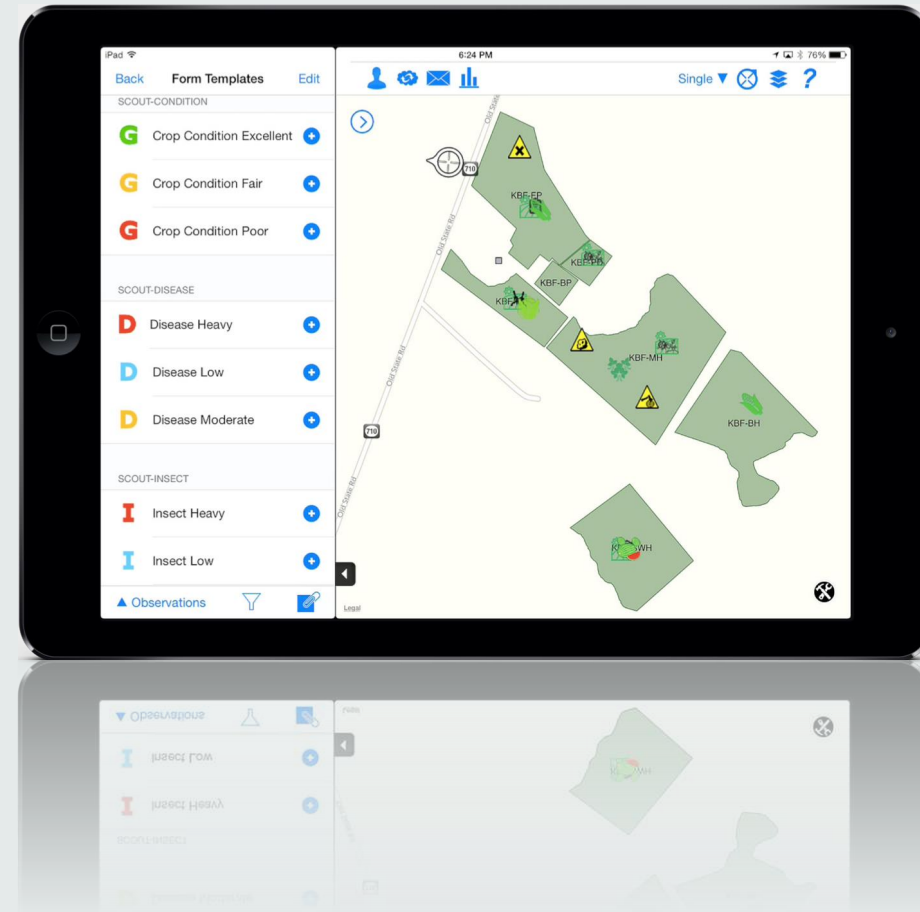▪ Microsoft **Office Custom Report** Templates

