Special Issue

# International Sorghum and Millets Newsletter

## Characterization of ICRISAT-Bred Sorghum Hybrid Parents (Set II)

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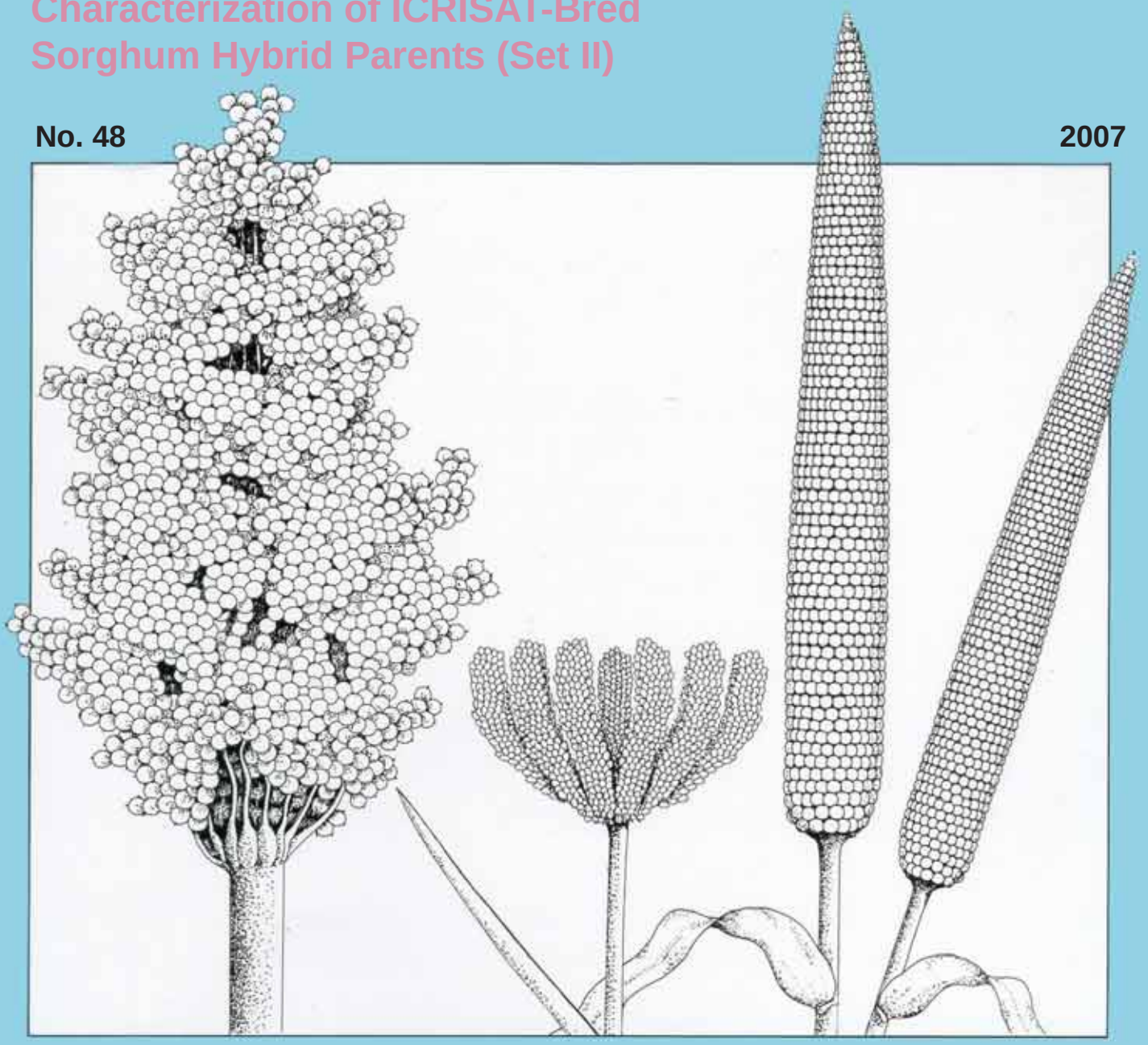

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**Note:** A photo album of ICRISAT-Bred Sorghum Hybrid Parents (Set II) can be found through http://www.icrisat.org/gt-ci/ISMN-48_Specialissue.htm. If there is a specific need to have the entire publication and the photo album on a CD, kindly contact: b.reddy@cgiar.org.

# Foreword

For the millions of poor and food insecure people living in the semi-arid tropics (SAT) of Asia, Africa and Latin America, sorghum (*Sorghum bicolor* L. Moench) is an important staple food grain crop. Given its importance as food, feed and fodder, considerable global efforts have gone into improving its productivity through genetic enhancement. The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), established in 1972 at Patancheru, Andhra Pradesh, India, has a global mandate for conserving the genetic resources of sorghum (one of its mandate crops) and enhancing its research in Asia, Africa and Latin America in collaboration with partners in the national agricultural research system (NARS), advanced research institutes (ARIs), private sector seed companies and non-governmental organizations (NGOs).

ICRISAT's vision is to improve the *well-being of the poor of the SAT. Its research is conducted with the mission of* reducing poverty, enhancing food and nutritional security and protecting the environment of the semi-arid tropics by helping empower the poor through science with a human face.

Initially, ICRISAT's focus was on developing pure lines. However, availability of the cytoplasmic-nuclear genetic male-sterility (CMS) system coupled with the demonstration of substantial heterosis for grain and forage yields prompted the Institute to make greater investments in hybrid parents' research in 1978. Since then, several improved hybrid parents have been developed through trait-based breeding, capturing both the crop's geographical and genetic diversities. These products have been shared with NARS partners in the public and private sectors, who in turn have developed and released/marketed a large number of hybrids for commercial cultivation in Asia, Africa and Latin America. The adoption of hybrids has significantly contributed to increased productivity and on-farm cultivar diversity.

The enactment of the Protection of Plant Varieties Acts in several countries will have significant implications on the International Public Goods (IPGs) nature of improved research products developed by ICRISAT. The Institute seeks to protect its research products by placing them in the public domain and establishing a *prior art* for its research products. As an immediate strategy, ICRISAT will characterize all the available hybrid parents as per the Distinctiveness, Uniformity and Stability (DUS)-test guidelines for sorghum and place them in the public domain.

In an effort towards complying with the mandate of producing IPGs, 302 designated $A_1$ *milo* and 32 $A_2$ non-*milo* CMS system-based trait-specific seed parents (A-/B-lines) and 171 restorer parents (R-lines) were characterized during the 2005 rainy and 2005–06 postrainy seasons at ICRISAT, Patancheru, India, for all the traits stipulated in the DUS-test guidelines for sorghum, and for other traits including grain yield.

This special issue of the International Sorghum and Millets Newsletter focuses on the history of the development of sorghum hybrid parents at ICRISAT and their characterization data for the traits stipulated in the DUS-test guidelines.

I am sure this publication will be useful to all sorghum researchers globally.

**William D Dar**
Director General, ICRISAT

# Characterization of ICRISAT-Bred Sorghum Hybrid Parents[1]

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## I. Introduction

Increased demand for food by a fast-growing human population, the need to sustain biodiversity, and the spurt in private sector investments in agricultural research driven by modern tools for genetic improvement of crop plants has resulted in increased demand for seeking Intellectual Property Rights (IPR) over the products of research. This has led to the introduction of plant variety protection legislations in European countries and in the USA. International efforts to harmonize the IPRs across countries to improve trade has led to various conventions [including Union Pour la Protection des Obtentions Végétales (UPOV) 1991] leading to the establishment of guidelines on Plant Breeder's Rights (PBRs). This was followed by the Uruguay round of deliberations resulting in Trade Related Intellectual Property (TRIPs) rights in 1995. Article 27.3 (b) of TRIPs agreement makes it mandatory for the member countries to provide protection for plant varieties either by patents or by an effective *sui generis* system or any combination thereof for an effective protection of intellectual property.

The Protection of Plant Varieties (PPV) Act, in general, requires registration of plant varieties/hybrids, for which protection is sought. The four essential parameters for granting protection to varieties/hybrids are **N**ovelty (N), **D**istinctiveness (D), **U**niformity (U) and **S**tability (S). The variety is deemed to be **N**ovel if it is not previously known publicly or not commercially exploited prior to a specific period at the time of seeking protection under the act. **D**istinctiveness refers to the specific characters of the variety that differentiates it from the other varieties. **U**niformity indicates the absence of the intra-genotypic differences within a variety rendering it uniform. **S**tability denotes the consistent performance of the variety for the traits when tested from season to season, and at different locations. For granting protection to any new variety/ hybrid under the PPV act, testing for the three parameters, D, U and S is essential and it is designated as the DUS-testing procedure.

The DUS-testing procedure depends on the crops and their economic importance in various countries or various geographic regions within the countries. In India, the Indian Council of Agricultural Research (ICAR) is the nodal agency for developing the DUS-test guidelines. National Test Guidelines have been developed for 35 crops including sorghum. The National Research Center for Sorghum (NRCS), Hyderabad, India, has developed the DUS-test guidelines for sorghum (Table 1) in consultation with sorghum scientists in India.

The Consultative Group on International Agricultural Research (CGIAR), established in 1971 in response to the demand for food security in developing countries, has a global mandate of conserving the plant genetic resources (PGR) of mandate crops and their improvement for adaptation to targeted geographic regions. The enactment of *sui generis* Protection of Plant Varieties and Farmers Rights (PPV&FR) Acts in several countries will have significant implications on the nature of International Public Goods (IPGs), including improved varieties, breeding lines and hybrid parents, developed by CGIAR centers. ICRISAT has the responsibility of conserving genetic resources and developing improved breeding products of sorghum, pearl millet, chickpea, pigeonpea and groundnut. ICRISAT has to ensure that its improved breeding lines are freely disseminated to public sector and private seed companies, and to the farmers in the semi-arid tropics while preventing others from falsely claiming and getting commercial advantages from it. The revised ICRISAT Material Transfer Agreement (MTA) for breeding materials (products of its own research) includes conditions that the recipient should not seek IPR/ownership of the materials in the form received. In addition, ICRISAT has evolved strategies in consultation with IPR experts that do not unduly impede its main focus of developing and sharing improved research products.

## II. Strategy for protecting ICRISAT products

ICRISAT seeks to protect its research products from other parties by placing them in the public domain and establishing a *prior art* for the research products. As an immediate strategy, ICRISAT intends to characterize all the available hybrid parents (689 A/B-lines and 883 R-lines) developed and designated in three phases as per the DUS-test guidelines and place them in public domain

[1]Besides the authors, several other scientists [LR House (late), JW Stenhouse, SZ Mukuru (late), KV Ramaiah, MJ Vasudeva Rao, BL Agarwal, DS Murty, Bholanath Verma, H Doggett, R Bandyopadhyay, KF Nwanze, SL Taneja, K Leuschner, R Jambunathan, SD Singh, LK Mughogho, and Suresh Pande] have contributed to the development of the sorghum hybrid parents.

(hard copy and through its website) to make them accessible to all parties interested in increasing the production and productivity of its mandate crops. This process had begun in 2004 and placed 269 A/B-lines and 156 R-lines in 2006 as Set I (Reddy et al. 2006) after characterization.

This publication contains the morphological characterization data of Set II hybrid seed parents (334 A-/B-lines based on $A_1$ (*milo*) and 171 R-lines) collected for the all the traits as stipulated in the DUS-test guidelines for sorghum (Reddy et al. 2006) and other traits of interest including grain yield. This will be followed by the publication of the morphological characterization data in another set (Set III) by the end of this year.

## III. Material and Methods

As per the DUS-test guidelines, hybrid parental lines were categorized in three groups (early, medium and late maturity) based on days to 50% flowering at ICRISAT, Patancheru. Of the 334 A-/B-lines (pedigrees provided in Table 2), 70 high-yielding, 121 disease resistant and 74 insect pests resistant A-/B-lines were placed in two/three groups. Of the remaining 69 A-/B-lines, 37 *milo* CMS system-based A-/B-lines (22 *Striga* resistant, nine acid soil tolerant, five stay green lines and one tillering line), and 32 non-*milo* CMS system-based A-/B-lines (20 $A_2$, eight $A_3$ and four $A_4$) were placed in one group each as there were fewer entries for each trait/cytoplasm (Table 3). As did for A-/B-lines, the 171 designated R-lines were placed in three maturity groups (Table 4).

These hybrid parents were evaluated during the 2005 rainy and postrainy seasons in high fertile Vertisols (deep black soils) at the experimental fields of ICRISAT, Patancheru, India. The experimental site is located at an altitude of 545 m above mean sea level, latitude of 17.53°N and latitude of 78.27°E. The site receives an average annual rainfall of 897.14 mm (average of 32 years from 1974 to 2005). The entries were planted in two rows, 2-meter long with row spacing of 0.75 m and 0.1 m between plants within a row, following a randomized complete block design (RCBD) in three replications. The planting was carried out on 30 June (A/B-lines) and 4 July (R-lines) in rainy season 2005 and on 11 November (both A/B-lines and R-lines) in postrainy season 2005. The recommended crop production and protection packages were followed to raise a healthy crop.

**Data collection.** The data were recorded for all the 41 traits (except grain tannin content) as stipulated in the DUS-test guidelines (Reddy et al. 2006). The tannin content of the grain was not estimated as most of the lines are white sorghums, which do not contain tannins (Rooney 2005). Data were also recorded on other useful traits (ancillary) (not stipulated in the DUS-test guidelines for sorghum) such as days to seedling emergence, seedling vigor, leaf glossiness, plant agronomic aspect, panicle and grain yields and stability of male-sterility. The data on stability of male sterility in A-lines as assessed by selfed seed set (%) under high atmospheric temperatures (>42°C) (as per details in Table 5) were collected in an unreplicated nursery during summer 2006. Owing to the poor grain quality in rainy season (1006 mm rain fall during crop period) data on grain traits (grain color, grain shape, grain germ size, endosperm texture, albumen color, grain lustre and 1000-grain mass) could not be recorded. However, the data on all the traits were recorded in the postrainy season. The replication-wise data (averaged over individual plants) for days to seedling emergence, seedling vigor, leaf glossiness, plant agronomic aspect, 1000-grain mass (g), and panicle and grain yields were subjected to analyses of variance. For other traits, mean scores across replications are presented (Annexure I–1 to I–14).

The data recorded in 1990 on A-/B-lines for which different trait-specific A-/B-lines were bred are presented in the respective tables. Recording for the following traits were made: leaf and panicle anthracnose severity (recorded on a 1 to 9 scale, where 1 = no anthracnose lesions and 9 = >75% of area covered with anthracnose lesions), leaf blight and leaf rust (recorded on a 1 to 9 scale, where 1 = leaf lamina free from disease and 9 = >75% of leaf lamina affected with disease), panicle grain mold score (recorded on a 1 to 9 scale, where 1 = <5% mold infected grain, and 9 = >75% mold infected grains on the panicle) and threshed grain mold score (recorded on a 1 to 9 scale, where 1 = no mold on the surface of the grain and 9 = >75% surface of the grains with mold after panicle threshing), downy mildew incidence (% infected over healthy plants), stem borer leaf feeding score (20 days after borer infestation taken on a 1 to 9 scale, where 1 = 10% of leaf area damaged and 9 = >75% of leaf area damaged), midge damage score taken on caged heads and open-heads under field conditions (taken on a 1 to 5 scale, where 1 = <10% chaffy spikelets and 5 = >75% chaffy spikelets), head bug score (taken on a 1 to 5 scale,

where 1 = a few grains with head bug feeding punctures and 9 = most of the grains with 60% shriveling due to head bug damage), shoot fly dead hearts % and stem borer dead hearts % (over healthy plants), *Striga* count, acid soil tolerance as assessed by drought tolerance score (on a 1–5 scale, where 1 = least scorched leaves and 5 = severely scorched leaves and no recovery) taken at Matazul center of Centro Internacional de Agricultura Tropical (CIAT), the Spanish acronym for International Center for Tropical Agriculture located at Cali, Colombia, stay green score (taken on a 1–5 scale, where 1 = most green and 5 = least green) and tillering ability (which is expressed when the lines receive adequate moisture after early drought stress). The data recording guidelines for insect pest damage are given by Sharma et al. (1992), Sharma and Nwanze (1997), Teetes et al. (1980) and Sharma et al. (2003).

Besides these, earlier recorded data on A-/B- and R-lines for a few of the agronomic traits (monitored) such as plant color (tan/non-tan), grain pericarp thickness (thick/thin), and grain hardness [determined as force (in kgs) required to break the grain using Kiya's grain hardness tester] and on A-lines for seed set (%) under open pollination where available are reported.

**Acknowledgments.** We are thankful to B Ramaiah for compilation of data, statistical analysis, and tabulation of results. We are also thankful to K Devendram and AS Arpana who assisted in efficient conduct of the trials and data entry respectively.

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**Table 1. Description of characters and the type of measurements as per the DUS-test guidelines for sorghum[1].**

| Sl. No. | Characteristics | States | Node[2] | Stage of observation | Type of assessment[3] |
|---|---|---|---|---|---|
| 1 | Seedling: anthocyanin colouration of coleoptile | green | 1 | seedling | VS |
| | | purple | 2 | | |
| 2 | Leaf sheath: anthocyanin colouration | tan | 1 | 5 leaf | VS |
| | | red | 2 | | |
| | | purple | 3 | | |
| 3 | Leaf : midrib color (5th fully developed leaf) | white | 1 | 5 leaf | VS |
| | | dull green | 2 | | |
| | | yellow | 3 | | |
| | | brown | 4 | | |
| | | purple | 5 | | |
| 4 (*) | Plant: time of panicle emergence (50% of the plants with complete panicle emergence) | very early (<56 days) | 1 | panicle emergence | VG |
| | | early (56–65 days) | 3 | | |
| | | medium (66–75 days) | 5 | | |
| | | late (76–85 days) | 7 | | |
| | | very late (>85 days) | 9 | | |
| 5 | Plant: natural height of foliage up to the base of flag leaf | very short (<76 cm) | 1 | panicle emergence | MS |
| | | short (76–150 cm) | 3 | | |
| | | medium (151–225 cm) | 5 | | |
| | | tall (226–300 cm) | 7 | | |
| | | very tall (>300 cm) | 9 | | |
| 6 (*) | Flag leaf: extension of discoloration of midrib | absent or very weak | 1 | panicle emergence | VG |
| | | weak | 3 | | |
| | | medium | 5 | | |
| | | strong | 7 | | |
| | | very strong | 9 | | |
| 7 (*) | Flag leaf: intensity of green coloration of midrib compared to blade (if not discolored) | paler | 1 | panicle emergence | VG |
| | | same colour | 2 | | |
| | | darker | 3 | | |
| 8 (*) | Flag leaf: yellow coloration of midrib | absent or weak | 1 | panicle emergence | VS |
| | | medium | 5 | | |
| | | strong | 9 | | |
| 9 | Glume: anthocyanin colouration of pubescence (a covering of soft and short hair) | absent or weak | 1 | flowering | VS |
| | | medium | 5 | | |
| | | strong | 7 | | |
| 10 (*) | Lemma: arista formation | absent or weak | 1 | flowering | VS |
| | | medium | 5 | | |
| | | strong | 9 | | |
| 11 (*) | Stigma: anthocyanin coloration | absent or weak | 1 | flowering | VS |
| | | medium | 5 | | |
| | | strong | 9 | | |

contd.

| Sl. No. | Characteristics | States | Node[2] | Stage of observation | Type of assessment[3] |
|---|---|---|---|---|---|
| 12 (*) | Stigma: yellow coloration | absent or weak | 1 | flowering | VS |
| | | medium | 5 | | |
| | | strong | 7 | | |
| 13 | Stigma: length | short | 3 | flowering | MS |
| | | medium | 5 | | |
| | | long | 9 | | |
| 14 | Flower with pedicel: length of flower | very short | 1 | flowering | MS |
| | | short | 3 | | |
| | | medium | 5 | | |
| | | long | 7 | | |
| | | very long | 9 | | |
| 15 | Anther: length | short | 3 | flowering | MS |
| | | medium | 5 | | |
| | | long | 7 | | |
| 16 | Anther: color of dry anther | yellow | 1 | end of flowering | VG |
| | | pink grey | 2 | | |
| | | dark yellow | 3 | | |
| | | orange | 4 | | |
| | | red | 5 | | |
| 17 (*) | Glume: color | green | 1 | physiological maturity | VG |
| | | straw | 2 | | |
| | | brown | 3 | | |
| | | light red | 4 | | |
| | | red | 5 | | |
| | | yellow | 6 | | |
| | | purple | 7 | | |
| | | black | 8 | | |
| 18(*) | Plant: height | very short (<76 cm) | 1 | maturity | MS |
| | | short (76–150 cm) | 3 | | |
| | | medium (151–225 cm) | 5 | | |
| | | long (226–300 cm) | 7 | | |
| | | very long (>300 cm) | 9 | | |
| 19 | Stem: diameter (at lower one third height of plant) | small (<2 cm) | 3 | maturity | MS |
| | | medium (2–4 cm) | 5 | | |
| | | large (>4 cm) | 7 | | |
| 20 | Stalk: juiciness | juicy | 1 | maturity | |
| | | dry | 2 | | |
| 21 | Stalk: sweetness | sweet | 1 | maturity | |
| | | insipid | 2 | | |

contd.

| Sl. No. | Characteristics | States | Node[2] | Stage of observation | Type of assessment[3] |
|---|---|---|---|---|---|
| 22 | Leaf: length of blade of the third leaf from top | short (<41 cm) | 3 | maturity | MS |
| | | medium (41–60 cm) | 5 | | |
| | | long (61–80 cm) | 7 | | |
| | | very long (>80 cm) | 9 | | |
| 23 | Leaf: width of blade of the third leaf from top | narrow (<4.1 cm) | 3 | maturity | MS |
| | | medium (4.1–6.0 cm) | 5 | | |
| | | broad (6.1–8.0 cm) | 7 | | |
| | | very broad (>8.0 cm) | 9 | | |
| 24 | Panicle: length without peduncle | very short (<11 cm) | 1 | maturity | MS |
| | | short (11–20 cm) | 3 | | |
| | | medium (21–30 cm) | 5 | | |
| | | long (31–40 cm) | 7 | | |
| | | very long (>40 cm) | 9 | | |
| 25 | Panicle: length of branches (middle third of panicle) | short (<5.1 cm) | 3 | maturity | MS |
| | | medium (5.1–10 cm) | 5 | | |
| | | long (10.1–15 cm) | 7 | | |
| | | very long (>15 cm) | 9 | | |
| 26 (*) | Panicle: density at maturity (ear head compactness) | very loose | 1 | maturity | VG |
| | | loose | 3 | | |
| | | semi loose | 5 | | |
| | | semi compact | 7 | | |
| | | compact | 9 | | |
| 27 (*) | Panicle: shape | reversed pyramid | 1 | maturity | VG |
| | | panicle broader in upper part | 2 | | |
| | | symmetric | 3 | | |
| | | panicle broader in lower part | 4 | | |
| | | pyramidal | 5 | | |
| 28 (*) | Neck of panicle: visible length above sheath | absent or very short (<5.1 cm) | 1 | maturity | MS |
| | | short (5.1–10 cm) | 3 | | |
| | | medium (10.1–15 cm) | 5 | | |
| | | long (15.1–20 cm) | 7 | | |
| | | very long (>20cm) | 9 | | |
| 29 | Glume: length | very short (25% of grain covered) | 1 | maturity | MS |
| | | short (50% of grain covered) | 3 | | |
| | | medium (75% of grain covered) | 5 | | |
| | | long (100% of grain covered) | 7 | | |
| | | very long (longer than the grain) | 9 | | |

contd.

| Sl. No. | Characteristics | States | Node[2] | Stage of observation | Type of assessment[3] |
|---|---|---|---|---|---|
| 30 | Shattering | low | 3 | maturity | VG |
| | | medium | 5 | | |
| | | high | 7 | | |
| 31 | Threshability | freely threshable <11% unthreshed grain) | 1 | maturity | VG |
| | | partly thresahble (11–50% unthreshed grain) | 5 | | |
| | | difficult to thresh (>50% unthreshed grain) | 7 | | |
| 32 | Grain: form | Single | 1 | maturity | VS |
| | | Twin | 2 | | |
| 33 (*) | Caryopsis: color after threshing | white | 1 | after threshing | VG |
| | | chalky white | 2 | | |
| | | pearly white | 3 | | |
| | | yellow | 4 | | |
| | | red | 5 | | |
| | | light brown | 6 | | |
| | | dark brown | 7 | | |
| 34 | Grain: weight of 1000 grains | very low (<16 g) | 1 | after threshing | MG |
| | | low (16–25 g) | 3 | | |
| | | medium (26–35 g) | 5 | | |
| | | high (36–45 g) | 7 | | |
| | | very high (>45 g) | 9 | | |
| 35 | Grain: shape in dorsal view | narrow elliptic | 1 | after threshing | VG |
| | | elliptic | 2 | | |
| | | circular | 3 | | |
| 36 | Grain: shape in profile view | narrow elliptic | 1 | after threshing | VG |
| | | elliptic | 2 | | |
| | | circular | 3 | | |
| 37 | Grain: size of mark of germ | very small | 1 | after threshing | VG |
| | | small | 3 | | |
| | | medium | 5 | | |
| | | large | 7 | | |
| | | very large | 9 | | |
| 38 | Grain: content of tannin | absent or very low | 1 | after threshing | MG |
| | | low | 3 | | |
| | | medium | 5 | | |
| | | high | 7 | | |
| | | very high | 9 | | |

contd.

| Sl. No. | Characteristics | States | Node[2] | Stage of observation | Type of assessment[3] |
|---|---|---|---|---|---|
| 39 | Grain: texture of endosperm (in longitudinal section) | fully vitreous (100% corneous) | 1 | after threshing | VG |
| | | ¾ vitreous (75% corneous) | 3 | | |
| | | half vitreous (50% corneous) | 5 | | |
| | | ¾ farinaceous (25% corneous) | 7 | | |
| | | fully farinaceous (0% corneous) | 9 | | |
| 40 | Grain: color of vitreous albumen | white | 1 | after threshing | VG |
| | | pale yellow | 2 | | |
| | | yellow | 3 | | |
| | | orange | 4 | | |
| 41 | Grain: lustre | non-lustrous | 1 | after threshing | VG |
| | | medium | 5 | | |
| | | lustrous | 7 | | |

*Characteristics that should be observed every growing season for the examinations of all lines and should always be included in the description of the material, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.

[1]Source: www.plantauthority.in/crop_list.htm#

[2]Nodes (1 to 9) are for the purpose of electronic data processing.

[3]Type of assessment of characteristics.

MG: Measurement by a single observation of a group of plants or parts of plants.

MS: Measurement of a number of individual plants or plant parts.

VG: Visual assessment by single observation of a group of plants or plant parts.

VS: Visual assessment by observation of individual plants or plant parts.

**List of observations deviated from the DUS-test guidelines for sorghum listed in Table 1.**

| Sl. No. | Characteristics | DUS-testing | | ICRISAT | |
|---|---|---|---|---|---|
| | | States | Node | States | Node |
| 3 | Leaf : midrib color (5th fully developed leaf) | white | 1 | brown | 1 |
| | | dull green | 2 | green | 2 |
| | | yellow | 3 | white | 3 |
| | | brown | 4 | | |
| | | purple | 5 | | |
| 10 (*) | Lemma: arista formation | absent or weak | 1 | absent or weak | 1 |
| | | medium | 5 | short | 3 |
| | | strong | 9 | medium | 5 |
| | | | | Long | 9 |
| 16 | Anther: color of dry anther | yellow | 1 | yellow | 1 |
| | | pink grey | 2 | pink grey | 2 |
| | | dark yellow | 3 | dark yellow | 3 |
| | | orange | 4 | orange | 4 |
| | | red | 5 | red | 5 |
| | | | | light orange | 6 |
| | | | | dark orange | 7 |
| 21 | Stalk: Sweetness | sweet | 1 | Brix reading (%) | |
| | | insipid | 2 | | |
| 33 | Caryopsis: color after threshing | white | 1 | white | 1 |
| | | chalky white | 2 | chalky white | 2 |
| | | pearly white | 3 | pearly white | 3 |
| | | yellow | 4 | light yellow/yellow | 4 |
| | | red | 5 | red | 5 |
| | | light brown | 6 | light brown/brown | 6 |
| | | dark brown | 7 | dark brown | 7 |
| | | | | cream | 8 |
| | | | | light red | 9 |
| 40 | Grain: color of vitreous albumen | White | 1 | White | 1 |
| | | pale yellow | 2 | pale yellow | 2 |
| | | yellow | 3 | yellow | 3 |
| | | orange | 4 | purple | 4 |

For characteristics 4, 5, 18, 19, 21 to 25, 28, 29 and 34 actual values are presented in Tables instead of node values.

**Table 2. Pedigrees of ICRISAT-bred designated sorghum A-/B-, and R-lines characterized at ICRISAT, Patancheru, India as per DUS[1] test guidelines.**

