In Kentucky, farmers grow soybeans in two common soybean production systems: full season and double crop. Farmers plant full season soybeans in the spring and harvest them that fall, so they have harvested one crop in one calendar year. Farmers plant double crop soybeans after wheat harvest in June. These soybeans are harvested later that fall, making them the second crop harvested in the same calendar year. Both systems are important to the overall production of soybean in Kentucky. Therefore, in 1980, an annual soybean yield contest was initiated in Kentucky to document the agronomic practices utilized by producers.

In 2020, there were 12 possible yield awards. Four statewide yield awards were awarded for full season entries: First Place Irrigated; Second Place Irrigated; First Place Non-Irrigated; and Second Place Non-Irrigated. Four possible statewide yield awards were awarded for the same categories of the double crop entries and four awards were for the highest yielding entry of each of four districts (Figure 1).

Beginning in 2007, the contest expanded to include four awards for soybean quality: First Place Oil Concentration; Second Place Oil Concentration; First Place Protein Concentration; Second Place Protein Concentration. Protein and oil concentration of soybean are two important qualities that are considered worldwide by soybean purchasers. Therefore, documenting management practices that improve oil and protein concentration in Kentucky may result in increased value of Kentucky soybean.

**Determination of Yield Entries**

Any farmer who produced ten acres or more of soybean in Kentucky was eligible to enter the contest. Each contest field was at least ten continuous acres, with a minimum of three harvested acres. Field measurement and yield determination were determined by supervisor(s) that are approved by each county’s yield contest committee (typically the agricultural and natural resources county Extension agent). There were no restrictions on management practices.

A producer could enter more than one yield entry per category, if the entries were from different fields. A producer could only win one award per category (Full Season; Double Crop; Oil Concentration; Protein Concentration).

**Determination of Quality Entries**

Any yield contest entry was also eligible to be submitted to the Quality Contest. Contestants placed a one-pound seed sample from the harvested soybean into a plastic bag. Samples were then sent to the University of Minnesota Research Analytical Laboratory for analyses of oil and protein concentration.

**Overall Observations**

Growing Conditions

Average temperature across the entire state from April to October was fairly similar to the 30-year average except for April and May, which was about 3°F cooler than the 30-year average (Figure 2). The total precipitation, by month, was about 1 inch more than the 30-year average in May, June, and August and almost 2 inches more than the 30-year average in October (Figure 2).
For District 1, average temperature was similar to the 30-year average for June and September only (Figure 3). April and May were 4°F cooler, October was 2°F cooler, and August was 1°F cooler than the 30-year average (Figure 3). July was 2°F warmer than the 30-year average (Figure 3). Precipitation in District 1 was greater than the 30-year average throughout the growing season except in April (Figure 3).

For District 2, average temperature was less than the 30-year average for all months except July. Precipitation in District 2 was greater than the 30-year average for all months except April, August, and September, which were less than the 30-year average.

For District 3, average temperature was less than the 30-year average in April and May and was greater than average for the rest of the growing season. Precipitation was greater than the 30-year average in June, August, and October, and less than the 30-year average in April, May, and September.

For District 4, average temperature was less than the 30-year average April to June. July was 3°F warmer than the 30-year average and August, September, and October were 1°F warmer than average (Figure 3). Precipitation was greater than the 30-year average throughout the growing season.

**Yield Contest Entries**

In 2020, a total of 53 entries were submitted from 16 Kentucky counties (Table 1; Figure 4). Forty-seven entries were full season soybean, of which ten entries were irrigated (Table 2). There were six double crop entries; three of which were irrigated and three that were non-irrigated (Table 3).

The 2020 yield contest produced numerous contest records. First, it documented the greatest average yield of all full season entries (Table 1) since the contest began in 1980: 87.39 bushels per acre. Nine entries yielded more than 100 bushels per acre, which was the most 100+ bushel yields ever entered in the contest (Table 1). For the second year in a row, the State Champion for a full season entry documented a record low seeding rate (130,000 seeds per acre) for the winning entry. Another record was identified when examining only the state Yield Contest winners for full season soybean; the average yield was 102.16 bushels per acre (Table 5). Finally, for the first time in contest history one operation has won first place for both full season and double crop entries (Tables 4 and 5).