Mobile Data Collection

▪ **User Customizable** Data Forms

▪ Soil Sampling and **Scouting Optimized**

▪ **Work Orders** to Assign and Track Work

▪ **Time Tracking** – People and Equipment

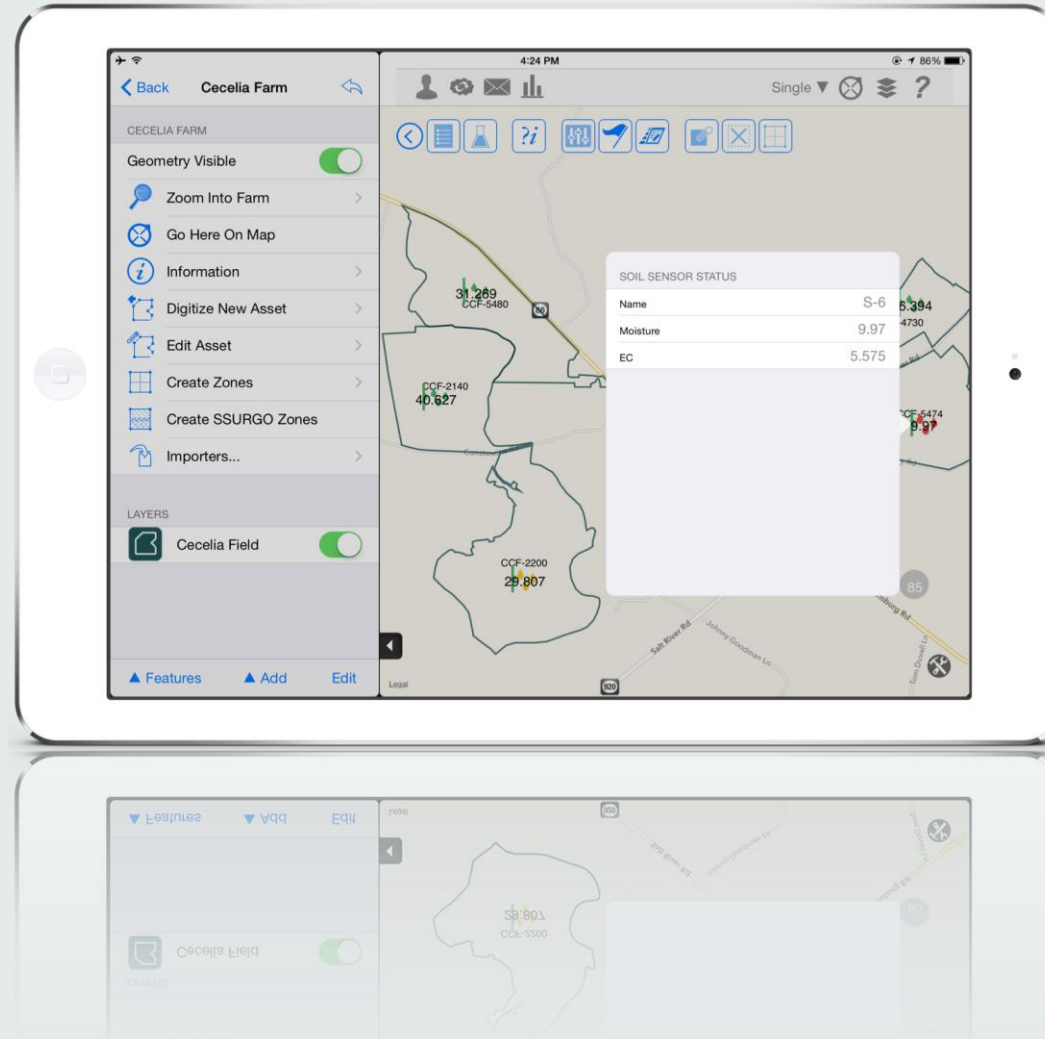▪ **Map Center Data Entry** and Display

Rapid & Easy data Entry

Drag-n-drop & One-Tap GPS

- ▪ Crop Scouting

- ▪ Work Assignment

- ▪ No Field Entry Annotations

- ▪ Problem Area Annotations

- ▪ Time Tracking

- ▪ Recommendations

Auto Data Entry

- Weather Underground
  - Weather

- AgSense WagNet
  - Irrigation
  - Soil Moisture

- Real-Time Status Streams
  - Pumps, tanks, bins, etc.

- Tractor Data Feeds

Once Data is in iCropTrak Becomes Different?