| Sl. No. | Designation | Pedigree |
|---|---|---|
| **High-yielding (early-maturity) sorghum B-lines** | | |
| 1 | ICSB 7 | [(BTx 623 × UChV2)B lines bulk]-10-1-4 |
| 2 | ICSB 10 | [(BTx 623 × UChV2)B lines bulk]-10-1-2 |
| 3 | ICSB 25 | [(BTx 623 × CSV 4)B lines bulk]-1-1-3 |
| 4 | ICSB 36 | [(MR 807 × BTx 678)B lines bulk]-6-1-3-5 |
| 5 | ICSB 57 | US/B 37-600-2 |
| 6 | ICSB 615 | (ICSB 3 × SAR 35)44-2 |
| 7 | ICSB 619 | [(ICSB 3 × SAR 35) × ICSB 3]5-2-2-1 |
| 8 | ICSB 622 | (ICSB 6 × IS 29016)15-2-1-1-1 |
| 9 | ICSB 623 | (ICSB 11 × PM 17467B)5-1-2-1 |
| 10 | ICSB 625 | (ICSB 11 × IS 2815)5-1 |
| 11 | ICSB 628 | (ICSB 37 × IS 21599)12-1-2-2 |
| 12 | ICSB 630 | (ICSB 54 × SAR 35)57-2 |
| 13 | ICSB 634 | IS 10288B |
| 14 | ICSB 635 | IS 10315B |
| 15 | ICSB 636 | IS 10438B |
| 16 | ICSB 644 | (ICSB 6 × IS 18432)13-1-2-1-2 |
| 17 | ICSB 647 | (ICSB 6 × IS 18432)13-1-2-2-2 |
| 18 | ICSB 88003 | [(ICSB 22 × ICSB 53) × Diallel 7-2-862]-1-5 |
| 19 | ICSB 88019 | (IS 152 × DJ 6514)-8-1-1-1-1 |
| 20 | ICSB 88020 | (FLR 101 × DJ 6514)-13-1-1-2-1 |
| **High-yielding (medium-maturity) sorghum B-lines** | | |
| 1 | ICSB 2 | [(SC 108-3 × 148) IS 9327]-22-1-2-2 |
| 2 | ICSB 3 | [(BTx 622 × UChV2)B lines bulk]-4-2-1-1 |
| 3 | ICSB 15 | [(BTx 678 × UChV2)B lines bulk]-3-2-5-3 |
| 4 | ICSB 17 | [(BTx 623 × 1807B)B lines bulk]-18-1-1 |
| 5 | ICSB 19 | [(BTx 623 × 1807B)B lines bulk]-18-3-4 |
| 6 | ICSB 20 | [(BTx 623 × CSV 4)B lines bulk]-4-2-5 |
| 7 | ICSB 23 | [(BTx 623 × CSV 4)B lines bulk]-7-2-4 |
| 8 | ICSB 24 | [(BTx 623 × CSV 4)B lines bulk]-7-4-3 |
| 9 | ICSB 29 | [(MR 876 × BTx 678)B lines bulk]-11-4-3 |
| 10 | ICSB 34 | [(MR 807 × BTx 624)B lines bulk]-5-5-1-2 |
| 11 | ICSB 41 | [(BTx 623 × MR 862)B lines bulk]-5-3-6-2 |
| 12 | ICSB 47 | Rs/B 933-4 |
| 13 | ICSB 54 | Diallal 346-8556-2-1 |
| 14 | ICSB 59 | DH 519-18-1-6-3 |
| 15 | ICSB 67 | [(IS 12645C × CSV 4) × IS 9327]-27-2-2-3 |
| 16 | ICSB 82 | (Ind. Syn. 422-1 × US/R-20-682)-5-1-3-1 |
| 17 | ICSB 94 | [(296B × SPV 105) × (2077B × M 35-1)]-21 |
| 18 | ICSB 617 | [(ICSB 3 × SAR 35) × ICSB 3]3-4 |
| 19 | ICSB 618 | [(ICSB 3 × SAR 35) × ICSB 3]3-4-1-1 |
| 20 | ICSB 620 | (ICSB 6 × IS 18432)1-2-2-2-1 |
| 21 | ICSB 621 | (ICSB 6 × IS 18432)13-2-1-2 |
| 22 | ICSB 626 | (ICSB 11 × IS 2815)44-3-1-1 |
| 23 | ICSB 637 | IS 10440B |
| 24 | ICSB 638 | (ICSB 6 × IS 18425)1-1-2 |
| 25 | ICSB 639 | (ICSB 6 × IS 18525)4-1-1-2 |
| 26 | ICSB 640 | (ICSB 6 × IS 18525)4-1-2-2 |
| 27 | ICSB 643 | (ICSB 6 × IS 18432)13-1-2-1-1 |
| 28 | ICSB 645 | (ICSB 6 × IS 18432)13-1-2-2-1 |
| 29 | ICSB 646 | (ICSB 6 × IS 18432)13-1-2-2-1-1 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| 30 | ICSB 648 | (ICSB 6 × IS 18432)13-1-2-3-3 |
| 31 | ICSB 649 | [(ICSB 6 × IS 18432)13-3 × {296 B × (296 B × QL 3)}27-2-1-7-2-5-1]3-1 |
| 32 | ICSB 650 | [(ICSB 6 × IS 18432)13-3 × {296 B × (296 B × QL 3)}27-2-2-2-6-2-2-1]1 |
| 33 | ICSB 658 | (ICSB 37 × PM 17500-2-1)9-1-1-1-4 |
| 34 | ICSB 660 | (ICSB 51 × ICSV 700)9-4-2-1 |
| 35 | ICSB 663 | [(ICSB 101 × QL 3) × (ICSB 6 × PM 17467B)]3-1-1-3-2-2 |
| 36 | ICSB 665 | [296 B × (296 B × QL 3)]28-3-3-2-1-1-2 |
| 37 | ICSB 666 | [(IS 18425 × ICSB 6) × PM 17467B]4-5-1-2 |
| 38 | ICSB 668 | [(IS 18425 × ICSB 6) × PM 17467B]11-3-1-2-5-2 |
| 39 | ICSB 88004 | [(ICSR 87 × ICSR 37) × ICSB 12]-4-2-1-1 |
| 40 | ICSB 88005 | [(ICSB 11 × ICSB 7) × DM 50]-1-1-1-1 |
| 41 | ICSB 88006 | [(ICSB 11 × ICSB 7) × DM 50]-1-3-1-3 |
| 42 | ICSB 88008 | [(ICSB 4 × ICSB 13) × ICSB 7]-4-1-1-2 |
| 43 | ICSB 88009 | [(ICSB 4 × ICSB 13) × ICSB 7]-4-4-5-1 |
| 44 | ICSB 88012 | (Ind. Syn. 89-1 × Ind. Syn. 89-2-2)-2-2 |
| 45 | ICSB 88014 | (BTx 622 × 2219B)-2-1-2-1-2 |
| 46 | ICSB 88015 | (BTx 622 × 2219B)-2-1-2-1-3 |
| 47 | ICSB 89002 | (Ind. Syn. 422-1 × Rs/R-20-682)-5-1-6-2-1 |
| 48 | ICSB 90002 | [ICSB 3 × ((BTx 678 × UChV2)B lines bulk)-3-4 × ICSR 7]-5 |
| 49 | ICSB 90004 | [(IS 5604 × 23/2 × CSV 4) × CSV 4]-3-1-1-1-1 |
| 50 | ICSB 91004 | [(ICSB 3 × ICSR 72) × (ICSB 11)]-9-4-2-2 |
| **Disease-resistant (early-maturity) sorghum B-lines** | | |
| 1 | ICSB 208 | [(ICSB 37 × SP 36257)5-2-2-2 × 296 B × (296 B × QL 3)27-2-2-6-2-3-1]-1 |
| 2 | ICSB 268 | [(ICSB 11 × TRL 74/C 57) × ICSB 6]7-5-1-3-2 |
| 3 | ICSB 311 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]3-2-1-2-2 |
| 4 | ICSB 329 | (ICSB 11 × PM 1861)4-4-1-1 |
| 5 | ICSB 363 | (ICSB 11 × IS 2815)25-1-3-1-2 |
| 6 | ICSB 364 | (ICSB 11 × IS 2815)25-1-3-2 |
| 7 | ICSB 373 | (ICSB 11 × IS 2815)34-1-2 |
| 8 | ICSB 375 | (ICSB 11 × IS 2815)43-1-1-2 |
| 9 | ICSB 380 | (ICSB 11 × IS 2815)61-2-1-2-1-1 |
| 10 | ICSB 385 | (ICSB 17 × IS 21599)14-1-2-3-2 |
| 11 | ICSB 386 | (ICSB 17 × IS 21599)32-1-1-3-4-2 |
| 12 | ICSB 388 | (ICSB 37 × IS 21599)4-1-3-2-1-2 |
| 13 | ICSB 390 | (ICSB 37 × IS 21599)14-1-3-3 |
| 14 | ICSB 408 | (IS 3436 × PQ 35B)8-1-1-2-2-1 |
| **Disease-resistant (medium-maturity) sorghum B-lines** | | |
| 1 | ICSB 202 | (ICSB 37 × SP 36257)5-2-1-1-1-1 |
| 2 | ICSB 216 | (296 B × QL 3)1-2-6-2 |
| 3 | ICSB 217 | (296 B × QL 3)5-1-3-2 |
| 4 | ICSB 218 | (296 B × QL 3)27-2-1-2 |
| 5 | ICSB 220 | [296 B × (296 B × QL 3)]27-2-1-2-2-2-2 |
| 6 | ICSB 223 | [296 B × (296 B × QL 3)]27-2-12-9-2-2-1 |
| 7 | ICSB 224 | [296 B × (296 B × QL 3)]27-2-12-9-3-2 |
| 8 | ICSB 225 | [296 B × (296 B × QL 3)]27-2-1-2-9-3-4 |
| 9 | ICSB 226 | [296 B × (296 B × QL 3)]27-2-1-2-9-6-4-1 |
| 10 | ICSB 227 | [296 B × (296 B × QL 3)]27-2-1-2-9-6-3 |
| 11 | ICSB 228 | [296 B × (296 B × QL 3)]27-2-1-2-9-5 |
| 12 | ICSB 229 | [296 B × (296 B × QL 3)]27-2-1-4-6-4-1 |
| 13 | ICSB 230 | [296 B × (296 B × QL 3)]27-2-1-7-1-1-3 |
| 14 | ICSB 231 | [296 B × (296 B × QL 3)]27-2-1-7-1-2-1-1 |
| 15 | ICSB 245 | [296 B × (296 B × QL 3)]28-3-3-2-1-1-1-3-1 |
| 16 | ICSB 249 | [296 B × (296 B × QL 3)]28-3-3-5-1-1-1 |
| 17 | ICSB 251 | [296 B × (296 B × QL 3)]28-3-3-5-1-3-2 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| 18 | ICSB 252 | [296 B × (296 B × QL 3)]28-3-3-5-1-1-4-1 |
| 19 | ICSB 253 | [296 B × (296 B × QL 3)]28-3-3-5-1-1-6-1 |
| 20 | ICSB 255 | [296 B × (296 B × QL 3)]28-3-6-5-3-2-2 |
| 21 | ICSB 256 | [296 B × (296 B × QL 3)]28-3-6-11-1-4-1 |
| 22 | ICSB 260 | [(ICSB 11 × TRL 74/C 57) × PM 17467B]6-1-1-1 |
| 23 | ICSB 262 | [(ICSB 11 × TRL 74/C 57) × ICSB 6]6-4-2-1 |
| 24 | ICSB 263 | [(ICSB 11 × TRL 74/C 57) × ICSB 6]6-4-2-2 |
| 25 | ICSB 265 | [(ICSB 11 × TRL 74/C 57) × ICSB 6]7-5-1-2 |
| 26 | ICSB 267 | [(ICSB 11 × TRL 74/C 57) × ICSB 6]7-5-1-3-2 |
| 27 | ICSB 270 | [(ICSB 11 × TRL 74/C 57) × ICSB 6]12-2-2-1 |
| 28 | ICSB 271 | [(ICSB 26 × TRL 74/C 57) × ICSB 88001]1-1-2-2 |
| 29 | ICSB 277 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]2-5-1-4-1 |
| 30 | ICSB 278 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]2-5-1-4 |
| 31 | ICSB 279 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]3-1-7-1 |
| 32 | ICSB 282 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-3-2 |
| 33 | ICSB 283 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-3-2 |
| 34 | ICSB 284 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-1 |
| 35 | ICSB 285 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-2 |
| 36 | ICSB 286 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-2 |
| 37 | ICSB 287 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-2-2 |
| 38 | ICSB 288 | [((ICSB 101 × TRL 74/C 57) × PM 17467B) × ICSB 89004]1 |
| 39 | ICSB 289 | [((ICSB 101 × TRL 74/C 57) × PM 17467B) × ICSB 89004]2 |
| 40 | ICSB 290 | [((ICSB 101 × TRL 74/C 57) × PM 17467B) × ICSB 89004]8-4-1-4 |
| 41 | ICSB 291 | [((ICSB 101 × TRL 74/C 57) × ICSB 88001) × ICSB 34]6-1 |
| 42 | ICSB 292 | [(ICSB 101 × A 2267-2) × PM 17467B]2-2-1-4-2 |
| 43 | ICSB 294 | [(ICSB 101 × A 2267-2) × PM 17467B]8-4-1-4-1 |
| 44 | ICSB 295 | [(IND.SYN 422-1B × MR 849) × (BTx 623 × UCHV 2) × BB × (SC 108-3 × CSV 1) × E 35-1]2-1 |
| 45 | ICSB 296 | (ICSB 11 × PM 1861)9-1-1-1 |
| 46 | ICSB 298 | [(ICSB 11 × TRL 74/C 57) × ICSB 6]12-2-2-2 |
| 47 | ICSB 299 | (ICSB 26 × PM 1861)4-1-1-1 |
| 48 | ICSB 302 | [(ICSB 26 × PM 1861) × (ICSB 22 × ICSB 45) × (ICSB 52 × ICSB 51)]1-3-1-3-6-1 |
| 49 | ICSB 312 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]6-1-1-1 |
| 50 | ICSB 313 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-3-2 |
| 51 | ICSB 314 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-3-2-1 |
| 52 | ICSB 315 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-1 |
| 53 | ICSB 316 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-2 |
| 54 | ICSB 317 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-2-2 |
| 55 | ICSB 320 | [(IS 23493 × SPV 351) × MR 940]8-2 |
| 56 | ICSB 322 | (IS 29016 × ICSB 26)1-2-2 |
| 57 | ICSB 330 | (ICSB 11 × PM 1861)8-2-2-1 |
| 58 | ICSB 331 | (ICSB 26 × PM 1861)4-1-2-1-2 |
| 59 | ICSB 332 | (ICSB 26 × PM 1861)4-1-2-1-1 |
| 60 | ICSB 335 | (ICSB 26 × PM 1861)5-3-2 |
| 61 | ICSB 337 | (ICSB 51 × PM 1861)2-1-1 |
| 62 | ICSB 338 | (ICSB 51 × PM 1861)4-1-2-2 |
| 63 | ICSB 341 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]2-5-1-3-1 |
| 64 | ICSB 344 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-3-1 |
| 65 | ICSB 346 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-2 |
| 66 | ICSB 347 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-4-1 |
| 67 | ICSB 349 | [((IS 18417 × ICSB 11) × ICSB 45) × ICSB 30]1-2-1 |
| 68 | ICSB 352 | (ICSB 11 × IS 2815)2-1-2-1-1 |
| 69 | ICSB 354 | (ICSB 11 × IS 2815)4-1-3-2 |
| 70 | ICSB 356 | (ICSB 11 × IS 2815)16-2-1-1 |
| 71 | ICSB 357 | (ICSB 11 × IS 2815)16-2-2-2 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| 72 | ICSB 359 | (ICSB 11 × IS 2815)20-3-2-2-1 |
| 73 | ICSB 360 | (ICSB 11 × IS 2815)20-3-2-2-2 |
| 74 | ICSB 365 | (ICSB 11 × IS 2815)25-2-2-2 |
| 75 | ICSB 372 | (ICSB 11 × IS 2815)34-1-1 |
| 76 | ICSB 377 | (ICSB 11 × IS 2815)48-1-1 |
| 77 | ICSB 387 | (ICSB 37 × IS 21599)4-1-1-1 |
| 78 | ICSB 389 | (ICSB 37 × IS 21599)14-1-2-1-2 |
| 79 | ICSB 395 | (ICSB 37 × IS 10475B)11-1-1-2 |
| 80 | ICSB 397 | (ICSB 37 × IS 10475B)12-2-1-1-1-2-1 |
| 81 | ICSB 398 | (ICSB 37 × IS 10475B)12-2-1-1-1-2 |
| 82 | ICSB 399 | [(ICSB 37 × IS 2501) × ICSB 11]1-1-2 |
| 83 | ICSB 407 | (IS 3436 × PQ 35B)5-1-1-2-1-1 |
| **Disease-resistant (late-maturity) sorghum B-lines** | | |
| 1 | ICSB 209 | [(ICSB 37 × SP 36257)5-2-4-2-1 × 296 B × (296 B × QL 3)27-2-2-6-2-2]-2 |
| 2 | ICSB 211 | (ICSB 37 × IS 18757)3-1-1-2-1-2 |
| 3 | ICSB 212 | (ICSB 51 × IS 18757)2-1-2 |
| 4 | ICSB 214 | [(ICSB 101 × IS 18757) × ICSB 6]9-1 |
| 5 | ICSB 219 | (296 B × QL 3)27-2-2 |
| 6 | ICSB 221 | [296 B × (296 B × QL 3)]27-2-12-3-6-1 |
| 7 | ICSB 232 | [296 B × (296 B × QL 3)]27-2-1-7-1-2-3-1 |
| 8 | ICSB 234 | [296 B × (296 B × QL 3)]27-2-1-7-2-2-4-1 |
| 9 | ICSB 238 | [296 B × (296 B × QL 3)]27-2-1-7-2-8-3-2 |
| 10 | ICSB 239 | [296 B × (296 B × QL 3)]27-2-1-7-2-10-1-2 |
| 11 | ICSB 240 | [296 B × (296 B × QL 3)]27-2-2-6-2-1-2 |
| 12 | ICSB 241 | [296 B × (296 B × QL 3)]27-2-2-6-3-2-1 |
| 13 | ICSB 242 | [296 B × (296 B × QL 3)]27-2-2-6-3-2-1-3 |
| 14 | ICSB 246 | [296 B × (296 B × QL 3)]28-3-3-2-3-5-2-2 |
| 15 | ICSB 248 | [296 B × (296 B × QL 3)]28-3-3-3-4-1-5 |
| 16 | ICSB 257 | [296 B × (296 B × QL 3)]28-3-6-11-1-4-2 |
| 17 | ICSB 258 | [296 B × (296 B × QL 3)]28-3-10-1-2-3-1-4 |
| 18 | ICSB 259 | [296 B × (296 B × QL 3)]29-6-7-2-4-1 |
| 19 | ICSB 306 | [(ICSB 26 × PM 1861) × (ICSB 22 × ICSB 45) × (ICSB 52 × ICSB 51)]1-3-7-3-1 |
| 20 | ICSB 307 | [(ICSB 26 × PM 1861) × (ICSB 22 × ICSB 45) × (ICSB 52 × ICSB 51)]1-3-12-3-1 |
| 21 | ICSB 308 | [(ICSB 26 × PM 1861) × (ICSB 22 × ICSB 45) × (ICSB 52 × ICSB 51)] 1-3-12-2-1-2 |
| 22 | ICSB 309 | (ICSB 70 × PM 1861)5-1 |
| 23 | ICSB 310 | (ICSB 70 × PM 1861)10-1 |
| 24 | ICSB 319 | (ICSB 102 × ICSV 700)5-4-1-1-2-4 |
| **Stress (*Striga*) tolerant (early-maturity) sorghum B-lines** | | |
| 1 | ICSB 567 | (ICSB 3 × SAR 35)57-1-2-1-1-1-1 |
| 2 | ICSB 568 | [(ICSB 3 × SAR 35) × ICSB 3]5-2-2-2-1 |
| 3 | ICSB 569 | [(ICSB 3 × SAR 35) × ICSB 3]44-2-1-1-2 |
| 4 | ICSB 571 | (ICSB 11 × SAR 1)4-1-1-1-2 |
| 5 | ICSB 572 | (ICSB 11 × SAR 1)4-1-2-1-1-1-1 |
| 6 | ICSB 584 | (ICSB 26 × SAR 16)10-2-1-1-2 |
| 7 | ICSB 594 | (ICSB 54 × SAR 35)44-3-2-2-1-2-2-1 |
| 8 | ICSB 598 | (ICSB 54 × SAR 35)44-3-2-1-4-2 |
| 9 | ICSB 599 | (ICSB 101 × SAR 16)6-2-1-2-1 |
| **Tillering (early-maturity) sorghum B-line** | | |
| 10 | ICSB 671 | IS 804-2B |
| **Stay-green (early-maturity) sorghum B-line** | | |
| 11 | ICSB 682 | (ICSB 37 × IS 21599)12-1-2-2 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| **Stress (*Striga*) tolerant (medium-maturity) sorghum B-lines** | | |
| 1 | ICSB 566 | (ICSB 3 × SAR 35)26-1-2-2-2-2-2 |
| 2 | ICSB 573 | (ICSB 11 × SAR 1)4-1-2-1-2-1 |
| 3 | ICSB 574 | [((ICSB 11 × SAR 1) × ICSB 9) × ICSB 101]1-2-3-1-1 |
| 4 | ICSB 575 | [((ICSB 11 × SAR 1) × ICSB 9) × ICSB 101]1-2-3-2 |
| 5 | ICSB 580 | (ICSB 26 × SAR 16)2-2-1-1 |
| 6 | ICSB 581 | (ICSB 26 × SAR 16)4-1-1-1 |
| 7 | ICSB 582 | (ICSB 26 × SAR 16)4-1-1-2-2 |
| 8 | ICSB 585 | [(ICSB 34 × SAR 35) × SAR 35]18-1-1-2-1-1 |
| 9 | ICSB 586 | [(ICSB 34 × SAR 35) × SAR 35]18-1-1-2-1-2 |
| 10 | ICSB 588 | [(ICSB 34 × SAR 35) × SAR 35]18-1-1-2-2-2 |
| 11 | ICSB 590 | (ICSB 37 × SAR 34)7-1-2-5 |
| 12 | ICSB 595 | (ICSB 54 × SAR 35)44-3-2-2-3-1-1-1 |
| 13 | ICSB 597 | (ICSB 54 × SAR 35)44-3-2-1-3-1-2 |
| **Acid soil tolerant (medium-maturity) sorghum B-lines** | | |
| 14 | ICSB 600 | (BTx 622 × 2219B)-2-1-2-1-3 |
| 15 | ICSB 601 | [(BTx 623 × MR 862) × B lines bulk]-5-1-3-5 |
| 16 | ICSB 602 | [(ICSB 3 × ICSR 72) × ICSB 11]-9-4-2 |
| 17 | ICSB 603 | [(ICSB 11 × PM 17500-2-1) × PM 17467B]1-1-1-1 |
| 18 | ICSB 605 | [(ICSB 11 × PM 17500-2-1) × PM 17467B]5-2-1-1 |
| 19 | ICSB 606 | [(ICSB 26 × PM 17467B) × PM 17467B]10-3-1-2 |
| 20 | ICSB 610 | [(C 85-2 × SPV 475) × ICSR 108]5-2-1 |
| 21 | ICSB 612 | ICSPI B/R MFR 55-304-1-4-5-1 |
| 22 | ICSB 614 | (SC 108-3 × CSV 4)-51-1 |
| **Stay-green (medium-maturity) sorghum B-lines** | | |
| 23 | ICSB 676 | (E 36-1 × ICSB 17)12-3-1 |
| 24 | ICSB 679 | ((PS 14413 × ICSV 112)-3-1-1-1 × 296 B)3-1 |
| 25 | ICSB 680 | ((PS 14413 × ICSV 112)-3-1-1-1 × 296 B)6-1 |
| 26 | ICSB 685 | (ICSB 54 × SAR 35)44-3-2-2-3 |
| **Non-*milo* (medium-maturity) sorghum B-lines ($A_2$)** | | |
| 1 | ICSB 688 | (ICSB 6 × IS 18525)4-1-1-2 |
| 2 | ICSB 694 | (ICSB 37 × IS 10475B)4-3-2 |
| 3 | ICSB 696 | (ICSB 37 × PM 17500-2-1)11-1-2-1 |
| 4 | ICSB 698 | [(ICSB 37 × ICSV 702) × PS 19349B]3-4-1-1 |
| 5 | ICSB 700 | (ICSB 42 × IS 23585)2-1-4 |
| 6 | ICSB 701 | (ICSB 51 × ICSV 705)10-4-1-4-1 |
| 7 | ICSB 705 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]8-4-1-1 |
| 8 | ICSB 706 | [(ICSB 101 × PM 17500-2-1) × PM 19268B]1 |
| 9 | ICSB 708 | [(ICSB 101 × IS 467) × (ICSB 6 × PM 17467B)]9-1-3-1-2-1 |
| 10 | ICSB 710 | [DKV 74 × (PB 10858 × DKV 74)]5-1-1-1 |
| 11 | ICSB 714 | (IS 2914 × ICSB 38)4-2-1-2-1-1 |
| 12 | ICSB 718 | [(IS 1347 × ICSB 17) × (ICSB 22 × ICSB 45) × (ICSB 52 × ICSB 51)]1 |
| 13 | ICSB 719 | ICSP 1B/R MFR-S 7-191-1-2-1 |
| 14 | ICSB 720 | ICSP 1B/R MFR-S 7-191-1-2-1-1 |
| 15 | ICSB 721 | ICSP 1B/R MFR-S 7-228-1-1-1-1 |
| 16 | ICSB 722 | ICSP 1B/R MFR-S 7-228-1-1-1-2 |
| 17 | ICSB 723 | ICSP 1B/R MFR-S 7-249-1-1 |
| 18 | ICSB 728 | Mali Sor 84-7 |
| 19 | ICSB 732 | (ICSV 197 × ICSP 2B MFR BK)-9-1-1 |
| 20 | ICSB 737 | (SC 108-3 × CSV 4)-51-1 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| **Non-*milo* (medium-maturity) sorghum B-lines ($A_3$)** | | |
| 21 | ICSB 740 | (ICSB 13 × Mali Sor 84-7)5-1 |
| 22 | ICSB 741 | (ICSB 13 × Mali Sor 84-2)5-6 |
| 23 | ICSB 742 | (ICSB 37 × PM 17500-2-1)3-11-1-2 |
| 24 | ICSB 743 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]2-5-1 |
| 25 | ICSB 748 | (IS 8013 × ICSB 37)13-1-3-2-1 |
| 26 | ICSB 752 | [(IS 1347 × ICSB 17) × (ICSB 22 × ICSB 45) × (ICSB 52 × ICSB 51)]1 |
| 27 | ICSB 754 | ICSV 112-1 |
| 28 | ICSB 755 | [(IS 23493 × ICSV 1) × ICSR 135]-6-3 |
| **Non-*milo* (medium-maturity) sorghum B-lines ($A_4$)** | | |
| 29 | ICSB 756 | (ICSB 6 × IS 18432)13-1-2-2-1 |
| 30 | ICSB 760 | [(ICSB 101 × TRL 74/C 57) × PM 17467B]2-5 |
| 31 | ICSB 763 | (IS 7672 × ICSB 16)1-16-1-1-1-2-1 |
| 32 | ICSB 767 | [(IS 23493 × ICSV 1) × ICSR 135]-6-3 |
| **Insect pest-resistant (early-maturity) sorghum B-lines** | | |
| 1 | ICSB 462 | [(IS 2195 × ICSP 1B/R-MFR)3-2 × (296 B × (296 B × QL 3))]27-2-1-2-2-5-1-1-1 |
| 2 | ICSB 474 | (IS 18432 × ICSB 6)11-1-1-2-2 |
| 3 | ICSB 481 | (ICSB 101 × ICSV 702)1-1-1-1 |
| 4 | ICSB 494 | [(ICSB 11 × PM 17500-2-1) × PM 17467B]3-2 |
| 5 | ICSB 497 | [(ICSB 11 × PM 17500-2-1) × PM 17467B]4-3 |
| 6 | ICSB 546 | Mali Sor 84-7 (A2 cytoplasm) |
| 7 | ICSB 552 | (ICSB 13 × Mali Sor 84-7)4-1-2 |
| 8 | ICSB 559 | (ICSB 13 × Mali Sor 84-7)5-6-1 |
| **Insect pest-resistant (medium-maturity) sorghum B-lines** | | |
| 1 | ICSB 409 | [ICSB 17 × (SPV 462 × (ICSA 101 × ICSV 745)]1-3-2-1-3-1 |
| 2 | ICSB 410 | [{(ICSB 17 × SPV 462) × (ICSA 51 × ICSV 745)} × PS 19349B]8-2-2-2-5-1 |
| 3 | ICSB 411 | (ICSB 36 × ICSV 705)7-2-1 |
| 4 | ICSB 412 | (ICSB 37 × ICSV 705)8-2-1-2 |
| 5 | ICSB 417 | (ICSB 37 × ICSV 705)13-5-2-2 |
| 6 | ICSB 421 | (ICSB 51 × ICSV 705)9-5-1-3-2 |
| 7 | ICSB 424 | [(ICSB 51 × ICSV 705) × PS 19349B]3-1-3-1-1 |
| 8 | ICSB 426 | [(ICSB 51 × ICSV 705) × PS 19349B]10-2-1-1-2 |
| 9 | ICSB 427 | [(ICSB 51 × ICSV 705) × PS 19349B]10-2-1-2 |
| 10 | ICSB 430 | (ICSB 102 × PS 28060-3)4-2-1-1 |
| 11 | ICSB 436 | (MB 10 × ICSV 705)5-2-1 |
| 12 | ICSB 437 | [ICSB 11 × (S 35 × Farafara)]1-1-1-1 |
| 13 | ICSB 438 | (ICSB 37 × ICSV 705)2-2-1 |
| 14 | ICSB 439 | (ICSB 37 × ICSV 705)6-3-2-1 |
| 15 | ICSB 441 | (ICSB 37 × ICSV 705)13-3-1-1 |
| 16 | ICSB 442 | (ICSB 37 × ICSV 705)13-3-2-1 |
| 17 | ICSB 447 | (ICSB 37 × ICSV 705)13-5-2-2-1-3-2 |
| 18 | ICSB 448 | (ICSB 37 × ICSV 705)13-5-2-2-1-3-3 |
| 19 | ICSB 455 | (ICSB 101 × ICSV 705)1-3-3-2 |
| 20 | ICSB 456 | (ICSB 101 × ICSV 705)7-2-3-1 |
| 21 | ICSB 458 | (ICSB 102 × PS 28060-3)4-2-2-1 |
| 22 | ICSB 459 | [296 B × {(296 B × QL 3)-27-2-1-7-2-5 × {ICSB 11 × (S 35 × Farafara)}}]1-1-2-2-1-2 |
| 23 | ICSB 463 | (PS 14454 × SPV 351)1-2-1-1 |
| 24 | ICSB 466 | [((ICSB 11 × ICSV 700) × PS 19349B) × ICSB 13]2-1-1 |
| 25 | ICSB 473 | (ICSB 102 × ICSV 700)5-2-4-1-2 |
| 26 | ICSB 476 | [(ICSB 37 × ICSV 702) × PS 19349B]2-2-1-1-1 |
| 27 | ICSB 480 | [(ICSB 70 × ICSV 700) × PS 19349B]5-4-1-4-2 |
| 28 | ICSB 482 | (ICSB 101 × ICSV 702)1-3-5-1-2 |
| 29 | ICSB 487 | (ICSB 102 × ICSV 700)5-2-4-2-1-2 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| 30 | ICSB 489 | (ICSB 11 × PM 17467B)3-1-2-1-2 |
| 31 | ICSB 492 | [(ICSB 11 × PM 17500-2-1) × PM 17467B]1-1-2 |
| 32 | ICSB 493 | [(ICSB 11 × PM 17500-2-1) × PM 17467B]3 |
| 33 | ICSB 495 | [(ICSB 11 × PM 17500-2-1) × PM 17467B]3-2-2 |
| 34 | ICSB 506 | (ICSB 26 × PM 17467B)1-1-2-1 |
| 35 | ICSB 509 | [(ICSB 26 × PM 17467B) × PM 17467B]4-2-1 |
| 36 | ICSB 511 | [(ICSB 26 × PM 17467B) × PM 17467B]10-1-2 |
| 37 | ICSB 513 | [(ICSB 26 × PM 17467B) × PM 17467B]10-3-1-1 |
| 38 | ICSB 517 | [(ICSB 26 × PM 17467B) × PM 7061B]2-1-1-1 |
| 39 | ICSB 519 | [(ICSB 26 × PM 17500-2-1) × PM 17467B]1-2 |
| 40 | ICSB 521 | (ICSB 37 × PM 17467B)2-1-2 |
| 41 | ICSB 522 | (ICSB 37 × PM 17467B)3-1-1-2 |
| 42 | ICSB 523 | [(ICSB 37 × PM 17500-2-1) × PM 17682B]1-1 |
| 43 | ICSB 524 | [(ICSB 37 × PM 17500-2-1) × PM 17682B]6-1-2 |
| 44 | ICSB 525 | (ICSB 51 × PM 17467B)15-1 |
| 45 | ICSB 527 | (ICSB 70 × PM 17467B)9-1-1-1-1-1 |
| 46 | ICSB 528 | (ICSB 70 × PM 17467B)9-1-1-1-1-2 |
| 47 | ICSB 533 | (ICSB 70 × PM 17467B)14-2-1 |
| 48 | ICSB 534 | [(ICSB 70 × PM 17467B) × PM 17682B]3-2-1-1 |
| 49 | ICSB 536 | (ICSB 70 × PM 17500-2-1)6-2-1 |
| 50 | ICSB 542 | ICSP-1B/R-MFR-57-191-1-2-1-1 |
| 51 | ICSB 543 | ICSP-1B/R-MFR-57-197-1 |
| 52 | ICSB 545 | ICSP-1B/R-MFR-57-228-1-1-2 |
| 53 | ICSB 549 | (ICSB 13 × Mali Sor 84-2)5-2-3 |
| 54 | ICSB 550 | (ICSB 13 × Mali Sor 84-7)1-2-1 |
| 55 | ICSB 553 | (ICSB 13 × Mali Sor 84-7)4-3 |
| 56 | ICSB 563 | (ICSB 38 × Mali Sor 84-7)4-3 |
| 57 | ICSB 565 | (ICSB 38 × Mali Sor 84-7)4-3-2 |
| **Insect pest-resistant (late-maturity) sorghum B-lines** | | |
| 1 | ICSB 428 | (ICSB 101 × ICSV 705)1-3-2-1 |
| 2 | ICSB 433 | (PS 21303 × SPV 386)1-3-2-1-1 |
| 3 | ICSB 434 | (PS 21303 × SPV 386)1-3-2-1-2 |
| 4 | ICSB 443 | (ICSB 37 × ICSV 705)13-3-2-2 |
| 5 | ICSB 453 | [(ICSB 51 × ICSV 705) × PS 19349B]6-3-1 |
| 6 | ICSB 468 | [((ICSB 26 × ICSV 700) × PS 19349B) × ICSB 3]1-1-3-1 |
| 7 | ICSB 526 | (ICSB 70 × PM 17467B)2-1-2-1-2 |
| 8 | ICSB 530 | (ICSB 70 × PM 17467B)9-1-1-1-2-2 |
| 9 | ICSB 538 | [(ICSB 70 × PM 17500-2-1) × PM 17682B]1 |
| **High-yielding (early-maturity) sorghum R-lines** | | |
| 1 | ICSR 32 | (SC 108-3 × CSV 4)-29-1-1 |
| 2 | ICSR 45 | [(148 × E 35-1) × 148]-3-1-3 |
| 3 | ICSR 46 | (IS 12611 × SC 108-3)-1-1-3 |
| 4 | ICSR 54 | [(Lulu 5 × 36D) × (146 × UChV2)]-2-5 |
| 5 | ICSR 55 | (SC 108-3 × CSV 4)-14-1 |
| 6 | ICSR 59 | (146 × CSV 4)-18-7-3 |
| 7 | ICSR 60 | (Swarna × CS 3687)-6-1-3 |
| 8 | ICSR 61 | (SC 108-4-8 × CSV 4)-60-1-1 |
| 9 | ICSR 64 | (SC 108-4-8 × CSV 4)-10-1-1-2 |
| 10 | ICSR 69 | (UChV2 × E 35-1)-11-1 |
| 11 | ICSR 79 | [(SC 108-3 × Swarna) × CSV 4]-15-1 |
| 12 | ICSR 80 | [(SC 108-3 × Swarna) × CSV 4]-37-1 |
| 13 | ICSR 81 | [(2219B × Swarna) × CSV 4]-11-1-1 |
| 14 | ICSR 88 | [SC 170 × (SC 108-3 × 148)]-1-2-1 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| 15 | ICSR 94 | [(CSV 4 × 4-26) × (SC 108-3 × 148)-12-10 |
| 16 | ICSR 97 | [(IS 12645 × CSV 4) × IS 9327deri] |
| 17 | ICSR 105 | {MR 840 × [(2077B × 9327) × R 2797]}-15-2-2-2 |
| 18 | ICSR 113 | {[Safra × (SC 108-3 × E 35-1)-5-1] × CSV 4}-3-4-2 |
| 19 | ICSR 121 | {[IS 19614 × (148 × E 35-1)] × CSV 4}-5-3-4-5-6-2 |
| 20 | ICSR 124 | {[(Bulk Y × CSV 4) × IS 9327-25] × (MB 7 × R 2796)}-5 |
| 21 | ICSR 137 | [MR 836 × (CK 60B × IS 84)]-6-4-3 |
| 22 | ICSR 138 | [(148 × E 35-1)-4-2-4 × IS 17797]-3-4-3 |
| 23 | ICSR 142 | (FLR 101 × CSV 4)-1-2-1 |
| 24 | ICSR 148 | Ind.Syn 458-1 |
| 25 | ICSR 151 | (SC 108-3 × Diallel)-2-1-2-3-3 |
| 26 | ICSR 89007 | [(C 89 × SPV 351) × MR 934]-13-1-1 |
| 27 | ICSR 89029 | [(C 85-1 × SPV 475) × ICSB 12]-1 |
| 28 | ICSR 89033 | [(C 138 × SPV 475) × SPL 7R]-5-3-2 |
| 29 | ICSR 89035 | [C 58 × (SC 108-3 × CSV 4)-3-1]-5-2 |
| 30 | ICSR 89036 | [C 101 × (SC 108-3 × CSV 4)-3-1]-16-2 |
| 31 | ICSR 89038 | [(IS 3982 × SPV 351) × MR 942]-3-2 |
| 32 | ICSR 89039 | [(IS 931 × SPV 351) × MR 923]-2-2 |
| 33 | ICSR 89044 | [(IS 10450 × SPV 475) × MR 909]-6-3 |
| 34 | ICSR 89050 | (PM 6751 × ICSV 162)-9-1-2-1 |
| 35 | ICSR 89066 | (PS 21194 × SPV 350)-3-1-2-3-3 |
| 36 | ICSR 89067 | (PM 6751 × ICSV 189)-11-2-1-1-1 |
| 37 | ICSR 89074 | (20/75)-1-1-5-1 |
| 38 | ICSR 90014 | (PM 14403-1 × MR 855)-5-3-1-1 |
| 39 | ICSR 90015 | (PM 14415-1-1 × A 3201)-19-1-1 |
| 40 | ICSR 90025 | (PS 14413 × ICSV 112)-1-1-2-1 |
| 41 | ICSR 91001 | (IS 19474 × ICSP 1R MFR BK)-5-2-3-2 |
| 42 | ICSR 91002 | [(IS12573C × SC108-3)-16-2-1 × (ICSP 2B MFR BK)]-1-6 |
| 43 | ICSR 91003 | (IS 18551 × ICSP 1R MFR BK)-6-2 |
| 44 | ICSR 91004 | [(IS12573C × SC108-3)-16-2-1 × (ICSP 1R MFR BK)]-4-9 |
| 45 | ICSR 91021 | [(DKV 3 × (ICSV 197 × DKV 3)]-2-5 |
| 46 | ICSR 91022 | (GPR 148 × 555)-Bulk-1-1-1 |
| 47 | ICSR 91029 | (((IS 3443 × DJ 6514)-1-1-1-1-1) × (SC 108-3 × CS 3541)-19-1)-1-1-1-4 |
| 48 | ICSR 92015 | IS 3147 |
| **High-yielding (medium-maturity) sorghum R-lines** | | |
| 1 | ICSR 8 | [SC 170 × (SC 108-3 × 148)]-1-2-3-5 |
| 2 | ICSR 21 | [(SPV 35 × E 35-1)CSV 4]-16 |
| 3 | ICSR 22 | {[(SC 108-3 × CSV 4) × SC 110] × (SC 108-3 × 148)}-12-5 |
| 4 | ICSR 25 | [ET 2039 deri × (SC 108-3 × 148)] |
| 5 | ICSR 27 | (IS 12645C × CSV 4)-6-1-4 |
| 6 | ICSR 47 | (IS 12611 × SC 108-3)-1-2 |
| 7 | ICSR 48 | (IS 12611 × SC 108-3)-4-2-4-1 |
| 8 | ICSR 50 | (IS 12611 × SC 108-3)-4-2-4-3 |
| 9 | ICSR 58 | (SC 108-3 × 148)-18-4-1 |
| 10 | ICSR 74 | [(Bulk Y × 168) × CSV 4]-35-1 |
| 11 | ICSR 75 | (IS 9530 × E 35-1)-2-3-1-1 |
| 12 | ICSR 78 | [(SC 108-3 × Swarna) × CSV 4]-12-1 |
| 13 | ICSR 83 | [(2219B × Swarna) × CSV 4]-3-2-1 |
| 14 | ICSR 84 | [(Bulk Y × 165) × CSV 4]-30-1 |
| 15 | ICSR 91 | [(SC 108-3 × 148) × (SC 423 × CSV 4)]-68-5 |
| 16 | ICSR 92 | (IS 9530 × E 35-1)-2-3-1-2-1 |
| 17 | ICSR 93 | (SC 108-3 × 148)-8-2-1-1 |
| 18 | ICSR 98 | [(SC 108-3 × CSV 4) × 1807B]-3-4-4-4 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| 19 | ICSR 100 | [(IS 12611 × SC 170) × MR 841]-4-1-1-3 |
| 20 | ICSR 102 | [(148 × E 35-1)-4-1 × CSV 4]-1-1-1 |
| 21 | ICSR 115 | (IS 20509 × SPV 471)-4-2 |
| 22 | ICSR 117 | (E 36-1 × CSV 4)-5-19-2-2 |
| 23 | ICSR 118 | [SPV 475 × (IS 12611 × SC 108-3)]-4-8-4-1 |
| 24 | ICSR 119 | [SPV 475 × (IS 12611 × SC 108-3)]-4-8-4-2 |
| 25 | ICSR 123 | (SPV 351 × 77CS 771)-1-4 |
| 26 | ICSR 127 | {MR 840 × [(2077B × IS 9327) × R 2797]}-15-3-4 |
| 27 | ICSR 129 | [(148 × E 35-1) × IS 9327 (MB 4 × R 2757)]-4-4 |
| 28 | ICSR 131 | {PR 82A-137 × [(SPV 35 × E 35-1) × CSV 4]}-16-3-12 |
| 29 | ICSR 133 | {IS 19614 × [(148 × E 35-1) × CSV 4]}-5-3-4-4 |
| 30 | ICSR 136 | (SPV 475 × IN 15-2)-5-2 |
| 31 | ICSR 141 | (FLR 101 × IS 1082)-4-5-2 |
| 32 | ICSR 145 | (CSV 4 × GG × 370)-1 |
| 33 | ICSR 146 | (CSV 4 × GG × 370)-2-1-1-6-2 |
| 34 | ICSR 147 | Ind.Syn 182-2-4-3-2 |
| 35 | ICSR 154 | (IS 3443 × DJ 6514)-1-1-1-1-1 |
| 36 | ICSR 155 | (PM 11344 × SPV 351)-17-1-1-1 |
| 37 | ICSR 160 | [(IS 12622C × 555) × (IS 3612C × 2219B)-5-1 × E 35-1] |
| 38 | ICSR 166 | {F5 s × [18-83 × (SC 423 × CSV 4)-47]}-2-1-2-1 |
| 39 | ICSR 171 | (D 93070 × F5 s)-1-1-1-1-1-4 |
| 40 | ICSR 179 | [(VZM 1B × SPV 104)-13 × (DH 524 × IS 2328)]-4-2 |
| 41 | ICSR 181 | [(3-60 × SPV 105) × Swarna-3-1]-1-1-1-1 |
| 42 | ICSR 186 | [(E 35-1 × 13-35) × (SC 108-3 × CSV 4) × E 12-5]-1-1 |
| 43 | ICSR 89003 | [(C 138 × SPV 475) × SPL 7R]-5-1-1 |
| 44 | ICSR 89011 | (C 101 × SPV 351)-14-2-2 |
| 45 | ICSR 89021 | [(C 138 × SPV 475) × SPL 7R]-5-1-2 |
| 46 | ICSR 89023 | [(C 138 × SPV 475) × SPL 7R]-5-3-2 |
| 47 | ICSR 89046 | (PM 11344 × SPV 351)-1-1-1-3 |
| 48 | ICSR 89047 | (PM 11344 × SPV 351)-6-8-1-1 |
| 49 | ICSR 89048 | (PM 6751 × ICSV 102)-12-2-3-1 |
| 50 | ICSR 89049 | (PM 6751 × ICSV 162)-2-1-1-1 |
| 51 | ICSR 89051 | (PM 7322 × ICSV 166)-18-1-3-1 |
| 52 | ICSR 89054 | (PM 7526 × R 3069)-1-4-1-1 |
| 53 | ICSR 89057 | (PM 11344 × R 2961)-3-11-2-1 |
| 54 | ICSR 89061 | (PS 21303 × SPV 386)-1-3-2-2-1 |
| 55 | ICSR 89069 | (PM 7032 × ICSB 3)-4-2-1-1 |
| 56 | ICSR 89073 | (PS 19881-1 × SPV 394)-1-1-1-1 |
| 57 | ICSR 90001 | [(C 138 × ICSV 112) × SPL 7R]-4-2 |
| 58 | ICSR 90005 | [(C 138 × ICSV 112) × SPL 7R]-5-3-1 |
| 59 | ICSR 90008 | (PS 14413 × ICSV 112)-1-5-2-1-4 |
| 60 | ICSR 90009 | (PM 6751 × SPV 615)-7-2-1-2-3 |
| 61 | ICSR 90010 | (PM 6751 × ICSV 102)-2-1-1-1-1 |
| 62 | ICSR 90011 | (PM 6751 × ICSV 102)-2-1-1-1-2 |
| 63 | ICSR 90012 | (ICSV 197 × R 2961)-3-11-2-1-1 |
| 64 | ICSR 90016 | (PM 14403-1 × MR 855)-10-1-1-1 |
| 65 | ICSR 90020 | (PS 14413 × ICSV 112)-2-2-2-1 |
| 66 | ICSR 90021 | (PS 21310 × A 7045)-5-3-6-1-2 |
| 67 | ICSR 90022 | (PS 14413 × ICSV 112)-3-1-1-1 |
| 68 | ICSR 90023 | (PS 19881-1 × SPV 394)-1-1-1-1 |
| 69 | ICSR 90024 | (PS 19881-1 × SPV 394)-1-1-1-2 |
| 70 | ICSR 90026 | (PS 19881 × R 11941)-11-1-3-1-1 |
| 71 | ICSR 90028 | (PS 21303 × SPV 386)-1-3-2-2-1 |
| 72 | ICSR 91005 | (IS 12664C × ICSP 1R MFR BK)-1-1-2-2 |

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| Sl. No. | Designation | Pedigree |
|---|---|---|
| 73 | ICSR 91007 | [(SPV 475 × (ICSV 197 × SPV 475)]-2-3-1-1-3 |
| 74 | ICSR 91008 | (IS 12664C × ICSP 1R MFR BK)-8-2-1 |
| 75 | ICSR 91009 | (IS 12664C × ICSP 1R MFR BK)-8-2-3 |
| 76 | ICSR 91010 | [(20-67 × SB 1067)-4-1 × (SPV 475)]-1 |
| 77 | ICSR 91013 | [(DKV 3 × (ICSV 197 × DKV 3)]-2-5 |
| 78 | ICSR 91018 | [(SPV 105 × ICSV 1)-1-1-4 × PB 10858]-5-1 |
| 79 | ICSR 91019 | [(M 35-1 × M 1009)-2-1 × F5-6)-5-3-2 × SPV475)]-3-2 |
| 80 | ICSR 91020 | (SPV 475 × DKV 74)-1 |
| 81 | ICSR 91023 | ((RS/R × EN 3257-4)-1-5-1-1-6-1-1-1 × (SC 108-3 × CS 3541)-19-1)-3-1-2-3-3 |
| 82 | ICSR 91025 | ((Bulk Y × CS 3541)-25-1-1-3B × (IS 1054 × Late POP Bulk)-2-2-1-1-6-1-1)-17-2-2-1-1 |
| 83 | ICSR 91026 | (((IS 3443 × DJ 6514)-1-1-1-1-1) × (E 35-1 × Rs/B 394)-1-1-2)-1-1-2-3-2 |
| 84 | ICSR 91028 | (((IS 3443 × DJ 6514)-1-1-1-1-1) × (E 35-1 × US/B 487)-2-1-4-1-1-3)-8-2-1-4-3 |
| 85 | ICSR 91030 | (((IS 3443 × DJ 6514)-1-1-1-1-1) × (SC 108-3 × CS 3541)-19-1)-17-3-1-1 |
| 86 | ICSR 91031 | (SC 108-4-8 × CS 3541)-88 |
| 87 | ICSR 91032 | (IS 1082 × SC 108-3)-1-1-1-1-1 |
| 88 | ICSR 91033 | Mali-sor-84-7 |
| 89 | ICSR 92005 | [(ICSV 234 × IS 20509) × (IS12611 × SC108-3)]-1-2 |
| 90 | ICSR 92007 | [E×P 32/1 × ((IS 10927 × UChV2) × CSV 4)-5]-3-5 |
| 91 | ICSR 92008 | (PM 6751 × ICSV 102)-2-1-1-1-3-2 |
| 92 | ICSR 92009 | (PM 7322 × ICSV 166)-18-1-3-1-2-2 |
| 93 | ICSR 92010 | [(SPV 475 × ICSV 197) × SPV 475]-10-4 |
| 94 | ICSR 92011 | (ICSV 197 × ICSP 2B MFR BK)-9-1-1 |
| 95 | ICSR 92012 | [(IS 23493 × SPV 351) × (MR 940)]-8-1 |
| 96 | ICSR 92014 | IS 271 |
| 97 | ICSR 92016 | SSV 108-1 |
| 98 | ICSR 92022 | (S 53-1 × ICSP 2B/R MFR S2S BULK)-4 |
| 99 | ICSR 92023 | (S 53-1 × ICSP 2B/R MFR S2S BULK)-7 |
| 100 | ICSR 92026 | GSS 196 |
| 101 | ICSR 92027 | (PB 10858 × DKV 1)-2 |
| **High-yielding (late-maturity) sorghum R-lines** | | |
| 1 | ICSR 5 | [(SC 108-3 × Swarna) × E 35-1]-8-2-1-3 |
| 2 | ICSR 14 | (IS 12611 × SC 108-3)-4-5 |
| 3 | ICSR 44 | [ET 2039deri × (SC 108-3 × 148)]-29-3-1 |
| 4 | ICSR 82 | [(2219B × Swarna) × CSV 4]-11-1-2 |
| 5 | ICSR 99 | {[(Swarna × CS 3687) × SC 170] × MR 841}-4-4 |
| 6 | ICSR 132 | (E 12-5 × 2077B)-1-2-3-2 |
| 7 | ICSR 135 | [(IS 12611 × SPV 104) × IS 12611]-11-1 |
| 8 | ICSR 156 | (PS 21221 × ISPYT 2/E#20)-6-3-4-6 |
| 9 | ICSR 185 | {2077B × [(Bulk Y × D 181) × SPV 104]}-4-1-1-2 |
| 10 | ICSR 89002 | [(C 85-1 × SPV 475) × ICSB 12]-1 |
| 11 | ICSR 89026 | [(C 85-2 × SPV 351) × MR 929]-1-3 |
| 12 | ICSR 89055 | (PM 11344 × R 2961)-1-1-7-1 |
| 13 | ICSR 89056 | (PM 11344 × R 2961)-2-4-2-1 |
| 14 | ICSR 89060 | (PS 21310 × A 7045)-5-3-6-1-1-2 |
| 15 | ICSR 89062 | (PS 21314 × D 71383)-4-2-2-3-1-3 |
| 16 | ICSR 89070 | (PS 14454 × ICSV 1)-1-2-1-1-1 |
| 17 | ICSR 90002 | [(C 85-2 × ICSV 1) × MR 929]-1-3 |
| 18 | ICSR 90013 | (PM 14403-1 × SPV 422)-20-2-1-1 |
| 19 | ICSR 90018 | (CSV 4 × IS 2312)-5-1-1-5-1 |
| 20 | ICSR 90019 | (PS 19230 × ICSV 1)-9-1-2-2 |
| 21 | ICSR 90027 | (PS 14413 × ICSV 112)-1-5-2-1-3 |
| 22 | ICSR 92001 | [(IS 2350 × MB 9) × SPV 351)]-6-1-1-5 |

[1]D = distinctiveness; U = uniformity; S = stability.

