Last Update : 5-30-12

2011-2012 Winter Canola Results

Precision Nutrient Management
Extension

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Foliar K and Ca

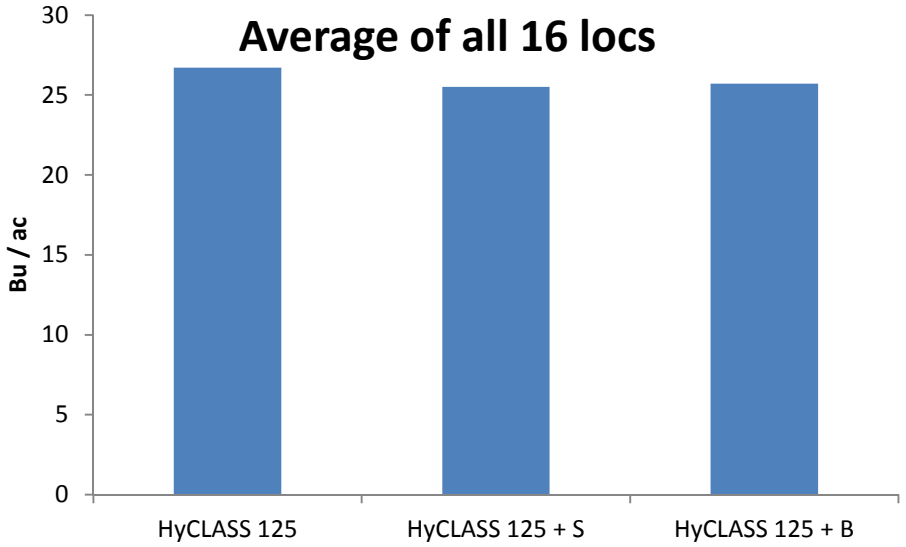
- Tissue Test showed K and Ca Below Critical Level at Bolting. Applied KCl and CaCl.
- Cultivar Pioneer 46W94

Trt		Bu/ac	Stdev bu/ac
1	Foliar K	81	3
2	Foliar Ca	78	11
3	Foliar K + Ca	74	16
4	Check	85	9

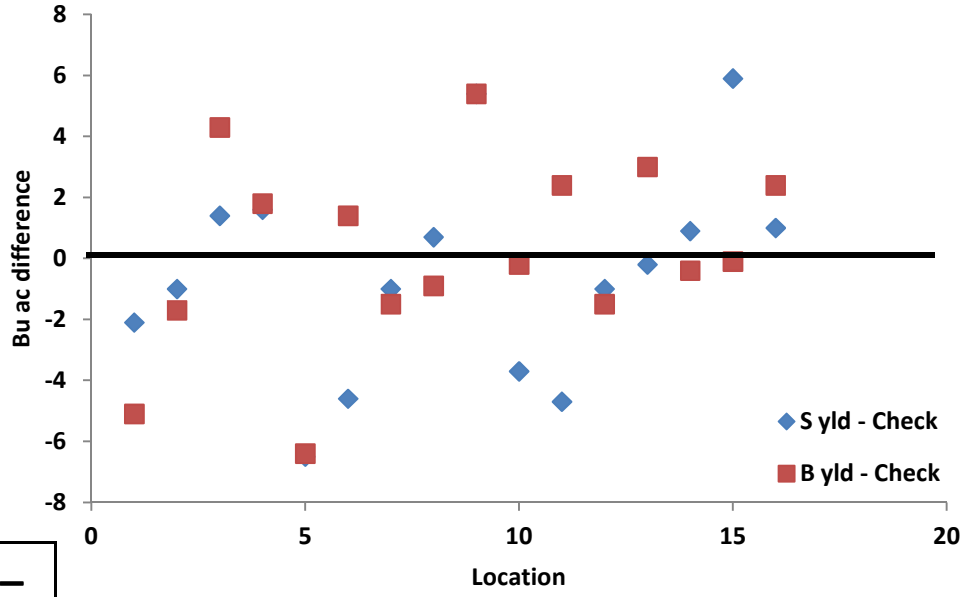
- In this Case there was no Benefit of Foliar K or Ca Applications.