Data Processing on the iPad - Not in the Cloud
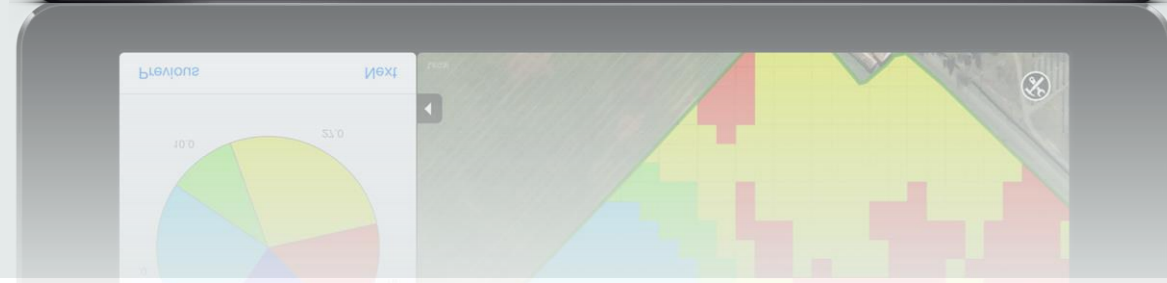
6

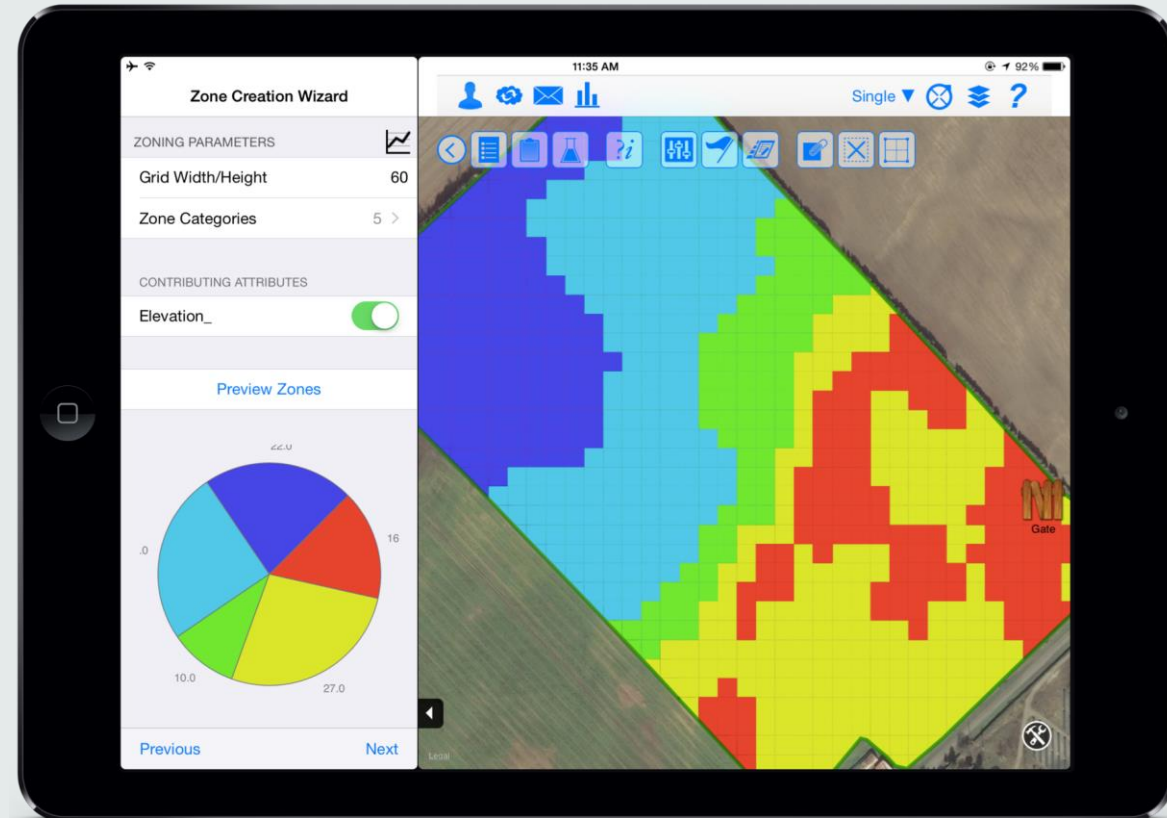# Colorize Complex Data in Real-Time

- Color Tractor Reference Data

