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grain sorghum grain sorghum grain sorghum grain sorghum

Performance Trials

Plant Science Department Agricultural Experiment Station South Dakota State University, Brookings

| Table No. | Subject | Page No. |
|-----------|------------------------------------|--------------|
| 800 T 4 | | - 200 Mar. 1 |
| 1 | Location of Trials | 4 |
| 2 | Trial site, soil type and analysis | 4 |
| 3 | Climatological data | 5 |
| 4 | Area D3, Brookings | 8 |
| 5 | Area E, Beresford | 9 |
| 6 | Brookings averages | 10 |
| 7 | Beresford averages | 10 |
| 8 | Area B3, Presho | 11 |
| 9 | Presho averages | 12 |
| 10 | Area Cl, irrigated, Redfield | 13 |
| 11 | Area B2, Highmore | 14 |
| 12 | Redfield averages | 15 |
| 13 | Highmore averages | 15 |
| 14 | Area C2, Geddes | 16 |
| 15 | Geddes averages | 17 |
| 16 | Area D2, Garden City | 18 |
| 17 | Garden City averages | 18 |
| 18 | Listing of entries by Company | 19 |

Listing of Tables

CROP ADAPTATION AREAS



1972 Grain Sorghum Performance Trials

J. J. Bonnemann, Assistant Professor

Plant Science Department Agricultural Experiment Station South Dakota State University Brookings, South Dakota 57006

The relative performance of grain sorghum hybrids grown under similar environmental conditions are evaluated in this report for the 1972 season. Performance records of the hybrids harvested in 1972 and available two-, three-, four-, and five-year averages are presented. The trials reported were under the supervision of the Crop Performance Testing Activity, Agricultural Experiment Station, South Dakota State University, Brookings.

Location of the 1972 Trials

To adequately evaluate performance ability of the various entries they must be grown under similar environmental conditions. Crop adaptation areas in which the trials are conducted are based upon soil type, elevation, temperature, rainfall and other physical differences. The exact location of the trials and dates of seeding and harvesting are included in Table 1. Data from soil samples taken at the various sites at time of seeding and the fertilizer applied are in Table 2.

Weather and Climatic Conditions

Climatic data for the 1972 grain sorghum year, May-October, are based on Monthly Climatological Data and from reports of the substation personnel at Garden City and Presho (see Table 3). Weather information from the immediate Geddes site is not available so data from the nearest reporting station, Armour, are given. Precipitation amounts were equal to or above record totals for May. Seeding was delayed at several locations until early June. At those locations where seeding was done at the normal times, the crop progressed at nearly normal rates and excellent yields were harvested. When seeding was delayed the yields were down and quality was very poor, as at Brookings.

The excessive precipitation early in the season and below normal temperature throughout the entire season at many locations created several serious problems. Greenbug infestations were very serious in the major production areas necessitating widespread spraying for control. Heading and pollination were 10-14 days later than normal. The crops that were already late in filling and maturing escaped a

The assistance of the following individuals is acknowledged: A. O. Lunden, H. A. Geise and Q. S. Kingsley of the Plant Science Department; Substation Supervisors Lloyd Dye, Jake Fredrikson, Burton Lawrensen, Don Nelson, Herb Lund, Mike Volek and Ray Ward; and, farmer-cooperator William Fijala.

| | | Date | Date | Row |
|-------------|---------------------------------------|--------|------------|---------|
| County | Location and post office | Seeded | Harvested | Spacing |
| | | | | |
| | | | | Inches |
| Brookings | Agronomy Farm, Brookings | June 7 | October 9 | 30 |
| Charles Mix | William Fijala Farm, Geddes | May 19 | October 3 | 40 |
| Clark | West Prairie Coteau Farm, Garden City | June 3 | October 5 | 36 |
| Clay | Southeast Experiment Farm, Beresford | May 22 | October 4 | 30 |
| Hyde | Central Substation, Highmore | May 23 | October 2 | 36 |
| Lyman | South Dentral Research Farm, Presho | May 22 | October 3 | 36 |
| Spink | Redfield Development Farm, Redfield | June 2 | October 10 | 21 |

Table 1. THE LOCATION OF TRIALS AND DATES OF SEEDING AND HARVESTING OF GRAIN SORGHUM PERFORMANCE TRIALS, SOUTH DAKOTA, 1972

killing frost until mid-October. The mid-October freeze was accompanied by snow. The harvest was further delayed by heavy snow and rainfall into late November. Much of the grain sorghum harvested, while mature, was high in moisture as foggy or overcast days were common until late November and inhibited natural drying.

The trials were seeded from May 19 through June 7. Soil moisture at seeding was not limited; often it was excessive and kept soil temperatures lower than desired for rapid germination and growth. Seed beds were generally in good condition at seeding. The lateness of seeding, lower than normal temperatures throughout most of the season and delayed heading found grain moisture quite high in some trials at time of normal first fall frost.

Hybrid Entry Procedure

Grain sorghums offered for sale in South Dakota or being produced for distribution in 1973 were eligible for entry. A closed-pedigree hybrid was entered by the permanent name and number under which it was sold by the parent company only. All entries maintained minimum laboratory germination of 80% as required by South Dakota Certification Standards. A nominal fee was charged for each entry in each area except grain sorghum hybrids developed by State and Federal Experiment Stations and entered by the South Dakota Agricultural Experiment Station.

| | | Lab | orator | ry analy | ysis | Fertilia | er app | olied | 100 |
|-----------------|----------------|--------------|--------|----------|------|-------------|-------------|-------|-----|
| County | Soil | Org. mat. | Р | К | | | N | Р | ĸ |
| and area | classification | % | 1b: | s/A | рН | Method | 1 | bs/A | _ |
| Brookings, D3 | Vienna L | 3.5 | 16 | 197 | 6.9 | disced in | 20 | 18 | 20 |
| Charles Mix, C2 | Highmore SiCl | 3.3 | 16 | 682 | 7.4 | disced in | 75 | 0 | 0 |
| Clark, D2 | Forman SiCl | 3.6 | 21 | 281 | 6.6 | plowed down | n 60 | 18 | 0 |
| Clay, E | Egan SiCl | 3.3 | 30 | 533 | 7.0 | plowed down | 15 0 | 20 | 25 |
| Hyde, B2 | Java L | 2.2 | 89 | 547 | 6.0 | disced in | 42 | 21 | 0 |
| Lyman, B3 | Promise C | 3.2 | 35 | 682 | 7.5 | disced in | 40 | 15 | 0 |
| Spink, Cl | Boetia SiCl | 3.6 | 65 | 682 | 7.0 | disced in | 120 | 20 | 0 |

