Weather Factors



This was a summer of discontent for we prefer to reap what we sow rather than depend upon the safety net of crop insurance to determine our fate. But this is just what occurred for those fortunate enough to have insurance.

Unseasonably warm temperatures (16 degrees above normal) during March enabled many to plant in March and early April. By mid April, slightly above normal rainfall delayed planting for the rest.

That delay may have proven costly, because after May there was very little rain. According to the rain gauge at our Pittsfield Independent Plot, just 10.1 inches of rain fell between May and August. This was bad in itself, but the temperatures made it worse.

Temperatures were well above normal all summer with 11 days over 100 degrees and 40 days in the 90's, with little or no temperature relief at night! It was oven-like and the corn baked. 2012 proved to be one of the worst and costliest droughts on record. Commodity prices soared with \$8 corn and \$16 beans.

Early September brought relief from the drought with the aftermath of hurricane Isaac but that proved too late for the corn crop. Yields in the 40's and 50's were common with some fields yielding nothing at all. The rainfall likely helped later beans.

Pike County Population Trial

31 different seed hybrids were planted in 28,000 and 34,000 seed populations to determine:

- 1.) Would higher populations bring higher yields?
 - **The result**: In eight of the 34 comparisons, the 34,000 population had a higher yield than the 28,000 population.
- 2.) Would the yield increase of the higher population offset higher seed costs?
 - **The result**: There was one comparison in 34 when the 34,000 population yielded enough to offset the higher

enough to offset the higher seed costs (based on \$7/ bushel, 1,000 planted acres and seed corn at \$300 per bag)

* Check rows were included to account for field and soil variations.

In the 28,000 population trial, 77% of the comparisons had a higher yield than the 34,000 population (26 of 34 rows), and averaged about 3.25 more bushels per acre. Drought conditions and competition for soil moisture partly explain trial performance.

Planting Information

Soil type: Keomah Silt Loam, Bethalto Silt Loam, Virden Silty Clay Loam Planting date: Apr. 12, 2012 Harvest date: Sept. 21, 2012 Previous crop: Corn Row length range: 894 ft. -1,257 ft, 36" rows Planting population: 28,000; 34,000 Planted north to south

Chemical and fertilizer application schedule: Oct. 19, 2011 - 18-46-0 (DAP) applied @ 170 lbs./acre 0-0-60 (Potash) - 100 lbs./acre Jan. 11, 2012 - 82-0-0 (NH3) - 230 lbs./acre