- Combine and Color Collected Assets Data

- Surface and Color Soil labs Results

- Analyze and Color Real Time Streams
  - Irrigation
  - Pumps
  - Sensors
  - Vehicles
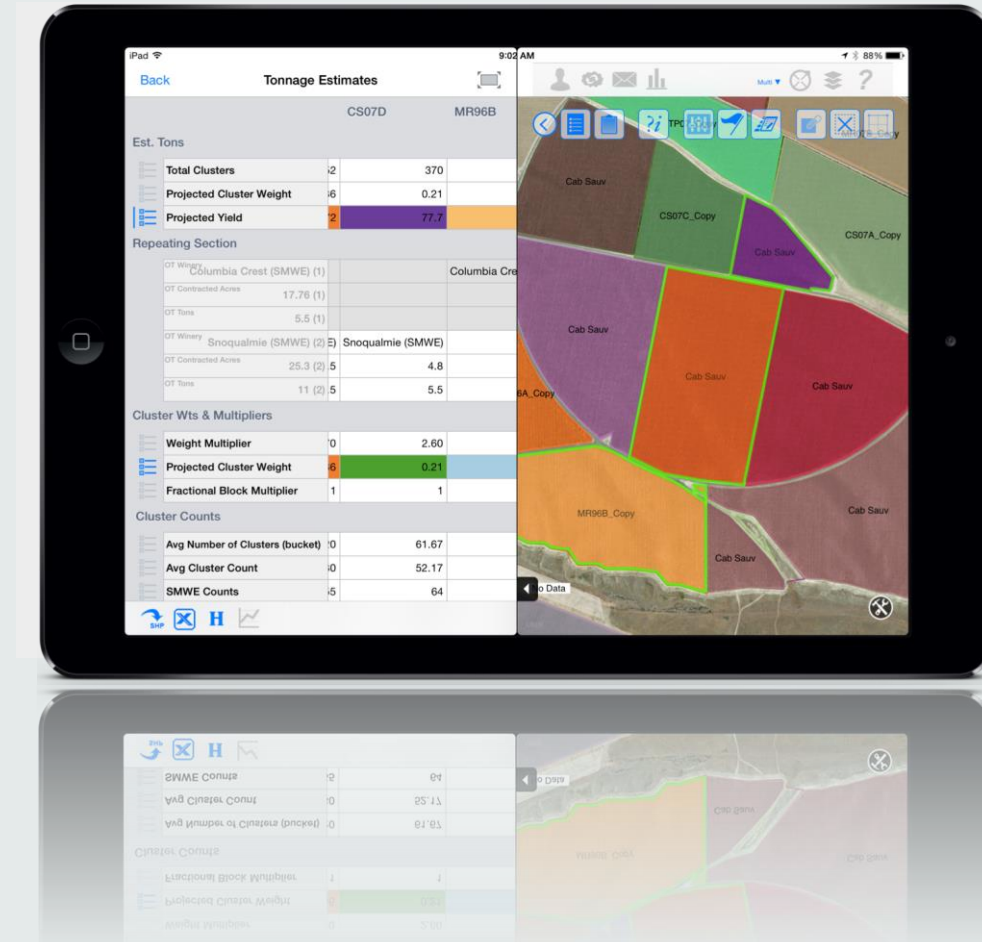
Zone Data on iPad