For the double crop entries, the average yield was 65.66 bushels per acre, with an average seeding rate of about 150,000 seeds per acre. Two of the entries were planted in mid-June and two in late-June (Table 5). The average double crop soybean yield for the 2020 entries ranks fourth greatest in the contest history. The greatest double crop soybean average occurred in 2017 with an average of 70.77 bushels per acre and was followed in 2016 and 2015 with 68.16 and 67.07 bushels per acre, respectively.

Of the remaining entries, four district winners were awarded, regardless of production system (Figure 1). All the district winners were full season soybean: three were planted in early April, and the final one was planted in early June. The average yield was 91.82 bushels per acre with an average seeding rate of about 130,000 seeds per acre (Table 6).

**Quality Entries**

In 2020, twenty-three entries were submitted to the Soybean Quality Contest (Figure 5). Nineteen entries were from full season soybean, and the remaining four entries were double crop soybean (Table 7).

All winning entries of the quality contest were full season soybean that were planted by late May. The winning entries for oil concentration had the greatest oil concentration ever documented in the contest history. The winning entry had an oil concentration of 26.71 percent while the second-place winner had 26.50 percent oil concentration. The previous record for oil concentration was documented in 2016 with 25.97 percent.

The winning entry for percent protein concentration was planted in early April at a seeding rate of 115,000 seeds per acre. It had 41.15 percent protein concentration (Table 8), which ranks third for greatest protein concentration documented in the contest. The greatest protein concentration documented was 41.73 percent in 2016, and last year the second greatest protein concentration (41.34%) was documented.
Figure 3. Average temperature and precipitation in 2020 and the 30-year average temperature and precipitation by district across Kentucky.
Figure 4. Number of soybean yield contest entries submitted in the 2020 Soybean Yield Production contest. Winning irrigated and non-irrigated entries were both submitted from Daviess County.

Figure 5. Counties and number of entries submitted to the 2020 Soybean Quality Contest.

Acknowledgements

The yield and quality contests are jointly sponsored by the University of Kentucky Cooperative Extension Service, the Kentucky Soybean Association with support from the Kentucky Soybean Promotion Board and participating agribusinesses related to soybean production. In 2020, the agribusinesses that supported the contests were AgriGold, Beck's, Channel Seed, DeKalb Asgrow, FMC, NK, Pioneer, and Stine.

Weather data were obtained from the University of Kentucky Ag Weather Center (http://weather.uky.edu/ky/data.php#KY_Climate_Data). Weather stations included for District 1 are Mayfield, Paducah, and Princeton; District 2 is Henderson; District 3 are Bowling Green and Glasgow; and District 4 are Bardstown, Berea, Buckhorn Lake, Campbellsville, Covington, Cumberland Gap, Dixon Dam, Grayson, Harbinsburg, Jackson, Lexington, London, Louisville, Nolin Lake, Quicksand, Somerset, Spindletop, and Williamstown.

Contact

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Table 1. The category, grower/farm, whether the entry was irrigated or not, the county, cultivar information and yield for each entry submitted to the 2020 Soybean Yield Contest.

<table>
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<tr>
<th>Entry</th>
<th>Category</th>
<th>Grower/Farm</th>
<th>Irrigation</th>
<th>County</th>
<th>Company</th>
<th>Brand/ Variety</th>
<th>Yield (bu/A)</th>
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Overall Contest Average 76.53
Full-Season (Division I) Average 87.39
Double-Crop (Division II) Average 65.66
Table 2. A summary of all production practices for the 47 full season yield contest entries.

