

1997

# 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, 1998

# 1997 Kentucky Soybean Production Contest

## Summary of Award Winners

No. of entries completed - 56  
 Kentucky counties represented - 12  
 Soybean varieties or blends - 35

### I. State Winners

<u>Award</u>	<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
Champion	P.P.J. Thompson Farms	Daviess	Garst D454	75.62
2nd Place	Schwenke Brothers	Boone	Pioneer 9452	71.84
3rd Place	Williams Brothers	Wayne	So. States FFR-493	71.35

### II. District Winners

<u>District</u>	<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
1	Lyle Martin	Carlisle	Garst 485	49.65
2	Tony McCarty	Daviess	Gutwein 7410	71.11
3	Ray Weir	Hopkins	So. States FFR-439	63.66
4	Peterson Farms	Nelson	Asgrow A4341	71.10
5	Randy Godman	Harrison	So. States FFR-439	60.74
6	Dave Watson	Fleming	DeKalb CX399	65.70

### III. 60 Bushel Club

	<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
1.	P.P.J. Thompson Farms	Daviess	Garst D454	75.62
2.	Schwenke Brothers	Boone	Pioneer 9452	71.84
3.	Williams Brothers	Wayne	So. States FFR-493	71.35
4.	Tony McCarty	Daviess	Gutwein 7410	71.11
5.	Peterson Farms	Nelson	Asgrow A4341	71.10
6.	Clay Wells	Union	Asgrow A4341	70.94
7.	David Clements	Union	So. Cross Mark	70.93
8.	Larry Parrish	Henderson	N.K. Brand S46-W8	70.46
9.	Tony McCarty	Daviess	N.K. Brand 3474	70.39
10.	Andy Sprague	Union	DeKalb CX450C	69.86
11.	Monty Parrish	Henderson	N.K. Brand S46-W8	69.28
12.	Sprague Brothers Farm	Union	Pioneer 9482	69.17
13.	French Brothers	Union	So. States FFR-446RT	68.01
14.	Larry Parrish	Henderson	N.K. Brand S46-W8	65.75

## 60 Bushel Club (Cont'd)

15.	Dave Watson	Fleming	DeKalb CX399	65.70
16.	Tommy Greenwell	Union	Asgrow	65.55
17.	Jackie Sparks	Daviess	N.K. Brand 3505	64.75
18.	Walker Farms	Union	Asgrow A4932	64.63
19.	French Brothers	Union	So. States FFR-446RT	63.96
20.	Ray Weir	Hopkins	So. States FFR-439	63.66
21.	Bucky Walters	Daviess	Gutwein 7410	63.00
22.	P.P.J. Thompson Farms	Daviess	Asgrow A4138	62.95
23.	Bucky Walters	Daviess	Gutwein 7410	62.80
24.	Wells Brothers	Union	Pioneer 9482	62.80
25.	Scott Kuegel	Daviess	Callahan 3484	62.58
26.	Matt Mason	Union	Asgrow A4138	62.49
27.	Dave Watson	Fleming	DeKalb CX313	62.03
28.	J.C. Ellis	Daviess	Asgrow A4715	61.68
29.	Sprague Brothers	Union	Pioneer 9482	61.16
30.	Randy Godman	Harrison	So. States FFR-439	60.74
31.	Bucky Walters	Daviess	Gutwein 7410	60.73
32.	Dave Watson	Fleming	DeKalb CX434	60.71

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## IV. Agriculture Agent with Top 3 Entries

Wayne Mattingly - Daviess County - 72.37 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 32 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	44	(25)a,b
No	4	(1)c
No response	8	(6)

What year was your soil last tested?

1993-1994	6	(5)
1995	12	(6)
1996	16	(8)a,c
1997	6	(3)b
No response or unknown	16	(10)

Germination of seed planted.

90% or more	24	(13)a,c
85-89%	4	(1)
80-84%	2	(1)
No response	26	(17)b

What was the pH of the soil?

Less than 5.5	0	
5.5 - 6.0	0	
6.1 - 6.5	27	(18)a,c
6.6 +	13	(4)b
No response or unknown	16	(10)

Did you inoculate your seed?

Yes	18	(8)c
No	24	(15)a,b
No response	14	(9)

What rate of P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O were applied?

Lbs/A	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
0	21	15
1-40	7	4
41-80	20	19
81-120	3	9
120 +	0	4
No response	5	5

What was your planting date?

Late April	4	(3)
May 1-10	12	(10)b
May 11-20	18	(14)a,c
May 21-31	9	(4)
June 1-10	0	
June 11-20	3	
June 21 +	8	(1)
No response	2	

Was nitrogen applied?

Yes	18	(14)a,c
No	35	(16)b
No response or unknown	3	(2)

What row width did you plant?

Solid	0	
6-10"	12	(8)a
11-15"	33	(22)b
16-20"	3	(1)c
21-29"	0	
30"	7	
31-40"	0	
No response	1	(1)

What was your previous crop?

Corn	50	(30)a,c
Soybeans	2	(2)b
Grain Sorghum	1	
Small Grains	2	
Wheat/Soybeans	0	
Forage or Sod	1	
Corn/Wheat Cover	0	
None (idle)	0	
No response	0	

What was your planting rate?