Zone 1 or More Data Layers

- Tractor Files

  - Plant, Spray, Harvest

- Soil Labs Results

- Elevation Data

- VERIS EC Data

- Create Shapefiles

math on collected Data

Math from Simple to Complex

- Per acres to field

- Unit conversion

- 1/1000th to 1 Ac

- GDDs and Total Rain Fall

- Lab Recommendation Algorithms

- Anything math in Real-time

Excel Like Math In App

- DIRT - New excel grid view
  - Completely User Customized
  - Auto Group items by Type
  - Legend Color Grid
  - Do math on math in form
  - Export to
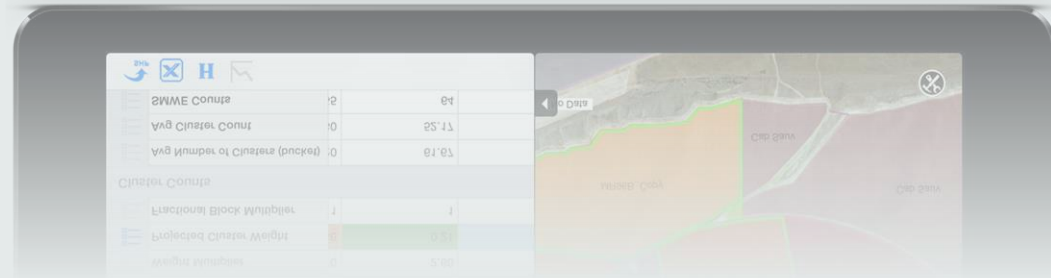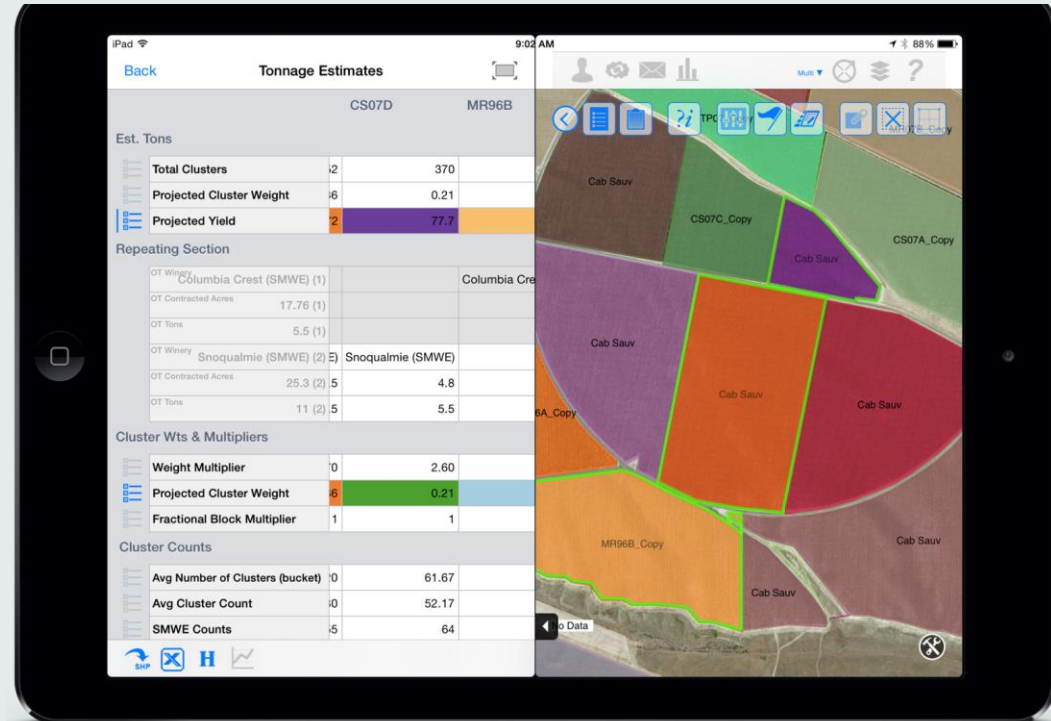   - Shape
    - Excel
    - Word Formatted Report

