

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

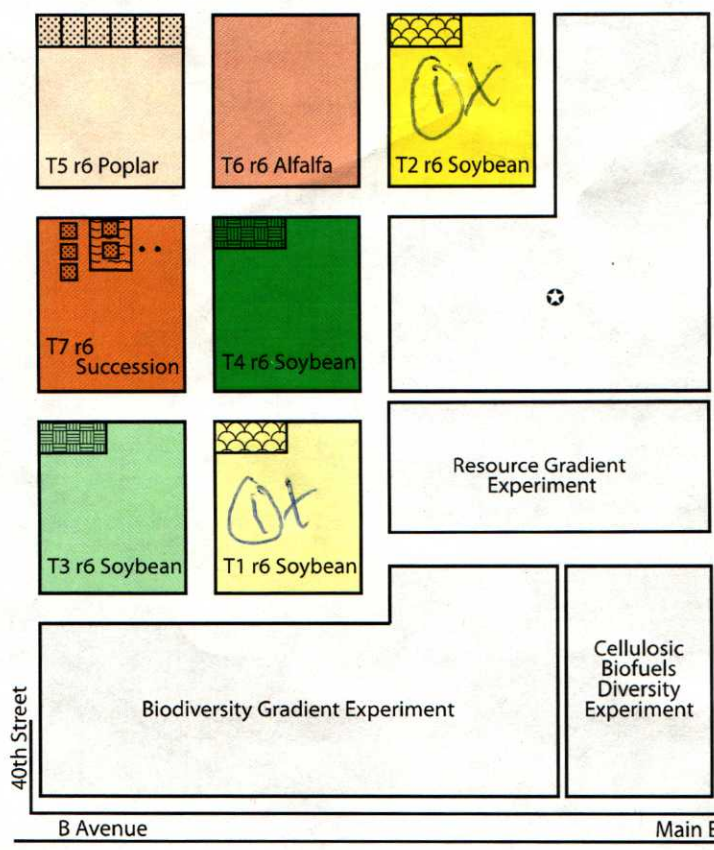
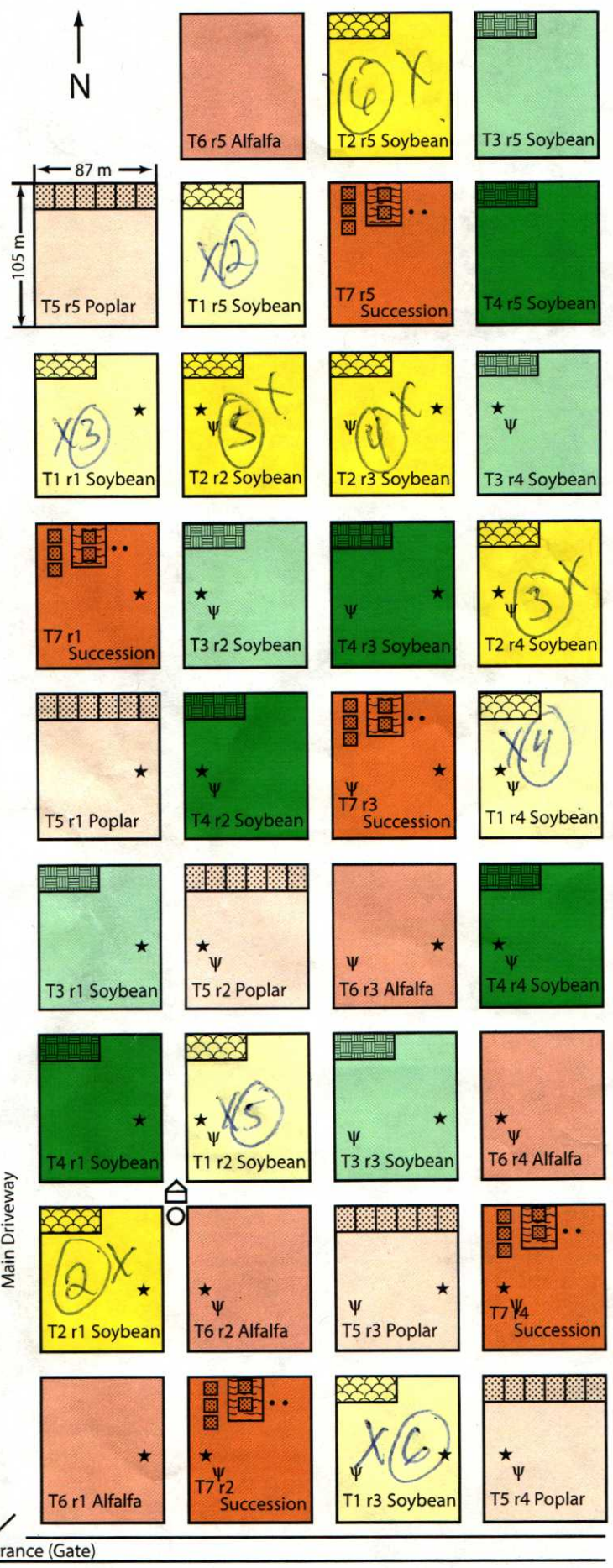
- Minirhizotrons
- ★ Trace gas flux chambers
- ψ Low tension suction lysimeters
- ☼ Weather station & weighing lysimeter
- ⌠ Trace gas shed
- Wireless tower & sun photometer
- ⊙ Aphid tower

April 16, 2016
Spray T1
T2
T8 NT
Cysimeter
N-RATE

2 oz/A powerflex
3 lbs/100 gal AMS
2 lbs/100 gal NIS.

Storage & Shop
Field Lab

Soil Profile Pit



T8 r1
T8 r2
T8 r3
T8 r4
(200m off-site)

~~April~~ April 16, 2016

T₁ ~~11:20~~
9:20 54°F Sunny 56% hum
3-5 E

TL End 11:35 63°F 43% hum
1-2 mph E

T₂ skt 12:20
78°F 43% hum Sunny
Wind 2-5 EES

T₃ NT
2:30 end 75°F 27% hum Sunny
5-11 mph SE

N-RATE 3:10 75°F 28% hum
lysimeter 5-10 mph E

3:30 pm End 76°F 29% hum
wind ESE 1-5 mph

N-RATE 4.5

Lysimeter 7

11.5A

20 gal in sprayer 1A

10.5A

~~AMS~~

210 gallons loaded

AMS ~~210~~ $3 \times 10.5 = 31.5$ lbs

powerflex 21 oz

NIS ~~210~~ 4 gts.