**Table 3. Maturity-wise grouping of designated 334 trait-specific sorghum A-/B-lines characterized for the traits stipulated in the DUS-test guidelines (ICRISAT, Patancheru, India, 2005 rainy and postrainy seasons).**

| Trait | Maturity group | | | Total no. of entries |
|---|---|---|---|---|
| | Early | Medium | Late | |
| High yielding ($A_1$) | 20 | 50 | – | 70 |
| Disease resistant ($A_1$) | 14 | 83 | 24 | 121 |
| Insect pest resistant ($A_1$) | 8 | 57 | 9 | 74 |
| Stress tolerant ($A_1$) | 11 | 26 | – | 37 |
| Non-*milo* ($A_2$) | – | 20 | – | 20 |
| Non-*milo* ($A_3$) | – | 8 | – | 8 |
| Non-*milo* ($A_4$) | – | 4 | – | 4 |
| Total | 53 | 248 | 33 | 334 |

**Table 4. Maturity-wise grouping of 171 designated sorghum R-lines (on $A_1$ CMS system) characterized for the traits stipulated in the DUS-test guidelines (ICRISAT, Patancheru, India, 2005 rainy and postrainy seasons).**

| Maturity group | Number of entries |
|---|---|
| Early | 48 |
| Medium | 101 |
| Late | 22 |
| Total | 171 |

**Table 5. Procedures for recording data on additional traits (ancillary) other than those stipulated in the DUS-test guidelines for sorghum.**

| Trait | Procedure |
|---|---|
| Days to seedling emergence | Number of days required for 50% of the seeds to germinate. |
| Seedling vigor | Scored visually on a 1 to 5 scale (1 = most vigorous and 5 = least vigorous) at 7 days after emergence (DAE). Plant height, pseudo stem thickness, spread of leaf canopy and/or the length and breadth of the leaves. |
| Leaf glossiness | Scored on a 1 to 5 scale, where 1 = glossy and 5 = non-glossy at 10 DAE. |
| Plant agronomic aspect | Scored on a 1 to 5 scale (1 = very good, 2 = good, 3 = average, 4 = below average, and 5 = poor). Plant height, plant color, panicle shape and size, and grain color and size were considered while scoring. |
| Panicle yield (t $ha^{-1}$) | Panicles from 20 representative plants in each line were weighed and used to estimate panicle yield in t $ha^{-1}$. |
| Grain yield (t $ha^{-1}$) | Threshed grain from 20 representative panicles in each entry were weighed and used to estimate grain yield in t $ha^{-1}$. |
| Selfed seed set (%) in A-lines under high atmospheric temperature (>42°C) | Seed set in five randomly selfed plants in each of the A-lines was recorded at maturity. Any A-line with more than 5% seed set was considered unstable for male-sterility. |

**Annexure I. List of tables with characterization data on ICRISAT-bred trait-specific *milo* and non-*milo* sorghum A-/B-lines and R-lines.**

| No. | Title |
|---|---|
| I - 1 | Characteristics of high-yielding (early-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 2 | Characteristics of high-yielding (medium-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 3 | Characteristics of disease-resistant (early-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 4 | Characteristics of disease-resistant (medium-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru, India. |
| I- 5 | Characteristics of disease-resistant (late-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 6 | Characteristics of stress tolerant (early maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 7 | Characteristics of stress tolerant (medium maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 8 | Characteristics of non-*milo* (medium-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 9 | Characteristics of insect pest-resistant (early-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 10 | Characteristics of insect pest-resistant (medium-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 11 | Characteristics of insect pest-resistant (late-maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 12 | Characteristics of high-yielding (early-maturity) sorghum R-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 13 | Characteristics of high-yielding (medium-maturity) sorghum R-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |
| I - 14 | Characteristics of high-yielding (late-maturity) sorghum R-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru. |

Annexure I-1. Characteristics of high yielding (early maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 7 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 83 | 0.7 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 10 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 80 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 25 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 61 | 74 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 36 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 84 | 0.8 | 0.6 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 57 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 66 | 83 | 0.8 | 0.6 | 5 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 6 | 615 | Early | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 81 | 0.7 | 0.6 | 5 | 5 | 2 | - | 1 | 1 | 1 | 1 | 5 | 3 |
| 7 | 619 | Early | 1 | 1 | 1 | 1 | 2 | 2 | 62 | 77 | 0.9 | 0.8 | 5 | 5 | 2 | - | 1 | 1 | 1 | 1 | 5 | 5 |
| 8 | 622 | Early | 2 | 2 | 3 | 3 | 2 | 2 | 63 | 79 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 623 | Early | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 77 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 625 | Early | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 74 | 1.2 | 0.9 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 628 | Early | 1 | 1 | 1 | 1 | 2 | 2 | 59 | 73 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 630 | Early | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 80 | 0.6 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 13 | 634 | Early | 1 | 1 | 3 | 1 | 2 | 2 | 63 | 70 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 635 | Early | 2 | 2 | 3 | 3 | 2 | 2 | 65 | 76 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 636 | Early | 1 | 1 | 1 | 1 | 2 | 2 | 63 | 73 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 644 | Durra | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 81 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 647 | Durra | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 78 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 88003 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 64 | 85 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 88019 | High yield | 1 | 1 | 3 | 1 | 2 | 2 | 65 | 95 | 1.2 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 88020 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 92 | 1.2 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 296B | High yield | 2 | 2 | 1 | 1 | 2 | 2 | 77 | 95 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 65 | 81 | 0.99 | 0.75 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 0.76 | 1.61 | 0.03 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 2.02 | 3.45 | 4.73 | 6.01 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 2.18 | 3.61 | 0.08 | 0.08 | - | - | - | - | - | - | - | - | - | - |

Early- Early maturity; Durra- Durra large grain.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-52 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-1. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 7 | High yield | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 7 | 4 | 4 | 5 | 1.0 | 0.9 | 19.2 | 17.1 | 1 | 1 | 11.7 | 8.3 |
| 2 | 10 | High yield | 1 | 1 | 7 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.1 | 0.9 | 17.8 | 17.5 | 1 | 1 | 9.9 | 7.4 |
| 3 | 25 | High yield | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 6 | 5 | 5 | 1.5 | 1.0 | 16.0 | 13.0 | 1 | 1 | 11.1 | 12.6 |
| 4 | 36 | High yield | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.2 | 1.0 | 16.7 | 15.5 | 1 | 1 | 10.2 | 12.1 |
| 5 | 57 | High yield | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 5 | 3 | 5 | 7 | 6 | 1 | 2 | 1.1 | 0.9 | 20.1 | 14.0 | 1 | 1 | 8.3 | 7.9 |
| 6 | 615 | Early | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.2 | 0.9 | 15.5 | 16.2 | 1 | 1 | 9.6 | 11.1 |
| 7 | 619 | Early | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 5 | 7 | 4 | 4 | 2 | 5 | 1.4 | 1.1 | 17.9 | 12.8 | 1 | 1 | 6.1 | 9.2 |
| 8 | 622 | Early | 1 | 1 | 7 | 7 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.1 | 0.9 | 16.3 | 16.5 | 1 | 1 | 10.9 | 10.9 |
| 9 | 623 | Early | 1 | 1 | 5 | 1 | 3 | 3 | 3 | 5 | 3 | 3 | 4 | 4 | 4 | 2 | 1.0 | 0.8 | 15.1 | 11.7 | 1 | 1 | 18.4 | 12.0 |
| 10 | 625 | Early | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 5 | 1.6 | 1.3 | 15.8 | 9.9 | 1 | 1 | 10.7 | 9.8 |
| 11 | 628 | Early | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 5 | 5 | 1.5 | 1.1 | 14.2 | 11.7 | 1 | 1 | 9.6 | 9.4 |
| 12 | 630 | Early | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 1 | 0.9 | 0.7 | 15.2 | 13.9 | 1 | 1 | 9.3 | 11.0 |
| 13 | 634 | Early | 1 | 1 | 5 | 5 | 3 | 5 | 5 | 7 | 5 | 5 | 7 | 7 | 3 | 7 | 1.3 | 1.1 | 16.2 | 12.7 | 1 | 1 | 6.8 | 14.1 |
| 14 | 635 | Early | 1 | 1 | 7 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 7 | 7 | 5 | 5 | 1.4 | 1.1 | 15.7 | 15.5 | 1 | 1 | 11.0 | 12.9 |
| 15 | 636 | Early | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 3 | 7 | 1.4 | 1.1 | 15.3 | 12.6 | 1 | 1 | 6.7 | 9.9 |
| 16 | 644 | Durra | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 1 | 1 | 1.5 | 1.0 | 17.5 | 13.8 | 2 | 1 | 6.4 | 12.6 |
| 17 | 647 | Durra | 1 | 1 | 5 | 5 | 5 | 9 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.4 | 1.1 | 17.8 | 12.6 | 1 | 1 | 8.4 | 14.6 |
| 18 | 88003 | High yield | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 7 | 7 | 4 | 4 | 2 | 2 | 1.4 | 1.0 | 15.8 | 11.5 | 1 | 1 | 4.8 | 10.3 |
| 19 | 88019 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 6 | 4 | 1 | 1.4 | 1.3 | 13.2 | 12.6 | 1 | 1 | 11.7 | 15.0 |
| 20 | 88020 | High yield | 1 | 1 | 1 | 1 | 3 | 5 | 3 | 3 | 3 | 3 | 7 | 4 | 4 | 5 | 1.5 | 1.4 | 12.0 | 12.5 | 1 | 1 | 8.9 | 16.0 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 296B | | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 6 | 4 | 1 | 1 | 1.3 | 1.1 | 21.6 | 15.1 | 2 | 1 | 6.1 | 14.2 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.34 | 1.05 | 16.69 | 13.83 | - | - | 9.54 | 11.63 |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.03 | 0.03 | 0.92 | 1.22 | - | - | 1.83 | 1.63 |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.81 | 5.73 | 9.57 | 15.32 | - | - | 33.32 | 24.27 |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.08 | 0.09 | 2.63 | 3.92 | - | - | 5.23 | 4.97 |

Annexure I-1. … Contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 7 | High yield | 54.2 | 54.1 | 7.9 | 6.7 | 28.7 | 22.7 | 8.1 | 6.3 | 5 | 5 | 3 | 3 | 5.0 | 11.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 10 | High yield | 58.0 | 51.2 | 7.1 | 6.4 | 28.9 | 23.0 | 9.1 | 6.2 | 5 | 5 | 3 | 3 | 6.7 | 7.8 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 25 | High yield | 67.6 | 55.2 | 8.7 | 6.7 | 25.0 | 17.7 | 7.1 | 4.3 | 5 | 5 | 3 | 3 | 8.7 | 8.8 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 36 | High yield | 63.3 | 56.9 | 7.4 | 6.9 | 27.6 | 23.3 | 7.6 | 6.8 | 5 | 5 | 3 | 3 | 10.6 | 12.6 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 57 | High yield | 70.6 | 59.4 | 8.7 | 6.3 | 28.0 | 20.7 | 9.7 | 5.8 | 7 | 7 | 3 | 3 | 8.1 | 13.0 | 50.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 615 | Early | 67.8 | 66.7 | 7.2 | 6.5 | 24.7 | 20.2 | 6.4 | 6.1 | 7 | 7 | 3 | 3 | 21.1 | 10.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 619 | Early | 67.3 | 57.8 | 7.7 | 6.8 | 33.9 | 26.0 | 8.7 | 7.2 | 5 | 5 | 3 | 3 | 11.0 | 14.1 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 622 | Early | 63.9 | 56.0 | 6.7 | 6.3 | 22.7 | 19.0 | 7.3 | 5.4 | 7 | 7 | 3 | 3 | 6.4 | 12.1 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 623 | Early | 72.7 | 54.7 | 7.0 | 5.1 | 21.0 | 15.6 | 4.9 | 3.9 | 7 | 7 | 3 | 3 | 2.9 | 8.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 625 | Early | 70.4 | 54.3 | 8.1 | 6.8 | 28.2 | 20.6 | 7.3 | 4.4 | 7 | 7 | 3 | 3 | 12.1 | 23.6 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 628 | Early | 56.2 | 43.9 | 6.9 | 4.8 | 31.9 | 23.7 | 10.5 | 8.1 | 3 | 5 | 3 | 3 | 12.1 | 18.6 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 630 | Early | 69.0 | 59.8 | 7.2 | 6.4 | 24.3 | 20.3 | 8.4 | 5.8 | 5 | 5 | 3 | 3 | 4.3 | 3.8 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 634 | Early | 61.4 | 52.8 | 6.9 | 6.0 | 24.6 | 21.1 | 9.1 | 4.9 | 3 | 5 | 3 | 3 | 17.4 | 20.9 | 58.3 | 75.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 635 | Early | 63.4 | 59.3 | 8.1 | 8.1 | 24.6 | 20.3 | 6.3 | 5.2 | 7 | 7 | 3 | 3 | 13.6 | 15.3 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 636 | Early | 66.7 | 58.9 | 7.6 | 6.7 | 23.1 | 19.7 | 6.4 | 4.3 | 5 | 7 | 3 | 3 | 11.0 | 15.3 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 644 | Durra | 60.9 | 63.8 | 7.3 | 6.2 | 22.0 | 19.9 | 5.0 | 4.3 | 7 | 7 | 3 | 3 | 6.2 | 9.7 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 647 | Durra | 59.7 | 63.4 | 6.9 | 5.9 | 23.4 | 18.9 | 5.8 | 5.3 | 7 | 7 | 3 | 3 | 3.7 | 11.2 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 88003 | High yield | 70.7 | 52.2 | 8.3 | 6.3 | 30.6 | 23.1 | 9.8 | 6.6 | 5 | 5 | 3 | 3 | 4.1 | 7.2 | 33.3 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 88019 | High yield | 64.3 | 60.3 | 8.9 | 7.2 | 21.0 | 19.0 | 5.3 | 4.6 | 7 | 7 | 3 | 3 | 4.7 | 6.1 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 88020 | High yield | 57.4 | 53.2 | 8.7 | 6.9 | 20.2 | 21.6 | 5.3 | 5.0 | 7 | 7 | 3 | 3 | 7.7 | 5.8 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 296B | | 67.8 | 57.2 | 8.8 | 5.8 | 32.8 | 24.1 | 7.6 | 6.2 | 7 | 7 | 3 | 3 | 0.4 | 7.6 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | | 64.98 | 56.63 | 7.82 | 6.47 | 26.31 | 21.18 | 7.49 | 5.59 | - | - | - | - | 8.34 | 11.49 | 38.04 | 32.61 | 1 | 1 | 1 | 1 | 1 | 1 |
| SE ± | | | 2.93 | 2.36 | 0.46 | 0.36 | 0.89 | 1.25 | 0.48 | 0.61 | - | - | - | - | 1.43 | 2.22 | 6.03 | 4.21 | - | - | - | - | - | - |
| CV (%) | | | 7.82 | 7.23 | 10.17 | 9.73 | 5.87 | 10.21 | 10.99 | 18.94 | - | - | - | - | 29.74 | 33.49 | 27.46 | 22.35 | - | - | - | - | - | - |
| CD (5%) | | | 8.36 | 7.67 | 1.31 | 1.20 | 2.54 | 3.08 | 1.35 | 1.53 | - | - | - | - | 4.08 | 5.43 | 17.19 | 14.88 | - | - | - | - | - | - |

Annexure I-1. … Contd.

| Trait number → | | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 7 | High yield | 1 | 31.00 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 2.7 | 2.7 | 3.0 | 3.0 | 2.3 | 1.7 | 3.1 | 3.0 | 2.3 | 2.5 |
| 2 | 10 | High yield | 1 | 31.50 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 8 | 3.0 | 3.0 | 3.7 | 5.0 | 2.7 | 2.0 | 3.0 | 3.3 | 3.0 | 2.4 |
| 3 | 25 | High yield | 1 | 29.93 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 2.7 | 2.7 | 2.3 | 2.3 | 2.7 | 2.7 | 2.7 | 2.9 | 2.2 | 2.3 |
| 4 | 36 | High yield | 8 | 25.56 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 3.0 | 2.7 | 2.0 | 1.3 | 4.1 | 4.2 | 3.6 | 3.5 |
| 5 | 57 | High yield | 8 | 25.66 | 3 | 3 | 7 | 3 | 3 | 1 | 4 | 6 | 2.3 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0 | 4.1 | 3.2 | 3.4 | 2.6 |
| 6 | 615 | Early | 8 | 31.43 | 3 | 3 | 7 | 5 | 3 | 1 | 4 | 7 | 2.3 | 2.7 | 3.0 | 3.0 | 2.3 | 2.0 | 3.1 | 3.6 | 2.2 | 2.9 |
| 7 | 619 | Early | 1 | 31.46 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 8 | 2.7 | 3.0 | 4.0 | 4.3 | 2.7 | 2.0 | 3.7 | 3.9 | 2.9 | 3.3 |
| 8 | 622 | Early | 8 | 38.44 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 6 | 2.0 | 3.3 | 2.3 | 2.3 | 2.7 | 3.0 | 2.8 | 2.8 | 2.5 | 2.2 |
| 9 | 623 | Early | 1 | 21.72 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 2.7 | 2.3 | 2.0 | 2.3 | 2.2 | 3.7 | 1.5 | 3.1 |
| 10 | 625 | Early | 8 | 33.41 | 3 | 3 | 3 | 3 | 3 | 7 | 5 | 7 | 3.0 | 3.3 | 2.7 | 3.0 | 2.0 | 2.7 | 3.3 | 3.8 | 2.5 | 3.1 |
| 11 | 628 | Early | 8 | 25.91 | 2 | 2 | 7 | 5 | 3 | 1 | 4 | 6 | 2.7 | 3.3 | 3.3 | 1.3 | 2.7 | 3.0 | 2.8 | 1.8 | 2.2 | 1.3 |
| 12 | 630 | Early | 8 | 30.24 | 3 | 3 | 7 | 3 | 3 | 1 | 5 | 8 | 3.3 | 3.0 | 3.3 | 3.7 | 3.7 | 3.0 | 2.6 | 3.4 | 1.7 | 2.7 |
| 13 | 634 | Early | 5 | 29.66 | 3 | 3 | 7 | 7 | 4 | 1 | 4 | 6 | 2.3 | 2.3 | 2.7 | 1.3 | 2.7 | 3.3 | 3.5 | 2.9 | 3.1 | 2.3 |
| 14 | 635 | Early | 9 | 29.75 | 3 | 3 | 5 | 3 | 4 | 1 | 6 | 8 | 2.7 | 2.7 | 3.0 | 4.0 | 2.7 | 2.0 | 3.1 | 4.5 | 2.4 | 3.7 |
| 15 | 636 | Early | 9 | 34.31 | 3 | 3 | 7 | 5 | 4 | 1 | 5 | 7 | 2.3 | 2.7 | 3.0 | 3.0 | 2.3 | 2.0 | 3.5 | 3.8 | 2.8 | 3.1 |
| 16 | 644 | Durra | 1 | 38.11 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 7 | 2.7 | 3.3 | 2.3 | 3.0 | 1.3 | 1.7 | 3.9 | 4.4 | 2.9 | 3.6 |
| 17 | 647 | Durra | 8 | 39.35 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 6 | 3.0 | 2.7 | 2.7 | 3.0 | 1.7 | 1.3 | 4.1 | 4.3 | 3.1 | 3.6 |
| 18 | 88003 | High yield | 8 | 29.48 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 2.0 | 2.3 | 2.3 | 2.3 | 2.0 | 2.0 | 4.3 | 3.0 | 3.3 | 2.3 |
| 19 | 88019 | High yield | 8 | 23.89 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 7 | 2.0 | 2.7 | 2.0 | 2.0 | 2.0 | 1.0 | 2.9 | 4.0 | 2.2 | 3.2 |
| 20 | 88020 | High yield | 8 | 24.15 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 2.0 | 2.0 | 2.3 | 1.3 | 2.0 | 1.0 | 3.1 | 4.0 | 2.6 | 3.1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 296B | | 8 | 29.61 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 8 | 2.3 | 2.7 | 3.0 | 2.7 | 1.3 | 1.3 | 4.1 | 3.3 | 3.5 | 2.1 |
| Mean | | | 1 | 30.05 | - | - | - | - | - | - | 5 | 7 | 2.52 | 2.70 | 2.87 | 2.76 | 2.20 | 2.03 | 3.44 | 3.55 | 2.74 | 2.87 |
| SE ± | | | - | 1.01 | - | - | - | - | - | - | 0.36 | 0.23 | 0.27 | 0.34 | 0.26 | 0.30 | 0.27 | 0.25 | 0.27 | 0.23 | 0.12 | 0.21 |
| CV (%) | | | - | 5.80 | - | - | - | - | - | - | 12.86 | 5.70 | 18.57 | 21.62 | 15.77 | 19.02 | 21.17 | 21.17 | 13.60 | 11.27 | 7.80 | 12.83 |
| CD (5%) | | | - | 2.88 | - | - | - | - | - | - | 1.03 | 0.87 | 0.77 | 0.87 | 0.74 | 0.85 | 0.77 | 0.74 | 0.77 | 0.84 | 0.63 | 0.88 |

Annexure I-1. … Contd.

| Trait number → | | | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature | Seed set % in A-line under open pollination | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | | Summer | Postrainy | Postrainy | Postrainy | Postrainy |
| 1 | 7 | High yield | 0 | - | Tan | Thin | 8.6 |
| 2 | 10 | High yield | 0 | - | Tan | Thin | 9.1 |
| 3 | 25 | High yield | 0 | - | Tan | Thick | 7.4 |
| 4 | 36 | High yield | 0 | - | Tan | Thin | 7.2 |
| 5 | 57 | High yield | 0 | - | Purple | Thin | 8.7 |
| 6 | 615 | Early | 0 | 40 | Tan | - | - |
| 7 | 619 | Early | 0 | 40 | Tan | - | - |
| 8 | 622 | Early | 0 | 25 | Tan | - | - |
| 9 | 623 | Early | 0 | 60 | Tan | - | - |
| 10 | 625 | Early | 0 | 40 | Tan | - | - |
| 11 | 628 | Early | 0 | 30 | Non tan | - | - |
| 12 | 630 | Early | 0 | 45 | Tan | - | - |
| 13 | 634 | Early | 0 | 40 | Non tan | - | - |
| 14 | 635 | Early | 0 | 25 | Non tan | - | - |
| 15 | 636 | Early | 0 | 40 | Non tan | - | - |
| 16 | 644 | Durra | 0 | 40 | Non tan | - | - |
| 17 | 647 | Durra | 0 | 25 | Non tan | - | - |
| 18 | 88003 | High yield | 0 | - | - | - | - |
| 19 | 88019 | High yield | 0 | - | - | - | - |
| 20 | 88020 | High yield | 0 | - | - | - | - |
| Control | | | | | | | |
| 21 | 296B | | - | - | - | - | - |
| Mean | | | - | - | - | - | - |
| SE ± | | | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - |

Annexure I-2. Characteristics of high yielding (medium maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 2 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 68 | 90 | 1.2 | 0.8 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 3 | High yield | 2 | 1 | 3 | 3 | 2 | 2 | 65 | 78 | 1.0 | 0.7 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 15 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 68 | 73 | 1.0 | 0.7 | 5 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 17 | High yield | 2 | 1 | 3 | 3 | 2 | 2 | 73 | 77 | 0.8 | 0.6 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 19 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 72 | 72 | 1.1 | 0.6 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 20 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 74 | 77 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 23 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 71 | 0.9 | 0.8 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 24 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 66 | 77 | 0.8 | 0.6 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 29 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 80 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 34 | High yield | 2 | 2 | 1 | 3 | 2 | 2 | 69 | 78 | 0.8 | 0.6 | 5 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 41 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 87 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 47 | High yield | 1 | 1 | 1 | 3 | 2 | 2 | 69 | 91 | 1.1 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 54 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 88 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 59 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 67 | 77 | 0.9 | 0.7 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 67 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 66 | 77 | 0.9 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 82 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 78 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 94 | High yield | 2 | 1 | 1 | 1 | 2 | 1 | 71 | 91 | 1.5 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 617 | Early | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 78 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 5 |
| 19 | 618 | Early | 2 | 1 | 1 | 1 | 2 | 2 | 64 | 72 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 620 | Early | 2 | 2 | 3 | 3 | 2 | 2 | 66 | 76 | 1.7 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 621 | Early | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 77 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 626 | Early | 2 | 1 | 1 | 1 | 2 | 2 | 61 | 76 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 637 | Early | 2 | 1 | 1 | 1 | 2 | 2 | 65 | 76 | 0.7 | 0.5 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 638 | Durra | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 81 | 1.6 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 639 | Durra | 2 | 2 | 1 | 3 | 2 | 2 | 66 | 74 | 1.4 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 640 | Durra | 2 | 2 | 1 | 3 | 2 | 2 | 71 | 75 | 1.5 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 27 | 643 | Durra | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 77 | 1.1 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 645 | Durra | 2 | 2 | 1 | 1 | 2 | 2 | 67 | 79 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 646 | Durra | 2 | 2 | 1 | 1 | 2 | 2 | 67 | 79 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 648 | Durra | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 78 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 649 | Durra | 2 | 2 | 1 | 1 | 2 | 2 | 79 | 86 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 650 | Durra | 2 | 2 | 1 | 3 | 2 | 2 | 75 | 82 | 1.2 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

Annexure I-2. …Contd.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 33 | 658 | Durra | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 90 | 1.1 | 0.8 | 5 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 660 | Durra | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 78 | 1.4 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 1 |
| 35 | 663 | Durra | 2 | 2 | 1 | 3 | 2 | 2 | 76 | 100 | 1.0 | 0.7 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 5 | 5 |
| 36 | 665 | Durra | 2 | 2 | 1 | 3 | 2 | 2 | 71 | 90 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 5 |
| 37 | 666 | Durra | 2 | 1 | 1 | 1 | 2 | 2 | 71 | 81 | 1.5 | 1.0 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 668 | Durra | 2 | 1 | 1 | 1 | 2 | 1 | 67 | 75 | 1.1 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 88004 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 76 | 91 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 88005 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 85 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 88006 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 77 | 91 | 0.9 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 88008 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 76 | 86 | 0.9 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 88009 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 77 | 81 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 88012 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 67 | 84 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 88014 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 71 | 81 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 46 | 88015 | High yield | 2 | 1 | 1 | 1 | 2 | 2 | 69 | 78 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 89002 | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 88 | 1.1 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 90002 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 76 | 86 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 90004 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 82 | 85 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 91004 | High yield | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 86 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 296 B | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 94 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | | | | | | | 71 | 81 | 1.12 | 0.77 | | | | | | | | | | |
| SE ± | | | | | | | | | 1.06 | 1.4 | 0.04 | 0.03 | | | | | | | | | | |
| CV (%) | | | | | | | | | 2.59 | 2.97 | 5.83 | 7.15 | | | | | | | | | | |
| CD (5%) | | | | | | | | | 2.98 | 3.57 | 0.11 | 0.10 | | | | | | | | | | |

Early- Early maturity; Durra- Durra large grain.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-52 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-2. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 2 | High yield | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 7 | 5 | 6 | 6 | 4 | 5 | 1.4 | 1.1 | 14.7 | 16.7 | 1 | 1 | 5.9 | 12.9 |
| 2 | 3 | High yield | 1 | 1 | 5 | 1 | 5 | 3 | 3 | 3 | 5 | 5 | 6 | 4 | 2 | 2 | 1.3 | 0.9 | 17.5 | 14.4 | 1 | 1 | 10.4 | 14.7 |
| 3 | 15 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 2 | 1.4 | 1.1 | 18.9 | 17.0 | 1 | 1 | 10.6 | 15.3 |
| 4 | 17 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.3 | 1.0 | 20.6 | 15.7 | 1 | 1 | 12.2 | 15.0 |
| 5 | 19 | High yield | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 6 | 4 | 5 | 5 | 1.5 | 1.0 | 18.9 | 16.0 | 1 | 1 | 6.7 | 14.9 |
| 6 | 20 | High yield | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 1.4 | 1.1 | 18.8 | 14.8 | 1 | 1 | 9.8 | 15.4 |
| 7 | 23 | High yield | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 5 | 1.3 | 1.1 | 17.9 | 15.0 | 1 | 1 | 12.4 | 14.6 |
| 8 | 24 | High yield | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 2 | 1.2 | 0.9 | 17.9 | 16.6 | 1 | 1 | 16.0 | 17.1 |
| 9 | 29 | High yield | 1 | 1 | 5 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 4 | 4 | 5 | 7 | 1.2 | 1.0 | 20.9 | 15.8 | 2 | 1 | 7.1 | 14.2 |
| 10 | 34 | High yield | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 7 | 6 | 2 | 1.2 | 0.9 | 18.8 | 15.6 | 1 | 1 | 14.8 | 17.8 |
| 11 | 41 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 1.4 | 1.1 | 19.2 | 15.1 | 1 | 1 | 6.7 | 13.0 |
| 12 | 47 | High yield | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.4 | 1.1 | 17.3 | 14.0 | 1 | 1 | 10.7 | 9.6 |
| 13 | 54 | High yield | 1 | 1 | 7 | 5 | 9 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 4 | 5 | 1.2 | 1.0 | 21.0 | 16.3 | 2 | 2 | 7.2 | 12.3 |
| 14 | 59 | High yield | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.2 | 1.0 | 16.9 | 13.3 | 2 | 1 | 8.4 | 16.0 |
| 15 | 67 | High yield | 1 | 1 | 5 | 1 | 5 | 3 | 3 | 5 | 5 | 5 | 7 | 4 | 5 | 5 | 1.2 | 1.0 | 15.7 | 13.8 | 1 | 1 | 7.2 | 15.4 |
| 16 | 82 | High yield | 1 | 1 | 5 | 1 | 3 | 5 | 3 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.1 | 0.9 | 15.7 | 15.6 | 2 | 1 | 10.7 | 13.1 |
| 17 | 94 | High yield | 1 | 1 | 5 | 5 | 3 | 5 | 7 | 7 | 5 | 5 | 6 | 6 | 2 | 2 | 1.7 | 1.3 | 20.7 | 19.0 | 1 | 1 | 12.9 | 14.7 |
| 18 | 617 | Early | 1 | 1 | 5 | 1 | 9 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 2 | 2 | 1.2 | 1.0 | 16.6 | 14.6 | 1 | 1 | 3.3 | 11.9 |
| 19 | 618 | Early | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 7 | 7 | 1.8 | 1.3 | 17.6 | 14.9 | 1 | 1 | 13.1 | 13.4 |
| 20 | 620 | Early | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 5 | 1.9 | 1.3 | 16.6 | 16.3 | 1 | 1 | 10.4 | 14.3 |
| 21 | 621 | Early | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 1.7 | 1.2 | 20.0 | 14.8 | 1 | 1 | 9.9 | 16.3 |
| 22 | 626 | Early | 1 | 1 | 7 | 7 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 8 | 1.7 | 1.4 | 15.1 | 12.6 | 1 | 1 | 7.1 | 12.3 |
| 23 | 637 | Early | 1 | 1 | 7 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 8 | 1.1 | 0.8 | 17.2 | 17.4 | 1 | 1 | 4.3 | 13.8 |
| 24 | 638 | Durra | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 1.9 | 1.3 | 18.2 | 16.1 | 1 | 1 | 5.2 | 15.9 |
| 25 | 639 | Durra | 1 | 1 | 7 | 5 | 9 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 2 | 2 | 1.7 | 1.1 | 19.0 | 14.4 | 2 | 1 | 4.0 | 11.3 |
| 26 | 640 | Durra | 1 | 1 | 7 | 5 | 9 | 5 | 7 | 5 | 5 | 5 | 6 | 6 | 1 | 1 | 1.8 | 1.1 | 18.6 | 15.8 | 1 | 1 | 5.6 | 10.9 |
| 27 | 643 | Durra | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 2 | 1.4 | 1.0 | 16.7 | 14.7 | 2 | 1 | 5.4 | 15.6 |
| 28 | 645 | Durra | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 1 | 1 | 1.4 | 1.1 | 17.7 | 16.2 | 1 | 1 | 4.8 | 14.3 |
| 29 | 646 | Durra | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 1 | 1.2 | 0.9 | 17.2 | 15.0 | 2 | 1 | 8.8 | 15.3 |
| 30 | 648 | Durra | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 4 | 1 | 1 | 1.3 | 1.0 | 18.1 | 16.7 | 2 | 1 | 7.0 | 17.4 |
| 31 | 649 | Durra | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 3 | 6 | 4 | 1 | 5 | 1.7 | 1.3 | 19.0 | 14.5 | 1 | 1 | 6.6 | 10.1 |
| 32 | 650 | Durra | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 1 | 5 | 1.4 | 1.0 | 18.6 | 17.0 | 2 | 1 | 6.8 | 14.3 |