Prescriptions

- Fertilizer Prescription

- Seed Prescription

- Export
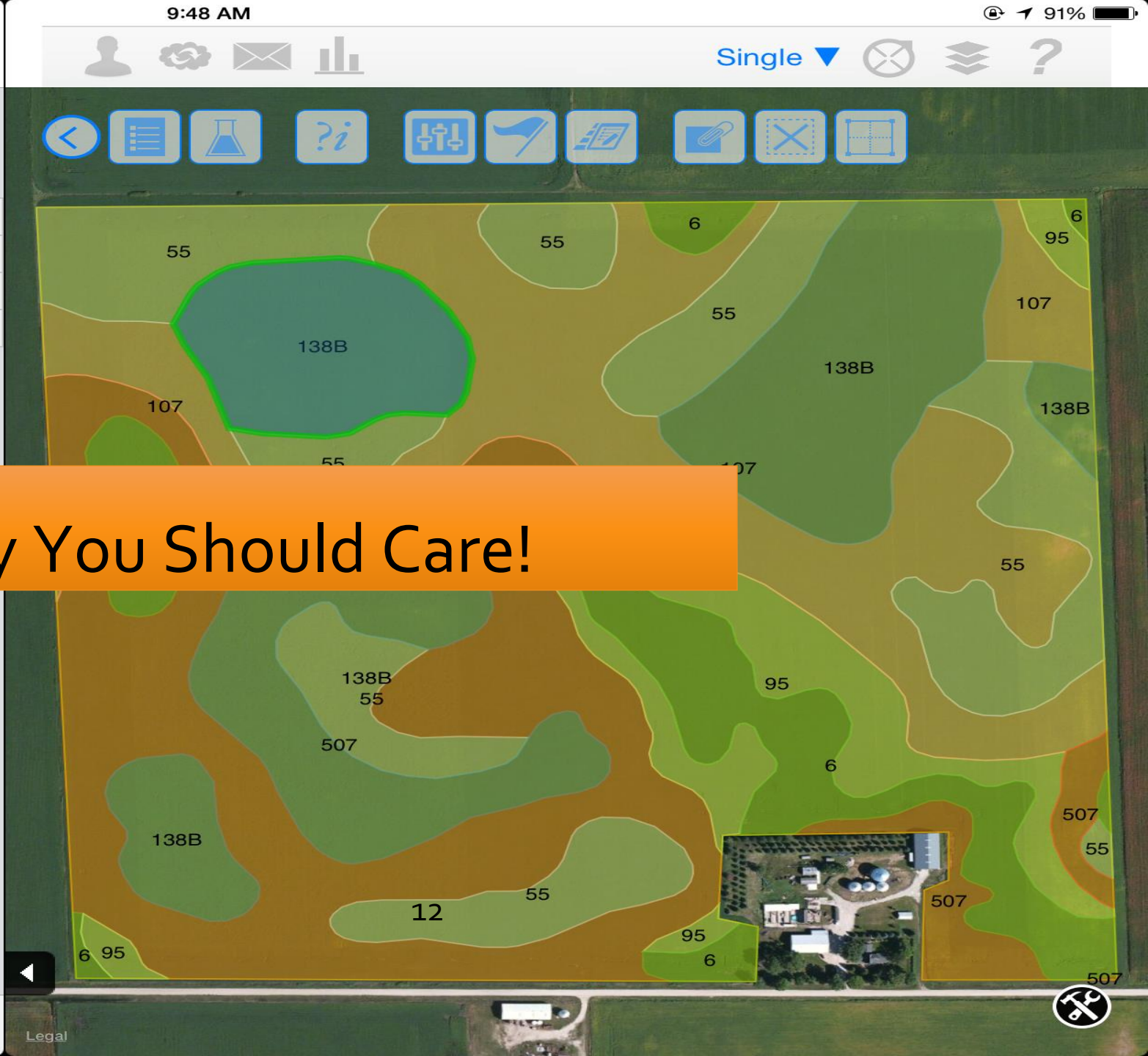
  - Tractor Shape Files

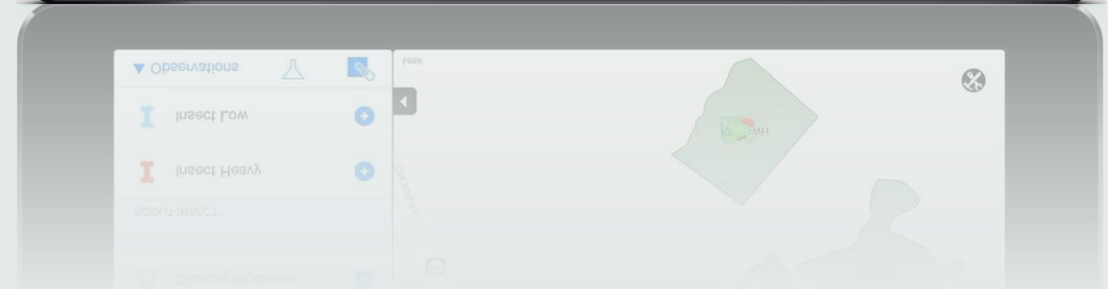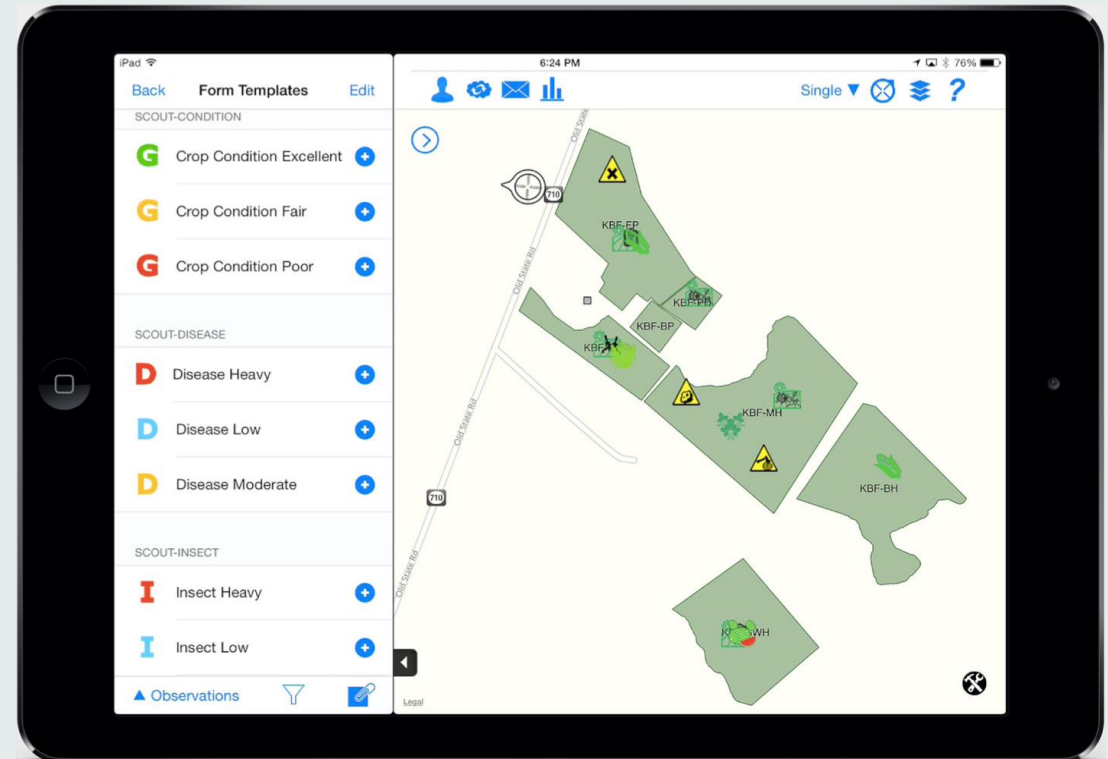 - Word Formatted Reports

Why You Should Care!

Why You Should Care

- Your tractor will be the cloud

- Collapse of time between Events

- Just-in-time Analysis

Without Programming

- Do your own Research

- User defined Collection Form

- User Custom Math

- User defined Reporting

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