Foliar S and B at Demos

- 16 locations Foliar S and B applied pre-flower to early flower as label rec.



Foliar S and B at Demos



	Sulfur yld – Check yld	Boron yld – Check yld
# of Positive	**7**	**7**
# of Negative	**9**	**9**
Ave Pos. resp	**2.4 bu/ac**	**3.0 bu/ac**
Ave Neg resp	**-3.0 bu/ac**	**-2.0 bu /ac**

Keep in mind Standard Deviation is Likely between 4-8 bu/ac across locations

Foliar S and B at Demos

- Tissue Test and Soil Samples collected at application.

Critical Value	4-6.4	0.42-0.69	2.1-3.0	3.5-5.10	0.15-0.62	0.3-0.9	25-54	5-25	100-200	33-49	30-250
	N	P	Ca	K	Mg	S	B	Cu	Fe	Zn	Mn
Garfield	4.688	0.3	1.2	3.2	0.2	0.5	24.8	3.5	128.9	36.4	106.2
Chick	4.64	0.4	1.5	2.5	0.4	0.7	34.4	3.8	147.5	31.7	71.8
Randalett	4.416	0.4	1.3	2.7	0.3	0.6	27.8	6.3	151.7	42.9	120
Duke	5.2	0.5	1.7	3.4	0.3	0.9	29.5	4.8	272.9	22	88
Stephens	4.64	0.3	1.9	2.1	0.4	0.6	25.7	3.6	106.7	31	169.2
Major	6.24	0.5	2	3.4	0.4	1.2	40.5	11	282	61	268.4
Blaine	6.976	0.5	2.3	2.8	0.4	1.1	54.5	11.1	313.3	57.8	201.4
Kiowa CT	6.016	0.4	2.1	3.3	0.4	1	42.1	8.1	274.5	43.6	114
Kiowa NT	4.992	0.5	2.3	3	0.4	0.9	42.8	8.3	220.3	44.6	95.8
Caddo	6.08	0.5	2.4	2.7	0.3	0.9	26.3	9.6	517.8	49.8	127

