

2015 KBS LTER Main Site

Main Cropping System Experiment

Treatment Key

- T1 Conventional corn/**soybean**/wheat
 - T2 No-till corn/**soybean**/wheat
 - T3 Reduced Input corn/**soybean**/wheat with cover crop
 - T4 Biologically Based corn/**soybean**/wheat with cover crop
 - T5 Poplar
 - T6 Alfalfa
 - T7 Early Successional community
 - T8 Mown Grassland (never tilled) community
- r = replicate number

Microplot Treatment Key

- Nitrogen fertilized
- Tillage (T7)
- Herbicide-free
- Nitrogen fertilized and weed-free

Instrumentation Key

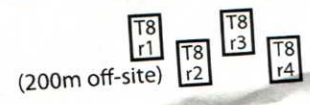
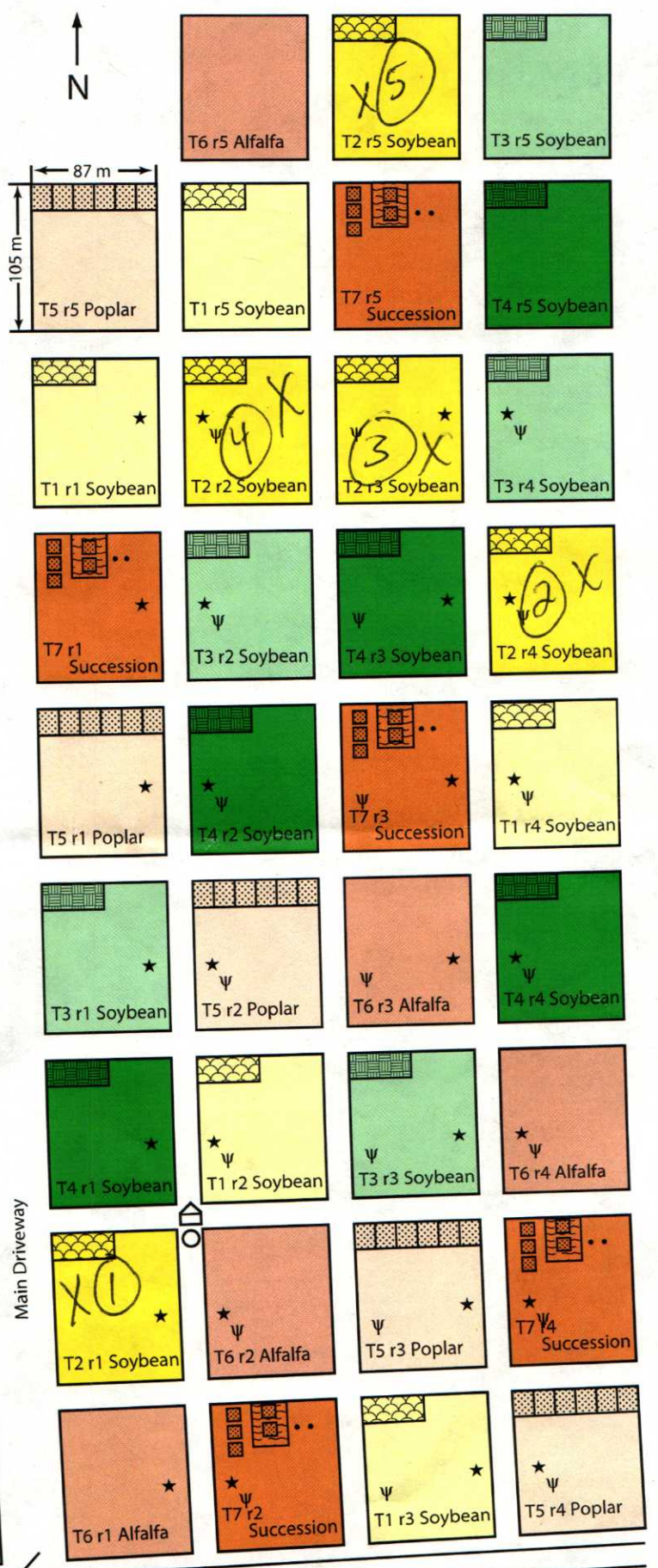
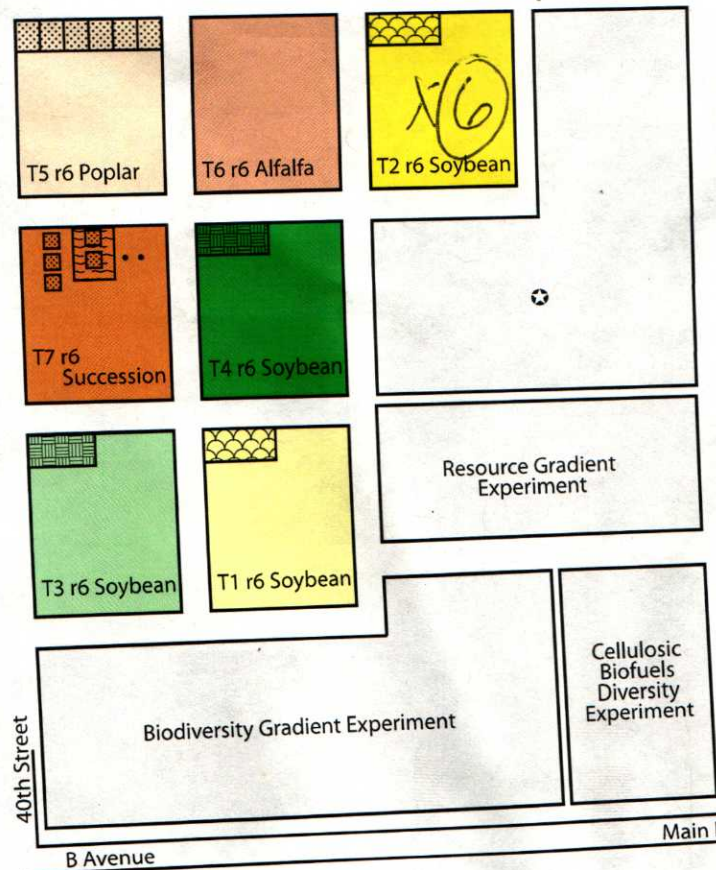
- Minirhizotrons
- ★ Trace gas flux chambers
- Ψ Low tension suction lysimeters
- ☼ Weather station & weighing lysimeter
- ⌂ Trace gas shed
- Wireless tower & sun photometer
- ⊙ Aphid tower

- Storage & Shop
- Field Lab

□ Soil Profile Pit

3/30/16
Fertilize T2 plots
275 lbs/A
Potash / Map blue
100 lbs/A 0-0-60
175 lbs/A 11-52-0

meter says 17.24 ⊙



2016

30' Gandy Calibration. fertilizer Map + Potash blend

100lbs potash 175 lbs Map

275 lbs/A target

Gandy 30' wide by 16 deflectors.

$$30 \times 12 = 360'' \div 16 = 22.5 \text{ in}$$

$$\text{Grams/min} = \frac{\text{Grams/A} \times \text{mph} \times \text{width in}}{5940}$$

$$\text{Grams/A} = 275 \times 454 = 124,850 \text{ grams/A.}$$

$$\text{Grams/min} = \frac{124,850 \times \overset{2}{\cancel{4.5}} \text{ mph} \times 22.5}{5940}$$

$$\text{Grams/min} = 945.8 \text{ grams/min}$$

$$\text{Grams/30sec} = 473 \text{ grams.}$$