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<th>Division I-Irrigated</th>
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<td>Nov 1-15</td>
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<tr>
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<td>None</td>
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<td>1</td>
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</tr>
<tr>
<td>7.5 lbs/A</td>
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<tr>
<td>12 lbs/A</td>
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</tr>
<tr>
<td>18 lbs/A</td>
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<td>27 lbs/A</td>
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<tr>
<td>60 lbs/A</td>
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<td>P₂O₅ Applied</td>
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<td>1 to 40 lbs/A</td>
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<td>41 to 80 lbs/A</td>
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<tr>
<td>81-120 lbs/A</td>
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<tr>
<td>&gt;120 lbs/A</td>
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<tr>
<td>Total K₂O (lbs/A)</td>
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<td>1</td>
<td>2</td>
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</tr>
<tr>
<td>41 to 80 lbs/A</td>
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<td>81-120 lbs/A</td>
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<tr>
<td>&gt;120 lbs/A</td>
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<td>Manure/Litter Applied</td>
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</tr>
<tr>
<td>2 tons chicken litter</td>
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</tr>
<tr>
<td>3 tons chicken litter</td>
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<td>2 tons swine compost</td>
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<tr>
<td>Previous Crop</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Corn</td>
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<td>3</td>
<td>5</td>
<td>2</td>
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<tr>
<td>Corn f.b. Cereal Rye Cover</td>
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<td>Crop</td>
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<td>Soybean</td>
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</tr>
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<td></td>
<td></td>
<td>1</td>
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Table 3. A summary of all production practices for the 6 double crop yield contest entries.

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<thead>
<tr>
<th>Production Practices</th>
<th>Division II Irrigated</th>
<th>Division II Non-Irrigated</th>
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<td>70 Bushel Club</td>
<td>Participants</td>
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<td>2</td>
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</tr>
<tr>
<td></td>
<td>Beck’s</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Pioneer</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Stine</td>
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</tr>
<tr>
<td>Herbicide Tolerance</td>
<td>Roundup Ready 2 Yield</td>
<td>1</td>
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<tr>
<td>Technology</td>
<td>DuPont STS</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Roundup Ready 2 Xtend</td>
<td>1</td>
</tr>
<tr>
<td>Seed Treatment</td>
<td>Apron Maxx, imidaclopid</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Escalate</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Saltro</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Product Not Stated</td>
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</tr>
<tr>
<td>In-Furrow Treatment</td>
<td>2.5 gal 3-18-18</td>
<td>1</td>
</tr>
<tr>
<td>Foliar Insecticide</td>
<td>Hero</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Lamcap</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Tombstone</td>
<td>1</td>
</tr>
<tr>
<td>Foliar Fungicide</td>
<td>Miravis Top</td>
<td>2</td>
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<tr>
<td>Herbicide</td>
<td>Post-Emergence Only</td>
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</tr>
<tr>
<td></td>
<td>Pre+Post Emergence</td>
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<td>Tillage</td>
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</tr>
<tr>
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<td>Tillage</td>
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</tr>
<tr>
<td>Seeds/A</td>
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</tr>
<tr>
<td></td>
<td>151,000 to 175,000</td>
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<tr>
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<td>176,000 to 200,000</td>
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<tr>
<td>Planting Date</td>
<td>June 11-20</td>
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</tr>
<tr>
<td></td>
<td>June 21-30</td>
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</tr>
<tr>
<td>Harvest Date</td>
<td>Oct 16-31</td>
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</tr>
<tr>
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<td>Nov 1-15</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Nov 15+</td>
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</tr>
<tr>
<td>Row Width</td>
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</tr>
<tr>
<td></td>
<td>15 inch</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>30 inch</td>
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</tr>
<tr>
<td>Irrigated</td>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
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<td>No</td>
<td>1</td>
</tr>
<tr>
<td>Nitrogen Applied</td>
<td>None</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>7.5 lbs/A</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>30 lbs/A</td>
<td>1</td>
</tr>
<tr>
<td>P2O5 Applied</td>
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<td>1</td>
</tr>
<tr>
<td></td>
<td>41 to 80 lbs/A</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>81-120 lbs/A</td>
<td>1</td>
</tr>
<tr>
<td>Total K2O (lbs/A)</td>
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</tr>
<tr>
<td></td>
<td>41 to 80 lbs/A</td>
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</tr>
<tr>
<td></td>
<td>81-120 lbs/A</td>
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<td>Other Fertilizer Applied</td>
<td>Branch Manager Foliar Feed</td>
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<td>Previous Crop</td>
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<td></td>
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Table 4. All agronomic practices utilized to produce the state Yield Contest winning entries for irrigated and non-irrigated full season soybean in Kentucky in 2020.