TABLE 2. SOIL CLASSIFICATION, LABORATORY ANALYSIS OF SOIL SAMPLES TAKEN PRIOR TO SEEDING AND FERTILIZER APPLIED FOR THE 1972 CROP YEAR

| | | Tempe | Temperature, degrees F. | | Prec | Precipitation, inches | | |
|--------------|------------|----------|-------------------------|--------|---------|-----------------------|--------|--|
| | | | Depar- | | | Depar- | | |
| | | | ture | Av. | | ture | Total | |
| | | Mean | from | Depar- | Month | from | Depar- | |
| Location | Month | Av. | normal | ture | total | normal | ture | |
| | | | | | | | | |
| Armour* | May | 60.2 | -0.3 | | 7.08 | 4.28 | | |
| | June | 68.7 | -1.8 | | 5.01 | 1.08 | | |
| | July | 72.0 | -5.6 | | 4.64 | 2.57 | | |
| | Aug. | 72.3 | -3.3 | | 2.91 | 0.02 | | |
| | Sept. | 62.3 | -3.2 | | 0.73 | -1.21 | | |
| | Oct. | 47.6 | -5.3 | -3.2 | 1.67 | 0.44 | 7.18 | |
| | Las | t freeze | April 25 | | 22.04 | | | |
| | | | | | | <i></i> | | |
| Brookings* | May | 57.5 | -0.1 | | 9.27 | 6.48 | | |
| 2 NE | June | 64.7 | -2.4 | | 2.61 | -1.34 | | |
| | July | 67.2 | -6.0 | | 5.75 | 3.60 | | |
| | Aug. | 67.7 | -3.5 | | 1.75 | -1.22 | | |
| | Sept. | 56.6 | -4.7 | | 2.02 | -0.01 | | |
| | Oct. | 42.4 | -7.1 | -3.9 | 1.87 | 0.65 | 8.16 | |
| | Las | t freeze | May 7 | | 23.27 | | | |
| | | 50 (| | | 7 64 | | | |
| Centerville* | May | 59.6 | | | 7.54 | | | |
| 6 SE | June | 69.0 | | | 2.46 | | | |
| | July | 69.3 | | | 5.35 | | | |
| | Aug. | 71.6 | | | 2.06 | | | |
| | Sept. | 60.0 | | | 2.19 | | | |
| | Oct. | 47.0 | | | 1.58 | | | |
| | Las | t freeze | April 15 | | 21.18 | | | |
| Conden Citer | | 55 2 | | | (00 | | | |
| Garden CILy | May | 55.5 | | | 0.99 | | | |
| | June | 63.8 | | | 1.16 | | | |
| | July | 64./ | | | 5.08 | | | |
| | Aug. | 65.0 | | | 1.56 | | | |
| | Sept. | 55.1 | | | 0.32 | | | |
| | Oct. | 41.1 | | | 1.63 | | | |
| | Las | t freeze | May 5 | | 16.74 | | | |
| Highmoret | May | 50 2 | 2 0 | | 5 03 | 3 60 | | |
| 1 11 | Turne | 69 0 | 2.0 | | 1.06 | 1 50 | | |
| TW | June | 00.0 | 1.2 | | 1.90 | -1.50 | | |
| | July | 70.6 | -3.9 | | 4.65 | 2.0/ | | |
| | Aug. | 72.4 | -0.4 | | 1.03 | -1.01 | | |
| | Sept. | 63.5 | -0.9 | | Т | -1.31 | | |
| | Oct. | 46.8 | -3.2 | -0.9 | 1.83 | 0.68 | 3.05 | |
| | La | st freez | e May 7 | | 15.40 | | | |
| Redfield* | May | 59.6 | | | 10 24 | | | |
| 6F | Tune | 66.8 | | | 1 17 | | | |
| | Jule Inter | 70.0 | | | 5 02 | | | |
| | Aug | 70.0 | | | 5.05 | | | |
| | Aug. | /2.1 | | | 0.06 | | | |
| | Sept. | M | | | 0.09 | | | |
| | UCE. | 42.3 | o May 7 | | 17 09 | | | |
| | La | St HEEZ | e riay / | | 17.07 | | | |
| Presho | May | 59.2 | 0.3 | | 3.15 | 0.77 | | |
| 11 S | June | 66.6 | -2.1 | | 3.23 | 0.12 | | |
| | July | 71.9 | -4.9 | | 2.00 | 0.34 | | |
| | Aug. | 72.4 | -2.6 | | 0,89 | -1.19 | | |
| | Sent | 64.2 | -0.3 | | 0 11 | -1 34 | | |
| | Oct | 46 7 | -4 7 | -2 4 | 0 97 | _0 01 | -1 31 | |
| | 1 | st free? | e May 4 | 2.7 | 10 35 | 0.01 | 1.51 | |
| | La | St HEEZ | c hay 4 | | TO . 22 | | | |

TABLE 3. TEMPERATURE AND PRECIPITATION DATA FOR THE 1972 GRAIN SORGHUM GROWING SEASON IN SOUTH DAKOTA

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*Based upon reports of Monthly Climatological Data, NOAA, EDS, Office of State Climatologist, SDSU, Brookings, South Dakota 57006.

Experimental Procedure

Each trial consisted of four or five replications. Plots of individual entries were randomly located within each replication. All trials were seeded two rows at a time, with cone-planters mounted above flexi-planter units. A herbicide was banded over the row at time of seeding. The various row spacings used are found in Table 1. The plots were two rows wide, plot lengths dependent upon the area available at the various locations.

The harvested grain was taken from two, 10-foot sections of each row in each individual plot. The heads were bagged as harvested, tagged and tied, returned to Brookings to driers and remained there for several weeks. Yields were calculated on the basis of pounds per acre. Depending upon location, either three or four replications were harvested for yield determination and one replication was left for observational purposes.

Moisture determinations made at the time of normal first-frost dates are generally more reliable and informative than determinations made at harvest time. Generally, these figures and test weight of the harvested grain indicate more realistically the maturity of the grain. Moisture percentages given for 1972 may not be as true an indication as in some years as the damp, foggy fall season caused much of the mature grain to take on moisture again after the crop had once matured and begun to dry down.

Moisture samples were taken at all locations during the period of September 25-27. Ten to twelve heads, adequate for a 400-500 gram grain sample were cut from each entry, placed in a polyethylene bag, tagged and sealed tightly. Upon returning to the main station the samples were threshed, cleaned and moisture percentages determined with an electronic moisture meter. The upper limit of the meter is 35 percent. Material above this level is indicated as 35.+ in the tables and normally would indicate hybrids of late maturity for this area.

The continued cool temperatures in some areas slowed growth and most trial entries were found to have quite high moisture at time of sampling. The high moisture remained even after the crop was physiologically mature and made drying of nearly all grain harvested a major consideration as facilities and fuel for drying were extended beyond capacities or expectations.

