

1991

KENTUCKY SOYBEAN PRODUCTION CONTEST

Summary of Awards and Cultural Practices



Sponsored by

**University of Kentucky Cooperative Extension Service
Kentucky Seed Improvement Association
and
Kentucky Soybean Association**

**With
Cooperating Agri-Business Companies**

January 20, 1992

1991 Kentucky Soybean Production Contest

Summary of Award Winners

No. of entries completed - 92
 Kentucky counties represented - 24
 Soybean varieties or blends - 43

I. State Winners

<u>Award</u>	<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
Champion	Larry Parrish	Henderson	NK 4240	78.00
2nd Place	Ed White	Union	Asgrow 4595	76.69
3rd Place	Waller Brothers	Union	NK 4240	75.93

II. District Winners

<u>District</u>	<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
1	Roger & Jeff Davis	Carlisle	Asgrow 5403	54.71
2	Hancock Brothers	Union	Asgrow 4595	75.61
3	Hugh & Bo Boles	Hopkins	McCurdy 443	64.05
4	George & Edwin Pickerell	Larue	Pioneer 9442	69.08
5	Sanford Roberts	Shelby	SS-391	70.20
6	Wiley Brown	Knox	Pioneer 9501	67.22

III. 60 Bushel Club

<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
1. Larry Parrish	Henderson	NK 4240	78.00
2. Ed White	Union	Asgrow 4595	76.69
3. Waller Brothers	Union	NK 4240	75.93
4. Hancock Brothers	Union	Asgrow 4595	75.61
5. Tony McCarty	Daviess	Asgrow 4715	75.24
6. Pat Thompson	Daviess	Asgrow 5403	74.80
7. Jerry White	Union	Pioneer 9442	74.33
8. Ben Dyer, III	Union	Pixie	73.58
9. Johnny Royster	Union	NK Coker 425	73.44
10. Wells Brothers	Union	Asgrow 4595	72.22

60 Bushel Club (Cont'd)

11. Donnie Greenwell	Union	Asgrow 4715	72.01
12. Joe Wells	Union	Asgrow 4595	71.24
13. Omer Farms	Union	Callahan 8464	70.72
14. Sanford Roberts	Shelby	SS-391	70.20
15. Sanford Roberts	Shelby	SS-391	69.71
16. Mark Hayden	McLean	Asgrow 4715	69.59
17. George & Edwin Pickerell	Larue	Pioneer 9442	69.08
18. Hancock Brothers	Union	Asgrow 4715	68.06
19. Schwenke Brothers	Boone	Pioneer 9442	67.93
20. Sprague Brothers	Union	DeKalb CX366	67.69
21. Wiley Brown	Knox	Pioneer 9501	67.22
22. Rod Kuegel	Daviess	Asgrow 4595	66.84
23. McElroy Farms	Union	Pioneer 9442	66.41
24. Don Fischer	Daviess	Asgrow 3415	66.13
25. Jim & Mike Green	Franklin	SS-390	65.81
26. Charles O'Nan	Union	Asgrow 3945	65.75
27. Sylvester Fischer	Daviess	Jacob	65.00
28. Tim Hughes	Simpson	NK 4240	64.62
29. Ed Steward	Union	Callahan 1410	64.10
30. Hugh & Bo Boles	Hopkins	McCurdy 443	64.05
31. Bernard Krampe, Jr.	Daviess	NK 4884	63.56
32. McElroy Farms	Union	Asgrow 4715	63.43
33. Sprague Brothers	Union	Asgrow 3935	63.25
34. Sprague Brothers	Union	Funks G-3388	62.69
35. Randy Godman	Harrison	Mitchell	62.56
36. Scott Henshaw	Union	Callahan 1410	62.17
37. Mike Tuttle, John Tuttle, Jr. & Scotty Hamm	Estill	JJJ 4450	61.80
38. Caraway Brothers	McLean	Pioneer 9442	61.69
39. Denny Hardesty	Union	FFR-561	61.56
40. Happy Hollow Farms	Hopkins	Asgrow 4715	61.50
41. Fischer Farms	Daviess	Asgrow 4595	61.15
42. Keith Ayer	McLean	Asgrow 4595	60.64
43. Eddie Voils	Russell	Essex	60.41
44. David Hunter	Muhlenberg	Stine 4880	60.15

IV. Agriculture Agent with Top 3 Entries

Gene Brown - Union County - 76.08 Bu/A

Summary of Cultural Practices

The information summarized below is from a questionnaire completed by each contestant. An indication of no response means the contestant provided no information. The number in () represents the 44 entries that yielded over 60 bushels per acre and a,b,c represent practices of the State Champion, 2nd place, and 3rd place, respectively.

