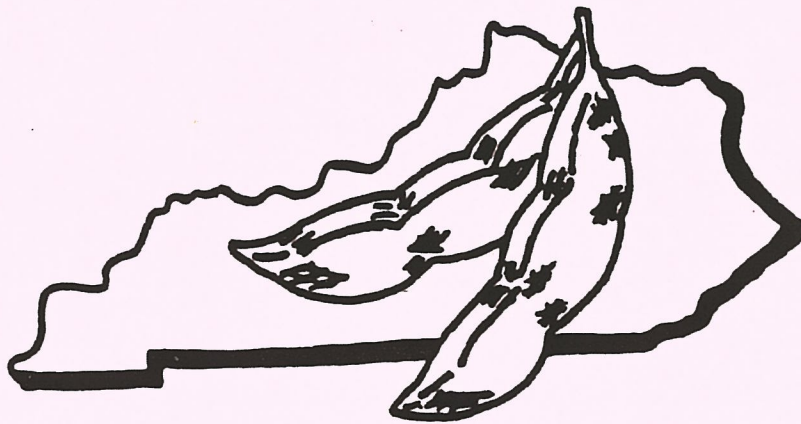


2000

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 30, 2001

2000 Kentucky Soybean Production Contest

Summary of Award Winners

No. of entries completed - 41
 Kentucky counties represented - 13
 Soybean varieties or blends - 27

I. State Winners

| <u>Award</u> | <u>Name</u> | <u>County</u> | <u>Variety</u> | <u>Yield (Bu/A)</u> |
|--------------|----------------------|---------------|--------------------|---------------------|
| Champion | Dave Watson | Fleming | Asgrow A4604-ST5 | 84.26 |
| 2nd Place | Billy & Roger Morris | Casey | So. States RT-3975 | 75.29 |
| 3rd Place | Peterson Farms | Marion | Asgrow A4341 | 73.13 |

II. District Winners

| <u>District</u> | <u>Name</u> | <u>County</u> | <u>Variety</u> | <u>Yield (Bu/A)</u> |
|-----------------|-----------------------|---------------|------------------|---------------------|
| 1 | "No Entries Received" | | | |
| 2 | Randahl & Joe Stephen | Daviess | DeKalb CX450C | 68.96 |
| 3 | Ronnie & T.A. Stokes | Todd | Pioneer 9421-ST5 | 59.89 |
| 4 | Joe Robert Buckman | Marion | Asgrow A4604-ST5 | 72.64 |
| 5 | Schwenke Brothers | Boone | Pioneer 93B84 | 72.87 |
| 6 | K & K Farms | Wayne | Asgrow AG4301 | 65.38 |

III. 60 Bushel Club

| | <u>Name</u> | <u>County</u> | <u>Variety</u> | <u>Yield (Bu/A)</u> |
|-----|---------------------------|---------------|--------------------|---------------------|
| 1. | Dave Watson | Fleming | Asgrow A4604-ST5 | 84.26 |
| 2. | Billy & Roger Morris | Casey | So. States RT-3975 | 75.29 |
| 3. | Peterson Farms | Marion | Asgrow A4341 | 73.13 |
| 4. | Schwenke Brothers | Boone | Pioneer 93B84 | 72.87 |
| 5. | Joe Robert Buckman | Marion | Asgrow A4604-ST5 | 72.64 |
| 6. | Chad Elkins | Warren | Pioneer 94B01 | 71.93 |
| 7. | Randahl & Joe Stephen | Daviess | DeKalb CX450C | 68.96 |
| 8. | Hancock Brothers | Union | NK Brand 3474 | 68.40 |
| 9. | P.P.J. Thompson Farms | Daviess | Asgrow AG4702 | 68.25 |
| 10. | Dave Watson | Fleming | DeKalb CX405RR | 67.80 |
| 11. | Ebelhar Farms | McLean | Callahan 9454 | 67.76 |
| 12. | Land O'Nan Farms | Union | NK Brand S42-H1 | 67.51 |
| 13. | Brown's Ramsey Creek Farm | Union | NK Brand S43-B5 | 66.68 |
| 14. | J. David Miller | Hardin | Asgrow AG3701 | 66.17 |