Summary of the 2011 Winter Canola Demo Plot Soil Tests

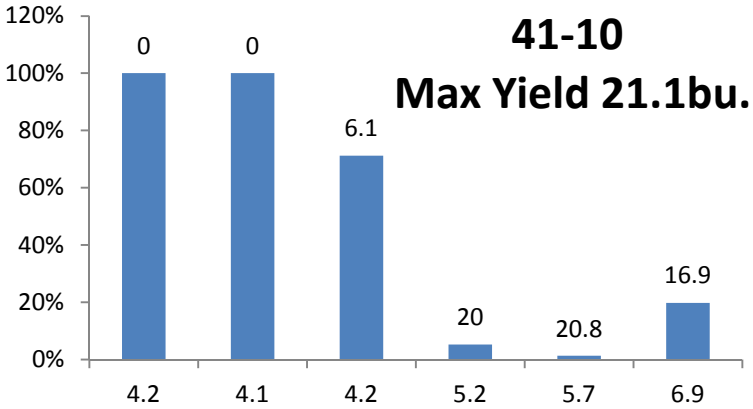
	pH	BI	NO_3-N (lbs/A) 0-18in	Soil Test P Index	Soil Test K Index	SO_4-S (lbs/A) 0-18in	Ca (lbs/A)	Mg (lbs/A)	Fe (ppm)	Zn (ppm)	B (ppm) 0-18 in	Cu (ppm)
Noble	6.9	---	253	373 (186 ppm)	786 (393 ppm)	276	11,619	691	30.4	2.4	0.6	1.5
Garfield	5.4	6.9	32	51 (26 ppm)	440 (220 ppm)	75	2,877	604	59.3	0.8	1.3	1.2
Dewey	4.8	6.8	66	176 (88 ppm)	750 (375 ppm)	24	1,900	537	44.4	1.1	0.0	1.2
Blaine	5.2	7	183	55 (28 ppm)	543 (272 ppm)	29	3,293	810	43.8	0.7	0.3	1.3
Major	5.3	6.9	29	116 (58 ppm)	628 (314 ppm)	40	1,745	479	35.9	0.9	0.3	1.3
Grant	4.8	7	62	105 (52 ppm)	531 (266 ppm)	23	991	314	52.1	0.7	0.2	1.0
Kiowa - CT	6.4	---	145	133 (66 ppm)	1,305 (652 ppm)	33	5,297	1,368	32.6	1.0	0.5	1.4
Kiowa - NT	6.1	7.1	72	126 (63 ppm)	1,097 (548 ppm)	26	5,036	1,222	40.9	0.9	0.4	1.5
Harmon	7.7	---	96	32 (16 ppm)	1,197 (598 ppm)	549	15,394	1,057	13.1	0.3	5.5	1.5
Cotton	5.3	7	52	58 (29 ppm)	290 (145 ppm)	168	2,524	1,026	50.4	0.5	4.0	1.2
Stephens	5.4	7.1	63	49 (24 ppm)	225 (112 ppm)	109	1,541	291	44.0	0.4	0.7	0.8
Caddo	5.5	7.1	89	146 (73 ppm)	652 (326 ppm)	23	2,477	217	39.6	0.5	0.3	0.9
Grady	6.3	---	51	103 (52 ppm)	679 (340 ppm)	45	4,332	1,452	43.0	0.9	0.5	1.4
Min	**4.8**		**29**	**32**	**225**	**23**	**991**	**217**	**13.1**	**0.3**	**0**	**0.8**
Max	**7.7**		**253**	**373**	**1,305**	**549**	**15,394**	**1,452**	**59.3**	**2.4**	**5.5**	**1.5**

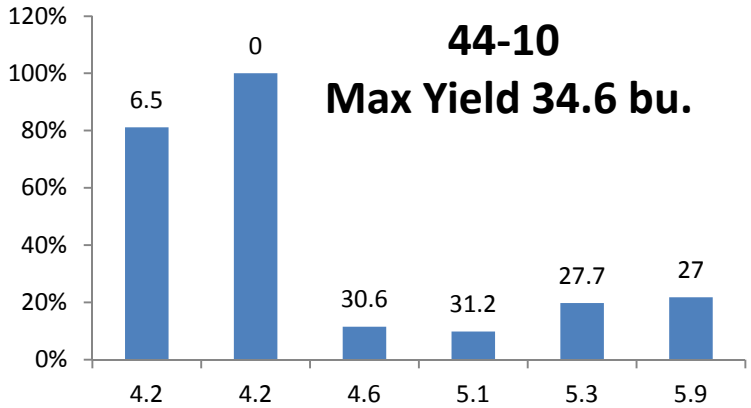
Soil Acidity x Cultivar

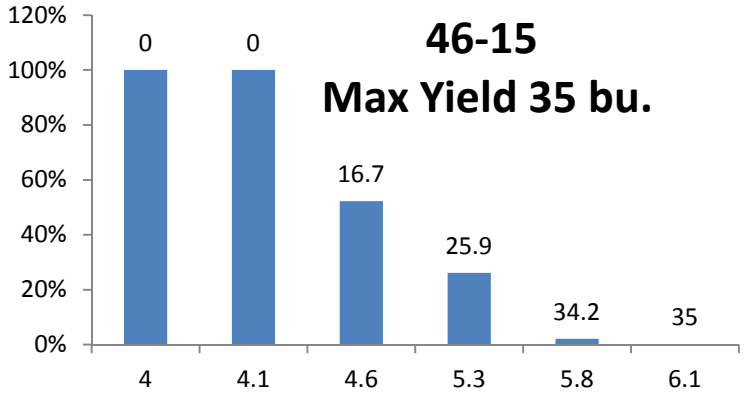
- Soil pH values need to be updated. Last sampling 8/2010.
- In several Cultivar pH impacted Maturity/dry down. Higher pH's matured quicker and resulted in high % shatter.
- HC 115 Most tolerant

- Have to wait for current soil pH to determine critical levels.