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<th>Production Practices</th>
<th>Full Season-Irrigated</th>
<th>Full Season-Non-Irrigated</th>
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<tr>
<td></td>
<td>First Place</td>
<td>Second Place</td>
</tr>
<tr>
<td>Grower/Farm</td>
<td>Ken-Maur Farms</td>
<td>Drew Langley</td>
</tr>
<tr>
<td>County</td>
<td>Daviess</td>
<td>Hardin</td>
</tr>
<tr>
<td>Company</td>
<td>AgriGold</td>
<td>Asgrow</td>
</tr>
<tr>
<td>Brand</td>
<td>G3722RX</td>
<td>AG43X0</td>
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<tr>
<td>Yield (bu/A)</td>
<td>106.51</td>
<td>95.53</td>
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<tr>
<td>Tillage</td>
<td>Conventional</td>
<td>No-Till</td>
</tr>
<tr>
<td>Soil Preparation</td>
<td>Spring Chisel and Disc</td>
<td>Turbo Till</td>
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<td>Seeds/A</td>
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<td>10/14/2020</td>
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<td>Corn</td>
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<td>Total N (lbs/A)</td>
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<td>27</td>
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<tr>
<td>Total P2O5 (lbs/A)</td>
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<td>45</td>
</tr>
<tr>
<td>Total K2O (lbs/A)</td>
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<td>45</td>
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<td>Apron Maxx</td>
<td>AgriShield Max</td>
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<td>In-Furrow Treatment</td>
<td>EnzUp</td>
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<td>Lambda T-2</td>
<td>Hero</td>
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<tr>
<td>Foliar Fungicide</td>
<td>Priaxor, propiconazole</td>
<td>Revytek</td>
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<td>Herbicide Pre-Emergence</td>
<td>Anthem Maxx, Ringside</td>
<td>Authority XL, Roundup</td>
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<tr>
<td>Herbicide Post-Emergence</td>
<td>clethodim, Zidua</td>
<td>Roundup</td>
</tr>
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<td>Herbicide Tolerance Technology</td>
<td>Roundup Ready 2 Xtend, DuPont STS</td>
<td>Roundup Ready 2 Xtend</td>
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Table 5. All agronomic practices utilized to produce the state Yield Contest winning entries for irrigated and non-irrigated double crop soybean in Kentucky in 2020.

<table>
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<th>Double Crop-Irrigated</th>
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<tr>
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<td>First Place</td>
<td>Second Place</td>
</tr>
<tr>
<td>Grower/Farm</td>
<td>Folz Farms</td>
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<td>County</td>
<td>Christian</td>
<td>Logan</td>
</tr>
<tr>
<td>Company</td>
<td>Beck’s</td>
<td>Beck’s</td>
</tr>
<tr>
<td>Brand</td>
<td>4991X2</td>
<td>BCS4601XF20</td>
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<td>Yield (bu/A)</td>
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<td>No-Till</td>
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<td>Soil Preparation</td>
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</tr>
<tr>
<td>Previous Crop</td>
<td>Wheat</td>
<td>Wheat</td>
</tr>
<tr>
<td>Total N (lbs/A)</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Total P&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;5&lt;/sub&gt; (lbs/A)</td>
<td>90</td>
<td>45</td>
</tr>
<tr>
<td>Total K&lt;sub&gt;2&lt;/sub&gt;O (lbs/A)</td>
<td>90</td>
<td>45</td>
</tr>
<tr>
<td>Total Other (lbs/A)</td>
<td>Sulfur 10#, Zinc 1#</td>
<td></td>
</tr>
<tr>
<td>Seed Treatment</td>
<td>Escalate</td>
<td>Saltro</td>
</tr>
<tr>
<td>In-Furrow Treatment</td>
<td></td>
<td>2.5 gal 3-18-18</td>
</tr>
<tr>
<td>Foliar Insecticide</td>
<td>Lamcap</td>
<td>Lamcap</td>
</tr>
<tr>
<td>Foliar Fungicide</td>
<td>Priaxor, propiconazole</td>
<td>Miravis Top</td>
</tr>
<tr>
<td>Herbicide Pre-Emergence</td>
<td>Roundup, Zidua PRO</td>
<td></td>
</tr>
<tr>
<td>Herbicide Post-Emergence</td>
<td>Zidua, Buccaneer</td>
<td>Liberty, Roundup</td>
</tr>
<tr>
<td>Herbicide Tolerance Technology</td>
<td>Roundup Ready 2 Xtend</td>
<td>Roundup Ready 2 Yield</td>
</tr>
</tbody>
</table>
Table 6. All agronomic practices utilized to produce the district Yield Contest winning entries in Kentucky in 2020.

