

November 17, 2011 Corn Harvest N-rate study.

Joe Simmons Kincaid plot combine

First reharvest → H1
 (5 ears) → #2 → 1-2

File names on AA Allegro: N-rate Urain,

N-rate 1111r

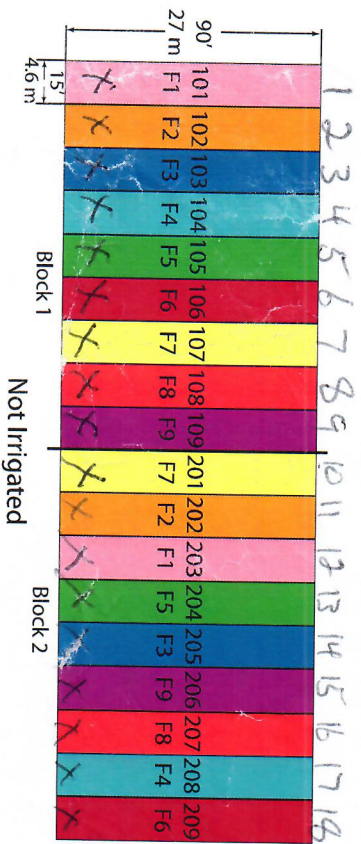
KBS LTER Nitrogen Fertility/Irrigation Experiment

N-rate 11extra: IS reharvest of plot #s 306, 401, 504, 508, 605, 609, and 609



Block 3

Block 4



Block 1

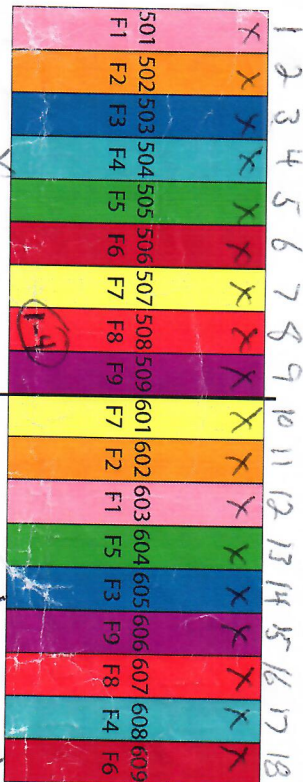
Not Irrigated

Block 2



Block 7

Block 8



Block 5

Irrigated

Block 6

I had to reharvest because of back-up in the scale system.
 File Name: N-rate 11
 #2-1-1

Nitrogen Amounts in Corn Crop Years

Treatment	F1	F2	F3	F4	F5	F6	F7	F8	F9
N(lb/a)	0	30	60	90	120	150	180	220	260
N(kg/ha)	0	34	67	101	135	168	202	246	291

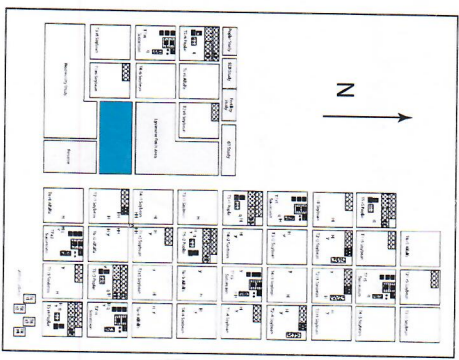
Nitrogen Amounts in Winter Wheat Years

Treatment	F1	F2	F3	F4	F5	F6	F7	F8	F9
N(lb/a)	0	20	40	60	80	100	120	140	160
N(kg/ha)	0	23	45	67	90	112	135	157	180

All treatments established May 2005
 Each plot is 15' x 90' (4.6 x 27.4 m)

File Name: N-rate 11 ext #2: IS the reharvest of plot

#3 809 and 5 ears from plots 306 and 401.



Location within main LTER site

Ranked

Plot # 2-6 had very poor stand count

Plot # 2-10 Had extra weight because of backup in scale-hopper 3-10/15 (10 lbs at most)
most likely 3-6/15

~~Plot #~~

Unranked

Plot # 1-4 Had extra weight because of backup in Scale-hopper 10 lbs?

Plot # 1-7 + ~~2-7~~ 2-7 I harvested rows 4+5 not 3+4.