Apr. 12, 2012 - Corvus - 5.6 ozs./acre -- Atrazine 90WDG - 1.5 lbs./acre

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Check-LG Seed 2620 VT3 28,000 15.8 59.7 5034 171.43 SS Seed FS63SV4 28,000 15.1 59.0 4666 160.99 SS Seed FS63SV4 34,000 15.4 59.9 4452 153.43 SS Seed FS60T30 34,000 14.1 57.9 4706 166.45 Mycogen 2V715 28,000 14.4 56.6 4946 172.89 Mycogen 2V715 34,000 15.1 58.3 4960 174.06 Mycogen 2V707 34,000 14.2 58.4 5032 178.46 167.44 Vioogen 2V707 28,000 14.8 59.3 5190 183.22 167.44 167.37 1	Check-LG Seed	2620 VT3	34,000	15.1	58.2	5020	173.20			- 64000			
FS Seed FS 63SV4 28,000 15.1 59.0 4666 160.99 SS Seed FS 63SV4 34,000 15.4 59.9 4452 153.43 Image: Constraint of the constraint of	Check-LG Seed	2620 VT3	28,000	15.8	59.7	5034	171.43						
SSeed FS63SV4 34,000 15.4 59.9 4452 153.43 Image: SSeed SSeed FS60130 34,000 14.1 57.9 4706 165.47 Image: SSeed SSeed FS60130 28,000 14.5 61.0 4756 166.45 Image: SSeed SSeed FS60130 28,000 14.4 56.6 4946 172.89 Image: SSeed SSeed <td>-S Seed</td> <td>FS63SV4</td> <td>28,000</td> <td>15.1</td> <td>59.0</td> <td>4666</td> <td>160.99</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-S Seed	FS63SV4	28,000	15.1	59.0	4666	160.99						
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S Seed FS60130 28,000 14.5 61.0 4756 166.45 Image: Seed of the second	S Seed	FS60T30	34,000	14.1	57.9	4706	165.47						
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Mycogen 2V707 28,000 14.8 59.3 5190 183.22 Pioneer 1395 28,000 15.2 60.1 4906 171.96 Pioneer 1395 34,000 15.3 62.2 4736 167.44 Pioneer 33 D42 34,000 16.5 61.8 4510 157.19 Pioneer 33 D42 28,000 17.1 63.0 4816 167.06 Vutech 5X-915 28,000 15.5 61.4 4702 166.67 Nutech 5X-915 34,000 15.9 61.6 4470 158.08 Nutech 5X-515 34,000 16.2 61.4 4726 167.37 Nutech 5X-515 28,000 17.1 62.3 4722 165.85 160 ropland 6914AS3000GT 28,000 15.3 58.9 3330 120.70 165.5 160 ropland 6914AS3000GT 34,000 14.8 60.1 3172 115.65 160 160 ropland 6525 VT3PMF 34,000	Aycogen	20/0/	34,000	14.2	58.4	5032	1/8.46					· •	9.X
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10neer 33 D42 28,000 17.1 63.0 4816 167.06 Nutech 5X-915 28,000 15.5 61.4 4702 166.67 Image: Constraint of the state of th	Pioneer	33 D42	34,000	10.5	61.8	4510	157.19						
Nutech 5X-915 26,000 15.3 61.4 4702 106.67 Nutech 5X-915 34,000 15.9 61.6 4470 158.08 Nutech 5X-515 34,000 16.2 61.4 4726 167.37 Nutech 5X-515 28,000 17.1 62.3 4722 165.85 Cropland 6914AS3000GT 28,000 15.3 58.9 3330 120.70 Cropland 6914AS3000GT 34,000 14.8 60.1 3172 115.65 115.0 Cropland 6525VT3PMF 34,000 13.8 57.6 3348 124.77 124.77 Cropland 6525VT3PMF 28,000 14.3 59.2 3502 130.41 14.9 14.9 Check-LG Seed 2620 VT3 28,000 15.0 57.8 4224 170.44 14.9	lutoch	55 D4Z	28,000	17.1	03.0	4010	107.00				C. Manageria		
Mutech 5X-915 34,000 15.9 61.0 4470 158.08 Nutech 5X-515 34,000 16.2 61.4 4726 167.37 Nutech 5X-515 28,000 17.1 62.3 4722 165.85 Cropland 6914AS3000GT 28,000 15.3 58.9 3330 120.70 Cropland 6914AS3000GT 34,000 14.8 60.1 3172 115.65 110 Cropland 6525VT3PMF 34,000 13.8 57.6 3348 124.77 124.77 Cropland 6525VT3PMF 28,000 14.3 59.2 3502 130.41 144 Check-LG Seed 2620 VT3 28,000 15.0 57.8 4224 170.44 14.9 14.9	Nutech	JX-915	28,000	15.5	01.4	4/02	100.07						
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Check-LG Seed 2620 VT3 28,000 14.9 59.2 30.2 10.41 Check-LG Seed 2620 VT3 28,000 15.0 57.8 4224 170.44	ropland	6525VT2DME	28 000	1/ 2	50.0	3540	124.//						
Therk-16 Seed 2620 VT3 34 000 14 9 58 2 4280 172 00	Check-LG Sood	2620 VT2	28,000	15.0	57.8	4224	170.44						-
	Chock I C Seed	2620 VT2	24,000	14.0	50.0	1224	172.00					-	