<table>
<thead>
<tr>
<th>Production Practices</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grower/Farm</td>
<td>Hancock Family Farms</td>
<td>Knott Farms</td>
<td>Rice Farms</td>
<td>Schwenke Brothers Farms</td>
</tr>
<tr>
<td>County</td>
<td>Fulton</td>
<td>Daviess</td>
<td>Rice Farms</td>
<td>Schwenke Brothers Farms</td>
</tr>
<tr>
<td>Company</td>
<td>Asgrow</td>
<td>AgriGold</td>
<td>AgriGold</td>
<td>Pioneer</td>
</tr>
<tr>
<td>Brand</td>
<td>AG48X9</td>
<td>G3520RX</td>
<td>G2900RX</td>
<td>P38A49L</td>
</tr>
<tr>
<td>Yield (bu/A)</td>
<td>86.56</td>
<td>101.90</td>
<td>88.73</td>
<td>90.10</td>
</tr>
<tr>
<td>Division</td>
<td>Full Season</td>
<td>Full Season</td>
<td>Full Season</td>
<td>Full Season</td>
</tr>
<tr>
<td>Tillage</td>
<td>No-Till</td>
<td>Conventional</td>
<td>No-Till</td>
<td>Minimal Till</td>
</tr>
<tr>
<td>Row Width (in.)</td>
<td>30</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Seeds/A</td>
<td>120,000</td>
<td>115,000</td>
<td>140,000</td>
<td>140,000</td>
</tr>
<tr>
<td>Irrigated</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Harvest Date</td>
<td>10/5/2020</td>
<td>9/17/2020</td>
<td>9/17/2020</td>
<td>10/13/2020</td>
</tr>
<tr>
<td>Previous Crop</td>
<td>Soybeans</td>
<td>Corn</td>
<td>Corn</td>
<td>Corn</td>
</tr>
<tr>
<td>Total N (lbs/A)</td>
<td>18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total P2O5 (lbs/A)</td>
<td>46</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total K2O (lbs/A)</td>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seed Treatment</td>
<td>Acceleron</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foliar Insecticide</td>
<td>Hero</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foliar Fungicide</td>
<td>Lucento</td>
<td>Priaxor</td>
<td>Miravis Top</td>
<td>Revytek</td>
</tr>
<tr>
<td>Herbicide Pre-Emergence</td>
<td>Dual</td>
<td>Roundup, Dicamba</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbicide Post-Emergence</td>
<td>Xtend, Anthem Maxx</td>
<td>Roundup, Reflex, Zidua</td>
<td>Tavium, glyphosate</td>
<td>Liberty</td>
</tr>
<tr>
<td>Herbicide Tolerance Technology</td>
<td>Roundup Ready 2 Xtend</td>
<td>Roundup Ready 2 Xtend</td>
<td>Roundup Ready 2 Xtend</td>
<td>Liberty Link</td>
</tr>
</tbody>
</table>

Table 7. The category, grower/farm, whether the entry was irrigated or not, county, cultivar information and percent oil and protein concentration for each entry submitted to the 2020 Soybean Quality Contest.