Measurements of Performance

Variations in soil fertility, slope or stand may cause varieties of equal potential to yield differently. Mathematical determinations were made to determine if yield differences were caused by variations in environment or were true varietal differences. Small yield differences have no significance.

Duncan's Multiple Range Test (5% level) was used to determine whether significant differences occurred. The line drawn between any two entry means in the 1972 yield data indicates that there is no difference between the entries above that line at the 5% level of probability.

Discussion of Results

Grain sorghums are grown extensively in south central South Dakota and in varying amounts elsewhere around the state where it is too hot and dry for corn production.

In 1972, moisture was recorded at near record amounts at all sites in May and June precipitation was quite adequate. The north-central area of the state experienced a drought in July and August while the rest of the state received generous quantities of precipitation. Temperatures averaged below normal at all sites for nearly every month of the season. The low temperatures coupled with either excessive moisture or near-drouth conditions delayed growth, heading and maturation at many of the trial locations.

For all the drawbacks of excessive precipitation and low temperatures, the trials at most sites were not greatly delayed in growth and excellent yields were obtained in the major production areas. The performance trials were hand harvested and returned to the main station for drying, thus permitting achievement of the fine results shown. Large farm-type operations were not as fortunate. The first killing frost of the year was accompanied by snow and ice and subsequent snow, freezing rain or fog did not make conditions favorable for harvest. Many fields were standing waiting for direct combining or grain windrowed for drying was on the ground when these adverse conditions occurred.

Stalk breakage was quite variable from one site to another. In areas where seeding was timely the plants matured at a normal rate and lodging was severe in some entries. At other locations the stalks remained green until harvest and lodging did not express itself.

The yield and quantity of the grain in most performance trials was good. This is an exception to some of the larger operations in the major production area. If the crop was in early a good crop was possible, but much seeding was delayed until entire fields could be seeded as a unit and seeding was then delayed into early June. Fields that were set back throughout the year received an apparent benefit when late maturing fields were not hurt by killing frost until mid-October. Unfortunately, the killing temperatures were accompanied by precipitation as rain, snow or fog and created serious harvest problems that caused many hours of concern and increased harvest expenses.

| | | Test | | Percent | |
|-------------------------------|-------|------|-----------------------------------------|----------|--------|
| | Yield | Wt. | Height | Moisture | Date |
| Brand and Variety | 1b/A | 1b/B | Inches | 9/28/72 | Headed |
| | | | 100000000000000000000000000000000000000 | | |
| SD 70106 | 3705 | 50 | 43 | 35.+ | 8/13 |
| Northrup-King 121 | 3625 | 51 | 45 | 35.+ | 8/14 |
| Pioneer X 5568 | 3590 | 48 | 42 | 35.+ | 8/14 |
| RS 506 | 3580 | 48 | 51 | 35.+ | 8/16 |
| SD 104 | 3560 | 52 | 39 | 35.+ | 8/12 |
| | | | | | |
| NK Mini-Milo 54 BR | 3515 | 51 | 40 | 35.+ | 8/10 |
| ACCO R920 | 3330 | 46 | 46 | 35.+ | 8/15 |
| Pioneer 894 | 3240 | 49 | 37 | 35.+ | 8/14 |
| SD 690156 | 3200 | 51 | 38 | 35.+ | 8/11 |
| Western WS 201 | 3030 | 47 | 49 | 35.+ | 8/17 |
| Hostom US 102 | 2015 | 47 | 46 | 35 + | 8/15 |
| SD 25702 | 2915 | 47 | 40 | 35 + | 8/18 |
| SD 25702 Northrun-King 190 | 2000 | 44 | 45 | 35 + | 8/10 |
| sp 451 | 2725 | 41 | 49 5/ | 35 + | 8/15 |
| SD 451 | 2710 | 47 | 50 | 25 + | 8/16 |
| ACCO RIGIO | 2025 | 45 | 20 | 22.4 | 8710 |
| Pioneer 878 | 2375 | 44 | 45 | 35.+ | 8/18 |
| SD 503 | 2240 | 43 | 61 | 35.+ | 8/17 |
| DeKalb B-36 | 2090 | 43 | 49 | 35.+ | 8/17 |
| Frontier GX700 | 2060 | 47 | 52 | 35.+ | 8/16 |
| Curry's 515 | 1995 | 45 | 52 | 35.+ | 8/15 |
| | | | | | |
| Frontier 389 | 1755 | 42 | 53 | 35.+ | 8/21 |
| DeKalb X-1355 | 1595 | 40 | 37 | 35.+ | 8/18 |
| Frontier GX410 | 1580 | 38 | 40 | 35.+ | 8/22 |
| DeKalb A-26 | 1320 | 41 | 41 | 35.+ | 8/19 |
| Frontier Super 400A | 1265 | 38 | 48 | 35.+ | 8/22 |
| RS 610 | 1125 | 38 | 51 | 35.+ | 8/22 |
| ACC0 R1019 | 810 | 30 | 44 | 35.+ | 8/22 |
| Coop SG-22 | 595 | 38 | 42 | 35.+ | 8/24 |
| Mean | 2460 | | | | |
| | | | | | |

TABLE 4. 1972 GRAIN SORGHUM PERFORMANCE TRIAL, AREA D3, AGRONOMY FARM, BROOKINGS

C.V. = 10.4%

| | | Test | | Percent |
|---------------------|-------|------|---------|----------|
| | Yield | wt. | Height, | moisture |
| Brand and Variety | 1b/A | 1b/B | inches | 9/26/72 |
| Northrup Vine 265 | 8335 | 50 | 60 | 22.6 |
| Northrup-King 200 | 8280 | 58 | 57 | 22.0 |
| Frontion (000 | 8075 | 50 | 50 | 24.2 |
| NR 625 | 7075 | 50 | 50 | 27.0 |
| CC0 4M | 1915 | 00 | 52 | 54.0 |
| NB 634 | 7740 | 60 | 56 | 34.1 |
| RS 506 | 7505 | 57 | 61 | 21.1 |
| Northrup-King 233 | 7480 | 59 | 55 | 22.2 |
| ACCO R 1019 | 7415 | 58 | 51 | 30.5 |
| ACCO R 1029 | 7375 | 58 | 52 | 25.0 |
| Frontier Super 400A | 7375 | 57 | 53 | 23.6 |
| Northrup-King 180 | 7370 | 58 | 51 | 25.9 |
| RS 610 | 7355 | 58 | 57 | 25.4 |
| | 2000 | | | |
| Northrup-King 222 | 7300 | 58 | 46 | 24.7 |
| DeKalb C-42Y | 7290 | 60 | 61 | 35.+ |
| SD 25702 | 7150 | 57 | 49 | 23.8 |
| SD 503 | 7030 | 57 | 64 | 23.1 |
| DeKalb C-42C | 7010 | 59 | 58 | 34.0 |
| DeKalb C-42A | 7000 | 58 | 52 | 32.3 |
| ACCO R 1010 | 6975 | 60 | 65 | 19.0 |
| Frontier 389 | 6810 | 59 | 53 | 22.8 |
| Hostorn US 206 | 6720 | 5.9 | 5.2 | 24.0 |
| SD 451 | 6675 | 56 | 62 | 24.0 |
| Drido D 900V | 6500 | 50 | 02 | 20.0 |
| Fride F-8001 | 6290 | 28 | 45 | 23.0 |
| Curry's 530 | 6540 | 59 | 50 | 22.6 |
| Pioneer 883 | 6425 | 54 | 48 | 21.2 |
| Pride P-550BR | 6115 | 57 | 55 | 19.3 |
| Mean | 7225 | | | |