Annexure I-2. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 33 | 658 | Durra | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.3 | 1.1 | 20.0 | 18.1 | 2 | 1 | 7.9 | 15.7 |
| 34 | 660 | Durra | 1 | 1 | 5 | 7 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.7 | 1.0 | 16.0 | 14.4 | 2 | 1 | 7.6 | 14.2 |
| 35 | 663 | Durra | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 1 | 1.3 | 0.9 | 22.5 | 21.9 | 2 | 1 | 6.7 | 16.2 |
| 36 | 665 | Durra | 1 | 1 | 1 | 1 | 9 | 5 | 5 | - | 5 | - | 6 | - | 2 | 2 | 1.5 | 1.1 | 17.3 | 16.6 | 2 | - | 9.0 | 16.7 |
| 37 | 666 | Durra | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 4 | 4 | 1.9 | 1.4 | 18.7 | 16.6 | 1 | 1 | 12.8 | 15.4 |
| 38 | 668 | Durra | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 4 | 4 | 1.4 | 1.0 | 20.2 | 17.6 | 2 | 1 | 7.7 | 10.9 |
| 39 | 88004 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 5 | 7 | 1.5 | 1.1 | 22.9 | 19.2 | 1 | 1 | 10.0 | 11.4 |
| 40 | 88005 | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.4 | 1.0 | 18.3 | 15.0 | 1 | 1 | 12.1 | 11.2 |
| 41 | 88006 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.3 | 1.0 | 24.1 | 16.6 | 1 | 1 | 8.0 | 12.2 |
| 42 | 88008 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 6 | 4 | 5 | 5 | 1.3 | 1.0 | 21.8 | 15.9 | 1 | 1 | 11.4 | 10.0 |
| 43 | 88009 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 1.4 | 1.1 | 18.6 | 14.4 | 2 | 1 | 11.7 | 17.2 |
| 44 | 88012 | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 4 | 5 | 1.4 | 1.0 | 18.0 | 15.6 | 1 | 1 | 12.9 | 13.3 |
| 45 | 88014 | High yield | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 7 | 7 | 1.6 | 1.3 | 20.3 | 15.4 | 1 | 1 | 10.2 | 14.2 |
| 46 | 88015 | High yield | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 7 | 1.5 | 1.1 | 18.2 | 16.0 | 1 | 1 | 12.6 | 13.8 |
| 47 | 89002 | High yield | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 3 | 3 | 6 | 6 | 4 | 4 | 1.5 | 1.0 | 18.2 | 13.8 | 1 | 1 | 15.7 | 17.3 |
| 48 | 90002 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.4 | 1.1 | 19.9 | 15.3 | 2 | 1 | 8.2 | 12.7 |
| 49 | 90004 | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 1 | 1.6 | 1.1 | 22.6 | 16.8 | 1 | 1 | 12.0 | 13.3 |
| 50 | 91004 | High yield | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 5 | 1.6 | 1.3 | 18.3 | 17.1 | 2 | 1 | 5.1 | 11.1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 296 B | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.1 | 20.7 | 16.0 | 2 | 1 | 8.1 | 15.8 |
| Mean | | | | | | | | | | | | | | | | | 1.45 | 1.09 | 18.71 | 15.75 | | | 9.03 | 14.00 |
| SE ± | | | | | | | | | | | | | | | | | 0.04 | 0.03 | 0.90 | 0.92 | | | 1.00 | 1.10 |
| CV (%) | | | | | | | | | | | | | | | | | 5.17 | 4.21 | 8.37 | 10.15 | | | 19.15 | 13.67 |
| CD (5%) | | | | | | | | | | | | | | | | | 0.12 | 0.10 | 2.55 | 2.65 | | | 2.82 | 3.10 |

Annexure I-2. … Contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 2 | High yield | 73.1 | 63.0 | 7.4 | 6.3 | 23.8 | 21.4 | 5.2 | 4.9 | 7 | 7 | 3 | 3 | 4.1 | 6.8 | 50 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 3 | High yield | 79.2 | 55.1 | 8.8 | 6.2 | 31.2 | 22.8 | 7.4 | 5.0 | 5 | 5 | 3 | 3 | 0.0 | 4.7 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 15 | High yield | 72.7 | 59.9 | 7.7 | 6.7 | 35.7 | 26.9 | 8.1 | 7.7 | 5 | 5 | 3 | 3 | 5.2 | 9.2 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 17 | High yield | 66.7 | 59.7 | 8.9 | 6.9 | 32.6 | 25.0 | 8.5 | 6.7 | 5 | 5 | 3 | 3 | 13.0 | 14.9 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 19 | High yield | 76.9 | 58.4 | 9.1 | 6.4 | 25.8 | 21.3 | 6.4 | 5.4 | - | 7 | - | 3 | 12.0 | 14.4 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 20 | High yield | 73.1 | 61.7 | 7.1 | 6.8 | 28.2 | 23.9 | 6.9 | 5.4 | 7 | 7 | 3 | 3 | 14.8 | 16.9 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 23 | High yield | 75.4 | 56.9 | 7.7 | 6.4 | 32.4 | 27.7 | 6.9 | 6.3 | 5 | 5 | 3 | 3 | 0.2 | 6.4 | 50 | 42 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 24 | High yield | 69.1 | 63.0 | 8.4 | 7.2 | 32.1 | 24.9 | 6.8 | 5.7 | 5 | 7 | 3 | 3 | 5.9 | 8.2 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 29 | High yield | 67.2 | 57.0 | 8.3 | 5.6 | 27.3 | 19.7 | 7.6 | 4.7 | - | 7 | - | 3 | 11.9 | 17.8 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 34 | High yield | 73.6 | 57.6 | 9.0 | 6.8 | 29.8 | 22.9 | 7.9 | 6.4 | 5 | 7 | 3 | 3 | 11.0 | 12.7 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 41 | High yield | 65.2 | 50.0 | 8.1 | 6.3 | 33.6 | 26.9 | 7.4 | 5.9 | 5 | 7 | 3 | 3 | 14.2 | 15.0 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 47 | High yield | 68.9 | 55.4 | 7.8 | 5.3 | 28.7 | 22.8 | 8.0 | 5.4 | 5 | 5 | 3 | 3 | 2.9 | 6.9 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 54 | High yield | 68.0 | 51.7 | 8.7 | 6.1 | 21.8 | 18.0 | 6.8 | 3.2 | 7 | 7 | 3 | 3 | 6.1 | 11.0 | 42 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 59 | High yield | 67.1 | 51.7 | 7.3 | 5.7 | 29.2 | 21.6 | 7.7 | 5.9 | 5 | 5 | 3 | 3 | 0.2 | 13.9 | 50 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 67 | High yield | 68.3 | 57.3 | 7.3 | 6.4 | 25.7 | 21.3 | 5.3 | 4.6 | 7 | 7 | 3 | 3 | 10.4 | 14.2 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 82 | High yield | 62.8 | 60.3 | 7.3 | 6.7 | 23.7 | 21.0 | 7.3 | 4.9 | 5 | 7 | 3 | 3 | 3.6 | 3.8 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 94 | High yield | 68.8 | 62.4 | 8.8 | 6.6 | 21.6 | 18.1 | 5.0 | 3.6 | 7 | 9 | 3 | 3 | 1.2 | 4.6 | 50 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 617 | Early | 59.1 | 51.1 | 7.4 | 6.4 | 25.6 | 21.1 | 9.3 | 5.9 | 5 | 7 | 3 | 3 | 4.8 | 10.1 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 618 | Early | 65.0 | 50.7 | 8.9 | 6.7 | 27.0 | 21.9 | 6.4 | 4.8 | 7 | 7 | 3 | 3 | 13.7 | 14.2 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 620 | Early | 64.1 | 53.8 | 7.3 | 5.7 | 18.4 | 16.0 | 5.2 | 4.7 | 5 | 5 | 4 | 4 | 13.7 | 12.2 | 50 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 621 | Early | 71.4 | 59.1 | 7.7 | 5.8 | 25.1 | 17.2 | 6.1 | 4.0 | 7 | 7 | 3 | 3 | 11.2 | 13.9 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 626 | Early | 67.6 | 56.4 | 7.8 | 5.7 | 27.4 | 18.4 | 6.9 | 4.3 | 5 | 7 | 3 | 3 | 11.4 | 22.0 | 33 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 637 | Early | 62.4 | 55.2 | 7.1 | 6.6 | 28.8 | 20.6 | 8.1 | 5.6 | 5 | 5 | 3 | 3 | 5.7 | 9.9 | 50 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 638 | Durra | 69.2 | 61.0 | 8.6 | 7.5 | 22.8 | 19.7 | 6.4 | 5.1 | 5 | 7 | 3 | 3 | 5.4 | 14.7 | 42 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 639 | Durra | 70.0 | 56.2 | 8.3 | 5.8 | 28.3 | 19.8 | 6.4 | 4.2 | 7 | 7 | 3 | 3 | 5.1 | 17.4 | 38 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 640 | Durra | 66.9 | 55.0 | 9.8 | 6.3 | 27.2 | 18.8 | 7.0 | 3.6 | 5 | 7 | 3 | 3 | 8.7 | 17.0 | 25 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 643 | Durra | 62.3 | 54.6 | 7.4 | 5.8 | 21.9 | 18.1 | 5.8 | 4.2 | 5 | 7 | 3 | 4 | 5.0 | 7.6 | 42 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 645 | Durra | 67.1 | 63.7 | 6.7 | 5.9 | 23.8 | 20.7 | 5.4 | 4.7 | 7 | 7 | 3 | 4 | 6.0 | 12.4 | 50 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 646 | Durra | 62.7 | 62.2 | 7.2 | 5.8 | 23.3 | 19.0 | 5.7 | 4.8 | 5 | 7 | 3 | 4 | 3.2 | 8.3 | 42 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 648 | Durra | 61.2 | 61.0 | 7.8 | 6.0 | 25.0 | 19.1 | 6.1 | 4.9 | 5 | 7 | 3 | 3 | 1.8 | 9.2 | 42 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 649 | Durra | 70.8 | 57.4 | 8.1 | 6.6 | 24.6 | 18.6 | 5.1 | 3.7 | 7 | 7 | 3 | 4 | 0.0 | 4.4 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 650 | Durra | 63.8 | 61.1 | 7.1 | 6.3 | 22.8 | 17.4 | 5.3 | 4.0 | 5 | 7 | 3 | 3 | 2.3 | 8.3 | 50 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |

Annexure I-2. … Contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 33 | 658 | Durra | 77.4 | 63.1 | 8.2 | 7.1 | 24.6 | 21.2 | 6.6 | 4.4 | 7 | 7 | 3 | 3 | 2.4 | 7.7 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 660 | Durra | 67.9 | 52.8 | 8.6 | 6.8 | 26.0 | 18.4 | 9.3 | 5.7 | 5 | 5 | 3 | 3 | 10.1 | 12.7 | 42 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 663 | Durra | 72.8 | 65.0 | 8.9 | 6.7 | 31.8 | 29.0 | 5.5 | 6.2 | 7 | 7 | 3 | 3 | 0.0 | 0.0 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | 665 | Durra | 82.6 | 61.1 | 8.8 | 6.3 | 33.4 | 27.3 | 6.5 | 5.3 | 5 | 5 | 3 | 3 | 4.2 | 3.4 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 37 | 666 | Durra | 67.0 | 58.2 | 8.2 | 6.1 | 24.6 | 19.2 | 6.5 | 3.3 | 5 | 5 | 3 | 3 | 17.0 | 20.2 | 50 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 668 | Durra | 76.7 | 61.2 | 8.4 | 6.7 | 28.3 | 18.9 | 6.1 | 4.8 | 5 | 5 | 3 | 3 | 6.8 | 11.4 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 88004 | High yield | 66.1 | 54.8 | 8.4 | 5.9 | 32.6 | 23.9 | 9.0 | 5.8 | 5 | 7 | 3 | 3 | 3.3 | 18.1 | 50 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 88005 | High yield | 70.7 | 57.8 | 7.6 | 6.0 | 31.0 | 24.4 | 8.1 | 6.0 | 5 | 5 | 3 | 3 | 15.0 | 14.1 | 50 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 88006 | High yield | 73.7 | 55.8 | 9.7 | 6.2 | 35.1 | 25.7 | 11.2 | 8.1 | 5 | 5 | 3 | 3 | 11.0 | 20.7 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 88008 | High yield | 64.1 | 53.1 | 9.1 | 5.9 | 33.2 | 24.4 | 7.9 | 4.8 | 5 | 7 | 3 | 3 | 5.8 | 14.8 | 58 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 88009 | High yield | 65.1 | 55.7 | 8.0 | 6.5 | 29.8 | 22.3 | 8.2 | 6.6 | 5 | 5 | 3 | 3 | 19.1 | 18.4 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 88012 | High yield | 61.2 | 53.3 | 7.6 | 6.7 | 30.6 | 22.4 | 9.0 | 5.4 | 5 | 5 | 3 | 3 | 9.4 | 6.8 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 88014 | High yield | 72.4 | 60.1 | 8.6 | 7.5 | 34.0 | 23.6 | 10.7 | 6.2 | 5 | 7 | 3 | 3 | 4.7 | 15.6 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 46 | 88015 | High yield | 76.7 | 60.7 | 8.2 | 6.9 | 29.9 | 23.0 | 6.9 | 5.1 | 5 | 7 | 3 | 3 | 4.3 | 8.9 | 58 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 89002 | High yield | 72.1 | 60.4 | 8.4 | 6.6 | 26.8 | 18.0 | 8.9 | 5.3 | 5 | 7 | 3 | 3 | 8.4 | 12.6 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 90002 | High yield | 59.8 | 52.6 | 7.9 | 5.9 | 33.6 | 25.4 | 8.4 | 4.9 | 5 | 7 | 3 | 3 | 8.2 | 21.3 | 33 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 90004 | High yield | 67.4 | 57.8 | 7.7 | 6.3 | 23.4 | 17.6 | 6.8 | 4.1 | 7 | 7 | 3 | 3 | 0.0 | 4.3 | 33 | 33 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 91004 | High yield | 70.8 | 59.9 | 7.8 | 5.7 | 28.3 | 24.3 | 7.8 | 6.0 | 5 | 5 | 3 | 3 | 10.1 | 12.4 | 33 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 296 B | High yield | 74.6 | 59.4 | 8.2 | 6.8 | 31.9 | 24.0 | 5.9 | 5.0 | 7 | 7 | 3 | 3 | 0.0 | 5.1 | 25 | 25 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | | 68.97 | 57.65 | 8.11 | 6.37 | 27.94 | 21.80 | 7.20 | 5.20 | | | | | 6.83 | 11.42 | 35.25 | 27.12 | 1 | 1 | 1 | 1 | 1 | 1 |
| SE ± | | | 3.15 | 2.92 | 0.39 | 0.40 | 0.96 | 0.93 | 0.45 | 0.38 | | | | | 0.72 | 0.94 | 5.16 | 3.94 | 1 | 1 | 1 | 1 | 1 | 1 |
| CV (%) | | | 7.92 | 8.76 | 8.41 | 10.80 | 5.97 | 7.43 | 10.73 | 12.64 | | | | | 18.20 | 14.26 | 25.35 | 25.14 | 1 | 1 | 1 | 1 | 1 | 1 |
| CD (5%) | | | 8.88 | 8.50 | 1.11 | 1.12 | 2.71 | 2.65 | 1.26 | 1.17 | | | | | 2.02 | 2.33 | 14.74 | 12.97 | 1 | 1 | 1 | 1 | 1 | 1 |

Annexure I-2. … Contd.

| Trait number → | | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 2 | High yield | 8 | 25.74 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 6 | 2.0 | 2.3 | 1.3 | 1.3 | 2.7 | 1.7 | 3.9 | 3.5 | 2.9 | 2.6 |
| 2 | 3 | High yield | 1 | 30.03 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 2.3 | 2.0 | 2.3 | 2.0 | 1.3 | 2.0 | 4.4 | 2.8 | 3.3 | 2.3 |
| 3 | 15 | High yield | 8 | 24.89 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 8 | 2.3 | 2.0 | 2.7 | 3.0 | 1.7 | 1.7 | 3.4 | 3.1 | 2.5 | 2.4 |
| 4 | 17 | High yield | 1 | 27.43 | 3 | 3 | 7 | 3 | 3 | 7 | 6 | 8 | 2.7 | 2.0 | 3.0 | 3.3 | 2.7 | 2.3 | 3.3 | 3.7 | 2.3 | 2.5 |
| 5 | 19 | High yield | 1 | 30.67 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 2.7 | 1.0 | 2.7 | 4.0 | 4.1 | 2.9 | 3.4 |
| 6 | 20 | High yield | 1 | 30.03 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 2.0 | 3.0 | 2.7 | 1.7 | 2.3 | 2.0 | 3.7 | 4.7 | 3.1 | 4.1 |
| 7 | 23 | High yield | 1 | 26.01 | 3 | 3 | 5 | 7 | 3 | 5 | 4 | 7 | 1.7 | 2.0 | 3.0 | 2.3 | 2.7 | 2.0 | 3.2 | 4.0 | 2.0 | 3.1 |
| 8 | 24 | High yield | 1 | 26.57 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 2.3 | 2.3 | 3.0 | 2.3 | 2.7 | 2.0 | 3.3 | 4.3 | 2.6 | 3.4 |
| 9 | 29 | High yield | 8 | 26.81 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.3 | 3.0 | 2.7 | 2.5 | 2.3 | 3.5 | 4.4 | 2.7 | 3.6 |
| 10 | 34 | High yield | 8 | 27.98 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 1.7 | 2.3 | 3.3 | 3.0 | 1.7 | 2.0 | 3.7 | 3.9 | 2.8 | 3.2 |
| 11 | 41 | High yield | 8 | 30.41 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.3 | 3.3 | 2.7 | 1.7 | 3.0 | 2.7 | 3.2 | 2.8 | 2.4 | 2.0 |
| 12 | 47 | High yield | 8 | 22.27 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.7 | 3.3 | 2.3 | 2.7 | 2.3 | 3.0 | 3.5 | 2.3 | 2.8 |
| 13 | 54 | High yield | 8 | 28.17 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 2.7 | 2.7 | 2.0 | 2.3 | 2.0 | 3.1 | 3.8 | 2.3 | 3.2 |
| 14 | 59 | High yield | 1 | 27.12 | 3 | 3 | 5 | 5 | 3 | 3 | 5 | 7 | 2.3 | 2.0 | 3.0 | 3.0 | 2.3 | 2.3 | 2.9 | 3.1 | 2.2 | 2.4 |
| 15 | 67 | High yield | 8 | 27.88 | 3 | 3 | 5 | 5 | 3 | 5 | 7 | 8 | 2.0 | 2.7 | 3.0 | 3.7 | 2.7 | 2.0 | 3.3 | 3.5 | 2.5 | 2.7 |
| 16 | 82 | High yield | 8 | 29.38 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 2.3 | 2.3 | 3.3 | 2.7 | 1.7 | 1.0 | 3.7 | 4.9 | 2.8 | 4.0 |
| 17 | 94 | High yield | 8 | 32.77 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 3.0 | 2.3 | 2.0 | 1.3 | 1.3 | 4.6 | 4.8 | 3.1 | 3.5 |
| 18 | 617 | Early | 1 | 30.69 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.0 | 2.7 | 2.3 | 2.0 | 2.7 | 2.3 | 2.6 | 3.4 | 1.8 | 2.2 |
| 19 | 618 | Early | 1 | 34.07 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 2.7 | 2.7 | 2.0 | 1.3 | 2.0 | 2.0 | 3.3 | 2.8 | 2.6 | 2.2 |
| 20 | 620 | Early | 8 | 40.79 | 3 | 3 | 7 | 5 | 3 | 5 | 4 | 6 | 3.0 | 2.7 | 2.0 | 1.0 | 1.7 | 2.0 | 4.1 | 4.1 | 3.2 | 3.4 |
| 21 | 621 | Early | 8 | 35.30 | 3 | 3 | 7 | 5 | 3 | 7 | 5 | 7 | 3.0 | 1.7 | 1.7 | 1.3 | 2.3 | 2.3 | 3.6 | 3.2 | 2.7 | 2.4 |
| 22 | 626 | Early | 9 | 32.38 | 2 | 2 | 5 | 5 | 4 | 5 | 4 | 6 | 2.0 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.5 | 3.4 | 2.8 | 2.5 |
| 23 | 637 | Early | 9 | 28.69 | 2 | 2 | 5 | 5 | 4 | 5 | 6 | 7 | 3.0 | 2.7 | 3.0 | 2.3 | 3.0 | 2.0 | 2.8 | 3.6 | 2.0 | 3.1 |
| 24 | 638 | Durra | 8 | 30.40 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 1.7 | 2.0 | 2.3 | 2.7 | 2.0 | 2.0 | 4.6 | 4.3 | 3.5 | 3.4 |
| 25 | 639 | Durra | 1 | 41.19 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 6 | 3.0 | 2.3 | 2.0 | 1.7 | 1.0 | 2.0 | 4.2 | 2.7 | 3.0 | 2.2 |
| 26 | 640 | Durra | 8 | 40.56 | 3 | 3 | 7 | 7 | 3 | 1 | 6 | 7 | 3.0 | 2.7 | 2.3 | 2.3 | 1.3 | 2.3 | 4.5 | 1.7 | 3.3 | 1.2 |
| 27 | 643 | Durra | 1 | 40.02 | 3 | 3 | 7 | 5 | 3 | 1 | 5 | 7 | 2.7 | 3.0 | 2.7 | 2.7 | 1.3 | 2.0 | 4.0 | 3.7 | 3.0 | 3.2 |
| 28 | 645 | Durra | 8 | 38.63 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 7 | 3.3 | 3.0 | 2.3 | 3.3 | 1.7 | 2.0 | 4.3 | 4.8 | 3.1 | 3.3 |
| 29 | 646 | Durra | 8 | 37.88 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 2.3 | 3.0 | 3.0 | 3.3 | 1.3 | 1.3 | 3.9 | 4.3 | 2.9 | 3.5 |
| 30 | 648 | Durra | 8 | 39.30 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.3 | 2.7 | 3.0 | 2.3 | 2.0 | 2.0 | 3.8 | 4.6 | 2.8 | 3.5 |
| 31 | 649 | Durra | 8 | 31.38 | 3 | 3 | 5 | 5 | 3 | 1 | 7 | 7 | 3.0 | 2.0 | 2.3 | 2.7 | 1.3 | 1.3 | 5.5 | 4.7 | 4.0 | 3.8 |
| 32 | 650 | Durra | 8 | 30.12 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 3.3 | 3.0 | 2.3 | 2.0 | 3.8 | 4.4 | 2.9 | 3.6 |

Annexure I-2. … Contd.

| Trait number → | | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 33 | 658 | Durra | 8 | 28.49 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 6 | 2.7 | 2.7 | 2.3 | 1.7 | 1.0 | 1.0 | 4.7 | 6.0 | 3.4 | 4.6 |
| 34 | 660 | Durra | 8 | 29.57 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.7 | 2.7 | 2.3 | 2.7 | 2.0 | 2.0 | 4.0 | 3.8 | 3.2 | 3.1 |
| 35 | 663 | Durra | 8 | 30.80 | 3 | 3 | 5 | 7 | 3 | 1 | 7 | 9 | 3.0 | 3.0 | 3.7 | 5.0 | 1.0 | 1.0 | 4.2 | 3.3 | 2.9 | 2.3 |
| 36 | 665 | Durra | 8 | 33.37 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 8 | 3.0 | 2.7 | 3.3 | 3.0 | 1.3 | 1.7 | 3.8 | 2.9 | 2.5 | 1.8 |
| 37 | 666 | Durra | 8 | 34.60 | 3 | 3 | 5 | 5 | 3 | 7 | 4 | 7 | 2.3 | 2.7 | 2.0 | 1.3 | 2.3 | 2.3 | 2.9 | 2.4 | 2.1 | 1.8 |
| 38 | 668 | Durra | 1 | 36.84 | 3 | 3 | 5 | 5 | 3 | 7 | 6 | 8 | 2.3 | 2.0 | 2.7 | 2.3 | 1.7 | 2.3 | 4.1 | 3.5 | 2.9 | 2.8 |
| 39 | 88004 | High yield | 8 | 27.44 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 3.0 | 2.7 | 2.0 | 2.3 | 1.3 | 1.7 | 4.3 | 3.6 | 3.2 | 2.5 |
| 40 | 88005 | High yield | 1 | 29.99 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 2.7 | 3.3 | 2.7 | 1.7 | 2.3 | 2.3 | 3.7 | 3.0 | 3.0 | 2.1 |
| 41 | 88006 | High yield | 8 | 31.58 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 3.3 | 3.0 | 2.7 | 2.3 | 1.3 | 2.3 | 4.5 | 3.3 | 3.3 | 2.2 |
| 42 | 88008 | High yield | 1 | 27.87 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 2.7 | 2.7 | 2.7 | 2.0 | 3.8 | 2.9 | 2.9 | 2.4 |
| 43 | 88009 | High yield | 1 | 27.46 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 2.0 | 1.7 | 3.0 | 2.7 | 3.0 | 3.4 | 2.2 | 2.7 |
| 44 | 88012 | High yield | 1 | 29.74 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 2.0 | 2.0 | 2.7 | 2.7 | 2.0 | 2.0 | 4.1 | 2.8 | 3.2 | 2.3 |
| 45 | 88014 | High yield | 1 | 26.91 | 2 | 2 | 5 | 3 | 3 | 7 | 5 | 7 | 2.0 | 2.3 | 2.3 | 1.0 | 1.0 | 1.7 | 4.8 | 3.8 | 3.7 | 2.5 |
| 46 | 88015 | High yield | 1 | 32.78 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 6 | 2.3 | 2.7 | 2.0 | 1.0 | 1.0 | 2.0 | 4.1 | 4.8 | 3.3 | 3.8 |
| 47 | 89002 | High yield | 8 | 24.55 | 3 | 3 | 5 | 5 | 3 | 1 | 4 | 7 | 1.7 | 2.0 | 3.0 | 2.7 | 1.0 | 2.0 | 4.4 | 3.2 | 3.3 | 2.3 |
| 48 | 90002 | High yield | 1 | 27.95 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.7 | 2.0 | 2.0 | 2.3 | 1.7 | 3.8 | 3.2 | 3.2 | 2.5 |
| 49 | 90004 | High yield | 8 | 20.05 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.0 | 2.0 | 2.7 | 2.0 | 1.0 | 2.7 | 3.3 | 3.3 | 2.4 | 2.5 |
| 50 | 91004 | High yield | 1 | 29.35 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 3.3 | 3.3 | 2.0 | 2.3 | 2.0 | 2.0 | 4.9 | 3.6 | 4.0 | 2.8 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 296 B | High yield | 8 | 26.91 | 3 | 3 | 5 | 7 | 3 | 1 | 6 | 7 | 2.7 | 3.0 | 3.0 | 2.3 | 1.3 | 1.7 | 4.4 | 3.4 | 3.0 | 1.9 |
| Mean | | | | 30.51 | | | | | | | 5 | 7 | 2.53 | 2.53 | 2.57 | 2.25 | 1.91 | 2.01 | 3.86 | 3.67 | 2.89 | 2.83 |
| SE ± | | | | 0.94 | | | | | | | 0.43 | 0.24 | 0.31 | 0.29 | 0.28 | 0.30 | 0.28 | 0.26 | 0.34 | 0.28 | 0.28 | 0.23 |
| CV (%) | | | | 5.33 | | | | | | | 14.30 | 6.03 | 21.32 | 19.62 | 18.83 | 23.19 | 25.15 | 22.79 | 15.09 | 13.35 | 17.02 | 14.38 |
| CD (5%) | | | | 2.64 | | | | | | | 1.20 | 0.96 | 0.87 | 0.84 | 0.78 | 0.82 | 0.79 | 0.77 | 0.94 | 1.01 | 0.80 | 0.86 |

Annexure I-2. … Contd.

| Trait number ⟶ | | | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature | Seed set % in A-line under open pollination | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | | Summer | Postrainy | Postrainy | Postrainy | Postrainy |
| 1 | 2 | High yield | 0 | - | Tan | Thin | 7.4 |
| 2 | 3 | High yield | 0 | - | Tan | Thin | 9.8 |
| 3 | 15 | High yield | 0 | - | Tan | Thick | 7.3 |
| 4 | 17 | High yield | 0 | - | Tan | Thin | 7.2 |
| 5 | 19 | High yield | 0 | - | Tan | Thick | 7.8 |
| 6 | 20 | High yield | 0 | - | Tan | Thick | 13 |
| 7 | 23 | High yield | 0 | - | Tan | Thick | 9.9 |
| 8 | 24 | High yield | 0 | - | Tan | Thick | 7 |
| 9 | 29 | High yield | 0 | - | Tan | Thin | 6.2 |
| 10 | 34 | High yield | 0 | - | Tan | Thick | 7.1 |
| 11 | 41 | High yield | 0 | - | Tan | Thin | 8.9 |
| 12 | 47 | High yield | 0 | - | Tan | Thin | 5.3 |
| 13 | 54 | High yield | 0 | - | Tan | Thin | 5.5 |
| 14 | 59 | High yield | 0 | - | Tan | Thin | 6.9 |
| 15 | 67 | High yield | 0 | - | Tan | Thin | 8.2 |
| 16 | 82 | High yield | 0 | - | Tan | Thin | 7.9 |
| 17 | 94 | High yield | 0 | - | Tan | Thin | 8.4 |
| 18 | 617 | Early | 0 | 80 | Tan | - | - |
| 19 | 618 | Early | 0 | 60 | Non tan | - | - |
| 20 | 620 | Early | 0 | 50 | Tan | - | - |
| 21 | 621 | Early | 0 | - | Tan | - | - |
| 22 | 626 | Early | 0 | 50 | Non tan | - | - |
| 23 | 637 | Early | 0 | 25 | Non tan | - | - |
| 24 | 638 | Durra | 0 | 60 | Non tan | - | - |
| 25 | 639 | Durra | 0 | 80 | Non tan | - | - |
| 26 | 640 | Durra | 0 | - | Non tan | - | - |
| 27 | 643 | Durra | 0 | 55 | Non tan | - | - |
| 28 | 645 | Durra | 0 | - | Non tan | - | - |
| 29 | 646 | Durra | 0 | 50 | Non tan | - | - |
| 30 | 648 | Durra | 0 | 15 | Non tan | - | - |
| 31 | 649 | Durra | 10 | 10 | Non tan | - | - |
| 32 | 650 | Durra | 0 | 60 | Non tan | - | - |

Annexure I-2. … Contd.

| Trait number → | | | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature | Seed set % in A-line under open pollination | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | | Summer | Postrainy | Postrainy | Postrainy | Postrainy |
| 33 | 658 | Durra | 0 | 65 | Tan | - | - |
| 34 | 660 | Durra | 0 | 55 | Tan | - | - |
| 35 | 663 | Durra | 0 | 45 | Tan | - | - |
| 36 | 665 | Durra | 0 | 30 | Tan | - | - |
| 37 | 666 | Durra | 0 | 40 | Tan | - | - |
| 38 | 668 | Durra | 0 | 85 | Tan | - | - |
| 39 | 88004 | High yield | 0 | - | - | - | - |
| 40 | 88005 | High yield | 0 | - | - | - | - |
| 41 | 88006 | High yield | 0 | - | - | - | - |
| 42 | 88008 | High yield | 0 | - | - | - | - |
| 43 | 88009 | High yield | 0 | - | - | - | - |
| 44 | 88012 | High yield | 10 | - | - | - | - |
| 45 | 88014 | High yield | 0 | - | - | - | - |
| 46 | 88015 | High yield | 0 | - | - | - | - |
| 47 | 89002 | High yield | 0 | - | - | - | - |
| 48 | 90002 | High yield | 0 | - | - | - | - |
| 49 | 90004 | High yield | 0 | - | - | - | - |
| 50 | 91004 | High yield | 0 | - | - | - | - |
| Control | | | | | | | |
| 51 | 296 B | High yield | - | - | - | - | - |
| Mean | | | - | - | - | - | - |
| SE ± | | | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - |

Annexure I-3. Characteristics of disease resistant (early maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 208 | DM-R | 1 | 1 | 1 | 3 | 2 | 2 | 66 | 76 | 1.4 | 0.9 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 268 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 76 | 1.2 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 311 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 79 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 329 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 74 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 363 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 66 | 76 | 1.4 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 364 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 66 | 81 | 1.7 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 373 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 83 | 1.5 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 375 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 82 | 1.6 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 380 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 71 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 385 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 81 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 386 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 77 | 1.4 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 388 | GM-R | 1 | 2 | 3 | 1 | 2 | 2 | 66 | 79 | 1.6 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 390 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 99 | 1.5 | 1.5 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 408 | GM-R | 2 | 2 | 1 | 3 | 2 | 2 | 62 | 76 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 296B | High yield | 2 | 1 | 3 | 1 | 2 | 2 | 76 | 95 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 68 | 81 | 1.42 | 1.06 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 0.74 | 1.19 | 0.13 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 1.88 | 2.54 | 15.64 | 5.69 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 2.17 | 3.06 | 0.38 | 0.27 | - | - | - | - | - | - | - | - | - | - |

AN- Anthracnose; DM- Downy mildew; LB= Leaf blight; RU- Rust; GM- Grain mold; R- Resistant.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-56 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-3. … Contd.

| Trait number ⟶ | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 208 | DM-R | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 2 | 1.8 | 1.2 | 18.4 | 14.0 | 1 | 1 | 13.0 | 14.8 |
| 2 | 268 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 6 | 6 | 2 | 2 | 1.4 | 1.1 | 18.4 | 16.6 | 1 | 1 | 6.9 | 12.0 |
| 3 | 311 | LB-R | 1 | 1 | 5 | 1 | 3 | 3 | 7 | 5 | 7 | 7 | 7 | 4 | 4 | 2 | 1.2 | 0.9 | 18.0 | 17.3 | 1 | 1 | 20.7 | 16.9 |
| 4 | 329 | RU-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 1.6 | 1.3 | 18.7 | 18.3 | 1 | 1 | 13.3 | 12.1 |
| 5 | 363 | GM-R | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 3 | 5 | 4 | 4 | 5 | 5 | 1.8 | 1.4 | 17.4 | 15.7 | 2 | 1 | 6.9 | 8.6 |
| 6 | 364 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 3 | 5 | 3 | 5 | 4 | 4 | 5 | 5 | 1.8 | 1.5 | 16.5 | 15.0 | 1 | 1 | 9.7 | 9.9 |
| 7 | 373 | GM-R | 1 | 1 | 7 | 7 | 3 | 3 | 3 | 5 | 5 | 5 | 7 | 4 | 7 | 7 | 2.0 | 1.7 | 15.1 | 15.8 | 1 | 1 | 6.8 | 10.9 |
| 8 | 375 | GM-R | 1 | 1 | 7 | 7 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 7 | 3 | 1.9 | 1.6 | 15.7 | 16.7 | 1 | 1 | 9.3 | 8.9 |
| 9 | 380 | GM-R | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 5 | 1.8 | 1.4 | 15.2 | 11.8 | 1 | 1 | 6.7 | 11.6 |
| 10 | 385 | GM-R | 1 | 1 | 7 | 7 | 3 | 3 | 3 | 3 | 3 | 5 | 7 | 7 | 7 | 3 | 1.3 | 1.1 | 16.6 | 16.6 | 2 | 1 | 6.1 | 15.8 |
| 11 | 386 | GM-R | 1 | 1 | 7 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 7 | 7 | 3 | 3 | 1.8 | 1.5 | 15.5 | 14.1 | 1 | 1 | 6.8 | 11.2 |
| 12 | 388 | GM-R | - | 1 | 5 | 5 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 7 | 3 | 2.0 | 1.7 | 15.3 | 14.7 | 2 | 1 | 6.3 | 12.8 |
| 13 | 390 | GM-R | 1 | 1 | 7 | 7 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 7 | 2.0 | 2.0 | 14.9 | 18.5 | 2 | 1 | 10.0 | 17.0 |
| 14 | 408 | GM-R | 1 | 1 | 7 | 7 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 3 | 1.7 | 1.3 | 14.2 | 17.8 | 2 | 1 | 7.0 | 13.0 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 296B | High yield | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.0 | 20.0 | 19.4 | 1 | 2 | 10.6 | 14.1 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.80 | 1.40 | 17.22 | 15.84 | - | - | 9.75 | 12.71 |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.04 | 0.04 | 0.95 | 0.73 | - | - | 1.01 | 0.87 |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.04 | 5.20 | 9.52 | 7.96 | - | - | 17.94 | 11.85 |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 | 0.12 | 2.77 | 2.41 | - | - | 2.96 | 2.70 |