< 50 lbs.	0	
50-60 lbs.	21	(11)a,c
61-70 lbs.	13	(4)
71-80 lbs.	17	(14)b
81-90 lbs.	2	(2)
90 + lbs.	2	
No response	1	(1)

What tillage system was used?

Conventional	3	(1)
Minimum-till	39	(27)b,c
No-tillage	13	(4)a
No response	1	

What type of herbicide application did you use?

Preplant-incorp. (PPI)	4	(1)
Preemergence (PRE)	10	(5)
PPI + PRE	0	
PPI + Postemergence	14	(10)c
PRE + Postemergence	17	(12)a,b
PPI + PRE + POST	0	
Postemergence	10	(3)
None	0	
No Response	1	(1)

Did you use some form of cultivation for weed control?

Yes	3	(1)
No	41	(22)a,b
No response	12	(9)c

What were the main factors responsible for high yields?

Good weed control	14	(10)a
High fertility level	9	(9)a
Good productive soil	17	(15)a,b
Good variety	2	
Good stand	3	(2)
Good management	0	
Narrow rows	7	(7)
Good weather	2	
Early planting	1	(1)
Crop rotation	0	
Irrigation	1	(1)
Other	2	(2)
No response	28	(12)c

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

Poor weather (dry)	27	(18)b
Other weather	7	(6)
Late Harvest	1	(1)
Inadequate stand	2	(1)
Poor weed control	0	
Fertility	0	
Poor Stand	1	(1)
Late planting	3	(2)
Chemical injury	0	
No response	15	(10)a,c

Five most commonly used varieties.

So. States FFR-439	5	(3)
Gutwein 7410	4	(4)
Pioneer 9482	4	(3)
Asgrow A4138	4	(2)
N.K. Brand S46-W8	3	(3)

What herbicides were used?

Assure II + Classic	1	
Assure II + Reflex	1	(1)c
Authority Broadleaf + Command	6	(3)
Basagran + Reflex	2	(2)
Basagran + Reflex + Fusion	1	
Blazer + Fusion	1	
Broadstrike + Dual	1	(1)b
Canopy	1	
Canopy + Command	1	(1)
Canopy + Prowl	1	
Canopy + Treflan	1	(1)c
Conclude Xtra	4	(1)
Conclude + Storm	1	(1)
Detail	1	(1)
Flexstar	3	(2)a
Fusion	1	
Fusion + Reflex	3	(3)
Pledge	1	
Prowl + 2,4-D	1	
Prowl + Squadron	1	
Pursuit	1	(1)
Pursuit + Cobra	3	(3)
Pursuit + Fusion	1	
Pursuit + Reflex	3	(3)
Reflex	3	(2)b
Roundup	3	(2)
Roundup (POE)	10	(5)
Roundup + 2,4-D	2	(2)a
Roundup + Prowl	1	(1)
Roundup + Prowl + Canopy	2	
Roundup + Scepter + 2,4-D	1	
Roundup + Squadron	2	(1)
Roundup + Squadron + 2,4-D	1	
Squadron	9	(8)
Status	1	(1)
Treflan	7	(6)
Treflan + Scepter	1	(1)
Tri-Scept	1	(1)
Touchdown + Prowl + Squadron	1	
No response	1	(1)

### Summary of Other Entries

<u>Name</u>	<u>County</u>	<u>Variety</u>	<u>Yield (Bu/A)</u>
Dan Bowles	Carlisle	So. States FFR-514	43.40
Scott Kuegel	Daviess	So. Cross Jude	55.12
Goetz Brothers	Daviess	Asgrow A4138	54.03
Goetz Brothers	Daviess	Asgrow A4138	52.48
Mick Ford	Daviess	Asgrow AG3601	50.56
Beanland Farms	Daviess	So. Cross Expt'1. 1	50.18
Steve & Danny Gooch	Henderson	Callahan 7467RR	46.09
Land O'Nan Farms	Union	DeKalb CX458	59.89
Land O'Nan Farms	Union	DeKalb CX458	59.18
Land O'Nan Farms	Union	So. Cross Exodus	50.23
Chuck Voss	Union	So. States FFR-439	59.83
Walker Farms	Union	Asgrow AG4701	59.05
Sprague Brothers	Union	DeKalb CX313	52.02
Luck Farms	Hopkins	Callahan 3484	51.95
Ed, Kerry & Jason Fox	Hopkins	DeKalb CX434	44.33
Larry Thomas	Hardin	N.K. Brand S48-14	54.99
Paul Howlett	Hardin	So. Cross David	50.77
Patrick Preston	Hardin	So. Cross Joshua	48.07
David Ragland	Larue	So. States FFR-439	51.25
Donovan Burton	Wayne	Pioneer 9482	55.07
Orman & Douglas Burton	Wayne	Gutwein 7474	52.99
Orman & Douglas Burton	Wayne	Pioneer 9492	49.04
Larry McKinley	Wayne	So. States SS-381-ST5	49.31

## Cooperating Agri-Business Companies

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Mycogen Plant Sciences

Asgrow Seed Co.

Novartis Crop Protection

BASF

Novartis Seeds

Bayer Corp.

Pioneer Hi-Bred Int.

Caverndale Farms

Rhone-Poulenc

DeKalb Plant Genetics

Southern States Coop.

DuPont

Valent U.S.A. Corp.

FMC Corp.

Zeneca Ag Products

Garst Seeds