TABLE 5. 1972 GRAIN SORGHUM PERFORMANCE TRIAL, AREA E, SOUTHEAST EXPERIMENT FARM, BERESFORD

C.V. = 6.3%

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| | A | verage yield, | pounds per ac | re |
|-------------------|---------|---------------|---------------|---------|
| Brand and Variety | 1968-72 | 1969-72 | 1970-72 | 1971-72 |
| | | | | (100 |
| ACCO R920 | | | | 4100 |
| ACCO R1010 | | | | 3745 |
| ACCO R1019 | | | | 2540 |
| DeKalb B-36 | | | | 3530 |
| Frontier 389 | | | | 3155 |
| NK Mini-Milo 54BR | | | 4165 | 3885 |
| Pioneer 878 | | | | 3405 |
| Pioneer 894 | 4280 | 4320 | 4555 | 3845 |
| RS 506 | | | 4965 | 4725 |
| RS 610 | 3770 | 3605 | 3850 | 3210 |
| SD 104 | 5115 | 5005 | 0000 | 3955 |
| SD 451 | 4060 | 4410 | 4290 | 3765 |
| SD 503 | 4190 | 4295 | 3975 | 3620 |
| SD 25702 | | | 0,,,,, | 3775 |
| Western WS 102 | | | | 4000 |

TABLE 6. TWO-, THREE-, FOUR-, AND FIVE-YEAR AVERAGE YIELDS OF GRAIN SORGHUM HYBRIDS ENTERED AT BROOKINGS, 1968-72

TABLE 7. TWO-, THREE-, FOUR-, AND FIVE-YEAR AVERAGE YIELDS OF GRAIN SORGHUM HYBRIDS ENTERED AT THE SOUTHEAST FARM, BERESFORD, 1968-1972

| | A | verage yield, | pounds per ac | re | |
|---------------------|---------|---------------|---------------|---------|--|
| Brand and Variety | 1968-72 | 1969-72 | 1970-72 | 1971-72 | |
| | | | | | |
| ACCO R 1010 | | | 6040 | 6495 | |
| ACCO R 1019 | | | 6125 | 6505 | |
| ACCO R 1029 | | 6420 | 6125 | 6470 | |
| DeKalb C-42A | | 6240 | 5925 | 6170 | |
| Frontier Super 400A | | | | 6580 | |
| Frontier 400C | | | | 6675 | |
| Northrup-King 222 | 6145 | 6235 | 6030 | 6715 | |
| Northrup-King 233 | | | | 6870 | |
| Northrup-King 265 | 6725 | 6870 | 6760 | 7105 | |
| Pioneer 866 | 6705 | 6590 | 6335 | 6915 | |
| Pioneer 883 | | | | 6105 | |
| RS 506 | | | 6080 | 6710 | |
| RS 610 | 6385 | 6355 | 5930 | 6580 | |
| SD 451 | 5445 | 5520 | 5280 | 5810 | |
| SD 503 | 5995 | 6070 | 5985 | 6425 | |
| SD 25702 | | | | 6735 | |
| Western WS 206 | | | | 6130 | |

| | | Test | | Percent | | |
|---------------------|--------------|------|------------|--------------|----------|--------|
| | Yield | wt. | Height, | moisture | Lodging, | Date |
| Brand and Variety | 1b/A | 1b/B | inches | 9/26/72 | percent | headed |
| Pride P-550BR | 4860 | 57 | 45 | 19.1 | 7 | 7/31 |
| RS 506 | 4810 | 57 | 45 | 19.7 | 45 | 7/31 |
| Frontier Super 400A | 4705 | 55 | 42 | 30.5 | 0 | 8/8 |
| Western WS201 | 4705 | 57 | 43 | 19.7 | 20 | 7/31 |
| ACCO R 1010 | 4655 | 59 | 47 | 17.0 | 12 | 8/2 |
| Pioneer 878 | 4645 | 57 | 40 | 20.9 | 0 | 8/7 |
| SD 25702 | 4640 | 56 | 40 | 19.6 | 20 | 8/2 |
| DeKalb C-42A | 4595 | 58 | 39 | 27.6 | 20 | 8/8 |
| | | | | | | |
| SD 503 | 4585 | 57 | 51 | 19.7 | 5 | 7/31 |
| DeKalb A-26 | 4570 | 56 | 38 | 23.6 | 3 | 8/1 |
| Pride P-500A | 4570 | 57 | 43 | 20.3 | 40 | 7/30 |
| Northrup-King 180 | 4560 | 57 | 44 | 23.5 | 5 | 8/4 |
| Northrup-King 121 | 4560 | 58 | 44 | 17.6 | 8 | 7/31 |
| ACCO R 920 | 4445 | 56 | 44 | 17.0 | 30 | 7/28 |
| DeKalb B-36 | 4410 | 58 | 42 | 20.9 | 3 | 8/1 |
| ACCO R 1019 | 4395 | 59 | 42 | 29.2 | 30 | 8/8 |
| Early Oro | 4395 | 57 | 42 | 29.0 | 2 | 8/6 |
| Warner W-601 | 4330 | 57 | 40 | 20.6 | 4 | 8/7 |
| Frontier 400C | 4295 | 57 | 44 | 25.9 | 2 | 8/8 |
| ACCO X-7250 | 4290 | 58 | 37 | 21.8 | 6 | 8/4 |
| Pioneer 894 | 4255 | 58 | 37 | 16.1 | 4 | 7/29 |
| eKalb X - 1355 | 4240 | 57 | 33 | 21.1 | 3 | 8/2 |
| NK Mini-Milo 54BR | 4230 | 57 | 39 | 15.9 | 3 | 7/25 |
| Western WS100 | 4230 | 54 | 47 | 16.8 | 35 | 7/31 |
| RS 610 | 4230 | 55 | 4.2 | 24 5 | 8 | 8/10 |
| NB 635 | 42.50 | 58 | 42 | 24.5 | 25 | 8/10 |
| $P = 1 d_0 P = 200$ | 4100 | 56 | 42 | 17 6 | 15 | 7/22 |
| Warner W-55 | 41/0 | 50 | 41 26 | 10 2 | 0 | 8/10 |
| Dianaar 883 | 414J /1/5 | 57 | 50 | 30 1 | 5 | 8/8 |
| | 4143 | 54 | ر د ۱۱ | 16 5 | 15 | 0/0 |
| C = A = G JO47 | 4133 | 57 | 41 20 | 10.5 | 2 | 0/0 |
| Dianaar 844 | 4130 | 52 | 37 1.1. | 17.J 70 7 | 2 | 0/0 |
| rioneer ood | 4125 | 00 | 44 | 20.1 | ر | 0/0 |
| Frontier GX410 | 4110 | 56 | 37 | 23.8 | 2 | 8/8 |
| Coop SG-22 | 4040 | 57 | 34 | 32.6 | 10 | 8/14 |
| Warner W-501 | 4030 | 55 | 47 | 16.5 | 60 | 7/26 |
| Frontier GX700 | 3955 | 57 | 43 | 18.9 | 15 | 7/31 |
| NB 634 | 3935 | 59 | 43 | 35.+ | 2 | 8/13 |
| SD 451 | 3925 | 55 | 45 | 17.1 | 45 | 7/30 |
| Coop SG-21 | 3680 | 58 | 36 | 32.4 | 15 | 8/12 |
| Warner W-600 | 3580 | 48 | 37 | 15.8 | 10 | 8/4 |
| Mean | 4315 | | | | | |