Annexure I-3. … Contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 208 | DM-R | 70.8 | 57.7 | 8.8 | 6.3 | 33.8 | 24.8 | 9.4 | 6.1 | 5 | 5 | 3 | 3 | 7.0 | 9.3 | 38 | 42 | 1 | 1 | - | 1 | 1 | 1 |
| 2 | 268 | AN-R | 72.2 | 58.3 | 8.1 | 6.4 | 31.3 | 28.3 | 10.7 | 7.9 | 5 | 5 | 3 | 3 | 10.0 | 15.0 | 42 | 25 | 1 | 1 | - | 1 | 1 | 1 |
| 3 | 311 | LB-R | 73.0 | 62.4 | 8.3 | 6.9 | 23.4 | 18.8 | 5.9 | 4.4 | 7 | 7 | 3 | 3 | 0.3 | 0.3 | 67 | 42 | 1 | 1 | - | 1 | 1 | 1 |
| 4 | 329 | RU-R | 74.7 | 60.1 | 8.7 | 6.7 | 29.3 | 23.7 | 10.8 | 7.0 | 5 | 5 | 3 | 3 | 9.7 | 19.0 | 33 | 42 | 1 | 1 | - | 1 | 1 | 1 |
| 5 | 363 | GM-R | 66.0 | 57.0 | 8.8 | 6.9 | 28.3 | 21.0 | 9.0 | 5.3 | 7 | 7 | 3 | 3 | 13.3 | 16.3 | 25 | 33 | 1 | 1 | - | 1 | 1 | 1 |
| 6 | 364 | GM-R | 71.3 | 59.2 | 8.1 | 6.6 | 28.6 | 21.2 | 7.8 | 4.7 | 7 | 7 | 3 | 3 | 7.0 | 19.3 | 33 | 25 | 1 | 1 | - | 1 | 1 | 1 |
| 7 | 373 | GM-R | 64.2 | 64.6 | 8.4 | 6.9 | 27.8 | 22.9 | 8.2 | 5.4 | 7 | 7 | 3 | 3 | 11.7 | 20.0 | 25 | 42 | 1 | 1 | - | 1 | 1 | 1 |
| 8 | 375 | GM-R | 69.0 | 60.4 | 8.3 | 7.2 | 27.9 | 22.7 | 7.6 | 5.2 | 7 | 7 | 3 | 3 | 11.0 | 18.3 | 25 | 33 | 1 | 1 | - | 1 | 1 | 1 |
| 9 | 380 | GM-R | 68.8 | 53.1 | 7.8 | 5.7 | 28.8 | 22.3 | 8.8 | 5.2 | 5 | 7 | 3 | 3 | 10.3 | 27.0 | 58 | 58 | 1 | 1 | - | 1 | 1 | 1 |
| 10 | 385 | GM-R | 62.7 | 60.3 | 8.6 | 6.6 | 27.8 | 22.4 | 7.3 | 5.2 | 5 | 7 | 3 | 3 | 12.3 | 17.7 | 42 | 42 | 1 | 1 | - | 1 | 1 | 1 |
| 11 | 386 | GM-R | 64.6 | 49.6 | 8.3 | 5.8 | 30.1 | 24.6 | 8.9 | 5.8 | 5 | 7 | 3 | 3 | 12.7 | 19.0 | 33 | 33 | 1 | 1 | - | 1 | 1 | 1 |
| 12 | 388 | GM-R | 64.7 | 57.3 | 8.3 | 6.3 | 30.6 | 24.2 | 7.6 | 5.3 | 5 | 7 | 3 | 3 | 9.3 | 22.3 | 58 | 50 | 1 | 1 | - | 1 | 1 | 1 |
| 13 | 390 | GM-R | 65.7 | 60.7 | 7.6 | 6.9 | 30.3 | 27.8 | 8.1 | 6.1 | 5 | 5 | 3 | 3 | 13.0 | 24.3 | 58 | 50 | 1 | 1 | - | 1 | 1 | 1 |
| 14 | 408 | GM-R | 60.0 | 59.9 | 7.1 | 6.1 | 27.2 | 24.2 | 7.1 | 5.6 | 5 | 7 | 3 | 3 | 6.7 | 10.0 | 33 | 42 | 1 | 1 | - | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 296B | High yield | 65.7 | 63.8 | 7.9 | 6.7 | 29.7 | 25.0 | 7.6 | 5.6 | 7 | 7 | 3 | 3 | 1.0 | 3.3 | 25 | 25 | 1 | 1 | - | 1 | 1 | 1 |
| Mean | | | 66.66 | 57.87 | 8.11 | 6.35 | 28.30 | 22.86 | 8.90 | 5.80 | - | - | - | - | 8.77 | 15.37 | 44 | 41 | - | - | - | - | - | - |
| SE ± | | | 2.75 | 2.31 | 0.32 | 0.29 | 1.04 | 0.78 | 0.60 | 0.39 | - | - | - | - | 0.75 | 1.04 | 6.20 | 5.94 | - | - | - | - | - | - |
| CV (%) | | | 7.14 | 6.93 | 6.73 | 7.99 | 6.36 | 5.92 | 11.69 | 11.58 | - | - | - | - | 14.72 | 11.76 | 24.34 | 25.40 | - | - | - | - | - | - |
| CD (5%) | | | 8.05 | 8.07 | 0.92 | 0.87 | 3.04 | 2.60 | 1.76 | 1.66 | - | - | - | - | 2.18 | 2.73 | 18.17 | 17.92 | - | - | - | - | - | - |

Annexure I-3. … Contd.

| Trait number ⟶ | | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 208 | DM-R | 8 | 25.09 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 2.3 | 2.7 | 3.0 | 2.0 | 2.5 | 2.0 | 3.3 | 2.3 | 2.4 | 1.5 |
| 2 | 268 | AN-R | 8 | 36.02 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 2.7 | 2.7 | 3.0 | 2.0 | 4.1 | 3.0 | 3.0 | 1.9 |
| 3 | 311 | LB-R | 8 | 35.46 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.7 | 3.0 | 2.0 | 3.0 | 3.0 | 2.1 | 2.5 | 1.5 | 1.7 |
| 4 | 329 | RU-R | 8 | 33.77 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.7 | 3.0 | 3.0 | 2.3 | 3.0 | 2.0 | 3.5 | 3.6 | 2.7 | 2.8 |
| 5 | 363 | GM-R | 3 | 31.50 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 8 | 3.3 | 3.0 | 4.3 | 3.3 | 2.0 | 2.0 | 3.8 | 4.4 | 2.9 | 3.5 |
| 6 | 364 | GM-R | 8 | 30.60 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 2.7 | 3.7 | 2.7 | 2.0 | 2.0 | 3.6 | 4.1 | 2.7 | 3.4 |
| 7 | 373 | GM-R | 9 | 34.64 | 2 | 2 | 5 | 3 | 2 | 5 | 5 | 7 | 2.7 | 2.7 | 2.3 | 2.3 | 2.0 | 1.3 | 3.4 | 5.2 | 2.5 | 4.2 |
| 8 | 375 | GM-R | 9 | 35.05 | 3 | 3 | 5 | 3 | 2 | 5 | 6 | 7 | 3.0 | 2.7 | 3.0 | 2.3 | 2.0 | 1.3 | 3.9 | 5.7 | 3.0 | 4.2 |
| 9 | 380 | GM-R | 8 | 35.24 | 2 | 2 | 7 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.3 | 1.7 | 3.0 | 2.7 | 4.0 | 2.7 | 3.1 | 1.9 |
| 10 | 385 | GM-R | 9 | 29.12 | 2 | 2 | 5 | 3 | 2 | 5 | 6 | 7 | 2.7 | 3.3 | 3.3 | 1.3 | 2.3 | 2.0 | 3.9 | 3.3 | 2.8 | 2.5 |
| 11 | 386 | GM-R | 9 | 33.32 | 3 | 3 | 5 | 3 | 2 | 5 | 6 | 6 | 3.3 | 3.0 | 2.3 | 2.3 | 2.3 | 2.0 | 4.3 | 4.1 | 3.4 | 3.3 |
| 12 | 388 | GM-R | 9 | 29.07 | 3 | 3 | 5 | 3 | 2 | 5 | 6 | 7 | 3.0 | 2.3 | 2.3 | 2.0 | 2.3 | 2.0 | 3.9 | 4.5 | 3.0 | 3.6 |
| 13 | 390 | GM-R | 5 | 25.62 | 2 | 2 | 5 | 3 | 2 | 5 | 5 | 6 | 3.0 | 2.7 | 2.3 | 1.7 | 2.3 | 1.3 | 4.1 | 4.2 | 3.3 | 2.9 |
| 14 | 408 | GM-R | 9 | 37.83 | 3 | 3 | 5 | 5 | 2 | 5 | 5 | 7 | 3.7 | 2.3 | 2.7 | 2.3 | 2.0 | 1.3 | 3.6 | 5.2 | 2.7 | 4.2 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 296B | High yield | 8 | 28.61 | 3 | 3 | 7 | 5 | 3 | 1 | 6 | 8 | 3.0 | 3.0 | 4.0 | 3.0 | 1.7 | 1.0 | 4.7 | 3.8 | 3.2 | 2.4 |
| Mean | | | - | 31.76 | - | - | - | - | - | - | 6 | 7 | 2.86 | 2.68 | 2.92 | 2.23 | 2.47 | 1.95 | 3.93 | 3.68 | 2.94 | 2.72 |
| SE ± | | | - | 1.10 | - | - | - | - | - | - | 0.31 | 0.21 | 0.24 | 0.34 | 0.26 | 0.26 | 0.21 | 0.20 | 0.34 | 0.19 | 0.30 | 0.15 |
| CV (%) | | | - | 5.98 | - | - | - | - | - | - | 9.63 | 5.22 | 14.80 | 22.06 | 15.29 | 20.43 | 15.06 | 17.97 | 15.11 | 9.07 | 17.62 | 9.85 |
| CD (5%) | | | - | 3.13 | - | - | - | - | - | - | 0.88 | 0.73 | 0.70 | 0.86 | 0.74 | 0.72 | 0.63 | 0.62 | 0.98 | 0.92 | 0.85 | 0.78 |

Annexure I-3. … Contd.

| Trait number ⟶ | | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % under high atmospheric temperature in A-line | Seed set % in A-line under open pollination | Downy mildew infected plants% | Anthracnose score for leaf | Anthracnose score for panicle | Leaf blight score | Rust score | Panicle grain mold rating score | Threshed grain mold rating score |
| | | | Summer | Postrainy | Rainy | Rainy | Rainy | Postrainy | Postrainy | Rainy | Rainy |
| 1 | 208 | DM-R | 0 | 25 | 14 | - | - | - | - | - | - |
| 2 | 268 | AN-R | 0 | 25 | - | 3.9 | 6.1 | - | - | - | - |
| 3 | 311 | LB-R | 0 | 30 | - | - | - | 4 | 4 | - | - |
| 4 | 329 | RU-R | 0 | 45 | - | - | - | 5.6 | 4.8 | - | - |
| 5 | 363 | GM-R | 0 | 40 | - | - | - | - | - | 6.1 | 5.7 |
| 6 | 364 | GM-R | 0 | 30 | - | - | - | - | - | 6.6 | 5.3 |
| 7 | 373 | GM-R | 0 | 30 | - | - | - | - | - | 6.5 | 5.3 |
| 8 | 375 | GM-R | 0 | 35 | - | - | - | - | - | 5.9 | 5.8 |
| 9 | 380 | GM-R | 0 | 60 | - | - | - | - | - | 5.7 | 4.9 |
| 10 | 385 | GM-R | 0 | 20 | - | - | - | - | - | 6.8 | 5.7 |
| 11 | 386 | GM-R | 0 | 30 | - | - | - | - | - | 5.4 | 4.6 |
| 12 | 388 | GM-R | 0 | 40 | - | - | - | - | - | 5.6 | 5.1 |
| 13 | 390 | GM-R | 0 | 40 | - | - | - | - | - | 5.2 | 5.5 |
| 14 | 408 | GM-R | 0 | 50 | - | - | - | - | - | 6.4 | 5.9 |
| Control | | | | | | | | | | | |
| 15 | 296B | High yield | - | - | - | - | - | - | - | - | - |
| Mean | | | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - | - |

Annexure I-4. Characteristics of disease resistant (medium maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number → | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 202 | DM-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 76 | 1.3 | 0.9 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 216 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 87 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 217 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 72 | 90 | 1.1 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 218 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 89 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 220 | DM-R | 2 | 1 | 3 | 1 | 2 | 2 | 81 | 95 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 1 |
| 6 | 223 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 97 | 1.2 | 0.7 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 3 | 3 |
| 7 | 224 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 97 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 8 | 225 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 82 | 96 | 1.0 | 0.7 | 5 | 1 | - | 2 | - | 1 | 1 | 1 | 3 | 3 |
| 9 | 226 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 91 | 1.1 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 10 | 227 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 90 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 11 | 228 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 98 | 1.2 | 0.8 | 5 | 1 | - | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 12 | 229 | DM-R | 2 | 2 | 3 | 3 | 2 | 1 | 81 | 99 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 13 | 230 | DM-R | 1 | 2 | 3 | 3 | 2 | 2 | 81 | 86 | 1.2 | 0.9 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 231 | DM-R | 2 | 2 | 1 | 3 | 2 | 2 | 79 | 88 | 1.2 | 0.8 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 5 | 3 |
| 15 | 245 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 97 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 16 | 249 | DM-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 90 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 17 | 251 | DM-R | 2 | 2 | 3 | 3 | 2 | 1 | 76 | 92 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 18 | 252 | DM-R | 2 | 2 | 3 | 3 | 2 | 1 | 73 | 91 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| 19 | 253 | DM-R | 2 | 1 | 3 | 1 | 2 | 2 | 72 | 89 | 1.0 | 0.7 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 5 | 5 |
| 20 | 255 | DM-R | 1 | 1 | 1 | 1 | 2 | 1 | 86 | 96 | 1.1 | 0.8 | 5 | 1 | - | 2 | 1 | 1 | 1 | 1 | 3 | 5 |
| 21 | 256 | DM-R | 2 | 1 | 3 | 1 | 2 | 2 | 79 | 93 | 1.3 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 22 | 260 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 73 | 1.0 | 0.9 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 262 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 85 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 263 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 88 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 265 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 91 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 267 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 80 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 270 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 74 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 271 | AN-R | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 87 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 277 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 79 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 278 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 77 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 279 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 77 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 282 | AN-R | 1 | 1 | 1 | 1 | 2 | 1 | 71 | 82 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 283 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 82 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 284 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 80 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

| Trait number → | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 285 | AN-R | 1 | 1 | 1 | 1 | 2 | 1 | 69 | 76 | 0.9 | 0.8 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | 286 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 78 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 37 | 287 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 78 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 288 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 94 | 1.6 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 289 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 80 | 1.1 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 290 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 75 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 291 | AN-R | 1 | 1 | 3 | 1 | 2 | 1 | 69 | 84 | 1.3 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 292 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 80 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 294 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 79 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 295 | AN-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 75 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 296 | LB-R | 1 | 1 | 3 | 1 | 3 | 2 | 69 | 82 | 1.4 | 1.1 | 7 | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 46 | 298 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 78 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 299 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 81 | 1.1 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 302 | LB-R | 1 | 1 | 3 | 1 | 2 | 2 | 70 | 87 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 312 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 73 | 1.0 | 0.9 | 7 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 313 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 80 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 | 314 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 81 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 | 315 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 78 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 316 | LB-R | 2 | 1 | 1 | 1 | 2 | 2 | 72 | 82 | 0.9 | 0.7 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 | 317 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 77 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 55 | 320 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 86 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 56 | 322 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 81 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 57 | 330 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 82 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 58 | 331 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 78 | 1.2 | 0.8 | 3 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 59 | 332 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 80 | 1.2 | 0.9 | 5 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 60 | 335 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 83 | 1.1 | 0.7 | 7 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 61 | 337 | RU-R | 2 | 2 | 3 | 1 | 2 | 2 | 66 | 76 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 62 | 338 | RU-R | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 76 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 63 | 341 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 77 | 1.6 | 1.0 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 64 | 344 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 80 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 65 | 346 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 77 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 66 | 347 | RU-R | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 77 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 67 | 349 | RU-R | 1 | 1 | 1 | 3 | 3 | 3 | 65 | 82 | 1.3 | 1.0 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 68 | 352 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 85 | 1.4 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 69 | 354 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 75 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70 | 356 | GM-R | 1 | 1 | 1 | 1 | 3 | 3 | 64 | 74 | 1.4 | 1.1 | 7 | 7 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 |

| Trait number → | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 71 | 357 | GM-R | 1 | 1 | 1 | 1 | 3 | 3 | 65 | 74 | 1.4 | 1.1 | 7 | 7 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 72 | 359 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 63 | 76 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 73 | 360 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 72 | 1.6 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 74 | 365 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 66 | 75 | 1.3 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75 | 372 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 61 | 74 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 76 | 377 | GM-R | 2 | 2 | 1 | 3 | 2 | 2 | 63 | 79 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 77 | 387 | GM-R | 1 | 1 | 1 | 1 | 3 | 3 | 66 | 77 | 1.3 | 1.1 | 7 | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 78 | 389 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 83 | 1.5 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 79 | 395 | GM-R | 1 | 2 | 1 | 1 | 2 | 2 | 70 | 73 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80 | 397 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 83 | 0.9 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 81 | 398 | GM-R | 1 | 2 | 3 | 3 | 2 | 2 | 72 | 82 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 82 | 399 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 72 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 83 | 407 | GM-R | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 92 | 1.4 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 296B | High yield | 1 | 2 | 1 | 1 | 3 | 2 | 75 | 96 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 71 | 83 | 1.18 | 0.86 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 1.03 | 1.04 | 0.03 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 2.51 | 2.18 | 4.63 | 5.09 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 2.89 | 2.90 | 0.09 | 0.08 | - | - | - | - | - | - | - | - | - | - |

AN- Anthracnose; DM- Downy mildew; LB= Leaf blight; RU- Rust; GM- Grain mold; R- Resistant.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-56 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-4. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 202 | DM-R | 1 | 1 | 7 | 5 | 9 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.8 | 1.2 | 20 | 14.7 | 1 | 1 |
| 2 | 216 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 4 | 4 | 1 | 2 | 1.1 | 0.8 | 22 | 17.9 | 1 | 1 |
| 3 | 217 | DM-R | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 2 | 2 | 1.4 | 1.0 | 19 | 17.9 | 1 | 1 |
| 4 | 218 | DM-R | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 5 | 1.5 | 1.2 | 20 | 18.5 | 1 | 1 |
| 5 | 220 | DM-R | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 2 | 5 | 1.5 | 1.0 | 23 | 19.7 | 1 | 1 |
| 6 | 223 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 7 | 4 | 2 | 2 | 1.5 | 1.0 | 25 | 21.5 | 1 | 1 |
| 7 | 224 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.4 | 1.1 | 23 | 18.9 | 1 | 1 |
| 8 | 225 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.3 | 0.9 | 22 | 17.8 | 1 | 1 |
| 9 | 226 | DM-R | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 2 | 2 | 1.4 | 1.0 | 23 | 17.7 | 1 | 1 |
| 10 | 227 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 1 | 1.3 | 1.0 | 21 | 19.2 | 1 | 1 |
| 11 | 228 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 2 | 2 | 1.4 | 1.0 | 23 | 21.5 | 1 | 2 |
| 12 | 229 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 7 | 4 | 2 | 4 | 1.5 | 1.2 | 23 | 19.7 | 1 | 1 |
| 13 | 230 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.5 | 1.2 | 19 | 18.5 | 1 | 1 |
| 14 | 231 | DM-R | 1 | 1 | 1 | 1 | 9 | 9 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 1 | 1.5 | 1.1 | 19 | 18.8 | 1 | 2 |
| 15 | 245 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 5 | 5 | 1.5 | 1.1 | 21 | 20.7 | 1 | 2 |
| 16 | 249 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 4 | 5 | 1.6 | 1.2 | 17 | 18.7 | 2 | 1 |
| 17 | 251 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.1 | 21 | 19.6 | 1 | 1 |
| 18 | 252 | DM-R | 1 | 1 | 5 | 1 | 5 | 5 | 3 | 3 | 3 | 5 | 4 | 4 | 2 | 2 | 1.5 | 1.1 | 21 | 20.3 | 1 | 1 |
| 19 | 253 | DM-R | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.3 | 1.0 | 20 | 18.3 | 2 | 1 |
| 20 | 255 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 4 | 5 | 1.4 | 1.2 | 24 | 19.3 | 1 | 1 |
| 21 | 256 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.6 | 1.1 | 22 | 19.3 | 1 | 1 |
| 22 | 260 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 2 | 1.4 | 1.1 | 17 | 15.8 | 1 | 1 |
| 23 | 262 | AN-R | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 7 | 1.4 | 1.1 | 19 | 22.0 | 1 | 2 |
| 24 | 263 | AN-R | 1 | 1 | 5 | 1 | 3 | 5 | 7 | 5 | 7 | 7 | 4 | 6 | 7 | 7 | 1.5 | 1.2 | 19 | 19.5 | 2 | 2 |
| 25 | 265 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 7 | 5 | 6 | 6 | 2 | 2 | 1.3 | 1.2 | 20 | 19.7 | 1 | 1 |
| 26 | 267 | AN-R | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 7 | 7 | 6 | 4 | 1 | 1 | 1.4 | 1.1 | 17 | 20.3 | 1 | 1 |
| 27 | 270 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 2 | 1.5 | 1.2 | 18 | 15.4 | 1 | 1 |
| 28 | 271 | AN-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 4 | 1.9 | 1.3 | 19 | 19.6 | 1 | 1 |
| 29 | 277 | AN-R | 1 | 1 | 7 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 2 | 1.4 | 1.1 | 16 | 17.4 | 1 | 1 |
| 30 | 278 | AN-R | 1 | 1 | 7 | 1 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 2 | 2 | 1.3 | 1.1 | 18 | 17.3 | 1 | 1 |
| 31 | 279 | AN-R | 1 | 1 | 7 | 1 | 3 | 3 | 7 | 5 | 7 | 5 | 4 | 7 | 2 | 2 | 1.1 | 0.7 | 17 | 15.3 | 1 | 1 |
| 32 | 282 | AN-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.3 | 1.0 | 17 | 18.8 | 1 | 1 |
| 33 | 283 | AN-R | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 3 | 5 | 5 | 4 | 4 | 4 | 2 | 1.2 | 1.0 | 17 | 17.5 | 1 | 1 |
| 34 | 284 | AN-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 4 | 4 | 1.2 | 1.0 | 16 | 15.8 | 1 | 1 |

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 285 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 4 | 1.3 | 1.0 | 14 | 16.8 | 1 | 1 |
| 36 | 286 | AN-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 4 | 4 | 1.0 | 0.9 | 15 | 17.4 | 1 | 1 |
| 37 | 287 | AN-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 4 | 4 | 1.1 | 0.9 | 17 | 17.9 | 1 | 1 |
| 38 | 288 | AN-R | 1 | 1 | 5 | 1 | 5 | 5 | 7 | 5 | 7 | 5 | 6 | 4 | 4 | 6 | 2.0 | 1.6 | 16 | 19.5 | 1 | 2 |
| 39 | 289 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 2 | 1.4 | 1.1 | 17 | 18.0 | 1 | 1 |
| 40 | 290 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 1.2 | 0.9 | 16 | 15.5 | 1 | 1 |
| 41 | 291 | AN-R | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 3 | 5 | 6 | 4 | 5 | 5 | 1.6 | 1.3 | 16 | 18.4 | 1 | 1 |
| 42 | 292 | AN-R | 1 | 1 | 5 | 1 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 4 | 6 | 2 | 1.4 | 1.1 | 19 | 15.3 | 1 | 1 |
| 43 | 294 | AN-R | 1 | 1 | 7 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.9 | 1.4 | 17 | 17.3 | 1 | 1 |
| 44 | 295 | AN-R | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.4 | 1.1 | 17 | 15.9 | 1 | 1 |
| 45 | 296 | LB-R | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.8 | 1.4 | 18 | 16.8 | 2 | 1 |
| 46 | 298 | LB-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 5 | 1.4 | 1.1 | 18 | 17.2 | 1 | 1 |
| 47 | 299 | LB-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.4 | 1.1 | 17 | 17.6 | 1 | 1 |
| 48 | 302 | LB-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.5 | 1.1 | 20 | 17.9 | 1 | 1 |
| 49 | 312 | LB-R | 1 | 1 | 7 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.2 | 20 | 15.4 | 1 | 1 |
| 50 | 313 | LB-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 4 | 2 | 1.2 | 1.0 | 16 | 16.4 | 1 | 1 |
| 51 | 314 | LB-R | 1 | 1 | 5 | 1 | 5 | 3 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 2 | 1.2 | 1.0 | 18 | 15.2 | 1 | 1 |
| 52 | 315 | LB-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 4 | 4 | 1.1 | 0.9 | 17 | 18.0 | 1 | 1 |
| 53 | 316 | LB-R | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 6 | 4 | 4 | 4 | 1.2 | 0.9 | 18 | 20.0 | 1 | 1 |
| 54 | 317 | LB-R | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 4 | 4 | 4 | 1.1 | 0.9 | 18 | 17.3 | 1 | 1 |
| 55 | 320 | LB-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 7 | 5 | 6 | 6 | 2 | 2 | 1.7 | 1.4 | 20 | 19.1 | 1 | 1 |
| 56 | 322 | LB-R | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 7 | 5 | 4 | 4 | 2 | 2 | 1.5 | 1.0 | 19 | 18.9 | 2 | 1 |
| 57 | 330 | RU-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.1 | 16 | 14.9 | 1 | 1 |
| 58 | 331 | RU-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 1.5 | 1.2 | 17 | 17.9 | 1 | 1 |
| 59 | 332 | RU-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 1.6 | 1.2 | 16 | 17.7 | 1 | 1 |
| 60 | 335 | RU-R | 1 | 1 | 5 | 5 | 9 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.3 | 1.0 | 16 | 16.9 | 2 | 2 |
| 61 | 337 | RU-R | 1 | 1 | 7 | 5 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 2 | 1.1 | 0.9 | 18 | 20.2 | 1 | 1 |
| 62 | 338 | RU-R | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 5 | 2 | 1.2 | 1.0 | 21 | 19.1 | 1 | 1 |
| 63 | 341 | RU-R | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 2 | 2.2 | 1.5 | 18 | 16.2 | 1 | 1 |
| 64 | 344 | RU-R | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.2 | 1.1 | 18 | 16.0 | 1 | 1 |
| 65 | 346 | RU-R | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 1.1 | 0.9 | 16 | 17.8 | 1 | 1 |
| 66 | 347 | RU-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 2 | 1.1 | 0.9 | 17 | 15.0 | 1 | 1 |
| 67 | 349 | RU-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 7 | 1.8 | 1.4 | 16 | 15.6 | 1 | 2 |
| 68 | 352 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 5 | 1.9 | 1.6 | 15 | 15.8 | 2 | 1 |
| 69 | 354 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 3 | 5 | 4 | 4 | 4 | 5 | 1.9 | 1.5 | 16 | 15.0 | 1 | 1 |
| 70 | 356 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 3 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.8 | 1.4 | 13 | 13.8 | 2 | 2 |

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 71 | 357 | GM-R | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.9 | 1.5 | 16 | 15.3 | 2 | 1 |
| 72 | 359 | GM-R | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 2 | 1.3 | 1.0 | 17 | 14.9 | 2 | 2 |
| 73 | 360 | GM-R | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 2.0 | 1.4 | 20 | 13.8 | 1 | 1 |
| 74 | 365 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.8 | 1.5 | 15 | 14.9 | 1 | 1 |
| 75 | 372 | GM-R | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 1.7 | 1.4 | 14 | 12.7 | 2 | 1 |
| 76 | 377 | GM-R | 1 | 1 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 1.7 | 1.4 | 17 | 16.4 | 1 | 1 |
| 77 | 387 | GM-R | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 7 | 7 | 7 | 1.7 | 1.5 | 16 | 16.0 | 2 | 1 |
| 78 | 389 | GM-R | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 7 | 7 | 4 | 7 | 7 | 1.9 | 1.6 | 16 | 16.3 | 2 | 1 |
| 79 | 395 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 5 | 7 | 1.5 | 1.2 | 19 | 16.7 | 2 | 1 |
| 80 | 397 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 1 | 1 | 1.5 | 1.0 | 20 | 19.5 | 1 | 1 |
| 81 | 398 | GM-R | 1 | 1 | 7 | 1 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 7 | 1 | 1 | 1.3 | 0.9 | 22 | 17.6 | 1 | 1 |
| 82 | 399 | GM-R | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.8 | 1.3 | 15 | 15.0 | 1 | 1 |
| 83 | 407 | GM-R | 1 | 1 | 7 | 7 | 3 | 3 | 5 | 5 | 3 | 5 | 7 | 4 | 1 | 2 | 1.9 | 1.6 | 18 | 21.7 | 2 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 296B | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 1 | 1 | 1.4 | 1.0 | 21 | 18.5 | 1 | 2 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.51 | 1.17 | 18 | 17.48 | - | - |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.04 | 0.03 | 1.00 | 0.85 | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.14 | 4.43 | 9.49 | 8.38 | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.10 | 0.09 | 2.80 | 2.61 | - | - |

Annexure I-4. … Contd.

| Trait number → | | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Brix reading (%) | | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 202 | DM-R | 10.0 | 15.2 | 69.6 | 60.2 | 7.6 | 5.8 | 29.4 | 22.6 | 8.1 | 5.2 | 5 | 5 | 3 | 3 | 17.7 | 11.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 2 | 216 | DM-R | 11.4 | 14.4 | 62.9 | 58.3 | 7.8 | 6.3 | 29.0 | 22.1 | 7.3 | 5.0 | 5 | 7 | 3 | 3 | 0.0 | 5.0 | 50.0 | 25.0 | 1 | 1 | 1 | 1 |
| 3 | 217 | DM-R | 10.3 | 11.6 | 63.8 | 55.7 | 8.7 | 6.2 | 25.3 | 17.9 | 5.7 | 4.0 | 7 | 7 | 3 | 3 | 3.3 | 7.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 4 | 218 | DM-R | 12.2 | 13.1 | 69.2 | 59.2 | 7.9 | 6.8 | 25.1 | 22.8 | 6.8 | 5.1 | 5 | 7 | 3 | 3 | 0.0 | 2.3 | 50.0 | 25.0 | 1 | 1 | 1 | 1 |
| 5 | 220 | DM-R | 11.1 | 16.4 | 73.4 | 56.9 | 8.7 | 6.7 | 33.0 | 24.2 | 8.6 | 6.1 | 5 | 7 | 3 | 3 | 0.0 | 0.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 6 | 223 | DM-R | 11.9 | 17.7 | 67.9 | 60.4 | 8.2 | 7.6 | 33.7 | 28.2 | 8.8 | 7.4 | 5 | 5 | 3 | 3 | 0.0 | 0.0 | 50.0 | 25.0 | 1 | 1 | 1 | 1 |
| 7 | 224 | DM-R | 12.0 | 15.6 | 73.0 | 60.4 | 8.9 | 6.6 | 35.0 | 23.7 | 9.2 | 6.2 | 5 | 5 | 3 | 3 | 0.0 | 4.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 8 | 225 | DM-R | 14.7 | 15.1 | 71.9 | 63.7 | 8.0 | 6.6 | 32.3 | 26.8 | 6.8 | 5.8 | 7 | 7 | 3 | 3 | 0.0 | 3.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 9 | 226 | DM-R | 10.6 | 15.8 | 65.7 | 61.7 | 8.9 | 6.8 | 34.9 | 25.7 | 8.1 | 6.1 | 5 | 5 | 3 | 3 | 0.0 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 10 | 227 | DM-R | 13.4 | 17.1 | 70.7 | 60.9 | 8.4 | 6.7 | 33.9 | 25.2 | 8.3 | 6.4 | 5 | 5 | 3 | 3 | 0.0 | 3.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 11 | 228 | DM-R | 13.0 | 15.2 | 72.7 | 58.9 | 9.4 | 7.1 | 32.3 | 24.2 | 7.6 | 6.1 | 5 | 5 | 3 | 3 | 0.0 | 1.3 | 50.0 | 25.0 | 1 | 1 | 1 | 1 |
| 12 | 229 | DM-R | 9.3 | 14.2 | 67.2 | 64.9 | 8.3 | 6.8 | 34.4 | 25.0 | 7.1 | 6.3 | 7 | 5 | 3 | 3 | 1.3 | 9.0 | 33.3 | 25.0 | - | 1 | 1 | - |
| 13 | 230 | DM-R | 10.3 | 14.8 | 68.3 | 59.1 | 7.7 | 6.2 | 34.2 | 26.9 | 6.9 | 5.7 | 5 | 7 | 3 | 3 | 0.0 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 14 | 231 | DM-R | 10.2 | 17.0 | 65.2 | 63.9 | 8.2 | 7.0 | 32.8 | 26.9 | 7.6 | 5.9 | 7 | 7 | 3 | 3 | 0.0 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 15 | 245 | DM-R | 11.9 | 13.7 | 79.2 | 64.9 | 8.4 | 6.7 | 35.8 | 25.2 | 8.8 | 6.8 | 5 | 5 | 3 | 3 | 4.7 | 9.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 16 | 249 | DM-R | 6.7 | 12.6 | 69.9 | 67.2 | 7.3 | 6.8 | 34.2 | 27.0 | 10.0 | 5.7 | 5 | 5 | 3 | 3 | 2.3 | 2.0 | 50.0 | 33.3 | 1 | 1 | 1 | 1 |
| 17 | 251 | DM-R | 11.3 | 13.8 | 68.2 | 64.0 | 7.9 | 6.8 | 30.9 | 25.6 | 6.8 | 6.9 | 5 | 5 | 3 | 3 | 8.0 | 9.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 18 | 252 | DM-R | 14.3 | 16.2 | 72.0 | 64.1 | 8.4 | 6.8 | 31.9 | 26.2 | 8.2 | 6.2 | 5 | 5 | 3 | 3 | 11.0 | 10.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 19 | 253 | DM-R | 10.8 | 18.9 | 69.6 | 64.2 | 8.0 | 6.3 | 30.0 | 25.0 | 7.6 | 5.3 | 5 | 5 | 3 | 3 | 4.0 | 9.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 20 | 255 | DM-R | 13.2 | 17.9 | 74.4 | 62.2 | 8.4 | 6.3 | 30.1 | 24.1 | 7.7 | 7.0 | 5 | 7 | 3 | 3 | 3.3 | 8.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 |
| 21 | 256 | DM-R | 11.6 | 15.1 | 70.2 | 59.0 | 8.7 | 6.7 | 36.0 | 26.7 | 8.9 | 6.6 | 5 | 7 | 3 | 3 | 0.0 | 3.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 22 | 260 | AN-R | 5.6 | 13.7 | 74.7 | 61.4 | 8.2 | 6.1 | 28.6 | 18.7 | 7.1 | 4.4 | 7 | 7 | 3 | 3 | 9.0 | 10.3 | 25.0 | 50.0 | 1 | 1 | 1 | 1 |
| 23 | 262 | AN-R | 12.1 | 12.6 | 72.2 | 60.1 | 7.4 | 6.7 | 29.7 | 23.4 | 8.3 | 5.1 | 7 | 7 | 3 | 3 | 7.3 | 10.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 24 | 263 | AN-R | 11.0 | 12.8 | 69.7 | 61.8 | 8.1 | 6.4 | 28.6 | 22.1 | 7.4 | 4.9 | 5 | 7 | 3 | 3 | 3.3 | 13.0 | 50.0 | 50.0 | 1 | 1 | 1 | 1 |
| 25 | 265 | AN-R | 12.4 | 12.1 | 68.2 | 61.8 | 7.9 | 6.3 | 27.2 | 21.4 | 7.8 | 5.2 | 5 | 7 | 3 | 3 | 11.3 | 15.3 | 58.3 | 50.0 | 1 | 1 | 1 | 1 |
| 26 | 267 | AN-R | 8.7 | 11.3 | 65.9 | 63.0 | 7.2 | 6.1 | 29.4 | 24.2 | 7.6 | 6.8 | 5 | 5 | 3 | 3 | 8.3 | 9.0 | 33.3 | 41.7 | 1 | 1 | 1 | 1 |
| 27 | 270 | AN-R | 11.4 | 8.7 | 69.4 | 59.3 | 7.9 | 5.9 | 32.8 | 25.1 | 10.1 | 6.2 | 7 | 7 | 3 | 3 | 6.0 | 15.0 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 28 | 271 | AN-R | 17.6 | 16.8 | 68.0 | 58.4 | 7.3 | 6.8 | 29.2 | 27.6 | 11.9 | 10.1 | 5 | 5 | 3 | 3 | 8.0 | 12.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 29 | 277 | AN-R | 15.3 | 14.9 | 71.7 | 66.9 | 7.6 | 6.7 | 31.6 | 27.0 | 8.6 | 8.4 | 5 | 5 | 3 | 3 | 12.7 | 18.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 30 | 278 | AN-R | 7.7 | 17.0 | 64.7 | 64.9 | 8.2 | 7.1 | 31.0 | 26.4 | 11.2 | 8.9 | 5 | 5 | 3 | 3 | 8.3 | 17.3 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 31 | 279 | AN-R | 16.0 | 16.3 | 69.7 | 58.9 | 8.2 | 7.1 | 25.6 | 18.6 | 6.7 | 4.4 | 7 | 7 | 3 | 3 | 0.0 | 0.0 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 32 | 282 | AN-R | 14.7 | 13.3 | 70.6 | 66.6 | 8.4 | 7.0 | 26.3 | 22.2 | 6.8 | 6.1 | 7 | 7 | 3 | 3 | 2.7 | 3.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 33 | 283 | AN-R | 14.2 | 16.4 | 77.4 | 62.7 | 8.3 | 7.2 | 27.7 | 23.6 | 6.8 | 6.4 | 7 | 7 | 3 | 3 | 0.0 | 0.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 34 | 284 | AN-R | 13.1 | 17.1 | 72.9 | 60.4 | 7.8 | 6.1 | 27.6 | 20.1 | 6.7 | 6.6 | 7 | 7 | 3 | 3 | 1.7 | 9.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |

| Trait number → | | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Brix reading (%) | | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 285 | AN-R | 16.3 | 16.8 | 68.7 | 61.8 | 7.7 | 6.7 | 27.3 | 22.2 | 6.5 | 7.0 | 7 | 7 | 3 | 3 | 8.0 | 6.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 36 | 286 | AN-R | 14.8 | 17.8 | 75.2 | 61.2 | 7.8 | 6.3 | 26.7 | 20.4 | 6.8 | 6.1 | 7 | 7 | 3 | 3 | 3.0 | 3.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 37 | 287 | AN-R | 14.8 | 14.6 | 70.3 | 61.4 | 8.0 | 6.3 | 27.0 | 20.1 | 8.0 | 5.6 | 7 | 7 | 3 | 3 | 1.7 | 4.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 38 | 288 | AN-R | 10.0 | 10.0 | 66.3 | 51.2 | 8.1 | 6.8 | 26.7 | 20.6 | 8.3 | 7.2 | 7 | 7 | 3 | 3 | 14.7 | 15.3 | 58.3 | 58.3 | 1 | 1 | 1 | 1 |
| 39 | 289 | AN-R | 14.1 | 14.0 | 71.4 | 60.7 | 7.9 | 6.1 | 26.9 | 20.8 | 6.5 | 4.8 | 7 | 7 | 3 | 3 | 13.0 | 10.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 40 | 290 | AN-R | 10.0 | 16.1 | 70.1 | 63.8 | 8.4 | 7.2 | 26.8 | 20.4 | 6.3 | 5.6 | 7 | 7 | 3 | 3 | 4.3 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 41 | 291 | AN-R | 15.4 | 14.7 | 67.4 | 64.1 | 7.7 | 6.1 | 29.1 | 23.7 | 8.0 | 5.6 | 5 | 5 | 3 | 3 | 8.0 | 11.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 42 | 292 | AN-R | 11.7 | 16.4 | 76.3 | 66.8 | 8.4 | 6.3 | 35.0 | 28.6 | 10.7 | 9.0 | 5 | 5 | 3 | 3 | 10.7 | 16.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 43 | 294 | AN-R | 7.7 | 16.6 | 69.3 | 63.6 | 8.6 | 6.9 | 31.8 | 28.3 | 10.9 | 8.2 | 5 | 5 | 3 | 3 | 20.7 | 22.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 44 | 295 | AN-R | 10.9 | 18.2 | 77.4 | 59.7 | 7.9 | 5.9 | 29.1 | 21.1 | 9.0 | 5.6 | 5 | 5 | 3 | 3 | 0.3 | 3.3 | 50.0 | 33.3 | 1 | 1 | 1 | 1 |
| 45 | 296 | LB-R | 7.9 | 13.3 | 73.2 | 70.0 | 8.3 | 6.9 | 32.0 | 25.0 | 8.7 | 6.3 | 5 | 5 | 3 | 3 | 6.3 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 46 | 298 | LB-R | 11.7 | 11.2 | 64.6 | 57.0 | 7.9 | 6.2 | 28.4 | 23.1 | 8.2 | 5.2 | 7 | 7 | 3 | 3 | 7.3 | 9.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 47 | 299 | LB-R | 11.2 | 15.1 | 68.3 | 65.0 | 8.0 | 6.1 | 27.1 | 21.6 | 9.6 | 6.0 | 5 | 7 | 3 | 3 | 2.7 | 8.3 | 41.7 | 50.0 | 1 | 1 | 1 | 1 |
| 48 | 302 | LB-R | 10.1 | 13.7 | 75.9 | 64.8 | 9.2 | 6.9 | 30.1 | 25.9 | 8.0 | 6.8 | 5 | 5 | 3 | 3 | 2.0 | 8.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 49 | 312 | LB-R | 7.1 | 14.7 | 70.8 | 65.0 | 7.9 | 6.3 | 29.4 | 23.1 | 7.4 | 5.7 | 7 | 7 | 3 | 3 | 5.7 | 6.7 | 33.3 | 50.0 | 1 | 1 | 1 | 1 |
| 50 | 313 | LB-R | 16.3 | 17.6 | 75.2 | 60.1 | 7.8 | 6.6 | 25.2 | 19.6 | 6.2 | 5.2 | 7 | 7 | 3 | 3 | 4.7 | 5.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 51 | 314 | LB-R | 11.4 | 15.1 | 72.6 | 60.8 | 8.3 | 6.4 | 27.4 | 20.3 | 6.9 | 4.7 | 7 | 7 | 3 | 3 | 1.7 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 52 | 315 | LB-R | 16.1 | 16.2 | 78.7 | 64.2 | 8.3 | 6.7 | 27.9 | 20.4 | 6.4 | 5.8 | 7 | 7 | 3 | 3 | 3.0 | 5.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 53 | 316 | LB-R | 15.2 | 12.2 | 77.1 | 62.8 | 7.8 | 7.1 | 28.4 | 22.7 | 7.3 | 5.8 | 7 | 5 | 3 | 3 | 1.0 | 2.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 54 | 317 | LB-R | 15.6 | 16.8 | 70.3 | 62.9 | 8.1 | 6.2 | 28.0 | 21.1 | 6.1 | 6.4 | 7 | 7 | 3 | 3 | 3.0 | 4.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 55 | 320 | LB-R | 17.9 | 18.6 | 74.1 | 60.7 | 8.1 | 6.9 | 25.9 | 23.4 | 7.8 | 4.8 | 5 | 7 | 3 | 3 | 8.7 | 14.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 56 | 322 | LB-R | 8.6 | 15.2 | 66.7 | 66.2 | 7.7 | 6.7 | 24.7 | 18.9 | 6.9 | 5.4 | 5 | 5 | 3 | 3 | 7.7 | 1.3 | 58.3 | 41.7 | 1 | 1 | 1 | 1 |
| 57 | 330 | RU-R | 14.3 | 18.7 | 66.1 | 59.1 | 8.0 | 6.6 | 26.6 | 19.4 | 7.6 | 5.2 | 5 | 5 | 3 | 3 | 4.3 | 9.3 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 58 | 331 | RU-R | 14.6 | 15.0 | 60.9 | 56.9 | 7.3 | 5.9 | 22.1 | 22.1 | 7.8 | 6.9 | 5 | 5 | 3 | 3 | 10.7 | 11.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 59 | 332 | RU-R | 16.3 | 13.6 | 65.9 | 60.8 | 7.4 | 6.3 | 26.6 | 23.0 | 9.3 | 7.2 | 5 | 5 | 3 | 3 | 10.3 | 15.0 | 41.7 | 50.0 | 1 | 1 | 1 | 1 |
| 60 | 335 | RU-R | 8.2 | 12.0 | 70.8 | 64.4 | 7.7 | 6.7 | 29.1 | 23.8 | 7.4 | 5.3 | 5 | 7 | 3 | 3 | 0.0 | 3.7 | 58.3 | 41.7 | 1 | 1 | 1 | 1 |
| 61 | 337 | RU-R | 11.1 | 13.7 | 70.1 | 61.2 | 8.2 | 7.3 | 27.4 | 24.9 | 8.0 | 7.9 | 3 | 3 | 5 | 5 | 4.3 | 7.0 | 50.0 | 58.3 | 1 | 1 | 1 | 1 |
| 62 | 338 | RU-R | 12.2 | 13.4 | 78.9 | 59.1 | 7.6 | 5.9 | 34.8 | 26.2 | 9.6 | 8.2 | 3 | 5 | 3 | 3 | 4.3 | 2.0 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 63 | 341 | RU-R | 14.0 | 17.1 | 78.9 | 64.6 | 8.3 | 7.4 | 33.2 | 27.7 | 10.9 | 10.2 | 5 | 5 | 3 | 3 | 17.0 | 23.7 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 64 | 344 | RU-R | 14.1 | 14.8 | 71.3 | 63.7 | 7.9 | 6.2 | 25.9 | 22.0 | 6.8 | 7.8 | 7 | 7 | 3 | 3 | 4.7 | 4.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 65 | 346 | RU-R | 19.0 | 17.4 | 69.9 | 62.9 | 8.3 | 6.6 | 27.7 | 22.0 | 6.8 | 5.9 | 7 | 7 | 3 | 3 | 1.3 | 5.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 66 | 347 | RU-R | 14.3 | 17.6 | 74.1 | 64.0 | 8.0 | 6.6 | 27.8 | 20.1 | 7.2 | 5.7 | 7 | 7 | 3 | 3 | 2.7 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 67 | 349 | RU-R | 14.4 | 16.9 | 67.6 | 60.1 | 7.9 | 6.1 | 31.0 | 23.8 | 8.9 | 6.2 | 5 | 7 | 3 | 3 | 19.0 | 14.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 68 | 352 | GM-R | 6.7 | 11.7 | 64.3 | 62.7 | 7.2 | 6.0 | 29.9 | 24.1 | 8.4 | 7.0 | 5 | 7 | 3 | 3 | 22.0 | 21.7 | 50.0 | 33.3 | 1 | 1 | 1 | 1 |
| 69 | 354 | GM-R | 10.0 | 11.1 | 65.4 | 59.2 | 8.2 | 6.0 | 31.1 | 20.8 | 8.9 | 5.2 | 5 | 7 | 3 | 3 | 19.3 | 25.7 | 58.3 | 41.7 | 1 | 1 | 1 | 1 |
| 70 | 356 | GM-R | 10.7 | 11.1 | 63.0 | 54.4 | 7.7 | 5.6 | 26.4 | 21.8 | 7.7 | 5.6 | 5 | 7 | 3 | 3 | 11.3 | 14.7 | 50.0 | 50.0 | 1 | 1 | 1 | 1 |

| Trait number → | | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Brix reading (%) | | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 71 | 357 | GM-R | 7.6 | 10.2 | 66.7 | 54.8 | 7.8 | 6.2 | 28.7 | 23.7 | 7.6 | 6.2 | 5 | 7 | 3 | 3 | 8.7 | 16.3 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 72 | 359 | GM-R | 11.3 | 11.3 | 67.8 | 60.8 | 8.4 | 6.1 | 30.1 | 21.6 | 5.5 | 3.7 | 7 | 7 | 3 | 3 | 0.0 | 6.0 | 50.0 | 50.0 | 1 | 1 | 1 | 1 |
| 73 | 360 | GM-R | 17.7 | 12.9 | 76.4 | 58.7 | 9.2 | 6.6 | 32.7 | 22.9 | 8.4 | 5.1 | 7 | 7 | 3 | 3 | 11.0 | 13.3 | 50.0 | 58.3 | 1 | 1 | 1 | 1 |
| 74 | 365 | GM-R | 8.4 | 11.1 | 66.9 | 59.9 | 8.2 | 6.6 | 31.8 | 21.8 | 8.8 | 5.9 | 5 | 7 | 3 | 3 | 10.0 | 20.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 75 | 372 | GM-R | 10.8 | 12.9 | 62.6 | 57.1 | 7.8 | 6.1 | 25.7 | 17.4 | 5.9 | 4.1 | 7 | 7 | 3 | 3 | 15.3 | 22.0 | 41.7 | 50.0 | 1 | 1 | 1 | 1 |
| 76 | 377 | GM-R | 5.0 | 14.1 | 69.6 | 61.1 | 7.7 | 6.7 | 29.8 | 25.1 | 9.3 | 6.2 | 5 | 7 | 3 | 3 | 9.0 | 16.3 | 50.0 | 41.7 | 1 | 1 | 1 | 1 |
| 77 | 387 | GM-R | 5.4 | 12.9 | 70.1 | 62.3 | 8.1 | 6.6 | 30.7 | 23.6 | 9.8 | 7.3 | 5 | 7 | 3 | 3 | 12.7 | 19.0 | 50.0 | 41.7 | 1 | 1 | 1 | 1 |
| 78 | 389 | GM-R | 10.1 | 16.9 | 63.9 | 59.0 | 7.9 | 6.9 | 26.9 | 23.1 | 6.8 | 5.6 | 5 | 7 | 3 | 3 | 17.3 | 22.7 | 41.7 | 41.7 | 1 | 1 | 1 | 1 |
| 79 | 395 | GM-R | 8.6 | 12.1 | 65.1 | 57.6 | 8.3 | 6.8 | 28.6 | 20.8 | 8.7 | 5.4 | 5 | 7 | 3 | 3 | 2.7 | 12.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 80 | 397 | GM-R | 12.8 | 14.7 | 68.8 | 67.0 | 8.4 | 7.3 | 29.0 | 25.2 | 12.3 | 8.0 | 5 | 7 | 3 | 3 | 28.3 | 22.0 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 81 | 398 | GM-R | 13.9 | 14.8 | 66.1 | 60.9 | 9.1 | 6.9 | 30.7 | 25.7 | 9.3 | 7.3 | 5 | 5 | 3 | 3 | 14.3 | 7.7 | 41.7 | 25.0 | 1 | 1 | 1 | 1 |
| 82 | 399 | GM-R | 10.1 | 10.7 | 68.2 | 57.3 | 7.7 | 5.9 | 27.9 | 20.6 | 9.1 | 6.0 | 5 | 5 | 3 | 3 | 14.3 | 17.7 | 41.7 | 50.0 | 1 | 1 | 1 | 1 |
| 83 | 407 | GM-R | 9.1 | 14.3 | 59.8 | 57.9 | 8.2 | 7.0 | 26.7 | 24.1 | 6.9 | 6.2 | 5 | 7 | 3 | 3 | 16.3 | 8.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 296B | High yield | 14.9 | 15.6 | 72.0 | 60.7 | 8.0 | 6.4 | 31.1 | 23.3 | 7.6 | 5.1 | 5 | 7 | 3 | 3 | 1.0 | 3.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| Mean | | | 11.87 | 14.56 | 69.62 | 61.25 | 8.04 | 6.51 | 29.29 | 23.21 | 8.08 | 6.20 | - | - | - | - | 6.71 | 9.76 | 37.59 | 33.33 | - | - | - | - |
| SE ± | | | 1.76 | 1.54 | 2.81 | 2.04 | 0.35 | 0.29 | 1.07 | 1.14 | 0.68 | 0.61 | - | - | - | - | 0.70 | 1.00 | 5.38 | 4.82 | - | - | - | - |
| CV (%) | | | 25.73 | 18.32 | 6.98 | 5.77 | 7.51 | 7.78 | 6.30 | 8.54 | 14.59 | 16.93 | - | - | - | - | 18.11 | 17.77 | 24.78 | 25.07 | - | - | - | - |
| CD (5%) | | | 4.96 | 4.69 | 7.85 | 6.85 | 0.98 | 0.90 | 2.98 | 3.11 | 1.91 | 1.83 | - | - | - | - | 1.96 | 2.40 | 15.13 | 14.34 | - | - | - | - |

Annexure I-4. … Contd.

| Trait number → | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 202 | DM-R | 1 | 1 | 8 | 28.54 | 3 | 3 | 7 | 3 | 3 | 1 | 6 | 6 | 3.0 | 2.7 | 3.0 | 1.3 | 2.3 | 2.7 | 5.2 | 3.5 | 4.2 | 2.8 |
| 2 | 216 | DM-R | 1 | 1 | 8 | 23.44 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 3.3 | 2.7 | 4.3 | 4.0 | 2.3 | 1.3 | 3.4 | 3.8 | 2.2 | 2.9 |
| 3 | 217 | DM-R | 1 | 1 | 8 | 29.28 | 3 | 3 | 7 | 3 | 3 | 1 | 6 | 8 | 3.0 | 3.0 | 4.0 | 3.0 | 2.7 | 2.3 | 2.6 | 3.0 | 1.8 | 2.4 |
| 4 | 218 | DM-R | 1 | 1 | 8 | 25.17 | 3 | 3 | 5 | 3 | 3 | 1 | 7 | 8 | 3.3 | 3.0 | 3.3 | 3.0 | 2.7 | 2.0 | 2.7 | 3.3 | 1.5 | 2.2 |
| 5 | 220 | DM-R | 1 | 1 | 8 | 25.01 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.0 | 3.0 | 4.0 | 3.3 | 2.0 | 1.3 | 4.5 | 4.3 | 2.7 | 3.4 |
| 6 | 223 | DM-R | 1 | 1 | 8 | 26.91 | 3 | 3 | 7 | 5 | 3 | 1 | 7 | 8 | 3.3 | 2.7 | 4.3 | 4.3 | 2.3 | 1.0 | 4.1 | 4.6 | 2.3 | 2.7 |
| 7 | 224 | DM-R | 1 | 1 | 8 | 30.78 | 3 | 3 | 7 | 5 | 3 | 1 | 6 | 8 | 3.3 | 3.0 | 3.3 | 3.0 | 1.5 | 1.0 | 4.6 | 4.4 | 2.5 | 2.9 |
| 8 | 225 | DM-R | 1 | 1 | 8 | 27.96 | 3 | 3 | 5 | 5 | 3 | 1 | 7 | 8 | 2.7 | 2.3 | 3.7 | 3.3 | 2.3 | 1.0 | 3.5 | 4.1 | 1.6 | 2.6 |
| 9 | 226 | DM-R | 1 | 1 | 8 | 33.88 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 8 | 3.3 | 2.7 | 3.0 | 3.0 | 1.7 | 1.7 | 4.9 | 3.1 | 3.3 | 2.1 |
| 10 | 227 | DM-R | 1 | 1 | 8 | 33.85 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.3 | 3.0 | 3.0 | 2.3 | 2.3 | 1.3 | 4.4 | 4.0 | 2.8 | 2.8 |
| 11 | 228 | DM-R | 1 | 1 | 8 | 29.34 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 8 | 3.3 | 3.0 | 2.7 | 3.3 | 2.0 | 1.0 | 3.3 | 4.1 | 1.7 | 2.7 |
| 12 | 229 | DM-R | 1 | - | 8 | 30.05 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 3.3 | 2.7 | 3.0 | 2.0 | 1.0 | 3.8 | 4.6 | 2.6 | 3.5 |
| 13 | 230 | DM-R | 1 | 1 | 8 | 31.11 | 3 | 3 | 5 | 5 | 3 | 7 | 7 | 7 | 3.3 | 3.0 | 3.0 | 2.3 | 1.7 | 2.0 | 4.6 | 3.7 | 2.9 | 2.3 |
| 14 | 231 | DM-R | 1 | 1 | 8 | 28.06 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.0 | 2.7 | 3.0 | 3.0 | 1.7 | 1.3 | 5.7 | 4.5 | 3.3 | 3.0 |
| 15 | 245 | DM-R | 1 | 1 | 8 | 29.08 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 8 | 3.0 | 3.0 | 3.0 | 2.7 | 1.7 | 1.0 | 4.3 | 4.9 | 2.9 | 3.5 |
| 16 | 249 | DM-R | 1 | 1 | 3 | 30.95 | 3 | 3 | 7 | 3 | 3 | 7 | 5 | 7 | 3.0 | 3.0 | 2.3 | 2.0 | 2.0 | 1.0 | 4.4 | 5.2 | 3.1 | 3.8 |
| 17 | 251 | DM-R | 1 | 1 | 8 | 33.09 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 3.0 | 3.0 | 2.3 | 1.7 | 1.0 | 4.2 | 5.2 | 3.0 | 3.7 |
| 18 | 252 | DM-R | 1 | 1 | 8 | 30.64 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.3 | 3.3 | 2.7 | 1.7 | 1.3 | 4.2 | 4.0 | 2.9 | 3.1 |
| 19 | 253 | DM-R | 1 | 1 | 8 | 30.11 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 2.7 | 3.0 | 2.7 | 2.3 | 2.0 | 2.0 | 4.0 | 3.4 | 2.5 | 2.5 |
| 20 | 255 | DM-R | 1 | 1 | 8 | 28.61 | 3 | 3 | 3 | 5 | 3 | 1 | 6 | 7 | 3.0 | 3.0 | 2.7 | 3.0 | 2.3 | 1.7 | 2.6 | 3.4 | 1.4 | 2.5 |
| 21 | 256 | DM-R | 1 | 1 | 8 | 33.48 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 2.7 | 3.3 | 2.3 | 1.3 | 1.0 | 5.3 | 3.3 | 3.7 | 2.3 |
| 22 | 260 | AN-R | 1 | 1 | 8 | 25.00 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 6 | 2.7 | 3.0 | 2.3 | 1.7 | 2.0 | 2.7 | 4.1 | 2.9 | 3.0 | 2.2 |
| 23 | 262 | AN-R | 1 | 1 | 8 | 31.29 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 3.0 | 2.7 | 2.3 | 1.3 | 1.5 | 1.7 | 3.7 | 4.0 | 2.7 | 3.1 |
| 24 | 263 | AN-R | 1 | 1 | 8 | 32.99 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 6 | 3.0 | 3.0 | 2.3 | 1.3 | 2.0 | 2.0 | 4.2 | 3.7 | 3.0 | 2.8 |
| 25 | 265 | AN-R | 1 | 1 | 1 | 21.00 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 3.0 | 2.0 | 2.3 | 2.3 | 3.2 | 3.3 | 2.5 | 2.6 |
| 26 | 267 | AN-R | 1 | 1 | 1 | 32.76 | 3 | 3 | 7 | 3 | 3 | 7 | 5 | 7 | 3.0 | 2.7 | 2.0 | 1.7 | 2.3 | 2.0 | 4.4 | 4.4 | 3.5 | 3.5 |
| 27 | 270 | AN-R | 1 | 1 | 1 | 30.64 | 3 | 3 | 7 | 3 | 3 | 7 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.3 | 2.7 | 2.0 | 3.3 | 3.5 | 2.5 | 2.9 |
| 28 | 271 | AN-R | 1 | 1 | 8 | 33.85 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 2.3 | 3.0 | 2.7 | 2.7 | 2.0 | 3.7 | 3.6 | 2.8 | 2.8 |
| 29 | 277 | AN-R | 1 | 1 | 1 | 30.33 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.0 | 3.3 | 2.0 | 2.3 | 2.3 | 1.7 | 3.1 | 3.8 | 2.3 | 2.8 |
| 30 | 278 | AN-R | 1 | 1 | 3 | 26.89 | 3 | 3 | 7 | 3 | 3 | 7 | 6 | 7 | 3.0 | 3.0 | 3.0 | 2.0 | 2.7 | 2.0 | 3.5 | 3.8 | 2.8 | 3.2 |
| 31 | 279 | AN-R | 1 | 1 | 1 | 33.10 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.0 | 2.7 | 2.3 | 1.9 | 3.1 | 1.3 | 2.2 |
| 32 | 282 | AN-R | 1 | 1 | 1 | 30.57 | 3 | 3 | 7 | 3 | 3 | 5 | 6 | 8 | 3.0 | 2.7 | 3.7 | 4.0 | 1.7 | 2.0 | 3.4 | 3.4 | 2.4 | 2.6 |
| 33 | 283 | AN-R | 1 | 1 | 8 | 26.59 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.3 | 2.0 | 2.0 | 1.7 | 2.0 | 3.3 | 4.0 | 2.5 | 3.1 |
| 34 | 284 | AN-R | 1 | 1 | 1 | 34.02 | 3 | 3 | 7 | 5 | 3 | 7 | 5 | 7 | 3.0 | 2.7 | 3.0 | 2.3 | 2.0 | 2.0 | 3.5 | 3.7 | 2.6 | 3.0 |

| Trait number → | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 285 | AN-R | 1 | 1 | 1 | 33.48 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.3 | 2.0 | 2.0 | 3.2 | 3.9 | 2.4 | 3.2 |
| 36 | 286 | AN-R | 1 | 1 | 1 | 25.76 | 2 | 2 | 5 | 5 | 3 | 5 | 6 | 7 | 3.3 | 2.3 | 3.0 | 2.0 | 1.7 | 2.0 | 3.0 | 3.4 | 2.1 | 2.8 |
| 37 | 287 | AN-R | 1 | 1 | 1 | 23.71 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.0 | 2.3 | 2.0 | 2.7 | 2.3 | 2.8 | 3.5 | 2.0 | 2.7 |
| 38 | 288 | AN-R | 1 | 1 | 8 | 28.56 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 6 | 2.7 | 2.3 | 2.3 | 1.0 | 2.7 | 2.0 | 3.3 | 4.2 | 2.5 | 3.2 |
| 39 | 289 | AN-R | 1 | 1 | 8 | 21.28 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 6 | 2.3 | 2.7 | 2.0 | 1.3 | 1.7 | 2.7 | 3.1 | 3.1 | 2.2 | 2.0 |
| 40 | 290 | AN-R | 1 | 1 | 1 | 30.45 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.0 | 2.7 | 1.7 | 1.7 | 2.7 | 3.9 | 3.3 | 2.9 | 2.6 |
| 41 | 291 | AN-R | 1 | 1 | 1 | 34.28 | 2 | 2 | 5 | 5 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 2.7 | 2.7 | 2.0 | 1.3 | 3.2 | 5.0 | 2.3 | 4.0 |
| 42 | 292 | AN-R | 1 | 1 | 3 | 29.28 | 3 | 3 | 5 | 5 | 3 | 7 | 6 | 7 | 3.0 | 3.0 | 3.0 | 2.7 | 2.0 | 2.0 | 3.9 | 4.0 | 3.0 | 2.9 |
| 43 | 294 | AN-R | 1 | 1 | 3 | 34.09 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 2.7 | 2.3 | 2.7 | 2.0 | 1.3 | 4.1 | 4.7 | 3.3 | 4.0 |
| 44 | 295 | AN-R | 1 | 1 | 1 | 40.62 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.0 | 2.0 | 2.3 | 2.0 | 4.5 | 4.2 | 3.3 | 3.1 |
| 45 | 296 | LB-R | 1 | 1 | 3 | 35.15 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 2.3 | 2.0 | 2.0 | 1.7 | 5.0 | 4.7 | 3.7 | 3.5 |
| 46 | 298 | LB-R | 1 | 1 | 8 | 25.41 | 3 | 3 | 7 | 5 | 3 | 1 | 5 | 7 | 2.7 | 2.3 | 2.3 | 2.0 | 2.3 | 2.0 | 3.2 | 3.5 | 2.3 | 2.7 |
| 47 | 299 | LB-R | 1 | 1 | 1 | 28.25 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.0 | 3.0 | 1.7 | 3.5 | 4.6 | 2.4 | 3.5 |
| 48 | 302 | LB-R | 1 | 1 | 1 | 34.08 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 2.0 | 2.3 | 2.0 | 1.7 | 3.7 | 5.1 | 2.8 | 4.2 |
| 49 | 312 | LB-R | 1 | 1 | 8 | 24.81 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.3 | 1.7 | 2.0 | 2.0 | 3.6 | 2.9 | 2.7 | 2.1 |
| 50 | 313 | LB-R | 1 | 1 | 1 | 26.65 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 6 | 2.7 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.3 | 3.5 | 2.4 | 2.7 |
| 51 | 314 | LB-R | 1 | 1 | 1 | 26.28 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.3 | 2.0 | 2.0 | 2.3 | 3.8 | 2.9 | 2.8 | 2.2 |
| 52 | 315 | LB-R | 1 | 1 | 8 | 24.14 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 6 | 2.7 | 2.7 | 2.3 | 1.7 | 1.7 | 2.0 | 3.0 | 2.6 | 2.2 | 2.1 |
| 53 | 316 | LB-R | 1 | 1 | 8 | 29.90 | 3 | 3 | 7 | 3 | 3 | 5 | 6 | 9 | 3.0 | 2.5 | 3.7 | 5.0 | 1.3 | 1.7 | 7.0 | 3.5 | 3.3 | 2.4 |
| 54 | 317 | LB-R | 1 | 1 | 8 | 31.95 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 2.7 | 3.0 | 3.0 | 2.3 | 1.7 | 2.0 | 3.4 | 3.5 | 2.5 | 2.7 |
| 55 | 320 | LB-R | 1 | 1 | 8 | 35.01 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 3.0 | 3.0 | 2.7 | 2.3 | 2.0 | 3.8 | 3.7 | 2.7 | 2.6 |
| 56 | 322 | LB-R | 1 | 1 | 8 | 30.39 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 3.0 | 2.7 | 1.7 | 2.7 | 2.0 | 3.4 | 4.0 | 2.4 | 3.2 |
| 57 | 330 | RU-R | 1 | 1 | 3 | 23.74 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.0 | 3.0 | 2.3 | 2.0 | 2.3 | 2.0 | 3.3 | 3.4 | 2.7 | 2.7 |
| 58 | 331 | RU-R | 1 | 1 | 8 | 37.77 | 3 | 3 | 7 | 5 | 3 | 1 | 5 | 7 | 2.7 | 2.3 | 3.0 | 2.0 | 2.7 | 2.0 | 3.5 | 3.3 | 2.6 | 2.5 |
| 59 | 332 | RU-R | 1 | 1 | 8 | 31.89 | 3 | 3 | 5 | 7 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 3.0 | 2.7 | 1.7 | 3.2 | 4.9 | 2.3 | 3.7 |
| 60 | 335 | RU-R | 1 | 1 | 8 | 28.68 | 3 | 3 | 7 | 5 | 3 | 1 | 5 | 7 | 3.0 | 2.3 | 2.7 | 2.3 | 2.7 | 1.7 | 3.8 | 3.7 | 2.7 | 2.9 |
| 61 | 337 | RU-R | 1 | 1 | 8 | 20.54 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.0 | 3.0 | 4.3 | 3.7 | 3.0 | 2.7 | 4.2 | 3.1 | 3.1 | 2.1 |
| 62 | 338 | RU-R | 1 | 1 | 8 | 31.59 | 3 | 3 | 7 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.7 | 3.3 | 2.3 | 3.0 | 3.5 | 2.0 | 2.7 | 1.4 |
| 63 | 341 | RU-R | 1 | 1 | 3 | 35.66 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.7 | 2.7 | 1.7 | 2.0 | 1.3 | 4.9 | 5.2 | 3.8 | 4.7 |
| 64 | 344 | RU-R | 1 | 1 | 1 | 25.11 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 3.0 | 2.3 | 2.0 | 2.0 | 2.0 | 3.2 | 4.1 | 2.3 | 3.0 |
| 65 | 346 | RU-R | 1 | 1 | 1 | 25.12 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 2.0 | 2.3 | 1.7 | 3.5 | 3.7 | 2.4 | 2.8 |
| 66 | 347 | RU-R | 1 | 1 | 8 | 28.09 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 3.0 | 2.0 | 2.0 | 2.3 | 2.9 | 3.3 | 2.2 | 2.5 |
| 67 | 349 | RU-R | 1 | 1 | 8 | 24.95 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 3.0 | 3.7 | 3.0 | 3.0 | 3.0 | 2.3 | 2.8 | 2.8 | 1.8 | 2.1 |
| 68 | 352 | GM-R | 1 | 1 | 3 | 29.46 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 4.0 | 3.3 | 3.0 | 2.3 | 1.7 | 3.9 | 4.2 | 3.4 | 3.4 |
| 69 | 354 | GM-R | 1 | 1 | 1 | 34.85 | 2 | 2 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.3 | 3.0 | 2.3 | 2.7 | 2.0 | 3.1 | 4.2 | 2.5 | 3.6 |
| 70 | 356 | GM-R | 1 | 1 | 1 | 33.76 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 2.7 | 2.3 | 3.0 | 2.0 | 3.2 | 3.3 | 2.6 | 2.7 |

| Trait number → | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 71 | 357 | GM-R | 1 | 1 | 1 | 33.26 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.3 | 3.0 | 2.0 | 2.3 | 2.0 | 3.2 | 4.2 | 2.4 | 3.2 |
| 72 | 359 | GM-R | 1 | 1 | 9 | 33.13 | 3 | 3 | 7 | 5 | 4 | 1 | 6 | 7 | 3.3 | 3.0 | 3.0 | 2.7 | 2.7 | 2.7 | 3.6 | 2.8 | 2.6 | 1.8 |
| 73 | 360 | GM-R | 1 | 1 | 5 | 32.83 | 2 | 2 | 5 | 5 | 4 | 5 | 5 | 7 | 3.3 | 2.7 | 2.0 | 1.7 | 3.0 | 3.0 | 2.7 | 1.8 | 1.6 | 1.0 |
| 74 | 365 | GM-R | 1 | 1 | 1 | 31.86 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.7 | 2.0 | 3.4 | 3.9 | 2.7 | 3.1 |
| 75 | 372 | GM-R | 1 | 1 | 9 | 33.25 | 2 | 2 | 7 | 5 | 4 | 5 | 5 | 7 | 3.0 | 3.3 | 2.0 | 2.0 | 1.7 | 2.0 | 3.0 | 4.2 | 2.3 | 3.4 |
| 76 | 377 | GM-R | 1 | 1 | 6 | 34.20 | 2 | 2 | 5 | 9 | 4 | 1 | 6 | 7 | 3.0 | 3.0 | 2.3 | 1.7 | 2.0 | 2.0 | 4.0 | 5.4 | 3.3 | 4.5 |
| 77 | 387 | GM-R | 1 | 1 | 6 | 29.48 | 3 | 3 | 7 | 7 | 4 | 1 | 5 | 7 | 3.0 | 2.7 | 2.3 | 1.7 | 2.0 | 2.0 | 4.1 | 4.5 | 3.3 | 3.4 |
| 78 | 389 | GM-R | 1 | 1 | 9 | 36.00 | 2 | 2 | 7 | 5 | 4 | 5 | 5 | 7 | 2.3 | 2.7 | 2.7 | 1.7 | 2.0 | 2.0 | 4.0 | 3.6 | 3.3 | 2.8 |
| 79 | 395 | GM-R | 1 | 1 | 6 | 33.24 | 2 | 2 | 5 | 7 | 4 | 1 | 6 | 6 | 3.3 | 2.3 | 2.3 | 1.7 | 2.0 | 2.3 | 4.6 | 2.6 | 3.4 | 1.8 |
| 80 | 397 | GM-R | 1 | 1 | 5 | 30.46 | 3 | 3 | 5 | 7 | 4 | 1 | 5 | 7 | 2.7 | 2.3 | 2.7 | 3.0 | 2.7 | 2.7 | 2.9 | 1.4 | 2.2 | 0.8 |
| 81 | 398 | GM-R | 1 | 1 | 9 | 29.97 | 3 | 3 | 7 | 7 | 4 | 5 | 5 | 6 | 2.7 | 2.0 | 2.3 | 2.0 | 2.3 | 1.7 | 3.3 | 3.5 | 2.4 | 2.6 |
| 82 | 399 | GM-R | 1 | 1 | 8 | 34.06 | 3 | 3 | 7 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 2.7 | 1.7 | 2.7 | 3.0 | 3.2 | 2.2 | 2.6 | 1.7 |
| 83 | 407 | GM-R | 1 | 1 | 9 | 32.25 | 3 | 3 | 5 | 3 | 4 | 5 | 6 | 8 | 3.0 | 3.0 | 4.0 | 3.3 | 3.0 | 2.0 | 3.1 | 3.9 | 2.4 | 2.8 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 296B | High yield | 1 | 1 | 8 | 30.03 | 3 | 3 | 5 | 7 | 3 | 1 | 6 | 7 | 3.0 | 2.0 | 3.3 | 2.3 | 2.0 | 1.7 | 4.7 | 3.0 | 3.2 | 2.1 |
| Mean | | | - | - | - | 30.19 | - | - | - | - | - | - | 6 | 7 | 2.94 | 2.75 | 2.81 | 2.34 | 2.24 | 1.92 | 3.70 | 3.72 | 2.63 | 2.80 |
| SE ± | | | - | - | - | 1.95 | - | - | - | - | - | - | 0.26 | 0.22 | 0.23 | 0.27 | 0.28 | 0.29 | 0.31 | 0.23 | 0.45 | 0.21 | 0.33 | 0.17 |
| CV (%) | | | - | - | - | 11.16 | - | - | - | - | - | - | 8.01 | 5.38 | 13.73 | 17.19 | 17.28 | 21.41 | 24.02 | 20.33 | 20.88 | 9.73 | 21.93 | 10.44 |
| CD (5%) | | | - | - | - | 5.43 | - | - | - | - | - | - | 0.72 | 0.68 | 0.65 | 0.71 | 0.78 | 0.79 | 0.88 | 0.76 | 1.25 | 1.12 | 0.93 | 0.86 |

Annexure I-4. … Contd.

| Trait number → | | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % under high atmospheric temperature in A-line | Seed set % in A-line under open pollination | Downy mildew infected plants% | Anthracnose score for leaf | Anthracnose score for panicle | Leaf blight score | Rust score | Panicle grain mold rating score | Threshed grain mold rating score |
| | | | Summer | Postrainy | Rainy | Rainy | Rainy | Postrainy | Postrainy | Rainy | Rainy |
| 1 | 202 | DM-R | 0 | 80 | 0.0 | - | - | - | - | - | - |
| 2 | 216 | DM-R | 0 | - | - | - | - | - | - | - | - |
| 3 | 217 | DM-R | 0 | 10 | 4.0 | - | - | - | - | - | - |
| 4 | 218 | DM-R | 0 | 50 | 6.0 | - | - | - | - | - | - |
| 5 | 220 | DM-R | 0 | 65 | 22.0 | - | - | - | - | - | - |
| 6 | 223 | DM-R | 0 | - | - | - | - | - | - | - | - |
| 7 | 224 | DM-R | 0 | - | - | - | - | - | - | - | - |
| 8 | 225 | DM-R | 0 | 20 | 25.5 | - | - | - | - | - | - |
| 9 | 226 | DM-R | 0 | 50 | 5.0 | - | - | - | - | - | - |
| 10 | 227 | DM-R | 90 | - | - | - | - | - | - | - | - |
| 11 | 228 | DM-R | 0 | - | - | - | - | - | - | - | - |
| 12 | 229 | DM-R | 0 | - | - | - | - | - | - | - | - |
| 13 | 230 | DM-R | 0 | - | 9.5 | - | - | - | - | - | - |
| 14 | 231 | DM-R | 0 | 40 | 20.0 | - | - | - | - | - | - |
| 15 | 245 | DM-R | 0 | 45 | 0.0 | - | - | - | - | - | - |
| 16 | 249 | DM-R | 0 | 25 | - | - | - | - | - | - | - |
| 17 | 251 | DM-R | 0 | 30 | 16.0 | - | - | - | - | - | - |
| 18 | 252 | DM-R | 0 | 75 | 6.0 | - | - | - | - | - | - |
| 19 | 253 | DM-R | 0 | 30 | 9.0 | - | - | - | - | - | - |
| 20 | 255 | DM-R | 0 | 45 | 5.0 | - | - | - | - | - | - |
| 21 | 256 | DM-R | 0 | - | - | - | - | - | - | - | - |
| 22 | 260 | AN-R | 0 | 5 | - | 5.1 | 6.1 | - | - | - | - |
| 23 | 262 | AN-R | 0 | - | - | 4.5 | 7.3 | - | - | - | - |
| 24 | 263 | AN-R | 0 | 50 | - | 4.8 | - | - | - | - | - |
| 25 | 265 | AN-R | 0 | 20 | - | 3.5 | 2.9 | - | - | - | - |
| 26 | 267 | AN-R | 0 | 75 | - | 3.7 | - | - | - | - | - |
| 27 | 270 | AN-R | 0 | 25 | - | 3 | 4.1 | - | - | - | - |
| 28 | 271 | AN-R | 0 | 30 | - | 3.2 | 2.7 | - | - | - | - |
| 29 | 277 | AN-R | 0 | 95 | - | - | - | - | - | - | - |
| 30 | 278 | AN-R | 0 | 40 | - | 2.9 | 6.3 | - | - | - | - |
| 31 | 279 | AN-R | 0 | 25 | - | 3.4 | - | - | - | - | - |
| 32 | 282 | AN-R | 0 | 80 | - | 3.2 | - | - | - | - | - |
| 33 | 283 | AN-R | 0 | 70 | - | 2.9 | 4.3 | - | - | - | - |
| 34 | 284 | AN-R | 0 | 80 | - | 3.5 | - | - | - | - | - |

| Trait number → | | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % under high atmospheric temperature in A-line | Seed set % in A-line under open pollination | Downy mildew infected plants% | Anthracnose score for leaf | Anthracnose score for panicle | Leaf blight score | Rust score | Panicle grain mold rating score | Threshed grain mold rating score |
| | | | Summer | Postrainy | Rainy | Rainy | Rainy | Postrainy | Postrainy | Rainy | Rainy |
| 35 | 285 | AN-R | 0 | 25 | - | 3.4 | - | - | - | - | - |
| 36 | 286 | AN-R | 0 | 30 | - | 3.8 | - | - | - | - | - |
| 37 | 287 | AN-R | 0 | 25 | - | 3.4 | 6.3 | - | - | - | - |
| 38 | 288 | AN-R | 0 | 50 | - | 3.6 | - | - | - | - | - |
| 39 | 289 | AN-R | 0 | 30 | - | 3.3 | 3.8 | - | - | - | - |
| 40 | 290 | AN-R | 0 | 20 | - | 4 | 7.7 | - | - | - | - |
| 41 | 291 | AN-R | 0 | 40 | - | 3.1 | 3.5 | - | - | - | - |
| 42 | 292 | AN-R | 0 | 45 | - | 2.7 | 6.1 | - | - | - | - |
| 43 | 294 | AN-R | 0 | - | - | - | - | - | - | - | - |
| 44 | 295 | AN-R | 0 | 80 | - | 6.7 | - | - | - | - | - |
| 45 | 296 | LB-R | 0 | 85 | - | - | - | 4.1 | 2 | - | - |
| 46 | 298 | LB-R | 0 | 80 | - | - | - | - | - | - | - |
| 47 | 299 | LB-R | 0 | 30 | - | - | - | 3.5 | 4.3 | - | - |
| 48 | 302 | LB-R | 10 | - | - | - | - | - | - | - | - |
| 49 | 312 | LB-R | 0 | - | - | - | - | - | - | - | - |
| 50 | 313 | LB-R | 0 | 90 | - | - | - | - | - | - | - |
| 51 | 314 | LB-R | 0 | 90 | - | - | - | - | - | - | - |
| 52 | 315 | LB-R | 0 | 75 | - | - | - | - | - | - | - |
| 53 | 316 | LB-R | 0 | 80 | - | - | - | - | - | - | - |
| 54 | 317 | LB-R | 0 | - | - | - | - | 3.7 | 4 | - | - |
| 55 | 320 | LB-R | 0 | 20 | - | - | - | 4.8 | 2.7 | - | - |
| 56 | 322 | LB-R | 0 | 70 | - | - | - | 5.4 | 3 | - | - |
| 57 | 330 | RU-R | 0 | 40 | - | - | - | 4 | 3.9 | - | - |
| 58 | 331 | RU-R | 0 | 50 | - | - | - | 3.6 | 3.9 | - | - |
| 59 | 332 | RU-R | 0 | 40 | - | - | - | 4.1 | 4 | - | - |
| 60 | 335 | RU-R | 0 | 55 | - | - | - | - | - | - | - |
| 61 | 337 | RU-R | 0 | 50 | - | - | - | 4 | 6.2 | - | - |
| 62 | 338 | RU-R | 0 | 30 | - | - | - | 3.9 | 2 | - | - |
| 63 | 341 | RU-R | 0 | - | - | - | - | - | - | - | - |
| 64 | 344 | RU-R | 0 | 70 | - | - | - | - | - | - | - |
| 65 | 346 | RU-R | 0 | 90 | - | - | - | - | - | - | - |
| 66 | 347 | RU-R | 0 | 60 | - | - | - | - | - | - | - |
| 67 | 349 | RU-R | 0 | 65 | - | - | - | - | - | - | - |
| 68 | 352 | GM-R | 0 | 70 | - | - | - | - | - | 5.6 | 5.6 |
| 69 | 354 | GM-R | 0 | 30 | - | - | - | - | - | 5.2 | 4.9 |
| 70 | 356 | GM-R | 0 | 60 | - | - | - | - | - | 5.6 | 5.8 |

| Trait number → | | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % under high atmospheric temperature in A-line | Seed set % in A-line under open pollination | Downy mildew infected plants% | Anthracnose score for leaf | Anthracnose score for panicle | Leaf blight score | Rust score | Panicle grain mold rating score | Threshed grain mold rating score |
| | | | Summer | Postrainy | Rainy | Rainy | Rainy | Postrainy | Postrainy | Rainy | Rainy |
| 71 | 357 | GM-R | 0 | 80 | - | - | - | - | - | 6.1 | 5.8 |
| 72 | 359 | GM-R | 0 | 75 | - | - | - | - | - | 7.1 | 7.3 |
| 73 | 360 | GM-R | 0 | 30 | - | - | - | - | - | 6.6 | 6.7 |
| 74 | 365 | GM-R | 0 | 90 | - | - | - | - | - | 5.8 | 6.3 |
| 75 | 372 | GM-R | 0 | 30 | - | - | - | - | - | 6.2 | 6.4 |
| 76 | 377 | GM-R | 0 | 60 | - | - | - | - | - | 5.8 | 3.6 |
| 77 | 387 | GM-R | 0 | 70 | - | - | - | - | - | 5.9 | 5 |
| 78 | 389 | GM-R | 0 | 75 | - | - | - | - | - | 6.4 | 6.5 |
| 79 | 395 | GM-R | 0 | 40 | - | - | - | - | - | 6.2 | 4.8 |
| 80 | 397 | GM-R | 60 | 40 | - | - | - | - | - | 7.8 | 7.9 |
| 81 | 398 | GM-R | 0 | 80 | - | - | - | - | - | 7.5 | 7.4 |
| 82 | 399 | GM-R | 0 | 75 | - | - | - | - | - | 6.2 | 6.9 |
| 83 | 407 | GM-R | 0 | 30 | - | - | - | - | - | 7.1 | 6.5 |
| Control | | | | | | | | | | | |
| 84 | 296B | High yield | - | - | - | - | - | - | - | - | - |
| Mean | | | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - | - |

Annexure I-5. Characteristics of disease resistant (late maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 209 | DM-R | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 86 | 1.6 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 211 | DM-R | 1 | 1 | 1 | 1 | 2 | 2 | 82 | 96 | 0.8 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 212 | DM-R | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 78 | 0.9 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 4 | 214 | DM-R | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 84 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 219 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 80 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 221 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 90 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 232 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 93 | 1.3 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 8 | 234 | DM-R | 2 | 2 | 3 | 1 | 2 | 2 | 81 | 88 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 238 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 88 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 10 | 239 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 91 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 11 | 240 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 84 | 1.1 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 241 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 86 | 1.1 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 242 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 83 | 1.0 | 0.7 | 3 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 246 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 87 | 1.2 | 0.9 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 248 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 89 | 1.2 | 0.8 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 16 | 257 | DM-R | 2 | 1 | 3 | 3 | 2 | 2 | 78 | 92 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 17 | 258 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 90 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| 18 | 259 | DM-R | 2 | 2 | 3 | 3 | 2 | 2 | 82 | 98 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| 19 | 306 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 79 | 94 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 307 | LB-R | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 98 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 308 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 79 | 87 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 309 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 90 | 1.5 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 310 | LB-R | 2 | 1 | 3 | 1 | 2 | 2 | 80 | 85 | 1.3 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 24 | 319 | LB-R | 1 | 1 | 1 | 1 | 2 | 2 | 81 | 91 | 1.8 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 296B | High yield | 2 | 2 | 3 | 1 | 2 | 2 | 78 | 96 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 79 | 88 | 1.3 | 0.9 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 1.24 | 1.23 | 0.03 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 2.74 | 2.40 | 4.45 | 6.35 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 3.53 | 3.44 | 0.09 | 0.09 | - | - | - | - | - | - | - | - | - | - |

DM- Downy mildew; LB= Leaf blight; R- Resistant.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-56 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-5. … Contd.

| Trait number ⟶ | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 209 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 7 | 1.8 | 1.3 | 22.1 | 20.5 | 1 | 2 |
| 2 | 211 | DM-R | 1 | 1 | 5 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.0 | 0.9 | 21.9 | 22.0 | 1 | 1 |
| 3 | 212 | DM-R | 1 | 1 | 7 | 5 | 5 | 5 | 7 | 5 | 7 | 5 | 4 | 7 | 5 | 5 | 1.2 | 1.1 | 21.3 | 18.9 | 2 | 2 |
| 4 | 214 | DM-R | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 2 | 2 | 1.3 | 1.0 | 19.7 | 18.7 | 1 | 1 |
| 5 | 219 | DM-R | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | S | 5 | 4 | 4 | 5 | 5 | 1.2 | 1.0 | 23.6 | 18.2 | 1 | 1 |
| 6 | 221 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | S | 5 | 5 | 4 | 4 | 5 | 5 | 1.5 | 1.0 | 24.9 | 19.7 | 1 | 1 |
| 7 | 232 | DM-R | 1 | 1 | 1 | 1 | 9 | 9 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 2 | 1.6 | 1.1 | 20.6 | 16.4 | 1 | 1 |
| 8 | 234 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | S | 4 | 4 | 2 | 2 | 1.4 | 1.1 | 21.5 | 18.5 | 1 | 1 |
| 9 | 238 | DM-R | 1 | 1 | 1 | 1 | 9 | 9 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 1 | 1.9 | 1.4 | 21.9 | 19.3 | 1 | 1 |
| 10 | 239 | DM-R | 1 | 1 | 1 | 1 | 5 | 9 | 5 | 5 | S | S | 7 | 4 | 2 | 2 | 1.6 | 1.3 | 21.0 | 18.0 | 1 | 1 |
| 11 | 240 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | S | 4 | 4 | 4 | 4 | 1.4 | 1.2 | 21.3 | 18.7 | 1 | 2 |
| 12 | 241 | DM-R | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | S | 5 | 4 | 4 | 5 | 5 | 1.5 | 1.2 | 22.3 | 20.6 | 1 | 1 |
| 13 | 242 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.2 | 1.0 | 22.0 | 17.3 | 1 | 1 |
| 14 | 246 | DM-R | 1 | 1 | 1 | 1 | 9 | 5 | 7 | 5 | S | 5 | 4 | 4 | 2 | 2 | 1.6 | 1.2 | 19.5 | 18.3 | 1 | 1 |
| 15 | 248 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | S | 5 | 5 | 7 | 4 | 2 | 2 | 1.5 | 1.1 | 20.8 | 18.8 | 1 | 1 |
| 16 | 257 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | S | 4 | 4 | 2 | 2 | 1.5 | 1.1 | 22.4 | 18.9 | 1 | 1 |
| 17 | 258 | DM-R | 1 | 1 | 1 | 1 | 9 | 9 | 5 | 5 | S | 5 | 4 | 4 | 4 | 5 | 1.6 | 1.2 | 21.9 | 20.2 | 1 | 1 |
| 18 | 259 | DM-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | S | 5 | 5 | 7 | 4 | 4 | 7 | 1.5 | 1.1 | 22.0 | 18.0 | 1 | 1 |
| 19 | 306 | LB-R | 1 | 1 | 1 | 1 | 5 | 3 | 5 | S | 5 | 5 | 4 | 4 | 2 | 2 | 1.8 | 1.4 | 21.8 | 20.5 | 1 | 1 |
| 20 | 307 | LB-R | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.8 | 1.3 | 20.5 | 21.3 | 1 | 1 |
| 21 | 308 | LB-R | 1 | 1 | 1 | 1 | 5 | 5 | S | S | 5 | 5 | 4 | 4 | 3 | 2 | 1.6 | 1.2 | 21.7 | 19.4 | 1 | 1 |
| 22 | 309 | LB-R | 1 | 1 | 1 | 1 | 5 | 9 | 5 | S | 5 | 5 | 6 | 6 | 4 | 4 | 1.8 | 1.2 | 22.2 | 23.5 | 1 | 1 |
| 23 | 310 | LB-R | 1 | 1 | 5 | 5 | 5 | 5 | 5 | S | 5 | 5 | 6 | 6 | 5 | 2 | 1.4 | 1.0 | 18.9 | 18.4 | 1 | 1 |
| 24 | 319 | LB-R | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 2.1 | 1.7 | 20.6 | 17.9 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 296B | High yield | 1 | 1 | 1 | 1 | 9 | 5 | S | 5 | S | 5 | 4 | 4 | 2 | - | 1.4 | 1.0 | 21.0 | 19.4 | 1 | 1 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.60 | 1.20 | 21.15 | 19.01 | - | - |
| SE + | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.04 | 0.03 | 1.04 | 0.86 | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.40 | 4.80 | 8.50 | 7.83 | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 | 0.10 | 2.94 | 2.65 | - | - |

Annexure I-5. … Contd.

| Trait number ⟶ | | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Brix reading (%) | | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 209 | DM-R | 9.4 | 8.9 | 59.8 | 57.1 | 8.9 | 7.2 | 31.1 | 26.9 | 9.5 | 7.3 | 5 | 7 | 3 | 3 | 0.0 | 1.8 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 2 | 211 | DM-R | 10.0 | 15.8 | 69.3 | 62.7 | 8.2 | 6.8 | 28.6 | 29.2 | 9.8 | 9.4 | 7 | 7 | 3 | 3 | 0.2 | 1.5 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 3 | 212 | DM-R | 6.3 | 8.7 | 58.2 | 57.1 | 8.1 | 6.6 | 27.8 | 21.3 | 7.7 | 6.9 | 5 | 7 | 3 | 3 | 9.8 | 10.7 | 41.7 | 50.0 | 1 | 1 | 1 | 1 |
| 4 | 214 | DM-R | 12.0 | 13.3 | 74.1 | 69.6 | 10.8 | 7.6 | 32.2 | 22.1 | 9.1 | 7.2 | 5 | 5 | 3 | 3 | 0.9 | 1.8 | 41.7 | 41.7 | 1 | 1 | 1 | 1 |
| 5 | 219 | DM-R | 5.2 | 17.3 | 62.0 | 60.2 | 7.9 | 6.1 | 31.0 | 25.3 | 9.6 | 7.3 | 5 | 5 | 3 | 3 | 0.0 | 4.0 | 50.0 | 41.7 | 1 | 1 | 1 | 1 |
| 6 | 221 | DM-R | 7.6 | 13.7 | 66.4 | 57.1 | 8.2 | 6.8 | 29.7 | 22.4 | 7.8 | 5.7 | 7 | 7 | 3 | 3 | 0.0 | 2.9 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 7 | 232 | DM-R | 11.1 | 16.4 | 71.6 | 56.7 | 8.3 | 6.3 | 33.1 | 24.1 | 7.7 | 5.6 | 7 | 7 | 3 | 3 | 0.6 | 5.1 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 8 | 234 | DM-R | 11.9 | 11.9 | 70.1 | 59.1 | 8.6 | 6.6 | 29.8 | 25.7 | 6.4 | 5.9 | 5 | 7 | 3 | 3 | 1.6 | 8.1 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 9 | 238 | DM-R | 12.1 | 16.0 | 78.1 | 60.2 | 9.3 | 6.8 | 36.3 | 27.7 | 8.8 | 6.8 | 5 | 7 | 3 | 3 | 2.9 | 10.9 | 41.7 | 25.0 | 1 | 1 | 1 | 1 |
| 10 | 239 | DM-R | 12.8 | 13.9 | 69.8 | 55.1 | 8.2 | 6.4 | 30.9 | 25.6 | 7.7 | 5.0 | 7 | 7 | 3 | 3 | 0.4 | 7.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 11 | 240 | DM-R | 8.3 | 13.2 | 65.8 | 56.2 | 9.4 | 6.6 | 35.7 | 28.0 | 8.4 | 7.0 | 5 | 7 | 3 | 3 | 1.0 | 8.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 |
| 12 | 241 | DM-R | 7.6 | 14.9 | 62.1 | 58.6 | 8.2 | 6.8 | 33.3 | 25.7 | 7.2 | 6.1 | 5 | 7 | 3 | 3 | 2.1 | 11.2 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 13 | 242 | DM-R | 8.6 | 13.1 | 62.3 | 58.4 | 8.7 | 6.4 | 33.4 | 24.8 | 6.3 | 5.4 | 5 | 7 | 3 | 3 | 0.0 | 3.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 14 | 246 | DM-R | 10.2 | 14.3 | 67.8 | 62.0 | 8.9 | 7.1 | 34.4 | 25.7 | 7.6 | 5.6 | 5 | 7 | 3 | 3 | 6.3 | 8.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 15 | 248 | DM-R | 12.3 | 14.6 | 66.1 | 62.6 | 9.0 | 7.2 | 34.0 | 25.3 | 7.7 | 6.8 | 5 | 7 | 3 | 3 | 0.0 | 2.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 16 | 257 | DM-R | 9.9 | 13.6 | 66.1 | 57.4 | 9.4 | 7.0 | 34.3 | 26.8 | 10.4 | 7.0 | 5 | 5 | 3 | 3 | 0.0 | 3.6 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 17 | 258 | DM-R | 10.3 | 16.3 | 70.2 | 60.2 | 9.2 | 6.8 | 32.1 | 26.0 | 7.2 | 5.6 | 7 | 7 | 3 | 3 | 3.9 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 18 | 259 | DM-R | 10.4 | 16.2 | 63.1 | 57.0 | 7.9 | 6.4 | 34.7 | 25.8 | 7.5 | 6.8 | 5 | 5 | 3 | 3 | 1.2 | 4.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 19 | 306 | LB-R | 14.9 | 14.4 | 65.7 | 64.6 | 7.6 | 7.2 | 30.4 | 26.9 | 8.4 | 6.7 | 5 | 5 | 3 | 3 | 1.4 | 7.9 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 20 | 307 | LB-R | 16.3 | 15.9 | 74.6 | 56.6 | 8.7 | 6.4 | 28.3 | 26.1 | 9.3 | 8.1 | 5 | 7 | 3 | 3 | 3.2 | 9.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 21 | 308 | LB-R | 13.2 | 13.4 | 73.2 | 54.0 | 8.9 | 7.2 | 27.2 | 23.2 | 8.3 | 6.4 | 5 | 7 | 3 | 3 | 1.4 | 5.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 22 | 309 | LB-R | 16.7 | 15.0 | 62.7 | 61.7 | 8.0 | 7.2 | 27.8 | 21.7 | 7.6 | 6.3 | 7 | 7 | 3 | 3 | 4.1 | 7.8 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 23 | 310 | LB-R | 14.8 | 15.2 | 67.7 | 62.8 | 8.2 | 7.0 | 24.0 | 20.8 | 6.4 | 4.8 | 7 | 7 | 3 | 3 | 0.0 | 1.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 24 | 319 | LB-R | 17.9 | 17.2 | 69.9 | 57.7 | 8.4 | 6.7 | 27.2 | 25.3 | 8.4 | 6.2 | 5 | 7 | 3 | 3 | 9.8 | 21.9 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 296B | High yield | 8.2 | 17.8 | 63.3 | 65.2 | 8.1 | 6.9 | 31.2 | 25.1 | 7.0 | 5.8 | 7 | 7 | 3 | 3 | 2.1 | 3.1 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| Mean | | | 11.07 | 14.22 | 66.81 | 59.47 | 8.52 | 6.76 | 30.53 | 24.56 | 8.03 | 6.35 | - | - | - | - | 2.77 | 7.13 | 34.23 | 30.36 | - | - | - | - |
| SE ± | | | 1.41 | 1.55 | 3.41 | 2.61 | 0.35 | 0.30 | 0.94 | 0.98 | 0.38 | 0.54 | - | - | - | - | 0.38 | 0.68 | 4.61 | 3.79 | - | - | - | - |
| CV (%) | | | 22.13 | 18.87 | 8.85 | 7.60 | 7.03 | 7.76 | 5.35 | 6.91 | 8.25 | 14.67 | - | - | - | - | 23.60 | 16.55 | 23.31 | 21.60 | - | - | - | - |
| CD (5%) | | | 4.01 | 4.15 | 9.68 | 9.07 | 0.98 | 0.92 | 2.67 | 2.67 | 1.08 | 1.32 | - | - | - | - | 1.07 | 1.56 | 13.06 | 11.81 | - | - | - | - |

Annexure I-5. … Contd.

| Trait number → | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 209 | DM-R | 1 | 1 | 8 | 32.91 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 2.7 | 3.0 | 3.0 | 1.7 | 2.3 | 4.5 | 3.3 | 3.2 | 2.0 |
| 2 | 211 | DM-R | 1 | 1 | 9 | 24.26 | 3 | 3 | 5 | 7 | 4 | 1 | 7 | 8 | 3.7 | 3.0 | 4.3 | 4.3 | 3.0 | 1.3 | 3.1 | 5.3 | 1.4 | 3.5 |
| 3 | 212 | DM-R | 1 | 1 | 9 | 23.20 | 2 | 2 | 7 | 5 | 4 | 1 | 6 | 7 | 3.3 | 2.7 | 3.0 | 2.7 | 2.7 | 2.0 | 3.3 | 3.6 | 2.2 | 2.8 |
| 4 | 214 | DM-R | 1 | 1 | 9 | 23.18 | 2 | 2 | 5 | 7 | 4 | 1 | 6 | 7 | 3.0 | 3.3 | 3.0 | 2.3 | 1.7 | 2.0 | 4.8 | 4.0 | 3.5 | 3.0 |
| 5 | 219 | DM-R | 1 | 1 | 8 | 23.81 | 3 | 3 | 5 | 3 | 3 | 5 | 7 | 8 | 3.3 | 2.7 | 3.3 | 3.0 | 2.7 | 2.0 | 2.4 | 3.0 | 1.3 | 2.3 |
| 6 | 221 | DM-R | 1 | 1 | 8 | 28.13 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 8 | 3.3 | 2.7 | 3.0 | 3.3 | 1.7 | 2.0 | 3.3 | 4.3 | 2.0 | 3.1 |
| 7 | 232 | DM-R | 1 | 1 | 8 | 29.58 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 2.3 | 2.7 | 2.3 | 1.3 | 1.3 | 3.9 | 3.7 | 2.3 | 2.5 |
| 8 | 234 | DM-R | 1 | 1 | 8 | 29.58 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 3.0 | 2.3 | 1.7 | 1.7 | 3.7 | 4.5 | 2.4 | 3.3 |
| 9 | 238 | DM-R | 1 | 1 | 8 | 30.05 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.3 | 3.0 | 2.7 | 1.7 | 1.0 | 3.4 | 4.5 | 1.8 | 3.4 |
| 10 | 239 | DM-R | 1 | 1 | 8 | 28.79 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.3 | 3.0 | 3.0 | 2.3 | 1.3 | 1.7 | 4.4 | 4.0 | 2.7 | 3.0 |
| 11 | 240 | DM-R | 1 | 1 | 8 | 31.57 | 3 | 3 | 5 | 5 | 3 | 5 | 7 | 8 | 3.0 | 3.0 | 3.0 | 3.0 | 1.7 | 1.7 | 4.4 | 5.0 | 3.0 | 3.2 |
| 12 | 241 | DM-R | 1 | 1 | 8 | 29.98 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 2.7 | 3.0 | 2.7 | 1.3 | 2.0 | 3.9 | 3.5 | 2.6 | 2.3 |
| 13 | 242 | DM-R | 1 | 1 | 8 | 30.94 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 2.7 | 3.0 | 3.0 | 2.7 | 2.0 | 2.0 | 4.4 | 3.8 | 3.0 | 2.5 |
| 14 | 246 | DM-R | 1 | 1 | 8 | 31.89 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 3.0 | 2.7 | 1.7 | 1.7 | 4.3 | 3.7 | 2.9 | 2.6 |
| 15 | 248 | DM-R | 1 | 1 | 8 | 31.50 | 3 | 3 | 5 | 5 | 3 | 1 | 7 | 7 | 3.0 | 3.3 | 3.0 | 2.7 | 1.3 | 2.0 | 4.9 | 4.4 | 3.3 | 3.0 |
| 16 | 257 | DM-R | 1 | 1 | 8 | 29.84 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 2.7 | 3.0 | 2.7 | 2.0 | 1.3 | 4.7 | 4.2 | 3.2 | 2.9 |
| 17 | 258 | DM-R | 1 | 1 | 8 | 33.71 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 8 | 3.0 | 2.7 | 3.0 | 3.3 | 1.7 | 2.0 | 4.4 | 3.3 | 3.0 | 2.0 |
| 18 | 259 | DM-R | 1 | 1 | 8 | 27.10 | 3 | 3 | 5 | 5 | 3 | 1 | 7 | 8 | 3.0 | 2.7 | 4.0 | 3.7 | 2.7 | 1.0 | 3.5 | 5.2 | 1.8 | 3.2 |
| 19 | 306 | LB-R | 1 | 1 | 8 | 32.88 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 2.7 | 3.0 | 2.7 | 2.3 | 2.3 | 1.0 | 3.9 | 5.6 | 2.9 | 4.3 |
| 20 | 307 | LB-R | 1 | 1 | 8 | 28.98 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 3.0 | 2.7 | 2.7 | 1.3 | 3.7 | 4.3 | 2.8 | 2.5 |
| 21 | 308 | LB-R | 1 | 1 | 8 | 24.38 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.7 | 1.7 | 1.3 | 5.0 | 6.4 | 4.0 | 5.1 |
| 22 | 309 | LB-R | 1 | 1 | 1 | 37.06 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 2.3 | 3.3 | 1.7 | 1.3 | 5.2 | 5.2 | 4.2 | 4.1 |
| 23 | 310 | LB-R | 1 | 1 | 8 | 32.10 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 6 | 3.0 | 2.7 | 3.0 | 2.3 | 2.7 | 2.0 | 4.2 | 5.6 | 3.1 | 4.2 |
| 24 | 319 | LB-R | 1 | 1 | 1 | 38.14 | 3 | 3 | 7 | 5 | 3 | 7 | 6 | 7 | 2.7 | 3.0 | 3.0 | 2.7 | 2.3 | 1.7 | 3.3 | 3.9 | 2.2 | 2.7 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 296B | High yield | 1 | 1 | 8 | 28.36 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 1.3 | 1.3 | 4.5 | 3.3 | 3.2 | 2.0 |
| Mean | | | - | - | - | 29.74 | - | - | - | - | - | - | 6 | 7 | 2.99 | 2.80 | 2.96 | 2.69 | 2.04 | 1.64 | 3.99 | 4.37 | 2.72 | 3.09 |
| SE ± | | | - | - | - | 1.07 | - | - | - | - | - | - | 0.22 | 0.20 | 0.23 | 0.28 | 0.17 | 0.28 | 0.30 | 0.22 | 0.40 | 0.25 | 0.31 | 0.22 |
| CV (%) | | | - | - | - | 6.24 | - | - | - | - | - | - | 6.43 | 4.74 | 13.54 | 17.62 | 9.94 | 17.88 | 25.43 | 23.46 | 17.32 | 10.10 | 19.76 | 12.58 |
| CD (5%) | | | - | - | - | 3.04 | - | - | - | - | - | - | 0.64 | 0.65 | 0.66 | 0.73 | 0.48 | 0.70 | 0.85 | 0.75 | 1.14 | 1.10 | 0.89 | 0.89 |

Annexure I-5. … Contd.

| Trait number ⟶ | | | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % under high atmospheric temperature in A-line | Seed set % in A-line under open pollination | Downy mildew infected plants% | Leaf blight score | Rust score |
| | | | Summer | Postrainy | Rainy | Postrainy | Postrainy |
| 1 | 209 | DM-R | 0 | 65 | 7 | - | - |
| 2 | 211 | DM-R | 0 | - | 23 | - | - |
| 3 | 212 | DM-R | 0 | 15 | 1 | - | - |
| 4 | 214 | DM-R | 0 | 50 | 5 | - | - |
| 5 | 219 | DM-R | 0 | 55 | 14 | - | - |
| 6 | 221 | DM-R | 0 | 40 | 11 | - | - |
| 7 | 232 | DM-R | 0 | 15 | 7 | - | - |
| 8 | 234 | DM-R | 0 | 25 | 15 | - | - |
| 9 | 238 | DM-R | 0 | 50 | 20 | - | - |
| 10 | 239 | DM-R | 0 | 45 | 10 | - | - |
| 11 | 240 | DM-R | 0 | 20 | 4 | - | - |
| 12 | 241 | DM-R | 0 | 15 | 0 | - | - |
| 13 | 242 | DM-R | 0 | 15 | 1 | - | - |
| 14 | 246 | DM-R | 0 | 40 | 22 | - | - |
| 15 | 248 | DM-R | 0 | 20 | 1 | - | - |
| 16 | 257 | DM-R | 0 | 30 | 15 | - | - |
| 17 | 258 | DM-R | 0 | 25 | 0 | - | - |
| 18 | 259 | DM-R | 0 | 30 | 15 | - | - |
| 19 | 306 | LB-R | 0 | 20 | - | 4.5 | 2.7 |
| 20 | 307 | LB-R | 0 | 25 | - | 3.4 | 2.5 |
| 21 | 308 | LB-R | 10 | 15 | - | 3.6 | 2.5 |
| 22 | 309 | LB-R | 0 | 40 | - | 4 | 2.7 |
| 23 | 310 | LB-R | 40 | 30 | - | 4 | 2.4 |
| 24 | 319 | LB-R | 0 | 25 | - | 5.4 | 2.7 |
| Control | | | | | | | |
| 25 | 296B | High yield | - | - | - | - | - |
| Mean | | | - | - | - | - | - |
| SE ± | | | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - |

Annexure I-6. Characteristics of stress tolerant (early maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 567 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 73 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 9 |
| 2 | 568 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 61 | 74 | 1.0 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| 3 | 569 | *Striga* | 2 | 1 | 1 | 1 | 2 | 2 | 75 | 93 | 1.2 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 571 | *Striga* | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 79 | 1.2 | 0.9 | 5 | 7 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 572 | *Striga* | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 76 | 1.2 | 0.9 | 3 | 7 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 584 | *Striga* | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 88 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 9 |
| 7 | 594 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 66 | 84 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 598 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 61 | 83 | 0.8 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 599 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 73 | 1.0 | 0.8 | 5 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 671 | Tillering | 2 | 1 | 1 | 3 | 2 | 2 | 59 | 75 | 1.1 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 682 | Stay green | 1 | 1 | 1 | 1 | 2 | 2 | 63 | 76 | 1.3 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 296B | High yield | 2 | 2 | 3 | 1 | 2 | 2 | 78 | 93 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 69 | 80 | 1.20 | 0.86 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 0.91 | 1.39 | 0.08 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 2.30 | 3.02 | 10.96 | 6.43 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 2.62 | 4.12 | 0.22 | 0.16 | - | - | - | - | - | - | - | - | - | - |

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-51 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-6. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 567 | *Striga* | 1 | 1 | 1 | 1 | 9 | 5 | 3 | 3 | 5 | 5 | 7 | 7 | 4 | 5 | 1.4 | 1.0 | 16.6 | 12.8 | 1 | 1 |
| 2 | 568 | *Striga* | 1 | 1 | 7 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 7 | 4 | 2 | 5 | 1.5 | 1.1 | 15.9 | 13.7 | 1 | 1 |
| 3 | 569 | *Striga* | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.6 | 1.1 | 17.8 | 16.7 | 1 | 1 |
| 4 | 571 | *Striga* | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 1.4 | 1.1 | 16.2 | 12.9 | 1 | 1 |
| 5 | 572 | *Striga* | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.5 | 1.2 | 15.2 | 13.8 | 1 | 2 |
| 6 | 584 | *Striga* | 1 | 1 | 5 | 1 | 5 | 9 | 5 | 5 | 3 | 3 | 6 | 4 | 4 | 5 | 1.4 | 1.0 | 17.6 | 15.5 | 1 | 1 |
| 7 | 594 | *Striga* | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.3 | 1.0 | 16.8 | 16.8 | 1 | 1 |
| 8 | 598 | *Striga* | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.2 | 1.0 | 15.9 | 16.8 | 1 | 1 |
| 9 | 599 | *Striga* | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 1.3 | 1.1 | 15.4 | 14.5 | 1 | 1 |
| 10 | 671 | Tillering | 1 | 1 | 7 | 5 | 3 | 3 | 7 | 7 | 5 | 5 | 7 | 4 | 4 | 5 | 1.5 | 1.3 | 12.9 | 15.5 | 1 | 2 |
| 11 | 682 | Stay green | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 5 | 5 | 1.5 | 1.2 | 14.6 | 13.9 | 2 | 2 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 296B | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.1 | 22.3 | 17.4 | 2 | 2 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.53 | 1.18 | 17.13 | 15.07 | - | - |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.04 | 0.07 | 0.98 | 1.01 | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.64 | 10.97 | 9.91 | 11.60 | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 | 0.18 | 2.88 | 2.95 | - | - |

Annexure I-6. … Contd.

| Trait number → | | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Brix reading (%) | | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 567 | *Striga* | 6.3 | 10.3 | 72.2 | 56.9 | 7.3 | 6.0 | 30.2 | 23.9 | 7.6 | 6.0 | 3 | 3 | 3 | 3 | 9.3 | 14.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 2 | 568 | *Striga* | 4.0 | 14.3 | 58.3 | 59.9 | 6.9 | 6.3 | 31.8 | 24.4 | 9.1 | 7.0 | 5 | 5 | 3 | 3 | 17.0 | 15.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 3 | 569 | *Striga* | 10.0 | 12.7 | 75.2 | 61.9 | 8.7 | 6.0 | 30.7 | 23.1 | 7.3 | 5.2 | 7 | 7 | 3 | 3 | 11.0 | 13.3 | 62.5 | 25.0 | 1 | 1 | 1 | 1 |
| 4 | 571 | *Striga* | 5.7 | 9.3 | 70.0 | 62.2 | 8.1 | 6.2 | 25.1 | 19.6 | 4.9 | 4.1 | 7 | 7 | 3 | 3 | 0.0 | 5.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 5 | 572 | *Striga* | 6.7 | 13.0 | 70.7 | 57.8 | 7.6 | 5.9 | 25.9 | 23.0 | 5.6 | 5.3 | 7 | 7 | 3 | 3 | 5.0 | 9.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 6 | 584 | *Striga* | 15.0 | 16.3 | 80.9 | 62.6 | 7.6 | 6.0 | 21.6 | 17.1 | 7.2 | 5.0 | 5 | 5 | 3 | 3 | 5.3 | 12.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 7 | 594 | *Striga* | 10.3 | 13.3 | 67.7 | 64.7 | 7.4 | 6.9 | 26.7 | 22.1 | 6.8 | 4.6 | 5 | 7 | 3 | 3 | 9.7 | 12.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 8 | 598 | *Striga* | 12.7 | 14.0 | 67.0 | 63.6 | 7.3 | 7.4 | 23.8 | 21.3 | 6.3 | 5.7 | 3 | 5 | 3 | 3 | 15.3 | 10.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 9 | 599 | *Striga* | 8.3 | 13.3 | 74.0 | 56.9 | 8.2 | 7.1 | 27.1 | 19.8 | 7.4 | 6.2 | 5 | 5 | 3 | 3 | 1.7 | 10.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 10 | 671 | Tillering | 11.0 | 14.3 | 44.4 | 56.4 | 4.6 | 5.3 | 21.3 | 22.6 | 6.7 | 6.8 | 3 | 3 | 3 | 3 | 16.7 | 17.0 | 100.0 | 66.7 | 1 | 1 | 1 | 1 |
| 11 | 682 | Stay green | 5.7 | 14.7 | 53.9 | 48.9 | 6.9 | 5.6 | 31.7 | 27.1 | 10.1 | 7.4 | 3 | 5 | 3 | 3 | 8.0 | 13.0 | 33.3 | 41.7 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 296B | High yield | 6.3 | 13.0 | 74.3 | 55.9 | 8.6 | 6.4 | 32.4 | 24.2 | 6.1 | 4.8 | 7 | 7 | 3 | 3 | 0.0 | 4.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| Mean | | | 9.40 | 13.08 | 67.28 | 57.73 | 7.39 | 6.19 | 27.49 | 22.67 | 7.64 | 6.16 | - | - | - | - | 8.38 | 12.48 | 41.85 | 33.33 | - | - | - | - |
| SE ± | | | 0.77 | 0.84 | 2.92 | 2.80 | 0.41 | 0.41 | 0.78 | 0.79 | 0.58 | 0.50 | - | - | - | - | 0.95 | 1.47 | 4.63 | 2.85 | - | - | - | - |
| CV (%) | | | 14.11 | 11.14 | 7.53 | 8.41 | 9.55 | 11.37 | 4.88 | 6.03 | 13.13 | 14.04 | - | - | - | - | 19.70 | 20.45 | 19.17 | 14.79 | - | - | - | - |
| CD (5%) | | | 2.25 | 2.28 | 8.60 | 8.12 | 1.20 | 1.17 | 2.28 | 2.20 | 1.70 | 1.63 | - | - | - | - | 2.80 | 3.62 | 13.89 | 10.89 | - | - | - | - |

Annexure I-6. … Contd.

| Trait number → | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 567 | *Striga* | 1 | 1 | 8 | 27.15 | 3 | 3 | 7 | 5 | 3 | 1 | 4 | 6 | 3.0 | 2.3 | 2.0 | 1.3 | 2.0 | 2.7 | 3.8 | 2.8 | 2.9 | 1.9 |
| 2 | 568 | *Striga* | 1 | 1 | 1 | 30.45 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 3.0 | 2.0 | 2.3 | 1.3 | 2.7 | 2.0 | 3.6 | 3.2 | 2.8 | 2.6 |
| 3 | 569 | *Striga* | 1 | 1 | 1 | 30.90 | 2 | 2 | 5 | 3 | 3 | 7 | 4 | 7 | 2.3 | 3.3 | 3.0 | 2.3 | 1.5 | 2.0 | 4.9 | 4.2 | 3.9 | 3.6 |
| 4 | 571 | *Striga* | 1 | 1 | 1 | 28.48 | 3 | 3 | 7 | 5 | 3 | 5 | 4 | 7 | 3.0 | 2.0 | 2.7 | 2.0 | 1.7 | 1.7 | 4.0 | 2.9 | 3.0 | 2.0 |
| 5 | 572 | *Striga* | 1 | 1 | 1 | 30.20 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.0 | 2.0 | 2.3 | 1.3 | 2.3 | 1.7 | 3.8 | 4.1 | 2.7 | 3.3 |
| 6 | 584 | *Striga* | 1 | 1 | 8 | 27.43 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 6 | 3.0 | 2.7 | 2.3 | 1.3 | 2.3 | 2.3 | 3.1 | 3.2 | 2.2 | 2.5 |
| 7 | 594 | *Striga* | 1 | 1 | 1 | 25.45 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 3.3 | 3.0 | 2.3 | 2.0 | 3.3 | 2.0 | 2.8 | 3.4 | 2.1 | 2.8 |
| 8 | 598 | *Striga* | 1 | 1 | 1 | 31.71 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 4.0 | 3.0 | 2.7 | 3.0 | 3.0 | 2.3 | 2.3 | 2.6 | 1.6 | 2.1 |
| 9 | 599 | *Striga* | 1 | 1 | 1 | 28.82 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 2.3 | 2.3 | 2.7 | 3.0 | 2.3 | 3.9 | 2.6 | 2.8 | 2.1 |
| 10 | 671 | Tillering | 1 | 1 | 1 | 27.74 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 2.3 | 2.3 | 3.0 | 3.3 | 3.0 | 2.0 | 2.5 | 1.1 | 2.1 |
| 11 | 682 | Stay green | 1 | 1 | 8 | 25.77 | 3 | 3 | 5 | 3 | 3 | 1 | 7 | 8 | 3.7 | 3.0 | 2.7 | 3.7 | 2.3 | 2.7 | 3.7 | 2.0 | 2.8 | 1.3 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 296B | High yield | 1 | 1 | 8 | 27.85 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.3 | 2.7 | 3.3 | 3.0 | 1.3 | 1.0 | 5.0 | 2.9 | 3.5 | 2.0 |
| Mean | | | - | - | - | 28.21 | - | - | - | - | - | - | 5 | 7 | 3.12 | 2.56 | 2.50 | 2.06 | 2.61 | 2.10 | 3.53 | 3.17 | 2.62 | 2.49 |
| SE ± | | | - | - | - | 1.11 | - | - | - | - | - | - | 0.44 | 0.23 | 0.23 | 0.29 | 0.32 | 0.28 | 0.26 | 0.28 | 0.35 | 0.25 | 0.31 | 0.21 |
| CV (%) | | | - | - | - | 6.84 | - | - | - | - | - | - | 15.30 | 5.80 | 12.62 | 19.67 | 22.16 | 23.21 | 17.20 | 22.68 | 17.32 | 13.76 | 20.21 | 14.70 |
| CD (5%) | | | - | - | - | 3.23 | - | - | - | - | - | - | 1.26 | 0.97 | 0.66 | 0.73 | 0.92 | 0.84 | 0.78 | 0.78 | 1.04 | 1.02 | 0.90 | 0.87 |