<table>
<thead>
<tr>
<th>Entry</th>
<th>Category</th>
<th>Grower/Farm</th>
<th>County</th>
<th>Company</th>
<th>Brand/ Variety</th>
<th>Oil</th>
<th>Protein</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Full Season</td>
<td>Rice Farms</td>
<td>Butler</td>
<td>AgriGold</td>
<td>G2900RX</td>
<td>25.40</td>
<td>36.93</td>
</tr>
<tr>
<td>2.</td>
<td>Full Season</td>
<td>P PJ Thompson Farms</td>
<td>Daviess</td>
<td>Stewart</td>
<td>4228R2X</td>
<td>23.55</td>
<td>38.25</td>
</tr>
<tr>
<td>3.</td>
<td>Full Season</td>
<td>P PJ Thompson Farms</td>
<td>Daviess</td>
<td>Pioneer</td>
<td>39A58X</td>
<td>23.31</td>
<td>37.08</td>
</tr>
<tr>
<td>4.</td>
<td>Full Season</td>
<td>Ken-Maur Farms</td>
<td>Daviess</td>
<td>AgriGold</td>
<td>G3722RX</td>
<td>25.36</td>
<td>37.58</td>
</tr>
<tr>
<td>5.</td>
<td>Full Season</td>
<td>Goetz Brothers Farm</td>
<td>Daviess</td>
<td>Asgrow</td>
<td>AG36X6</td>
<td>25.88</td>
<td>37.88</td>
</tr>
<tr>
<td>6.</td>
<td>Full Season</td>
<td>Goetz Brothers Farm</td>
<td>Daviess</td>
<td>AgriGold</td>
<td>G3520RX</td>
<td>25.47</td>
<td>39.30</td>
</tr>
<tr>
<td>7.</td>
<td>Full Season</td>
<td>Knott Farms</td>
<td>Daviess</td>
<td>AgriGold</td>
<td>G3722RX</td>
<td>24.08</td>
<td>40.52</td>
</tr>
<tr>
<td>8.</td>
<td>Full Season</td>
<td>Knott Farms</td>
<td>Daviess</td>
<td>AgriGold</td>
<td>G3520RX</td>
<td>24.91</td>
<td>41.15</td>
</tr>
<tr>
<td>9.</td>
<td>Full Season</td>
<td>Tim and Jesse Horn</td>
<td>Daviess</td>
<td>Beck’s</td>
<td>3789X2</td>
<td>23.57</td>
<td>38.71</td>
</tr>
<tr>
<td>10.</td>
<td>Full Season</td>
<td>Fischer CrossCreek Farms</td>
<td>Daviess</td>
<td>Pioneer</td>
<td>P36A83X</td>
<td>24.29</td>
<td>36.66</td>
</tr>
<tr>
<td>11.</td>
<td>Full Season</td>
<td>Flatlick Grain Farms</td>
<td>Daviess</td>
<td>DynaGro</td>
<td>S48X56</td>
<td>23.37</td>
<td>39.21</td>
</tr>
<tr>
<td>12.</td>
<td>Full Season</td>
<td>James Sexton</td>
<td>Wayne</td>
<td>LG Seeds</td>
<td>C2888RX</td>
<td>25.14</td>
<td>38.02</td>
</tr>
<tr>
<td>13.</td>
<td>Full Season</td>
<td>James Sexton</td>
<td>Wayne</td>
<td>LG Seeds</td>
<td>C4845RX</td>
<td>25.30</td>
<td>38.06</td>
</tr>
<tr>
<td>14.</td>
<td>Full Season</td>
<td>Josh Simpson</td>
<td>Wayne</td>
<td>Beck’s</td>
<td>4991X2</td>
<td>24.59</td>
<td>38.98</td>
</tr>
<tr>
<td>15.</td>
<td>Full Season</td>
<td>Josh Simpson</td>
<td>Wayne</td>
<td>Beck’s</td>
<td>4669X2</td>
<td>22.84</td>
<td>40.64</td>
</tr>
<tr>
<td>16.</td>
<td>Full Season</td>
<td>Thomas Kelsay</td>
<td>Wayne</td>
<td>Beck’s</td>
<td>4664F</td>
<td>23.72</td>
<td>36.55</td>
</tr>
<tr>
<td>17.</td>
<td>Full Season</td>
<td>S&amp;P Farms</td>
<td>Union</td>
<td>DynaGro</td>
<td>S3305N</td>
<td>26.50</td>
<td>38.32</td>
</tr>
<tr>
<td>18.</td>
<td>Full Season</td>
<td>CKC Farms</td>
<td>Green</td>
<td>Pioneer</td>
<td>P42A96X</td>
<td>26.71</td>
<td>37.84</td>
</tr>
<tr>
<td>19.</td>
<td>Full Season</td>
<td>Petrie Farms</td>
<td>Muhlenberg</td>
<td>Pioneer</td>
<td>P48A60X</td>
<td>25.24</td>
<td>38.68</td>
</tr>
<tr>
<td>20.</td>
<td>Double Crop</td>
<td>Goetz Brothers Farm</td>
<td>Daviess</td>
<td>Asgrow</td>
<td>42X9</td>
<td>23.97</td>
<td>39.66</td>
</tr>
<tr>
<td>21.</td>
<td>Double Crop</td>
<td>Foltz Farms</td>
<td>Christian</td>
<td>Beck’s</td>
<td>4991X2</td>
<td>23.15</td>
<td>38.04</td>
</tr>
<tr>
<td>22.</td>
<td>Double Crop</td>
<td>Foltz Farms</td>
<td>Christian</td>
<td>Beck’s</td>
<td>4991X2</td>
<td>24.28</td>
<td>38.25</td>
</tr>
<tr>
<td>23.</td>
<td>Double Crop</td>
<td>Armistead Farms</td>
<td>Logan</td>
<td>Beck’s</td>
<td>BC54601XF20</td>
<td>23.18</td>
<td>38.29</td>
</tr>
</tbody>
</table>