60 Bushel Club (Cont'd)

| | | | | |
|-----|---------------------------|---------|------------------|-------|
| 15. | Castlen Brothers Farms | Daviess | Pioneer 94B01 | 65.92 |
| 16. | Brown's Ramsey Creek Farm | Union | Pioneer 94B53 | 65.84 |
| 17. | K & K Farms | Wayne | Asgrow AG4301 | 65.38 |
| 18. | Merrell Dolen & Gossage | Wayne | Pioneer 94B53 | 64.49 |
| 19. | Burns Farm | Daviess | Stine 4702 | 64.03 |
| 20. | Sexton Brothers & Cooley | Wayne | Asgrow AG4301 | 63.10 |
| 21. | Hancock Brothers | Union | LG 6422 | 62.98 |
| 22. | Dave Watson | Fleming | Asgrow A4604-STS | 62.39 |
| 23. | Land O'Nan Farms | Union | NK Brand S42-H1 | 61.53 |
| 24. | Goetz Brothers Farms | Daviess | Asgrow AG4702 | 60.22 |

IV. Agriculture Agent with Top 3 Entries

Michael Jackson - Fleming County - 71.48 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 24 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 | 36 (22)a,b,c |
| No | 5 (2) |
| No response | 0 |

What year was your soil last tested?

| | |
|------------------------|------------|
| 1996-1997 | 0 |
| 1998 | 3 (2)b |
| 1999 | 23 (16)a,c |
| 2000 | 5 (3) |
| No response or unknown | 10 (3) |

Germination of seed planted.

| | |
|-------------|----------|
| 90% or more | 18 (10)b |
| 85-89% | 5 (3)a |
| 80-84% | 2 (2) |
| < 80% | 0 |
| No response | 16 (9)c |

What was the pH of the soil?

| | |
|------------------------|-----------|
| Less than 5.5 | 2 (1) |
| 5.5 - 6.0 | 2 (1) |
| 6.1 - 6.5 | 17 (12)a |
| 6.6 + | 11 (8)b,c |
| No response or unknown | 9 (2) |

Did you inoculate your seed?

| | |
|-------------|--------------|
| Yes | 27 (15)a,b,c |
| No | 13 (9) |
| No response | 1 |

What rate of P₂O₅ and K₂O were applied?

| <u>Lbs/A</u> | <u>P₂O₅</u> | <u>K₂O</u> |
|--------------|-----------------------------------|-----------------------|
| 0 | 24 (11) | 24 (11)c |
| 1-40 | 7 (5) | 3 (1) |
| 41-80 | 6 (5)b,c | 8 (7)b |
| 81-120 | 4 (3)a | 3 (2)a |
| 120 + | 0 | 3 (3) |
| No response | 0 | 0 |

What was your planting date?

| | |
|-------------|------------|
| Late April | 1 |
| May 1-10 | 15 (13)a,b |
| May 11-20 | 20 (10)c |
| May 21-31 | 1 (1) |
| June 1-10 | 4 |
| June 11-20 | 0 |
| June 21 + | 0 |
| No response | 0 |

Was nitrogen applied?

| | |
|------------------------|------------|
| Yes | 9 (9)a,b,c |
| No | 32 (15) |
| No response or unknown | 0 |

What row width did you plant?

| | |
|-------------|-----------|
| Solid | 0 |
| 6-10" | 15 (9)a,c |
| 11-15" | 20 (12) |
| 16-20" | 4 (2)b |
| 21-29" | 2 (1) |
| 30" | 0 |
| 31-40" | 0 |
| No response | 0 |

What was your previous crop?

| | |
|-------------------------|--------------|
| Corn | 34 (22)a,b,c |
| Soybeans | 1 (1) |
| Grain Sorghum | 0 |
| None (Fallow) | 0 |
| Corn/Wheat Double-crop | 4 (1) |
| Corn/Barley Double-crop | 2 |
| Forage (Hay) | 0 |
| Corn/Wheat Cover crop | 0 |
| No response | 0 |

What was your planting rate?

| | |
|-------------|-----------|
| < 50 lbs. | 4 (1) |
| 50-60 lbs. | 13 (6) |
| 61-70 lbs. | 15 (8)b,c |
| 71-80 lbs. | 7 (7)a |
| 81-90 lbs. | 2 (2) |
| 90 + lbs. | 0 |
| No response | 0 |

What tillage system was used?

| | |
|--------------|------------|
| Conventional | 0 |
| Minimum-till | 17 (12)a,c |
| No-tillage | 23 (11)b |
| No response | 1 (1) |

What type of herbicide application did you use?

| | | |
|------------------------|----|---------|
| Preplant-incorp. (PPI) | 0 | |
| Preemergence (PRE) | 0 | |
| PPI + PRE | 0 | |
| PPI + Postemergence | 2 | (2) |
| PRE + Postemergence | 22 | (15)a,b |
| PPI + PRE + POST | 0 | |
| Postemergence (POE) | 17 | (7)c |
| None | 0 | |
| No Response | 0 | |

Did you use some form of cultivation for weed control?

| | | |
|-------------|----|-----------|
| Yes | 0 | |
| No | 41 | (24)a,b,c |
| No response | 0 | |

