EVALUATION OF ROUNDUP READY® CORN HYBRID YIELDS AND CROP VALUE

Kenneth & Keith Johnson, Cooperators, (2008)
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SUMMARY:

Eleven Roundup Ready® corn hybrids planted on February 29, 2008 yielded from 89 - 112 bushels per acre. At the 2008 average corn harvest market price of $5.68/bushel, the corn hybrids ranged in value from $506 - 631 per acre. Selecting from the top hybrids could potentially net over $100 more per acre over other hybrids.

OBJECTIVES:

To determine the yield potential of the top Roundup Ready® corn hybrids offered by area seed companies. This demonstration will assist the producers by evaluating all major Roundup Ready® corn hybrids, comparing them locally and then with coastal counties actively participating in the standardized demonstration.

MATERIALS and METHODS:

Eleven Roundup Ready® corn hybrids were planted on February 29, 2008. Fertilizer included 500 lbs/ac of 22-6-0-2s-0.05zn with an additional 45 lbs/ac of 6-20-0 plus trace elements applied at planting. Herbicides applied at planting were 2 qt/ac of Atrazine, 1 pt/ac of Roundup plus 1 pt/ac of Grounded. Roundup PowerMax was applied at the rate of 24 oz/ac when the corn was 24 inches tall. No insecticide was applied to this plot.

The seeding rate was set at 25,300 seeds per acre planted 2½" deep with a 7100 John Deere MaxEmerge II. The 6 row plots were 0.49 acre each planted on 38 inch rows that were 1122 feet long. Harvested was on July 22, 2008 with a commercial combine. Yields were adjusted to 15 percent moisture.

RESULTS and DISCUSSIONS:

The crop grew well but with minimal moisture as the spring season progressed. As summer commenced, field moisture was nearly nil with this crop and all area crops maturing early due to lack of moisture. The field was clean of weeds and progressed well in spite of the dry conditions. Yields at harvest varied from 89 - 112 bushels/acre. See Table 1 for yield results and notes on harvest. Aflatoxin was not tested but in the area the majority was reported to be below 20 ppb.

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DISCLAIMER CLAUSE:

Trade names of commercial products used in this report are included only for better understanding and clarity. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Texas A&M University System is implied. Readers should realize that results from one experiment do not represent conclusive evidence that the same response would occur where conditions vary.

Table 1. Yield and evaluation of Roundup Ready® corn hybrids. Kenneth & Keith Johnson, Cooperators, Victoria County, TX 2008.

Hybrid	Value-Added Trait	Bushel Weight	Moisture %	Adjusted Yield Bu/A [1/]	Harvest Notes [2/]	Crop Value $/A [3/]
DynaGro 58P59	RR2/YGCB	55	9	112	Fair stalk	636
Croplan Genetics 8950RB	RR2/YGCB	59	13	108	Good stalk	613
Integra 9662VT3	VT3	56	9	107	Good stalk; ears set low	608
Northrup King N77P5	GT/CB/LL	57	9	106	Excellent stalk	602
Hytest HT7891	VT3	55	9	101	Good stalk	574
Pioneer 31G65	RR2	55	10	97	Excellent stalk	551
Triumph 1802CbRR	RR2/YGCB	59	11	97	Good stand, weak stalk	551
Garst 83E90-3000GT	GT/CB/LL/RW	56	10	96	Ears set low	545
NC+ 6361	RR2/CB	56	9	91	Ears set low	517
BH Genetics 9078RRPLUS	RR2/YGPL	54	13	90	Excellent stalk	511
DeKalb DKC69-71	RR2/YGCB	58	12	89	Good stand, weak stalk	506
Mean		56.4	10.4	100.5		571

[1/] Adjusted to 15 percent moisture.
[2/] Weak stalk means it snapped off and went through the combine.
[3/] Crop value based on $5.68/bushel crop average during harvest season.