| TABLE 8. | 1972 GRAIN SC | ORGHUM PERFORMANCE | TRIAL, AREA | ΒЗ, | SOUTH | CENTRAL | RESEARCH |
|----------|---------------|--------------------|-------------|-----|-------|---------|----------|
| | FARM, PRESHO | | | | | | |

C.V. = 12.1%

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A-144 -----

| | West of Long | Average yield, | pounds per | acre |
|-------------------------------------------------------------------|--------------|----------------|----------------------|------------------------------|
| Brand and Variety | 1968-72 | 1969-72 | 1970-72 | 1971-72 |
| ACCO R 920 ACCO R 1010 | 3235 | 4035 | 3190 3430 | 3370 3630 |
| ACCO R 1019 ACCO X-7250 | | | 3220 | 3515 3135 |
| DeKalb B-36 DeKalb C-42A | | | 3215 | 3400 3630 |
| Frontier Super 400A Frontier 400C Frontier GX 410 | | | 3550 | 3785 3430 3120 |
| Northrup-King 121 Northrup-King 180 Northrup-King Mini-Milo | 54BR | | 3265 | 3560 3480 3275 |
| P-A-G 3849 | | | | 3055 |
| Pioneer 866 Pioneer 878 Pioneer 883 Pioneer 894 | 3535 3340 | 3275 3060 | 3350 3205 | 3250 3565 3315 3330 |
| Pride P-200 Pride P-500A Pride P-550BR | | | 2785 3325 3625 | 3080 3550 3790 |
| RS 506 RS 610 | 3325 | 3115 | 3565 3330 | 3645 3450 |
| SD 451 SD 503 SD 25702 | 3005 3455 | 2760 3185 | 2830 3340 | 2965 3560 3850 |
| Western WS 206 | | | | 3325 |

TABLE 9. TWO-, THREE-, FOUR, AND FIVE-YEAR AVERAGE YIELDS OF GRAIN SORGHUM HYBRIDS ENTERED AT PRESHO, 1968-1972

| | | Test | | Percent | |
|---------------------|-------|------|------------|----------|--------|
| | Vield | wt | Height | moisture | Date |
| Brand and Variety | 1b/A | 16/B | inches | 9/25/72 | headed |
| brand and variety | 10,11 | 1075 | Inches | 5725772 | neaded |
| Northrup-King 180 | 5580 | 58 | 49 | 33.5 | 8/15 |
| RS 506 | 5440 | 57 | 56 | 28.8 | 8/15 |
| Pioneer X5568 | 5400 | 50 | 43 | 30 5 | 8/4 |
| Warner W-600 | 5290 | 58 | 50 | 32.8 | 8/10 |
| Warner W 000 | 5270 | 50 | J 0 | 52.0 | 0/10 |
| Pride P-500A | 5135 | 58 | 49 | 30.7 | 8/9 |
| Early Oro | 5000 | 57 | 57 | 35.+ | 8/25 |
| ACCO R 920 | 4995 | 58 | 46 | 26.3 | 8/8 |
| Western WS 201 | 4910 | 58 | 48 | 32 4 | 8/6 |
| | 4710 | 50 | 40 | 52.4 | 0,0 |
| Warner W-601 | 4900 | 58 | 52 | 33.7 | 8/16 |
| DeKalb X-1355 | 4690 | 56 | 41 | 33.8 | 8/7 |
| Pioneer 883 | 4650 | 53 | 46 | 35.+ | 8/18 |
| SD 25702 | 4630 | 58 | 44 | 35.+ | 8/16 |
| 00 25702 | 4050 | 50 | | 55. | 0,10 |
| Pioneer 894 | 4605 | 59 | 41 | 33.3 | 8/6 |
| Warner W-501 | 4590 | 57 | 51 | 21.8 | 8/7 |
| SD 503 | 4580 | 57 | 57 | 35.+ | 8/15 |
| Northrun-King 233 | 4540 | 57 | 56 | 34 6 | 8/18 |
| Notenitaly King 255 | -5-0 | 57 | 50 | 34:0 | 0,10 |
| Pride P-550BR | 4530 | 59 | 47 | 31.8 | 8/8 |
| ACCO R 1010 | 4510 | 59 | 55 | 33.1 | 8/12 |
| Dekalb $B-36$ | 4465 | 56 | 51 | 35 + | 8/18 |
| SD 451 | 4435 | 55 | 55 | 28.8 | 8/6 |
| | 435 | 55 | 55 | 2010 | 070 |
| Pioneer 866 | 4415 | 55 | 52 | 35.+ | 8/21 |
| Dekalb A-26 | 4400 | 56 | 38 | 35.+ | 8/11 |
| Western WS 206 | 4295 | 57 | 52 | 35 + | 8/18 |
| Warner W-55 | 4285 | 53 | 42 | 35.+ | 8/20 |
| | 4205 | 55 | 72 | 55.1 | 0,20 |
| Shoo Bird | 4195 | 54 | 44 | 35.+ | 8/21 |
| ACCO R 1019 | 4120 | 56 | 46 | 35 + | 8/25 |
| P = A = G - 3849 | 4070 | 57 | 45 | 28.0 | 8/3 |
| Frontier Super 4004 | 3925 | 52 | 49 | 35 + | 8/21 |
| reacter ouper soon | 5765 | 52 | 77 | | 0/21 |
| RS 610 | 3635 | 55 | 49 | 35.+ | 8/20 |
| Pioneer 878 | 3485 | 57 | 43 | 34.8 | 8/16 |
| NB 634 | 3175 | 53 | 56 | 35.+ | 8/24 |
| NB 635 | 2860 | 52 | 53 | 35 + | 8/27 |
| | 2000 | 52 | 55 | | 0/2/ |
| Mean | 4490 | | | | |
| | | | | | |