Plot # 1-8 Had extra weight because of backup in scale-hopper (10 lbs?)
1-14 Same as 1-8

1-18 Same as 1-14

Moisture Curve:

Corn 2011 #4

Map File: N_rate'llirain
Date: 11/17/11
Time: 3:05:28 PM

Range Row

1	1	Plot # 101	52.35	17.05	60.06
2	1	# 301	122.87	19.27	58.76
2	2	# 302	109.00	17.24	59.94
1	2	# 102	72.10	16.40	60.38
1	3	# 103	91.61	16.66	60.23
2	3	# 303	122.45	18.24	59.26
2	4	# 304	74.22	16.90	60.06
1	4	# 104	109.62	17.03	60.01
1	5	# 105	119.23	17.17	59.92
2	5	# 305	109.28	17.00	59.98
2	6	# 306	107.29	17.32	59.85
1	6	# 106	122.85	17.90	59.45
1	7	# 107	132.94	18.05	59.33
2	7	# 307	135.57	17.84	59.53
2	8	# 308	132.13	17.70	59.65
1	8	# 108	131.51	19.13	58.80
1	9	# 109	132.93	18.91	58.92
2	9	# 309	59.65	16.58	60.21
2	10	# 401	157.69	16.03	60.39
Tare Warning! ok 0.0lbs					
W: 2.75					
M: 9.74					
1	10	# 201	129.65	18.84	59.02
1	11	# 202	72.47	16.15	60.44
2	11	# 402	132.83	17.67	59.65
2	12	# 403	109.33	16.84	60.11
1	12	# 203	51.89	17.20	59.89
1	13	# 204	117.23	16.70	60.16

2	13	# 404	58.76	17.42	59.71
2	14	# 405	136.07	18.46	59.15
1	14	# 205	91.67	16.77	60.12
1	15	# 206	125.36	19.02	58.84
2	15	# 406	73.88	16.27	60.39
2	16	# 407	94.74	16.63	60.20
1	16	# 207	125.72	19.46	58.64
1	17	# 208	101.70	17.01	59.95
2	17	# 408	121.84	18.43	59.19
2	18	# 409	128.42	18.90	58.87
1	18	# 209	115.08	17.61	59.60

Moisture Curve:

Corn 2011 #4

Map File: N_rate'llirr
Date: 11/17/11
Time: 4:54:01 PM

Range Row

1	1	Plot # 501	53.15	16.56	60.23
2	1	# 701	136.83	17.29	59.87
2	2	# 702	99.43	16.58	60.23
1	2	# 502	78.24	16.00	60.55
1	3	# 503	98.53	15.71	60.70
2	3	# 703	138.52	17.33	59.86
2	4	# 704	76.18	16.49	60.26
1	4	# 504	130.85	16.58	60.20
1	5	# 505	122.97	16.97	60.05
2	5	# 705	103.75	16.25	60.46
2	6	# 706	117.41	17.07	60.02
1	6	# 506	129.83	17.56	59.75
1	7	# 507	136.96	17.25	59.90
2	7	# 707	133.97	17.11	59.97
2	8	# 708	128.17	17.13	59.96

1	8	# 508
177.55	17.25	59.81
1	9	# 509
147.01	17.60	59.69
2	9	# 709
62.34	16.81	60.07
2	10	# 801
130.39	17.06	60.01
1	10	# 601
142.30	17.45	59.74
1	11	# 602
76.22	15.77	60.66
2	11	# 802
134.28	17.15	60.00
2	12	# 803
116.34	16.51	60.23
1	12	# 603
58.81	16.71	60.17
1	13	# 604
126.24	16.39	60.36
2	13	# 804
54.15	16.24	60.37
2	14	# 805
140.67	17.46	59.76
1	14	# 605
113.23	16.49	60.23
1	15	# 606
145.39	17.62	59.64
2	15	# 806
77.29	16.08	60.49
2	16	# 807
104.09	16.11	60.48
1	16	# 607
141.86	17.64	59.63
1	17	# 608
109.02	16.32	60.42
2	17	# 808
136.69	17.10	59.99
2	18	# 809
165.08	10.17	59.40
Tare Warning!		
W: 5.33		
M: 14.56		
1	18	# 609
159.21	16.76	60.12

Moisture Curve:

Corn 2011 #4

Map File: N:\rate\11extra
 Date: 11/18/11
 Time: 11:32:23 AM

Range Row

1 1 Plot # 306
 116.61 16.97 59.83
 1 2 plot # 401
 117.55 16.80 59.97

Ready...

1 3 plot # 504
 110.38 16.29 60.18
 1 4 plot # 508
 141.70 17.49 59.50
 1 5 plot # 605
 98.35 16.04 60.32
 1 6 plot # 609
 129.66 16.52 60.02

Moisture Curve:

Corn 2011 #4

Map File: N:\rate\11ext#2
 Date: 11/18/11
 Time: 12:30:26 PM

Range Row

1 1 Plot # 809
 139.92 17.91 59.30
 1 2 5 ears of corn from plot # 306
 2.29 17.38 59.65

Ready...

1 3 - 5 ears of corn from plot #
 2.73 16.68 60.10 401

Never harvested 5 ears by hand, so when I reharvested plots 306 & 401 I needed 5 more ears which I took from the Ready... outside rows of corn.