Average of Entries 24.45 38.38
Full Season Average 24.62 38.34
Double Crop Average 23.65 38.56
Table 8. Agronomic practices utilized to produce the state Quality Contest winning entries in Kentucky in 2020.

<table>
<thead>
<tr>
<th>Production Practices</th>
<th>Oil</th>
<th>Protein</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Place</td>
<td>2nd Place</td>
</tr>
<tr>
<td>Grower/Farm</td>
<td>CKC Farms</td>
<td>S&amp;P Farms</td>
</tr>
<tr>
<td>County</td>
<td>Green</td>
<td>Union</td>
</tr>
<tr>
<td>Company</td>
<td>Pioneer</td>
<td>DynaGro</td>
</tr>
<tr>
<td>Brand/Variety</td>
<td>P42A96X</td>
<td>S3305N</td>
</tr>
<tr>
<td>Oil (%)</td>
<td>26.71</td>
<td>26.50</td>
</tr>
<tr>
<td>Protein (%)</td>
<td>37.84</td>
<td>38.32</td>
</tr>
<tr>
<td>Yield (bu/A)</td>
<td>72.81</td>
<td>84.39</td>
</tr>
<tr>
<td>Division</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Tillage</td>
<td>No-Till</td>
<td>Minimal Till</td>
</tr>
<tr>
<td>Soil Preparation</td>
<td>Fall Minimum Till</td>
<td>Spring Coulter Disc</td>
</tr>
<tr>
<td>Planting Date</td>
<td>5/16/2020</td>
<td>4/24/2020</td>
</tr>
<tr>
<td>Row Width (in.)</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Seeds/A</td>
<td>140,000</td>
<td>140,000</td>
</tr>
<tr>
<td>Irrigated</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Previous Crop</td>
<td>Soybean</td>
<td>Corn, Cereal Rye Cover Crop</td>
</tr>
<tr>
<td>Total N (lbs/A)</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Total P&lt;sub&gt;2&lt;/sub&gt;O&lt;sub&gt;5&lt;/sub&gt; (lbs/A)</td>
<td>160</td>
<td>85</td>
</tr>
<tr>
<td>Total K&lt;sub&gt;2&lt;/sub&gt;O (lbs/A)</td>
<td>176</td>
<td>65</td>
</tr>
<tr>
<td>Total Manure (lbs/A)</td>
<td>2 tons chicken litter</td>
<td></td>
</tr>
<tr>
<td>Seed Treatment</td>
<td>Equity VIP</td>
<td></td>
</tr>
<tr>
<td>Seed Inoculant</td>
<td>Dyna-Start PBC</td>
<td></td>
</tr>
<tr>
<td>In-Furrow Treatment</td>
<td>Priaxor (2 oz), Radiate (3 oz)</td>
<td></td>
</tr>
<tr>
<td>Foliar Insecticide</td>
<td>Tombstone (2 oz)</td>
<td>Priaxor</td>
</tr>
<tr>
<td>Foliar Fungicide</td>
<td>Priaxor (4 oz)</td>
<td>Roundup, Dicamba</td>
</tr>
<tr>
<td>Herbicide Pre-Emergence</td>
<td>Matador-S (2.25 pt), Roundup (1 qt)</td>
<td></td>
</tr>
<tr>
<td>Herbicide Post-Emergence</td>
<td>Roundup</td>
<td>Anthem Maxx (3.2 oz), Classic (.33 oz)</td>
</tr>
<tr>
<td>Herbicide Tolerance Technology</td>
<td>Roundup Ready 2 Xtend</td>
<td>None</td>
</tr>
</tbody>
</table>