TABLE 10.1972 GRAIN SORGHUM PERFORMANCE TRIAL, AREA C1, IRRIGATED, REDFIELDDEVELOPMENT FARM, REDFIELD

C.V. = 13.4%

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| | | Test | | Percent | | | |
|-------------------------|-------|----------|---------|----------|---------|-------------|--|
| | Yield | wt. | Height, | moisture | Lodging | Date | |
| Brand and Variety | 1b/A | 1Ь/В | inches | 9/25/72 | percent | headed | |
| | | | ~~~~~ | | | | |
| DeKalb B-36 | 5695 | 57 | 44 | 24.2 | 2 | 7/27 | |
| Pioneer 866 | 5560 | 58 | 46 | 24.2 | 30 | 8/1 | |
| ACCO R 920 | 5430 | 56 | 44 | 21.7 | 10 | 7/20 | |
| DeKalb X-1355 | 5395 | 57 | 37 | 23.1 | 0 | 7/25 | |
| Frontier 400C | 5350 | 57 | 48 | 26.3 | 3 | 8/1 | |
| Frontier GX266 | 5345 | 54 | 45 | 31.6 | 30 | 8/1 | |
| Western WS 201 | 5335 | 57 | 44 | 16.7 | 10 | 7/23 | |
| Frontier Super 400A | 5240 | 56 | 44 | 27.3 | 5 | 8/2 | |
| Pioneer 883 | 5225 | 57 | 41 | 28.2 | 5 | 7/30 | |
| NB 634 | 5190 | 58 | 46 | 32.2 | 0 | 8/8 | |
| DeKalb A-26 | 5175 | 56 | 39 | 29.6 | 0 | 7/27 | |
| Warner W-601 | 5135 | 57 | 44 | 20.4 | Õ | 8/1 | |
| Northrun-Ving 180 | 5110 | 57 | 44 | 20.4 | 10 | 7/20 | |
| Northrup-King 100 | 5110 | 56 | 45 | 25.2 | 10 | 9/1 | |
| Warner W-55 | 5105 | 50 | 45 | 25.5 | 15 | 0/1 | |
| Ploneer 894 | 2102 | 20 | 41 | 10.2 | 15 | 1/23 | |
| P-A-G 3849 | 5090 | 58 | 42 | 14.6 | 2 | 7/22 | |
| RS 610 | 5090 | 56 | 46 | 25.3 | 10 | 8/1 | |
| SD 451 | 5055 | 56 | 48 | 19.9 | 25 | 7/25 | |
| Warner W-501 | 5030 | 55 | 46 | 17.2 | 15 | 7/21 | |
| SD 503 | 4995 | 57 | 50 | 23.1 | 15 | 7/26 | |
| Frontier GX 410 | 4965 | 55 | 39 | 22.2 | 0 | 7/30 | |
| Pioneer 878 | 4935 | 57 | 39 | 22.3 | 10 | 7/26 | |
| Western WS100 | 4915 | 55 | 48 | 19.1 | 10 | 7/23 | |
| Frontier 389 | 4855 | 57 | 42 | 26.3 | 0 | 8/3 | |
| Warner W-600 | 4830 | 57 | 42 | 20.9 | 0 | 8/1 | |
| NB 635 | 4810 | 57 | 43 | 35.+ | 15 | 8/19 | |
| Northrun-King 121 | 4705 | 57 | 42 | 18.3 | 0 | 7/23 | |
| ACCO = 1010 | 4540 | 58 | 50 | 18.6 | 15 | 7/23 | |
| PS 506 | 450 | 57 | 45 | 17.8 | 45 | 7/25 | |
| SD 690156 | 4270 | 57 | 38 | 20.7 | 6 | 7/18 | |
| SD 104 | 6215 | 5.0 | 30 | 16.8 | 10 | 7/20 | |
| 0D 104 0D 70104 | 4215 | 50 | | 10.0 | 15 | 7/20 | |
| | 4130 | 20 | 43 | 10.1 | د ر | 7/20 | |
| NOTCHTUP-KING MILO 54BR | 2925 | 50 55 | 37 | 22.2 | 2 | // O 0/1 | |
| SD 25702 | 24/5 | 55 | 43 | 24.3 | / | 0/1 | |
| Mean | 4875 | | | | | | |

TABLE 11. 1972 GRAIN SORGHUM PERFORMANCE TRIAL, AREA B2, CENTRAL SUBSTATION, HIGHMORE

C.V. = 10.1%

| | Av | verage yield, p | ounds per acr | 'e |
|-------------------|---------|-----------------|---------------|---------|
| Brand and Variety | 1968-72 | 1969-72 | 1970-72 | 1971-72 |
| ACCO R 1010 | | | 6105 | 5630 |
| ACCO R 1019 | | | 5430 | 5005 |
| DeKalb B-36 | | | 5730 | 5415 |
| Northrup-King 233 | | | | 5785 |
| P-A-G 3849 | | | | 4400 |
| Pioneer 866 | | | 6295 | 5790 |
| Pioneer 878 | | | | 5140 |
| Pioneer 883 | 6560 | 6555 | 6015 | 5635 |
| Pioneer 894 | 5775 | 5555 | 5505 | 5340 |
| RS 506 | | | 6785 | 6530 |
| RS 610 | 4270 | 4230 | 5805 | 5245 |
| SD 451 | 4405 | 4845 | 4865 | 5085 |
| SD 503 | 4655 | 4530 | 4755 | 5675 |
| SD 25702 | | | | 5830 |
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TABLE 12. TWO-, THREE-, FOUR-, FIVE-YEAR AVERAGE YIELDS OF GRAIN SORGHUM ENTERED AT REDFIELD, 1968-72

