Harvested Acres

To qualify for competition, a contestant must enter at least 10 contiguous acres and harvest, under supervision, a minimum of 1.5 acres from the same field designated as the contest field on the entry form (Please check acreage calculations closely. 1.4999 acres WILL NOT BE ACCEPTED). Each plot's harvest report will be limited to a single harvest per year.

Harvest: Requires **one** qualified contiguous supervisor from the list of supervisors shown below. If the resulting yield is 250.000 bushels or more, see instruc-tions for Harvest Re-check. The entrant must harvest at least 1.5 continuous acres in order to complete the initial check. If the resulting yield of the contest plot is 249.9999 bushels per acre or less, the harvest is complete. If a recheck is required, the unharvested sorghum will be used for the recheck process.

Supervisor

A qualified supervisor (from the following list) must be present during harvest.

Supervisors MUST be from the following list:
*   FFA Advisers
*   Vocational Agricultural Instructors
*   County Extension Agents or Assistants
*   NRCS Employees
*   FSA CED/Loan Managers/Officers
*   SWCD Employees
*   College of Agriculture Instructors
*   American Society of Farm Managers /Accredited Farm Manager
*   Crop Insurance Agents/Adjustors (not contestant's agent or adjustor)
*   Farm Credit Services Officers (not contestant's service officer)
*   Bank Ag Loan Officers (not contestant's loan officer)

Supervisors from the following list will NOT be accepted and the entry will be disqualified:
*   Private crop consultants or agronomists
*   Anyone who has a financial or direct business tie to a company which sells agribusiness supplies (i.e. seed or chemical representatives, farm equipment salesmen, etc.)
*   Employees/relatives of the contestant
*   The contestant himself/herself
*   Producers serving on boards of NSP, USCP or state sorghum producers boards affiliated with NSP

Responsibilities of Supervisor:
•   Must be present during the entire harvest of the contest plot
•   Make all field measurements and computations (see Field Measurements below)
•   Verify all combines, trucks, etc. are empty at the start of the harvest.
•   Verify the date of harvest
•   Verify and report location of the contest field
•   Oversee the weighing process, INCLUDING LOADING AND UNLOADING, and moisture testing (see Weighing, Moisture Testing below)
•   Calculate yield (see Calculating Yield below)
•   Complete and sign the Harvest Report

Field Measurements

All measurements should be made with a steel or fiberglass tape or measuring wheel. Show all calculations on the Harvest Report Form. Calculate the harvested area in acres carried to four decimal places using one of the following options.

Option A: If the harvested area is square or rectangular, the harvested area may be calculated: Length times width divided by 43,560 (sq. ft. in one acre) equals acres harvested.

Example

An area 275 ft. by 275 ft. would be calculated: 275 ft. X 275 ft. = 75,625 sq. ft. divided by 43,560 = 1.7361 acres harvested.

Option B: Measurements from Global Positioning Systems (GPS) will be accepted if accompanied by a printed map of field with acreage noted.

Option C: If the harvested area is irregular in shape, the measurements may be calculated: Total length of all rows harvested times the average row width divided by 43,560 (sq. ft. in one acre) equals acres harvested.

To find total length of all rows: Measure down the center of each set or rows harvested in one pass through the field and use that measurement as the average row length for that set. Multiply the average row length for the set by the number of rows in the set. Add the total of each set to find the total length of all rows.

Example
Set 1. Average length of rows in set: 860 ft. X number of rows in set: 8 = 6,880 ft.
Set 2. Average length of rows in set: 860 ft. X number of rows in set: 8 = 6,880 ft.
Set 3. Average length of rows in set: 870 ft. X number of rows in set: 8 = 6,960 ft.
Set 4. Average length of rows in set: 890 ft. X number of rows in set: 8 = 7,120 ft.
Total length of all rows: 27,840 ft.

To find average row width: At three random places measure across 24 spaces, between 25 rows. To find the average row width in feet, add the three measurements and divide by 72. Record in feet to four decimal places. Example: 59 ft. 10 in. = 59.8333 ft.

Example
Measurement 1: 24 spaces @ 59 ft. 10 in. = 59.8333 ft.
Measurement 2: 24 spaces @ 60 ft.   0 in. = 60.0000 ft.
Measurement 3: 24 spaces @ 59 ft.   9 in. = 59.7500 ft.
179.5833 ft. / 72 spaces   =   2.4942 ft.

To find acres harvested: Total of all rows harvested times average row width divided by 43,560 (sq. ft. in 1 acre) = acres harvested.

Example
27,840 ft .(length of all rows) X 2.4942 ft (average row width) = 69,438.5280 sq. ft. / 43,560 = 1.5941 acres harvested.

Weighing

All weighing must be made on a state inspected scale. A weight ticket must be obtained and attached to the Harvest Report Form. The weight ticket should show the name of the company (scale), the date, the load's gross weight (determined first) empty or tare weight on the same date (determined after the gross weight).   If time and date of weighing are not automatically stamped on weight ticket(s), supervisors must note both and initial on weight ticket(s).

Moisture Testing

An experienced person must make a moisture determination of a representative sample of sorghum on a state approved moisture tester. It is best to have the sample run through the meter 3 times and to average the 3 tests. The moisture test must be shown on the weight ticket.

Calculating Yields

Determine the number of bushels of sorghum harvested, corrected to 14% moisture, then divide by the acres harvested to get bushels per acre. Yields should be reported in bushels carried to two decimal places. To calculate bushels harvested, corrected to 14% moisture:
1. Subtract actual moisture test from 100% to get percentage of dry, 0% moisture sorghum.
2. Multiply pounds of sorghum harvested by percentage of dry sorghum to get the dry weight of sorghum harvested and divide by 48.16 (lbs. of dry sorghum in one bushel of 14% moisture sorghum), to get bushels corrected to 14% moisture.
3. Divide bushels at 14% moisture by acres harvested to get bushels per acre.

Example
A yield of 26,739.14 lbs. of sorghum at 18.5% moisture from 1.5941 acres would be calculated:
1. 100% - 18.5% = 81.5% (.815) dry sorghum
2. 26,739.14 X .815 = 21,792.40 lbs. dry weight sorghum / 48.16 = 452.50 bu. sorghum corrected to 14% moisture
3. 452.50 bushels/1.594 acres = 283.86 bushels per acre

Reporting

Harvest Report forms must be completed and signed by the approved supervisor. **Harvest Reports, an aerial map, and weight tickets must be in the NSP office by Nov. 25, 2022.** Harvest information arriving after close of business on Nov. 25, 2022, will not be eligible for competition. NSP is not responsible for contest reports lost in the mail. Reports may be mailed by certified mail to ensure delivery, emailed to yieldcontest@sorghumgrowers.com, or faxed to 806-749-9002.

Mail reports to:
National Sorghum Producers
4201 N Interstate 27
Lubbock, Texas 79403
(806) 749-3478
yieldcontest@sorghumgrowers.com