Dekalb

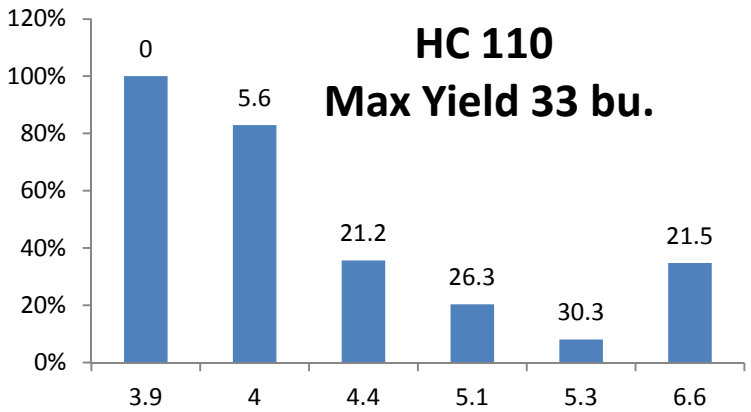


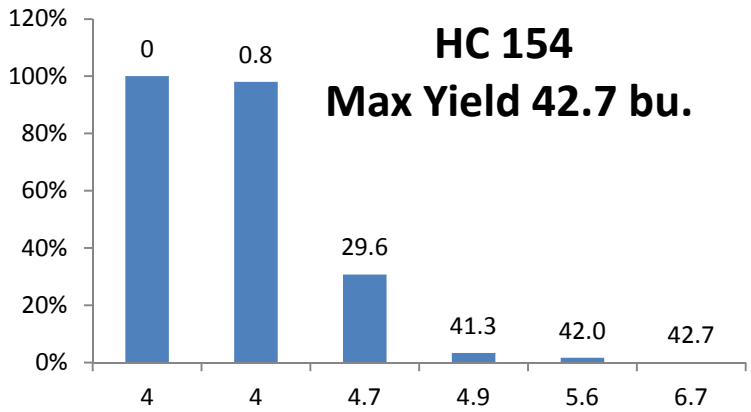


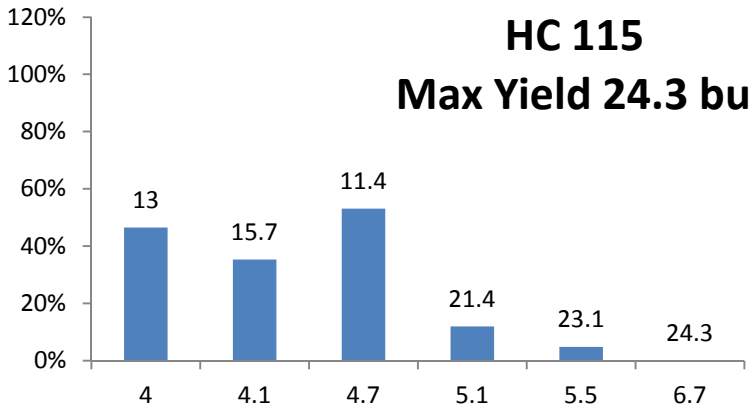


41-10 had significant Shattering across all plots (except 2 lowest pH) 15-20 % loss, not accounted for in graph.

High Class







HC 115 had significant Shattering across all plots 20-25% loss, not accounted for in graph.

Banded DAP with Seed