Did you plant certified seed?

Yes	77 (40)a,c
No	8 (2)b
No response	7 (2)

Germination of seed planted.

90% or more	47 (26)a,c
85-89%	15 (6)b
80-84%	7 (4)
No response	23 (8)

Did you inoculate your seed?

Yes	58 (26)a,b
No	28 (15)
No response	6 (3)c

What was your planting date?

Late April	2 (2)
May 1-10	24 (12)b,c
May 11-20	24 (14)a
May 21-31	18 (8)
June 1-10	16 (6)
June 11-20	4
June 21 +	3 (1)
No response	1 (1)

What row width did you plant?

< 6"	0
6-10"	22 (9)a,b,c
11-15"	39 (18)
16-20"	7 (2)
21-29"	1 (1)
30"	15 (12)
31-40"	6 (1)
No response	2 (1)

What was your planting rate?

< 50 lbs.	13 (8)
50-60 lbs.	37 (15)
61-70 lbs.	24 (11)
71-80 lbs.	14 (8)a,c
81-90 lbs.	3 (2)b
90 + lbs.	0
No response	1

What year was your soil last tested?

1987-1988	5 (3)a
1989	12 (6)b
1990	47 (25)c
1991	9 (2)
No response or unknown	19 (8)

What was the pH of the soil?

Less than 5.5	2
5.5 - 6.0	4 (3)b
6.1 - 6.5	42 (25)
6.6 +	23 (9)a,c
No response or unknown	21 (7)

What rate of P₂O₅ and K₂O were applied?

<u>Lbs/A</u>	<u>P₂O₅</u>	<u>K₂O</u>
0	33 (15)a,c	30 (15)a,c
1-40	20 (10)	10 (3)
41-80	31 (17)	27 (14)
81-120	5 (2)b	17 (8)
120 +	0	5 (4)b
No response	3	3

Was nitrogen applied?

Yes	37 (17)a,b
No	52 (27)c
No response or unknown	3

What was your previous crop?

Corn	76 (37)a,b,c
Soybeans	8 (4)
Grain Sorghum	1 (1)
Small Grains	2
Wheat/Soybeans	0
Forage or Sod	0
Corn/Wheat Cover	3 (2)
None (idle)	2
No response	0

What tillage system was used?

Conventional	29 (14)b
Minimum-till	44 (26)a,c
No-tillage	17 (4)
No response	2

What type of herbicide application did you use?

Preplant-incorp. (PPI)	27	(17)a
Preemergence (PRE)	11	(2)
PPI + PRE	3	(2)b
PPI + Postemergence	24	(13)c
PRE + Postemergence	10	(3)
PPI + PRE + POST	3	(1)
Postemergence	11	(5)
None	2	
No Response	1	(1)

Did you use some form of cultivation for weed control?

Yes	11	(7)
No	61	(27)a,b,c
No response	20	(10)

What were the main factors responsible for high yields?

Good weed control	7	(3)
High fertility level	9	(8)b
Good productive soil	10	(6)
Good variety	3	(2)
Good stand	1	(1)
Good management	5	(3)
Narrow rows	1	
Good weather	23	(15)b,c
Early planting	3	(3)b
Crop rotation	0	
Manure	1	(1)
No-till	0	
No response	44	(14)a

What were the limiting factors that prevented you from having a higher yield?

Poor weather (dry)	32	(16)
Other weather	8	(4)
Disease	0	
Late harvest or loss	1	
Poor weed control	0	
Fertility	0	
Lodging	0	
Late planting	0	
No response	53	(26)

Four most commonly used varieties.

Asgrow 4595	10	(7)
Asgrow 4715	10	(6)
Pioneer 9442	8	(5)
Stine 4880	4	(1)

What herbicides were used?