TABLE 13. TWO-, THREE-, FOUR-, and FIVE-YEAR AVERAGE YIELDS OF GRAIN SORGHUM ENTERED AT HIGHMORE, 1968-1972

| | and the second | Average yield, | pounds per a | cre |
|---------------------|----------------|----------------|--------------|---------|
| Brand and Variety | 1968-72 | 1969-72 | 1970-72 | 1971-72 |
| ACCO R 920 | | 3775 | 3820 | 4030 |
| ACCO R 1010 | | | 3560 | 3655 |
| DeKalb B-36 | | | 4060 | 4390 |
| Frontier Super 400A | | | | 4095 |
| Frontier 400C | | | | 4125 |
| Frontier GX 410 | | | | 4185 |
| Northrup-King 121 | | | | 3725 |
| Northrup-King 180 | | | | 4160 |
| P-A-G 3849 | | | | 3895 |
| Pioneer 866 | | | | 4640 |
| Pioneer 878 | | | | 3890 |
| Pioneer 883 | | | | 4260 |
| Pioneer 894 | 4015 | 3775 | 3665 | 3895 |
| RS 506 | | | 3225 | 3370 |
| R S 610 | | 3690 | 3755 | 4020 |
| SD 104 | | | | 3085 |
| SD 451 | 3635 | 3485 | 3230 | 3565 |
| SD 503 | 4190 | 3955 | 3795 | 3940 |
| SD 25702 | | | | 2770 |
| | | | | |

| | | Test | | Percent | |
|-----------------------|-------|------|---------|----------|---------|
| | Yield | wt. | Height, | moisture | Lodging |
| Brand and Variety | lb/A | B/A | inches | 9/26/72 | percent |
| 1000 V 7075 | 0500 | 5.0 | 15 | 04 7 | F |
| ACCO X-7275 | 8590 | 58 | 45 | 26.7 | 5 |
| Frontier 400C | /195 | 58 | 48 | 35.+ | 2 |
| Frontier GX 266 | /135 | 58 | 48 | 26.4 | 3 |
| SD 25702 | 7085 | 58 | 43 | 23.9 | 20 |
| Pioneer 866 | 6960 | 59 | 48 | 26.8 | 6 |
| Northrup-King 180 | 6945 | 58 | 49 | 29.1 | 30 |
| Early Oro | 6945 | 59 | 48 | 25.2 | 2 |
| NB 635 | 6900 | 60 | 44 | 30.4 | 25 |
| Northrup-King 233 | 6630 | 60 | 44 | 30.5 | 5 |
| Northrup-King 222 | 6550 | 59 | 40 | 24.6 | 5 |
| Curry's 515 | 6415 | 59 | 48 | 18 5 | 10 |
| ACCO = 1019 | 6410 | 59 | 40 | 28.5 | 15 |
| ACCO K 1019 | 0410 | | 40 | 20.5 | 15 |
| DeKalb C-42A | 6170 | 59 | 43 | 31.9 | 2 |
| SD 451 | 6160 | 57 | 46 | 17.8 | 45 |
| ACCO R 1010 | 6120 | 60 | 50 | 19.3 | 30 |
| Curry's 530 | 5980 | 60 | 46 | 23.6 | 15 |
| RS 506 | 5960 | 58 | 51 | 23.1 | 45 |
| Western WS 206 | 5920 | 58 | 48 | 22.1 | 35 |
| Pioneer 883 | 5865 | 57 | 44 | 21.7 | 5 |
| Pioneer 8674 | 5840 | 59 | 42 | 34.1 | 0 |
| NB 634 | 5825 | 59 | 45 | 33.0 | 2 |
| Frontier Super 4004 | 5765 | 57 | 47 | 26.5 | 15 |
| Pride P-800V | 5760 | 58 | 44 | 35 + | 2 |
| DeKalb B-36 | 5555 | 59 | 43 | 31.2 | 3 |
| | | | | | |
| Pride P-500a | 5545 | 57 | 45 | 19.2 | 40 |
| DeKalb X-1355 | 5500 | 57 | 44 | 24.1 | 0 |
| Pride P-550BR | 5445 | 59 | 48 | 18.1 | 7 |
| ACCO X-7250 | 5440 | 60 | 43 | 23.5 | 10 |
| SD 503 | 5425 | 58 | 50 | 21.1 | 5 |
| RS 610 | 5380 | 57 | 45 | 35.+ | 7 |
| Frontier GX700 | 5375 | 60 | 48 | 17.2 | 7 |
| Western WS201 | 5360 | 57 | 47 | 20.2 | 20 |
| DeKalb C=42C | 5295 | 59 | 47 | 35.+ | 2 |
| Defail C_{420} | 6010 | 59 | 44 | 34.1 | -3 |
| Doľalb A=26 | 4910 | 57 | 41 | 24.2 | 3 |
| Oro | 4805 | 58 | 43 | 35.+ | 15 |
| Mean | 6055 | | | | |

TABLE 14. 1972 GRAIN SORGHUM PERFORMANCE TRIAL, AREA C2, WILLIAM FIJALA FARM, GEDDES

C.V. = 17.1%

| | | Average yield, | pounds per ac | re |
|----------------------|---------|----------------|---------------|---------|
| Brand and Variety | 1968-72 | 1969-72 | 1970-72 | 1971-72 |
| | | | | |
| ACCO R 1010 | | | 3640 | 4275 |
| ACCO R 1019 | | | 3715 | 4425 |
| ACCO X7250 | | | | 3890 |
| ACCO X7275 | | | | 6260 |
| DeKalb B-36 | | | 3365 | 3940 |
| DeKalb C-42A | | 3815 | 3440 | 4005 |
| Exection Succes (00) | | | 2005 | 4500 |
| Frontier Super 400A | | (1(0 | 7000 | 4300 |
| Frontier 4000 | | 4160 | 4090 | 4805 |
| Northrup-King 180 | | | | 4925 |
| Northrup-King 222 | 3740 | 3925 | 3630 | 4475 |
| Northrup-King 233 | | | | 4985 |
| Pioneer 866 | | 4640 | 4380 | 5280 |
| Pioneer 883 | | 4040 | 3610 | 6025 |
| rioneer 865 | | | 5010 | 4025 |
| Pride P-550BR | | | 3445 | 3885 |
| RS 506 | | | 3840 | 4390 |
| PS 610 | 3710 | 3840 | 3460 | 3015 |
| 13 010 | 5710 | 5040 | 5400 | 5715 |
| SD 451 | | | | 4320 |
| SD 503 | 3340 | 3565 | 3175 | 3570 |
| SD 25702 | | | | 4485 |
| Western WS 206 | | | | 3970 |