Pike County Plot Results

Casla Duahala

Jersey County Plot Results



Company	Variety	Moisture	Test Weight	Scale Weight	Bushels Per Acre	Bu Per Acre	25 :	50 7	′5 1	00 1	25	150
Check-FS	FS60TV4	16.0	56.0	1636	128.98							
AgVenture	8899 AM	19.0	58.7	1478	112.37							
AgVenture	RL89504 BW	18.2	59.3	1630	125.15							
LG	2620 VT3	16.2	57.8	1604	126.16							
LG	2626 VT3 PR0	16.6	54.0	1674	131.04							
Check-FS	FS60TV4	15.5	56.3	1542	122.30							
Lewis	1311 VT3 P	14.9	57.0	1582	126.36							
Lewis	1313 VT3 P	16.0	58.5	1644	129.62							
FS	63SV4	16.1	55.2	1556	122.53							
FS	62MV4	15.3	56.7	1368	108.75							
Check-FS	FS60TV4	14.5	54.2	1358	108.98							
Stine	9734 VT3 PRO	15.2	57.0	1240	98.70							
Stine	9731 VT3 PRO	16.1	56.6	1336	105.20							
Masters Choice	MCT-6273	15.5	59.1	1226	97.23					The falle		
Masters Choice	MCT-6323	15.9	56.5	1292	101.98						A	
Check-FS	FS60TV4	15.3	55.5	1304	103.67						- Alexandre	-
DeKalb	DKC 65-19	16.6	58.4	1546	121.02			144 14				1-5
DeKalb	DKC 67-57	17.4	58.7	1660	128.70			Caller Decision			A STATE	AND
Wyffels	7477	16.0	57.6	1490	117.47						(Dave)	1 to a
Wyffels	7997	17.1	56.8	1438	111.90	Ren A Visiteration					112	
Check-FS	FS60TV4	15.6	55.9	1470	116.45	APRILATION DISATIST					11 61	
NuTech	5N-517	17.7	56.2	1522	117.57	ALCONTROL AND		PROFESSION OF THE OWNER		2.6		
NuTech	3D-811	16.7	59.7	1600	125.10		STOLAR I GALLA VIETNESSE					JA IA
Channel	215-52 VTP3	15.2	56.5	1406	111.91	ENERGY OF CONTRACT						
Channel	21209 STX	16.9	57.1	1714	133.69	WARNAR DESI						
Check-FS	FS60TV4	14.8	54.7	1388	110.99							
NK	N785-3111	16.9	55.8	1616	126.04	ANALY CARE CONSIDER	AND A COMPANY ADDITION OF MERICAN			Value and I for		
NK	N74R-3000 GT	19.2	55.2	1426	108.15							
DynaGrow	D53 VP 61	14.7	56.7	1600	128.10	Contraction of the					and the	A Print
DynaGrow	D54 VP 81	15.0	60.3	1434	114.41							
Check-FS	FS60TV4	15.2	55.1	1478	117.64	THE PROPERTY AND						
Greatheart	HT7240 VT 3P	15.7	57.8	1634	129.30						~	
Greatheart	HT950 VT 3 P	14.5	55.9	1602	128.55	A REAL PROPERTY OF						
Stone	6328 RIB	16.9	57.5	1772	138.21					a and a second se		
Stone	6404 GVT 3P	16.0	57.8	1784	140.65							P
Check-FS	FS60TV4	15.1	54.9	1504	119.85	AND ADDRESS AND ADDRESS ADDRESS	AND AN ANALY				DE	
Golden Harvest	H8928-3111	15.6	57.0	1438	113.91				ACASERCA	1		
Golden Harvest	H9341-3000 GT	18.2	55.5	1474	113.20							
Check-FS	FS60TV4	15.5	55.1	1410	111.83					100		

Jersey County Nitrogen Comparison

The objective of this comparison was to determine the impact of various levels of nitrogen on yields. We certainly had no idea when this comparison was planned that we'd be suffering from the worst drought in over 40 years coupled with withering heat. Besides weather, other factors may have come into play to affect the outcome.

Five different nitrogen levels of were used and each N amount was side dressed on six, 650-foot long rows use the same seed corn. The highest yield of 114.21 bu/acre came from the application of 160# N, which was 2.88% higher than the average yield of the other application rates.

Planting Information

Soil type: Muscatune Silt Loam Planting date: Apr. 10, 2012 Harvest date: Sept. 13, 2012 Previous crop: Corn Row length range: 650 ft., 30" rows Planting population: 32,000 Planted north to south Chemical and fertilizer application schedule: Oct. 31, 2011 - 18-46-0 (DAP) applied @ 75 lbs./acre Potash - 125 lbs./acre Apr. 27, 2012 - NH3, 190 units per acre (side dressed) May 17, 2012 - Degree Xtra - 2 qt./acre -- Atrazine - 1.5 qt./acre; Roundup PowerMax - 32 ozs./acre -- AMS Plus - 3 qt./acre It had a range of 2.25 to 5.01 more bushels per acre than the other amounts of N applied. The chart illustrates how many more of bushels per acre were harvested using 160# N.

Nitrogen Comparison									
Amount of Nitrogen Applied	Moisture	Test Weight	Bu Per Acre						
120# N	15.4	55.4	111.96						
140# N	15.7	54.9	109.2						
160# N	15.5	54.5	114.21						
180# N	15.1	54.1	111.08						
200# N	15.5	55.7	111.83						

Check Row

To account for field variations in the independent plots, check hybrids were used. Check hybrids are the same corn variety spread throughout the plot. The checks provide a means to compare seed performance taking the field variability into consideration; adjusting for good or bad spots in the field.

FROM THE PRESIDENT



I am pleased to present Farmers State Bank's Independent Plot results for 2012!

This year marks the 10th anniversary of the Pittsfield plot. To commemorate this important occasion, we decided to make some enhancements to our plots in Pittsfield and Jerseyville. In prior years the most promising seed hybrids were planted so yields could be compared. This year we also ran trials on two issues that affect yields:

- 1. Population in Pittsfield
- 2. Nitrogen application in Jerseyville

The results of the research are presented in this publication. I hope this information will assist you in your future endeavors. Farmers State Bank remains committed to agriculture and appreciates the opportunity to serve you.

incere Lewis M. Grigsby, Jr. President



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White Hall, IL 133 N. Main St. 217.374.2200

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2012 INDEPENDENT PLOT RESULTS

Boost yields and profitability by utilizing this information when making seed selections