Treflan	12	(9)c
Treflan + Canopy	4	(3)
Treflan + Scepter	4	(3)
Treflan + Tri-Scept	1	
Tri-Scept	14	(12)a
Tri-Scept + Scepter	1	(1)
Tri-Scept + Scepter + Prowl	2	
Freedom	2	(1)
Freedom + Scepter	1	(1)
Freedom + Sencor	2	
Freedom + Lorox	1	
Dual	1	
Dual + Canopy	2	
Dual + Scepter	4	(3)b
Lasso + Canopy	1	
Lasso + Sencor	1	
Prowl	1	
Prowl + Scepter	1	(1)
Command + Canopy	1	
Canopy	3	(1)
Canopy + Guide	1	
Scepter	1	
Squadron	5	(1)
Assure	3	(2)
Assure + Pursuit	3	(2)
Fusilade	8	(5)
Fusilade + Butyrac	2	
Fusilade + Pursuit	2	(1)
Fusilade + Reflex	1	
Fusilade + Blazer + Butyrac	1	
Poast + Galaxy	1	(1)c
Poast + Storm	1	
Poast Plus + Blazer	1	
Poast Plus + Pinnacle + Reflex	1	
Tornado	1	
Pursuit	9	(5)
Pursuit + Reflex	1	
Basagran	1	(1)
Basagran + Blazer	1	
Basagran + Reflex	2	
Blazer	1	
Galaxy	1	(1)
Reflex	2	(1)
Reflex + Roundup	1	
Storm	1	
Bronco	1	(1)
Bronco + Canopy	3	(2)
Bronco + Lorox	1	
Roundup + Lasso + Lorox	1	
Roundup + Canopy + Prowl	2	(1)
Roundup + Canopy + Freedom	2	
Gramoxone + Lexone + Lorox	2	

Summary of Other Entries

<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
Lyle Martin	Carlisle	Asgrow 5403	50.27
Steve & Clint Kelley	Carlisle	Asgrow 5149	37.02
Jerry O'Bryan	Daviess	Pioneer 9501	59.70
Jimmy Gilles	Daviess	Stine 4880	59.43
Woodlawn Farms	Daviess	Asgrow 4715	58.16
Woodlawn Farms	Daviess	DeKalb CX469	57.28
Tommy & Preston Fulkerson	Daviess	Isaac	58.01
Don Cecil	Daviess	Stine 4880	55.29
Flatlick Farms	Daviess	N. King NK 4220	55.28
John Kuegel & Bucky Walters	Daviess	Pennyryle	55.23
Terry Rhodes	Daviess	Stine 4880	54.60
Kamuf Brothers	Daviess	TN 4-86	51.75
Gerry Hayden	McLean	Asgrow 5474	57.67
Alvin Bickett	McLean	Funks G-3388	55.45
Robin Rhea	Webster	Asgrow 4715	56.67
Jerry McGill	Webster	Pioneer 9461	55.50
Chris Mitchell	Webster	DeKalb CX458	54.17
Henshaw Brothers	Union	Asgrow 3935	56.93,54.90
McElroy Farms	Union	Asgrow 4715	56.68
McElroy Farms	Union	Pioneer 9442	55.07
Charles O'Nan	Union	Asgrow 4595	55.12
Charles O'Nan	Union	Pixie + NK 4240	50.32
Charles O'Nan	Union	Pixie	47.57
Gerald Day	Union	Pioneer 9442	48.40
Sprague Brothers	Union	Asgrow 3935	47.53
Sprague Brothers	Union	Funks G-3388	36.42
Happy Hollow Farms	Hopkins	Asgrow 4595	57.85
Greg Crowley	Hopkins	Pioneer 9442	56.38
Greg Crowley	Hopkins	Callahan 7510N	54.53
Paul Austin	Hopkins	Fayette	47.96
J. David Miller	Hardin	Jacques J-130	59.46
Matthew Hampton	Butler	Callahan	54.85
Sanford Roberts	Shelby	So. States SS-391	48.71
Mike Tuttle, John Tuttle, Jr. & Scotty Hamm	Estill	So. States SS-443	57.83
James Haynes	Scott	So. States SS-443	55.97
Wayne Friedly	Scott	So. States FFR-561	50.07
Stephen Bailey	Mercer	So. States SS-487	49.79
Kevin Jeffries	Oldham	DeKalb CX458	48.79
Troy Craig	Trimble	So. States SS-487	40.06
Orman & Douglas Burton	Wayne	Essex	59.26
McKinley, Sexton & Fallahzdeh	Wayne	Asgrow 4715	55.41
Williams Brothers	Wayne	Mitchell 450	51.63,47.17
Paul Vickery	Wayne	Essex	49.34
Dave Watson	Fleming	DeKalb CX415	55.68
Dave Watson	Fleming	DeKalb CX366	49.12

Cooperating Agri-Business Companies

Appreciation is expressed for the financial support provided by the following Agri-Chemical and Seed Companies which made it possible to provide proper recognition of the winners and participants in this contest.

AgriPro Seeds

ICI Americas, Inc.

American Cyanamid

Jacques Seed Co.

Asgrow Seed Co.

J.M. Schultz Seed Co.

BASF

Mobay

Callahan Seeds

Monsanto

Ciba-Geigy Corp.

Pioneer Hi-Bred Int.

Ciba-Geigy Seed Division

Rhone-Poulenc

DeKalb Plant Genetics

Southern States Coop.

DowElanco

The New Northrup King

DuPont

Valent U.S.A. Corp.

FMC