TABLE 15. TWO-, THREE-, FOUR-, AND FIVE-YEAR AVERAGE YIELDS OF GRAIN SORGHUM HYBRIDS ENTERED AT GEDDES, 1968-72

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| | | Test | | Percent | |
|-------------------|-------|------|---------|----------|--------|
| | Yield | wt. | Height, | moisture | Date |
| Brand and Variety | 1b/A | 1b/B | inches | 9/25/72 | headed |
| RS 506 | 5105 | 55 | 54 | 35.+ | 8/12 |
| Pioneer 894 | 4175 | 54 | 37 | 35.+ | 8/13 |
| Coop SG-10 | 4095 | 54 | 49 | 35.+ | 8/15 |
| Western WS 102 | 4085 | 55 | 44 | 35.+ | 8/9 |
| SD 70106 | 3970 | 54 | 42 | 35.+ | 8/3 |
| SD 104 | 3950 | 56 | 39 | 35.+ | 8/1 |
| SD 690156 | 3725 | 56 | 40 | 35.+ | 7/31 |
| SD 503 | 3710 | 54 | 48 | 35.+ | 8/14 |
| SD 451 | 3340 | 54 | 58 | 35.+ | 8/11 |
| DeKalb X-1355 | 3125 | 49 | 39 | 35.+ | 8/12 |
| DeKalb A-26 | 2645 | 50 | 40 | 35.+ | 8/13 |
| DeKalb B-36 | 2555 | 54 | 42 | 35.+ | 8/15 |
| Coop SG-21 | 2155 | 47 | 44 | 35.+ | 8/17 |
| Mean | 3585 | | | | |

TABLE 16. 1972 GRAIN SORGHUM PERFORMANCE TRIAL, AREA D2, WEST PRAIRIE COTEAU RESEARCH FARM, GARDEN CITY

C.V. = 13.2%

TABLE 17. TWO-, THREE-, FOUR-, AND FIVE-YEAR AVERAGE YIELDS OF GRAIN SORGHUM HYBRIDS ENTERED AT GARDEN CITY, 1968-1972

| | Av | verage yield, p | ounds per acr | e | |
|----------------------------|--------------|-----------------|---------------|----------------------|--|
| Brand and Variety | 1968-72 | 1969-72 | 1970-72 | 1971-72 | |
| DeKalb B-36 | | | | 3005 | |
| Pioneer 894 | 3680 | 3780 | 3550 | 4205 | |
| RS 506 | | | 3795 | 4860 | |
| SD 104 SD 451 SD 503 | 3350 3405 | 3430 3505 | 3045 3165 | 3650 3655 3925 | |
| Western WS 102 | | | | 4125 | |

| Company & Brand | Variety | Tables | Company & Brand | Variety | Tables |
|---------------------|----------------|----------------------------------------------------|----------------------|---------------------|-------------------|
| ACCO Seed Co. | R 920 | 4,5,8,9,10,11,13 | Curry Seed Co. | 515 | 4,14 |
| Box 1630 | R-1010 | 4,5,6,7,8,9,10,11,12,13,14,15 | Elk Point, S.D. | 530 | 5,14 |
| Plainview, TX | R 1019 | 4,5,6,7,8,9,10,12,14,15 | "Curry's" | | |
| "ACCO" | R 1029 | 5,7 | | | |
| | X-7250 | 8,9,14,15 | Farmland Industries | SG-10 | 16 |
| DeKalb Ag Research | X-7275 | 14,15 | Box 7305 | SG-21 | 8,16 |
| Box 8 | | | Kansas City, MO | SG-22 | 4,8 |
| Dekalb Ag Research | C-42A | 4,7,8,9,14,15 | Соор | | |
| Box 8 | C-42G | 5,14 | Niegona Chamigal ENG | Ecular One | 9 10 17 |
| Glenvil, NB | U-421 | J,14 / 6 9 0 10 11 12 12 1/ 15 16 17 | 7201 Desifie Ch | Carly Uro | 8,10,14 |
| | D-30 A-26 | 4,0,0,7,10,11,12,13,14,13,10,17 4 8 10 11 14 16 | Omaha NR | Choo Dird | 14 |
| | A-20 X-1355 | 4,8,10,11,14,16 | Unalla, ND | SHOO BIID | 10 |
| | V-1222 | 4,0,10,11,14,10 | Pride Co Inc | P-200 | 8 9 |
| Frontier Hybrids | Super 400A | 4.5.7.8.9.11.11.13.14.15 | Glen Haven, WI | P-500A | 8.9.10.14 |
| Inc., Box 42 | 400 C | 5.7.8.9.11.13.14.15 | "Pride" | P-550BR | 5.8.9.10.14.15 |
| Hutchinson, KS | 389 | 4.5.6.11 | | P-800& | 5.14 |
| "Frontier" | GX266 | 11,14 | PAG Seeds, Bx 2813 | | - , |
| | GX410 | 4,8,9,11,13 | Northstar Station | 3849 | 8,9,10,11,12,13 |
| | GX700 | 4,8,14 | Minneapolis, MN | | |
| Northrup King | NK 121 | 4,8,9,11,13 | G. Warner Seed Co. | W-55 | 8,10,11 |
| 1500 Jackson St. NE | NK 180 | 4,5,8,9,10,11,13,14,15 | Box 1448 | W-501 | 8,10,11 |
| Minneapolis, MN | NK 222 | 5,7,14,15 | Hereford, TX | W-600 | 8,10,11 |
| | NK 233 | 4,7,10,12,14,15 | "Warner" | W-601 | 8,10,11 |
| | NK 265 | 5,7 | | | |
| | NK MM 54BR | 4,6,8,9,11 | King's Western Seed | WS 206 | 4,7,8,9,10,14,15 |
| | 044 | | Co. | WS 201 | 4,8,10,11,14 |
| Pioneer Seed Co. | 866 | 5,7,8,9,10,11,12,13,14,15 | Wessington, S.D. | WS 102 | 4,6,16,17 |
| 1206 Mulberry St. | 8/8 | 4,6,8,9,10,11,12,13 | "Western" | WS 100 | 8,11 |
| Des Moines, IA | 883 | 4,7,8,9,10,11,12,13,14,15 | | | |
| Ploneer | 894 | 4,6,8,9,10,11,12,13,16,17 | | | |
| | 80/4 VEEC9 | 14 | CD 104 | 4 6 11 12 16 | 17 |
| | 72200 | 14 | SD 104 SD 503 | 4,0,11,13,10, | 11 12 13 14 15 |
| Age Exp Sta | DC 506 | 4 5 6 7 9 0 10 11 12 12 14 15 16 17 | 20 202 | 4, 5, 0, 7, 0, 9, 1 | 10,11,12,13,14,15 |
| Agr. Exp. Sta. | RS 500 | 4, 5, 0, 7, 0, 7, 10, 11, 12, 13, 14, 15, 10, 17 | SD ¥690156 | 4 11 16 | |
| SDSII | NB 634 | 4.8.10.11.14 | SD 25702 | 4.5.6.7.8.9 | 10.11.12.13.14.15 |
| Brookings S D | NB 635 | 5.8.10.11.14 | SD 70106 | 4.11.16 | |
| 2100KIII60, 0.D. | CD (51 | 4 5 6 7 8 0 10 11 12 13 14 15 14 17 | 52 10200 | .,,_0 | |
| | 50 451 | 4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |

TABLE 18. ENTRIES SUBMITTED FOR THE 1972 GRAIN SORGHUM PERFORMANCE TRIALS AND TABLES WHERE RESULTS APPEAR