What were the main factors responsible for high yields?

| | | |
|----------------------|----|-------|
| Good weed control | 2 | (2) |
| High fertility level | 1 | (1) |
| Good productive soil | 6 | (5) |
| Good variety | 0 | |
| Good stand | 0 | |
| Good management | 1 | (1) |
| Narrow rows | 0 | |
| Good weather | 12 | (10)c |
| Early planting | 1 | (1)a |
| Crop rotation | 0 | |
| Irrigation | 0 | |
| No disease | 1 | (1) |
| No response | 24 | (10)b |

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

| | | |
|----------------------|----|-------|
| Dry weather | 0 | |
| Too much rain | 4 | (3) |
| Late harvest or loss | 0 | |
| Disease | 0 | |
| Poor weed control | 2 | (2)a |
| Fertility | 2 | (2) |
| Poor Stand | 1 | (1) |
| Late planting | 0 | |
| Lodging | 2 | (2)c |
| No response | 30 | (14)b |

Two most commonly used varieties.

| | | |
|------------------|---|-----|
| Asgrow AG4702 | 4 | (2) |
| Asgrow A4604-STS | 3 | (3) |

What herbicides were used?

| | | |
|--------------------------------------|----|-------|
| Assure II | 1 | |
| Backdraft | 1 | |
| Basagran + Classic + Fusion + Reflex | 1 | (1)c |
| Command | 1 | (1) |
| FirstRate | 2 | (2) |
| FirstRate + Pursuit | 2 | (1) |
| FirstRate + Cobra + Select | 2 | (2) |
| Fusilade | 2 | (1) |
| Fusilade + Synchrony STS | 1 | (1) |
| Fusion + Flexstar | 1 | |
| Fusion + Reflex | 2 | (2) |
| Fusion + Synchrony STS | 1 | |
| Gramoxone Extra | 2 | (1) |
| Pursuit | 2 | (2)a |
| Pursuit + Stellar | 1 | (1) |
| Reflex | 1 | (1) |
| Reflex + Assure II | 1 | |
| Roundup Ultra | 3 | (2)b |
| Roundup Ultra (POE) | 21 | (10)b |
| Roundup Ultra + Canopy | 2 | (1) |
| Roundup Ultra + Prowl | 3 | (3) |
| Roundup Ultra + Turbo | 1 | |
| Roundup Ultra + 2,4-D | 1 | |
| Squadron | 4 | (4)a |
| Steel | 2 | (1) |
| Touchdown + Boundary + 2,4-D | 1 | (1) |
| Turbo | 3 | (3) |

Summary of Other Entries

| <u>Name</u> | <u>County</u> | <u>Variety</u> | <u>Yield (Bu/A)</u> |
|-----------------------------------|---------------|--------------------|-------------------------|
| Frank Mitchell & Son | Daviess | Callahan 5510 | 58.33 |
| John Kuegel, Jr. | Daviess | Asgrow AG4702 | 56.80 |
| Bucky Walters | Daviess | Asgrow AG4702 | 57.59 |
| Burns Farms | Daviess | Stine 4702 | 56.52 |
| Burns Farms | Daviess | Stine 5102-4 | 52.22 |
| Thomas Rudd | Union | DeKalb CX433RR | 51.55 |
| Paul Austin | Hopkins | Asgrow AG3901 | 55.40 |
| Kerry Fox | Hopkins | DeKalb CX433RR | 53.80 |
| Kaye Richardson | Meade | Garst 484RR | 56.37 |
| Don Burton | Wayne | DeKalb CX405RR | 57.56 |
| Williams Brothers Farms | Wayne | Asgrow A4341 | 55.76 |
| Donald Dunagan | Wayne | So. States FFR-439 | 55.15 |
| Sexton Brothers & Virginia Denney | Wayne | Pioneer 9492 | 53.93 |
| Sexton Brothers & Cooley | Wayne | Pioneer 9492 | 51.71 |
| Ronnie Sexton | Wayne | DeKalb CX414cRR | 51.58 |
| Merrell Dolen & Roxie Gossage | Wayne | Hutchison | 53.68 |

Cooperating Agri-Business Companies and Associations

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BASF

Kentucky Soybean Assoc.

Callahan Seeds

LG Seeds

Caverndale Farms

Miles Farm Supply

Delta King Seed Co.

Monsanto Co.

Delta & Pine Land Co.

Monsanto Co. (Asgrow/DeKalb Brand Seed)

Dow AgroSciences

Pioneer Hi-Bred Int.

DuPont

Southern States Coop.

FMC Corp.

Syngenta

Garst Seeds

Syngenta (NK Brand Seed)

Kentucky Seed Improvement Assoc.