Annexure I-6. … Contd.

| Trait number ⟶ | | | 48 | 49 | 50 | 51 |
|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature | Seed set % in A-line under open pollination | Plant color | Striga count |
| | | | Summer | Postrainy | Postrainy | Postrainy |
| 1 | 567 | *Striga* | 0 | 70 | - | 1 |
| 2 | 568 | *Striga* | 0 | 45 | - | 1 |
| 3 | 569 | *Striga* | 0 | 35 | - | 1 |
| 4 | 571 | *Striga* | 0 | 45 | - | 1 |
| 5 | 572 | *Striga* | 0 | 50 | - | 0 |
| 6 | 584 | *Striga* | 0 | 45 | - | 1 |
| 7 | 594 | *Striga* | 0 | 30 | - | 1 |
| 8 | 598 | *Striga* | 0 | 25 | - | 0 |
| 9 | 599 | *Striga* | 0 | 60 | - | 1 |
| 10 | 671 | Tillering | 0 | 10 | Non tan | - |
| 11 | 682 | Stay green | 0 | 30 | Non tan | - |
| Control | | | | | | |
| 12 | 296B | High yield | - | - | - | - |
| Mean | | | - | - | - | - |
| SE ± | | | - | - | - | - |
| CV (%) | | | - | - | - | - |
| CD (5%) | | | - | - | - | - |

Annexure I-7. Characteristics of stress tolerant (medium maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number → | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 566 | *Striga* | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 76 | 1.1 | 0.7 | 5 | 7 | 3 | 2 | 5 | 1 | 1 | 1 | 5 | 5 |
| 2 | 573 | *Striga* | 2 | 2 | 3 | 3 | 2 | 2 | 72 | 80 | 1.2 | 0.8 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 574 | *Striga* | 2 | 1 | 3 | 1 | 2 | 2 | 68 | 93 | 1.2 | 0.9 | 1 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 575 | *Striga* | 2 | 1 | 1 | 1 | 3 | 2 | 66 | 84 | 1.1 | 0.9 | 7 | 7 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 580 | *Striga* | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 85 | 0.8 | 0.6 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 581 | *Striga* | 1 | 1 | 3 | 3 | 2 | 2 | 75 | 81 | 0.9 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 582 | *Striga* | 1 | 1 | 3 | 3 | 2 | 2 | 78 | 80 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 585 | *Striga* | 2 | 1 | 3 | 1 | 2 | 2 | 68 | 79 | 0.9 | 0.6 | 5 | 5 | - | - | 1 | 1 | 1 | 1 | 5 | 9 |
| 9 | 586 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 64 | 90 | 0.7 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 9 |
| 10 | 588 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 76 | 0.7 | 0.6 | 5 | 5 | - | - | 1 | 1 | 1 | 1 | 5 | 9 |
| 11 | 590 | *Striga* | 1 | 1 | 1 | 1 | 2 | 2 | 80 | 92 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 595 | *Striga* | 2 | 1 | 3 | 1 | 2 | 2 | 66 | 83 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 597 | *Striga* | 2 | 1 | 1 | 1 | 2 | 2 | 69 | 81 | 1.1 | 0.8 | 1 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 600 | Acid | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 82 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 601 | Acid | 2 | 1 | 1 | 1 | 2 | 2 | 76 | 84 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 602 | Acid | 2 | 2 | 3 | 3 | 2 | 2 | 69 | 94 | 1.2 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 603 | Acid | 1 | 1 | 3 | 1 | 2 | 2 | 75 | 94 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 605 | Acid | 1 | 1 | 1 | 1 | 2 | 2 | 80 | 85 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 606 | Acid | 2 | 1 | 1 | 1 | 2 | 2 | 79 | 91 | 1.2 | 0.8 | - | 1 | - | 2 | - | 1 | 1 | 1 | - | 1 |
| 20 | 610 | Acid | 2 | 2 | 3 | 3 | 2 | 2 | 69 | 78 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 612 | Acid | 2 | 2 | 3 | 3 | 2 | 2 | 72 | 81 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 614 | Acid | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 79 | 1.4 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 676 | Stay green | 2 | 2 | 3 | 3 | 2 | 2 | 72 | 85 | 1.0 | 0.7 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 679 | Stay green | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 87 | 1.2 | 0.7 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 5 | 9 |
| 25 | 680 | Stay green | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 79 | 1.9 | 1.3 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 685 | Stay green | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 77 | 0.7 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | - | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 296B | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 94 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 72 | 83 | 1.16 | 0.81 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 1.38 | 1.82 | 0.06 | 0.04 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 3.33 | 3.80 | 8.67 | 7.46 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 4.00 | 4.60 | 0.17 | 0.14 | - | - | - | - | - | - | - | - | - | - |

ACID- Acid Soil Tolerant.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-52 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-7. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 566 | *Striga* | 1 | 1 | 5 | 1 | 9 | 9 | 3 | 3 | 5 | 5 | 6 | 4 | 6 | 5 | 1.5 | 1.0 | 15.8 | 13.2 | 1 | 1 | 12.7 | 14.3 |
| 2 | 573 | *Striga* | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 4 | 7 | 1.5 | 1.0 | 16.4 | 11.2 | 1 | 1 | 5.3 | 9.7 |
| 3 | 574 | *Striga* | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.6 | 1.2 | 17.9 | 19.1 | 1 | 1 | 8.0 | 15.0 |
| 4 | 575 | *Striga* | 1 | 1 | 7 | 1 | 3 | 5 | 5 | 3 | 5 | 7 | 4 | 6 | 2 | 1 | 1.4 | 1.1 | 15.3 | 15.2 | 1 | 1 | 7.0 | 14.7 |
| 5 | 580 | *Striga* | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 4 | 5 | 1.1 | 0.9 | 16.7 | 15.6 | 1 | 1 | 14.0 | 14.0 |
| 6 | 581 | *Striga* | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 4 | 4 | 2 | 1.1 | 0.9 | 18.8 | 17.7 | 1 | 1 | 14.3 | 12.7 |
| 7 | 582 | *Striga* | 1 | 1 | 1 | 1 | 5 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 2 | 1.3 | 1.0 | 17.1 | 17.5 | 1 | 1 | 16.3 | 12.0 |
| 8 | 585 | *Striga* | 1 | 1 | 5 | 5 | 3 | 5 | 5 | 3 | 5 | 5 | 6 | 4 | 2 | 2 | 1.2 | 0.9 | 19.2 | 17.0 | 1 | 1 | 13.0 | 15.0 |
| 9 | 586 | *Striga* | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 7 | 5 | 7 | 4 | 2 | 2 | 1.0 | 0.9 | 19.4 | 21.0 | 1 | 1 | 17.7 | 11.3 |
| 10 | 588 | *Striga* | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 5 | 6 | 7 | 4 | 7 | 1.0 | 0.8 | 20.5 | 16.6 | 1 | 1 | 7.7 | 12.3 |
| 11 | 590 | *Striga* | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 2 | 1.7 | 1.3 | 18.4 | 16.4 | 1 | 1 | 11.3 | 15.7 |
| 12 | 595 | *Striga* | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 1 | 1.3 | 1.1 | 17.8 | 16.8 | 1 | 1 | 13.0 | 15.3 |
| 13 | 597 | *Striga* | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 7 | 1.4 | 1.0 | 15.7 | 17.3 | 1 | 1 | 7.0 | 12.0 |
| 14 | 600 | Acid | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 4 | 7 | 8 | 1.4 | 1.1 | 22.6 | 14.8 | 1 | 1 | 10.0 | 13.3 |
| 15 | 601 | Acid | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 4 | 7 | 1.4 | 1.1 | 18.8 | 15.7 | 1 | 1 | 8.0 | 15.0 |
| 16 | 602 | Acid | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.6 | 1.3 | 18.1 | 17.1 | 1 | 1 | 11.3 | 17.0 |
| 17 | 603 | Acid | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 5 | 1.6 | 1.2 | 18.4 | 18.6 | 1 | 1 | 15.0 | 12.3 |
| 18 | 605 | Acid | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 5 | 3 | 6 | 4 | 4 | 5 | 1.7 | 1.1 | 20.0 | 18.9 | 1 | 1 | 10.7 | 11.3 |
| 19 | 606 | Acid | - | 1 | - | 1 | - | 3 | - | 3 | - | 5 | - | 4 | - | 5 | 1.5 | 1.0 | 19.9 | 18.7 | - | 1 | 14.0 | 14.3 |
| 20 | 610 | Acid | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 3 | 5 | 6 | 6 | 4 | 2 | 1.8 | 1.3 | 17.8 | 15.5 | 1 | 1 | 11.0 | 15.0 |
| 21 | 612 | Acid | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 7 | 1.4 | 1.1 | 15.7 | 15.7 | 1 | 1 | 9.0 | 15.3 |
| 22 | 614 | Acid | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 7 | 6 | 2 | 1.6 | 1.2 | 19.1 | 15.9 | 1 | 1 | 16.7 | 14.7 |
| 23 | 676 | Stay green | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 7 | 1.3 | 0.9 | 22.9 | 21.3 | 1 | 1 | 13.7 | 17.3 |
| 24 | 679 | Stay green | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.4 | 0.8 | 19.1 | 18.4 | 1 | 1 | 13.3 | 15.0 |
| 25 | 680 | Stay green | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 3 | 8 | 2.3 | 1.7 | 17.2 | 15.8 | 1 | 1 | 11.0 | 12.3 |
| 26 | 685 | Stay green | 1 | 1 | 7 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 7 | 2 | 2 | 1.0 | 0.8 | 17.0 | 15.2 | - | 1 | 19.5 | 14.7 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 296B | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.0 | 22.4 | 20.5 | 1 | 1 | 6.7 | 16.0 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.49 | 1.10 | 18.34 | 16.63 | - | - | 11.85 | 13.90 |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.06 | 0.04 | 0.97 | 1.35 | - | - | 0.87 | 0.94 |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.54 | 5.92 | 9.18 | 14.06 | - | - | 12.73 | 11.78 |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.16 | 0.14 | 2.84 | 3.32 | - | - | 2.58 | 2.69 |

Annexure I-7. … Contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 566 | *Striga* | 78.2 | 58.8 | 8.0 | 5.6 | 28.1 | 24.1 | 8.0 | 7.3 | 5 | 7 | 3 | 4 | 5.7 | 10.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 573 | *Striga* | 73.7 | 56.2 | 7.4 | 5.4 | 27.7 | 21.0 | 6.3 | 4.4 | 5 | 7 | 3 | 3 | 1.3 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 574 | *Striga* | 69.0 | 64.3 | 8.3 | 6.2 | 29.7 | 21.0 | 8.3 | 6.2 | 5 | 7 | 3 | 3 | 10.3 | 15.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 575 | *Striga* | 72.9 | 55.4 | 9.4 | 6.9 | 26.3 | 18.1 | 6.7 | 3.8 | 5 | 7 | 3 | 3 | 8.0 | 10.3 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 580 | *Striga* | 69.2 | 55.6 | 7.4 | 6.2 | 22.7 | 19.2 | 5.6 | 5.6 | 7 | 7 | 3 | 3 | 10.7 | 14.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 581 | *Striga* | 71.8 | 56.0 | 8.0 | 6.2 | 30.3 | 21.8 | 5.7 | 5.3 | 5 | 7 | 3 | 3 | 6.7 | 10.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 582 | *Striga* | 67.7 | 59.1 | 7.4 | 6.2 | 30.0 | 22.1 | 7.1 | 6.3 | 5 | 5 | 3 | 3 | 7.3 | 8.7 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 585 | *Striga* | 80.0 | 66.2 | 8.3 | 6.1 | 28.3 | 22.9 | 6.8 | 6.3 | 7 | 7 | 3 | 3 | 10.7 | 7.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 586 | *Striga* | 66.7 | 67.9 | 8.3 | 8.1 | 26.3 | 26.8 | 8.1 | 7.8 | 5 | 5 | 3 | 3 | 5.0 | 5.7 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 588 | *Striga* | 75.0 | 63.9 | 7.4 | 6.2 | 26.4 | 22.0 | 5.5 | 5.9 | 7 | 7 | 3 | 3 | 7.7 | 9.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 590 | *Striga* | 63.7 | 58.9 | 7.6 | 6.8 | 26.3 | 24.6 | 5.6 | 6.1 | 7 | 7 | 3 | 3 | 18.0 | 19.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 595 | *Striga* | 66.9 | 65.0 | 7.1 | 6.6 | 28.8 | 21.6 | 7.4 | 4.8 | 5 | 5 | 3 | 3 | 17.0 | 19.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 597 | *Striga* | 78.7 | 69.3 | 7.7 | 6.9 | 26.0 | 21.8 | 6.5 | 5.9 | 5 | 5 | 3 | 3 | 4.7 | 8.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 600 | Acid | 79.9 | 64.0 | 8.8 | 7.1 | 33.1 | 23.9 | 7.2 | 5.0 | 5 | 7 | 3 | 3 | 5.0 | 10.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 601 | Acid | 66.0 | 62.0 | 7.7 | 6.0 | 34.4 | 26.0 | 8.2 | 7.1 | 5 | 7 | 3 | 3 | 13.7 | 20.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 602 | Acid | 69.3 | 58.0 | 7.8 | 6.0 | 30.8 | 28.2 | 8.1 | 7.4 | 5 | 3 | 3 | 3 | 5.0 | 7.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 603 | Acid | 82.8 | 69.1 | 7.7 | 5.6 | 26.3 | 21.7 | 7.8 | 5.9 | 7 | 5 | 3 | 3 | 4.0 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 605 | Acid | 74.2 | 67.8 | 8.4 | 7.0 | 25.7 | 22.1 | 5.3 | 4.8 | 7 | 7 | 3 | 3 | 3.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 606 | Acid | 70.8 | 62.0 | 7.8 | 6.7 | 24.2 | 20.1 | 5.9 | 4.9 | - | 7 | - | 3 | 6.5 | 6.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 610 | Acid | 71.6 | 60.8 | 8.1 | 7.1 | 30.9 | 25.6 | 8.2 | 6.0 | 5 | 5 | 3 | 3 | 5.3 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 612 | Acid | 69.2 | 57.0 | 7.3 | 5.9 | 28.9 | 21.6 | 5.5 | 5.2 | 5 | 7 | 3 | 3 | 10.0 | 14.3 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 614 | Acid | 68.4 | 58.7 | 8.0 | 6.6 | 26.2 | 22.1 | 6.0 | 5.9 | 7 | 7 | 3 | 3 | 4.0 | 6.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 676 | Stay green | 73.0 | 63.4 | 8.9 | 7.7 | 26.3 | 23.1 | 5.2 | 6.8 | 7 | 5 | 3 | 3 | 3.3 | 4.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 679 | Stay green | 68.2 | 58.6 | 8.6 | 7.6 | 29.0 | 23.0 | 7.6 | 7.2 | 5 | 7 | 3 | 3 | 1.0 | 1.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 680 | Stay green | 68.3 | 57.6 | 7.7 | 7.1 | 31.9 | 24.4 | 8.9 | 6.6 | 5 | 5 | 3 | 3 | 12.0 | 16.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 685 | Stay green | 67.8 | 53.1 | 7.0 | 5.8 | 27.3 | 21.3 | 6.3 | 6.3 | 5 | 5 | 3 | 3 | 4.7 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 296B | High yield | 79.0 | 60.4 | 8.8 | 6.7 | 33.3 | 24.8 | 5.7 | 5.4 | 7 | 7 | 3 | 3 | 2.0 | 2.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | | 71.06 | 60.32 | 7.94 | 6.46 | 27.59 | 22.03 | 6.80 | 5.93 | - | - | - | - | 7.39 | 9.59 | 29.50 | 26.73 | - | - | - | - | - | - |
| SE ± | | | 2.97 | 2.53 | 0.38 | 0.34 | 1.10 | 0.89 | 0.55 | 0.53 | - | - | - | - | 0.70 | 0.78 | 5.06 | 3.49 | - | - | - | - | - | - |
| CV (%) | | | 7.25 | 7.27 | 8.39 | 9.10 | 6.91 | 7.03 | 14.01 | 15.50 | - | - | - | - | 16.29 | 14.14 | 29.71 | 22.62 | - | - | - | - | - | - |
| CD (5%) | | | 8.67 | 8.06 | 1.12 | 1.04 | 3.21 | 2.88 | 1.60 | 1.53 | - | - | - | - | 1.99 | 2.09 | 14.52 | 12.34 | - | - | - | - | - | - |

Annexure I-7. … Contd.

| Trait number → | | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 566 | *Striga* | 8 | 30.36 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 2.7 | 2.7 | 2.0 | 1.7 | 2.3 | 2.3 | 4.4 | 2.9 | 3.2 | 2.3 |
| 2 | 573 | *Striga* | 1 | 29.97 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 2.7 | 2.0 | 2.3 | 2.3 | 1.7 | 2.0 | 4.2 | 3.5 | 3.1 | 2.4 |
| 3 | 574 | *Striga* | 8 | 24.13 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 7 | 2.3 | 2.7 | 2.0 | 2.7 | 1.7 | 2.3 | 4.1 | 2.7 | 3.0 | 2.1 |
| 4 | 575 | *Striga* | 1 | 32.77 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 3.0 | 3.0 | 1.7 | 1.3 | 2.3 | 2.7 | 3.9 | 3.4 | 2.8 | 2.8 |
| 5 | 580 | *Striga* | 1 | 24.19 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 2.7 | 2.7 | 2.0 | 2.7 | 2.7 | 2.7 | 2.3 | 2.2 | 1.7 | 1.9 |
| 6 | 581 | *Striga* | 1 | 22.73 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 3.0 | 3.0 | 2.0 | 1.7 | 3.0 | 2.3 | 2.6 | 2.1 | 1.7 | 1.7 |
| 7 | 582 | *Striga* | 1 | 25.73 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 2.7 | 2.7 | 2.0 | 2.3 | 3.0 | 2.3 | 2.5 | 2.3 | 1.7 | 1.7 |
| 8 | 585 | *Striga* | 8 | 32.26 | 3 | 3 | 5 | 7 | 3 | 7 | 4 | 7 | 2.3 | 2.7 | 2.3 | 1.3 | 1.7 | 2.0 | 3.6 | 3.2 | 2.6 | 2.6 |
| 9 | 586 | *Striga* | 1 | 24.79 | 3 | 3 | 5 | 3 | 3 | 5 | 7 | 8 | 3.0 | 3.0 | 3.3 | 5.0 | 3.7 | 2.3 | 2.1 | 1.8 | 1.1 | 0.8 |
| 10 | 588 | *Striga* | 8 | 31.38 | 3 | 3 | 7 | 5 | 3 | 1 | 5 | 7 | 2.7 | 2.7 | 3.0 | 1.7 | 2.0 | 2.0 | 3.2 | 3.1 | 2.1 | 2.4 |
| 11 | 590 | *Striga* | 1 | 26.74 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 2.7 | 3.7 | 2.3 | 2.3 | 2.7 | 1.7 | 3.1 | 3.1 | 2.2 | 2.4 |
| 12 | 595 | *Striga* | 1 | 32.31 | 3 | 3 | 7 | 5 | 3 | 5 | 6 | 7 | 3.0 | 2.7 | 2.7 | 2.3 | 2.3 | 2.0 | 3.9 | 2.9 | 2.9 | 2.4 |
| 13 | 597 | *Striga* | 1 | 30.24 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 2.7 | 2.3 | 2.7 | 2.0 | 3.8 | 4.4 | 2.9 | 3.6 |
| 14 | 600 | Acid | 1 | 31.62 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 3.0 | 3.0 | 2.7 | 3.0 | 2.0 | 2.0 | 4.2 | 4.5 | 3.2 | 3.4 |
| 15 | 601 | Acid | 1 | 33.59 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.3 | 1.7 | 2.3 | 5.0 | 3.6 | 4.1 | 2.9 |
| 16 | 602 | Acid | 1 | 29.24 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 3.0 | 2.3 | 2.7 | 2.7 | 2.3 | 2.0 | 4.8 | 3.9 | 3.6 | 3.1 |
| 17 | 603 | Acid | 1 | 30.13 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.0 | 2.7 | 2.7 | 2.7 | 2.0 | 1.0 | 4.2 | 4.8 | 3.1 | 4.2 |
| 18 | 605 | Acid | 1 | 32.26 | 3 | 3 | 5 | 5 | 3 | 5 | 4 | 7 | 2.0 | 2.0 | 2.3 | 1.7 | 1.3 | 1.3 | 5.7 | 5.3 | 4.4 | 4.5 |
| 19 | 606 | Acid | 1 | 27.74 | 3 | 3 | 5 | 5 | 3 | 5 | 4 | 7 | 2.7 | 3.0 | 2.7 | 2.7 | 2.0 | 1.0 | 3.6 | 4.0 | 2.6 | 3.2 |
| 20 | 610 | Acid | 1 | 32.52 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 2.7 | 2.7 | 2.7 | 1.3 | 2.0 | 2.0 | 4.6 | 4.4 | 3.0 | 3.6 |
| 21 | 612 | Acid | 8 | 24.88 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.3 | 3.0 | 2.0 | 2.7 | 3.0 | 3.3 | 1.9 | 2.3 | 1.4 |
| 22 | 614 | Acid | 8 | 35.45 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 2.7 | 1.3 | 1.3 | 1.7 | 5.5 | 3.6 | 4.3 | 2.8 |
| 23 | 676 | Stay green | 1 | 34.89 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 2.7 | 3.3 | 2.0 | 2.0 | 4.1 | 3.2 | 2.8 | 2.3 |
| 24 | 679 | Stay green | 8 | 29.48 | 3 | 3 | 7 | 5 | 3 | 1 | 6 | 8 | 3.0 | 3.0 | 3.3 | 4.7 | 2.3 | 3.0 | 3.6 | 2.3 | 2.3 | 1.5 |
| 25 | 680 | Stay green | 1 | 36.41 | 3 | 3 | 7 | 5 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 3.0 | 3.0 | 2.0 | 1.7 | 5.3 | 3.7 | 4.2 | 3.0 |
| 26 | 685 | Stay green | 1 | 26.50 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.3 | 2.0 | 3.0 | 2.7 | 3.0 | 2.7 | 2.7 | 2.3 | 1.6 | 1.9 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 296B | High yield | 8 | 29.93 | 3 | 3 | 7 | 5 | 3 | 1 | 7 | 8 | 3.3 | 2.0 | 3.3 | 2.7 | 1.0 | 1.0 | 4.8 | 3.5 | 3.4 | 2.4 |
| Mean | | | - | 29.74 | - | - | - | - | - | - | 5 | 7 | 2.79 | 2.59 | 2.51 | 2.28 | 2.29 | 2.13 | 3.79 | 3.21 | 2.77 | 2.51 |
| SE ± | | | - | 0.80 | - | - | - | - | - | - | 0.33 | 0.21 | 0.27 | 0.26 | 0.29 | 0.31 | 0.29 | 0.27 | 0.42 | 0.29 | 0.34 | 0.23 |
| CV (%) | | | - | 4.67 | - | - | - | - | - | - | 12.02 | 5.35 | 16.66 | 17.53 | 19.93 | 23.20 | 21.94 | 21.87 | 19.40 | 15.64 | 21.32 | 15.55 |
| CD (5%) | | | - | 2.27 | - | - | - | - | - | - | 0.93 | 0.80 | 0.76 | 0.78 | 0.82 | 0.83 | 0.84 | 0.79 | 1.20 | 1.17 | 0.97 | 0.95 |

Annexure I-7. … Contd.

| Trait number ⟶ | | | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature | Seed set % in A-line under open pollination | Plant color | Striga count | Acid tolerance asserssed as drought tolerance score |
| | | | Summer | Postrainy | Postrainy | Postrainy | Postrainy |
| 1 | 566 | *Striga* | 0 | 15 | - | 1 | - |
| 2 | 573 | *Striga* | 0 | 60 | - | 1 | - |
| 3 | 574 | *Striga* | 0 | 45 | - | 1 | - |
| 4 | 575 | *Striga* | 0 | 75 | - | 1 | - |
| 5 | 580 | *Striga* | 0 | 55 | - | 1 | - |
| 6 | 581 | *Striga* | 40 | 25 | - | 1 | - |
| 7 | 582 | *Striga* | 0 | 30 | - | 1 | - |
| 8 | 585 | *Striga* | 0 | 70 | - | 0 | - |
| 9 | 586 | *Striga* | 0 | 35 | - | 1 | - |
| 10 | 588 | *Striga* | 0 | 60 | - | 1 | - |
| 11 | 590 | *Striga* | 15 | 15 | - | 1 | - |
| 12 | 595 | *Striga* | 0 | 30 | - | 1 | - |
| 13 | 597 | *Striga* | 0 | - | - | - | - |
| 14 | 600 | Acid | 0 | - | - | - | 2.7 |
| 15 | 601 | Acid | 0 | - | - | - | 2.7 |
| 16 | 602 | Acid | 0 | - | - | - | 2.7 |
| 17 | 603 | Acid | 0 | - | - | - | 2.3 |
| 18 | 605 | Acid | 0 | - | - | - | 1.0 |
| 19 | 606 | Acid | 10 | - | - | - | 1.7 |
| 20 | 610 | Acid | 0 | - | - | - | 2.3 |
| 21 | 612 | Acid | 0 | - | - | - | 2.3 |
| 22 | 614 | Acid | 0 | - | - | - | 1.7 |
| 23 | 676 | Stay green | 0 | 65 | Non tan | - | - |
| 24 | 679 | Stay green | 0 | 70 | Tan | - | - |
| 25 | 680 | Stay green | 0 | - | Non tan | - | - |
| 26 | 685 | Stay green | 0 | 70 | Tan | - | - |
| Control | | | | | | | |
| 27 | 296B | High yield | - | - | - | - | - |
| Mean | | | - | - | - | - | - |
| SE ± | | | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - |

Annexure I-8. Characteristics of non-milo sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 688 | A2 | 2 | 2 | 3 | 3 | 2 | 2 | 66 | 74 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 694 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 80 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 696 | A2 | 1 | 1 | 3 | 1 | 2 | 2 | 80 | 94 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 698 | A2 | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 77 | 1.1 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 5 | 700 | A2 | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 84 | 1.1 | 0.8 | 1 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 701 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 89 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 705 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 80 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 706 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 74 | 0.9 | 0.6 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 708 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 83 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 710 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 97 | 1.2 | 0.8 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 11 | 714 | A2 | 2 | 2 | 3 | 3 | 2 | 2 | 73 | 78 | 1.5 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 718 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 83 | 1.1 | 0.7 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 719 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 83 | 0.9 | 0.7 | 5 | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 720 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 89 | 0.8 | 0.7 | 3 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 721 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 85 | 96 | 1.7 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 722 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 85 | 98 | 1.7 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 723 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 96 | 0.8 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 728 | A2 | 2 | 2 | 3 | 3 | 3 | 2 | 68 | 90 | 1.4 | 0.9 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 732 | A2 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 80 | 1.5 | 0.9 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 737 | A2 | 2 | 2 | 3 | 3 | 2 | 2 | 76 | 80 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 740 | A3 | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 88 | 1.6 | 1.1 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 741 | A3 | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 84 | 1.5 | 1.0 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 742 | A3 | 1 | 1 | 1 | 1 | 2 | 2 | 79 | 95 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 743 | A3 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 80 | 1.1 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 748 | A3 | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 84 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 752 | A3 | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 83 | 1.1 | 0.8 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 754 | A3 | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 79 | 1.7 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 755 | A3 | 2 | 2 | 1 | 3 | 2 | 2 | 68 | 86 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 756 | A4 | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 77 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 760 | A4 | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 82 | 1.1 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 763 | A4 | 1 | 1 | 1 | 1 | 3 | 2 | 73 | 86 | 1.3 | 0.9 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 767 | A4 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 85 | 1.2 | 0.8 | 1 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 296 B | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 96 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 72 | 84 | 1.22 | 0.84 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 0.82 | 1.43 | 0.05 | 0.04 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 1.96 | 2.95 | 7.08 | 7.85 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 2.37 | 3.43 | 0.14 | 0.13 | - | - | - | - | - | - | - | - | - | - |

$A_1$ $A_2$ $A_3$, $A_4$ - Corresponding A-lines on $A_1$, $A_2$, $A_3$ & $A_4$ cytoplasmic background respectively.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-50 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-8. … contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 688 | A2 | 1 | 1 | 7 | 7 | 9 | 9 | 5 | 3 | 5 | 5 | 6 | 4 | 5 | 5 | 1.7 | 1.2 | 17.8 | 14.8 | 1 | 1 | 5.3 | 9.3 |
| 2 | 694 | A2 | 1 | 1 | 7 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 8 | 8 | 1.3 | 1.1 | 17.7 | 16.5 | 1 | 1 | 4.3 | 11.0 |
| 3 | 696 | A2 | 1 | 1 | 5 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.3 | 1.1 | 20.8 | 18.3 | 1 | 2 | 15.3 | 11.3 |
| 4 | 698 | A2 | 1 | 1 | 1 | 1 | 5 | 5 | 3 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 1.3 | 1.1 | 16.3 | 13.4 | 1 | 1 | 9.3 | 10.0 |
| 5 | 700 | A2 | 1 | 1 | 7 | 5 | 5 | 3 | 5 | 5 | 5 | 3 | 7 | 7 | 7 | 7 | 1.4 | 1.0 | 17.2 | 16.4 | 1 | 1 | 13.3 | 14.3 |
| 6 | 701 | A2 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 4 | 2 | 2 | 1.3 | 0.9 | 16.7 | 16.1 | 1 | 1 | 18.0 | 16.0 |
| 7 | 705 | A2 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | - | 5 | 7 | 4 | 4 | 5 | 1.2 | 0.9 | 15.4 | 14.7 | 1 | 1 | 17.3 | 15.7 |
| 8 | 706 | A2 | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 3 | 5 | 5 | 7 | 7 | 2 | 2 | 1.1 | 0.9 | 18.1 | 16.2 | 1 | 1 | 13.0 | 13.7 |
| 9 | 708 | A2 | 1 | 1 | 7 | 7 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 4 | 2 | 1.3 | 1.1 | 17.9 | 15.9 | 1 | 1 | 6.3 | 15.0 |
| 10 | 710 | A2 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 1.5 | 1.1 | 20.8 | 21.5 | - | 1 | 7.0 | 13.0 |
| 11 | 714 | A2 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 4 | 2 | 1.8 | 1.3 | 18.8 | 14.2 | 1 | 1 | 8.0 | 16.0 |
| 12 | 718 | A2 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 7 | 7 | 6 | 6 | 5 | 5 | 1.4 | 1.0 | 20.8 | 18.9 | 1 | 1 | 11.3 | 15.3 |
| 13 | 719 | A2 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 4 | 5 | 1.2 | 1.0 | 20.8 | 18.4 | 1 | 1 | 6.3 | 14.0 |
| 14 | 720 | A2 | 1 | 1 | 5 | 1 | 5 | 5 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 1.1 | 1.0 | 19.6 | 18.1 | 1 | 1 | 6.7 | 12.3 |
| 15 | 721 | A2 | 1 | 1 | 1 | 1 | 3 | 3 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 1.9 | 1.2 | 21.2 | 17.3 | 1 | 1 | 12.3 | 16.7 |
| 16 | 722 | A2 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 7 | 5 | 4 | 4 | 4 | 4 | 1.9 | 1.3 | 19.6 | 18.8 | 1 | 1 | 14.0 | 17.3 |
| 17 | 723 | A2 | 1 | 1 | 5 | 1 | 3 | 3 | 3 | 5 | 3 | 3 | 6 | 4 | 5 | 5 | 1.2 | 1.1 | 19.8 | 18.3 | 1 | 1 | 9.0 | 17.3 |
| 18 | 728 | A2 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 3 | 5 | 3 | 4 | 4 | 4 | 5 | 1.7 | 1.2 | 14.8 | 15.5 | 2 | 1 | 12.7 | 14.0 |
| 19 | 732 | A2 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 6 | 6 | 2 | 1.8 | 1.2 | 19.0 | 16.3 | 1 | 1 | 15.3 | 14.7 |
| 20 | 737 | A2 | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 2 | 2 | 1.6 | 1.1 | 22.5 | 15.9 | 1 | 1 | 15.7 | 17.7 |
| 21 | 740 | A3 | 1 | 1 | 5 | 1 | 3 | 5 | 7 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 2.0 | 1.5 | 20.3 | 19.5 | 1 | 2 | 10.7 | 12.7 |
| 22 | 741 | A3 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 3 | 6 | 4 | 4 | 5 | 1.8 | 1.2 | 19.1 | 16.9 | 2 | 2 | 6.0 | 13.3 |
| 23 | 742 | A3 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.4 | 1.1 | 22.3 | 17.0 | 1 | 2 | 14.3 | 9.7 |
| 24 | 743 | A3 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 6 | 6 | 2 | 2 | 1.5 | 1.3 | 18.3 | 15.9 | 1 | 2 | 13.0 | 14.0 |
| 25 | 748 | A3 | 1 | 1 | 7 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 2 | 2.0 | 1.4 | 18.2 | 15.8 | 1 | 1 | 5.3 | 14.0 |
| 26 | 752 | A3 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 7 | 4 | 4 | 5 | 1.5 | 1.0 | 19.3 | 19.5 | 1 | 1 | 6.7 | 12.7 |
| 27 | 754 | A3 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 4 | 2 | 1.9 | 1.3 | 19.7 | 14.7 | 1 | 1 | 13.3 | 16.0 |
| 28 | 755 | A3 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 7 | 4 | 4 | 5 | 1.5 | 1.1 | 18.2 | 15.8 | 1 | 1 | 11.7 | 17.7 |
| 29 | 756 | A4 | 1 | 1 | 5 | 5 | 5 | 5 | 7 | 3 | 5 | 5 | 6 | 6 | 1 | 2 | 1.4 | 1.1 | 17.6 | 16.6 | 1 | 2 | 5.7 | 16.3 |
| 30 | 760 | A4 | 1 | 1 | 5 | 1 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 4 | 2 | 1.6 | 1.2 | 19.6 | 15.4 | 1 | 1 | 14.0 | 14.0 |
| 31 | 763 | A4 | 1 | 1 | 5 | 1 | 3 | 3 | 7 | 7 | 5 | 5 | 4 | 6 | 4 | 5 | 1.6 | 1.1 | 17.9 | 13.7 | 2 | 1 | 13.0 | 14.3 |
| 32 | 767 | A4 | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.6 | 1.0 | 19.4 | 17.9 | 1 | 1 | 14.7 | 13.3 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 296 B | High yield | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.3 | 1.0 | 21.7 | 18.4 | 1 | 1 | 13.0 | 16.0 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.52 | 1.13 | 19.18 | 16.47 | - | - | 11.17 | 14.08 |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.05 | 0.04 | 0.85 | 0.82 | - | - | 0.87 | 1.25 |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.21 | 5.90 | 7.68 | 8.57 | - | - | 13.50 | 15.35 |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.13 | 0.12 | 2.45 | 2.50 | - | - | 2.52 | 3.08 |

Annexure I-8. … contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 688 | A2 | 66.9 | 60.4 | 8.0 | 6.1 | 25.2 | 20.6 | 6.6 | 5.7 | 5 | 5 | 3 | 3 | 8.7 | 15.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 694 | A2 | 63.0 | 60.6 | 7.6 | 7.4 | 28.3 | 23.0 | 7.5 | 8.0 | 5 | 5 | 3 | 3 | 10.7 | 15.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 696 | A2 | 71.4 | 63.7 | 8.6 | 6.8 | 30.0 | 26.0 | 7.6 | 6.9 | 5 | 7 | 3 | 3 | 5.0 | 11.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 698 | A2 | 69.0 | 58.3 | 7.8 | 5.8 | 27.0 | 22.2 | 8.2 | 8.0 | 5 | 5 | 3 | 3 | 1.0 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 700 | A2 | 71.3 | 63.3 | 8.0 | 6.8 | 27.9 | 22.6 | 8.9 | 6.7 | 5 | 7 | 3 | 3 | 11.7 | 15.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 701 | A2 | 63.9 | 52.0 | 7.7 | 6.7 | 22.0 | 16.1 | 5.2 | 4.1 | 7 | 7 | 4 | 4 | 4.0 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 705 | A2 | 63.0 | 60.9 | 7.3 | 7.0 | 23.3 | 19.1 | 4.5 | 5.8 | 7 | 7 | 3 | 3 | 6.7 | 6.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 706 | A2 | 68.1 | 57.7 | 8.4 | 7.4 | 23.1 | 17.7 | 4.9 | 5.2 | 7 | 7 | 3 | 3 | 1.7 | 5.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 708 | A2 | 74.4 | 71.2 | 9.0 | 8.4 | 25.2 | 21.6 | 8.5 | 7.3 | 5 | 7 | 3 | 3 | 0.0 | 4.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 710 | A2 | 71.1 | 68.3 | 8.1 | 7.0 | 29.7 | 25.0 | 8.0 | 7.4 | 7 | 7 | 3 | 3 | 13.3 | 11.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 714 | A2 | 75.9 | 59.3 | 7.9 | 5.8 | 27.6 | 22.1 | 9.0 | 5.6 | 5 | 5 | 3 | 3 | 10.0 | 19.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 718 | A2 | 69.2 | 58.3 | 8.7 | 6.8 | 26.6 | 21.0 | 7.1 | 6.0 | 5 | 5 | 3 | 3 | 6.3 | 10.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 719 | A2 | 63.1 | 57.8 | 7.8 | 7.6 | 25.2 | 20.7 | 7.3 | 7.3 | 7 | 7 | 3 | 3 | 12.3 | 12.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 720 | A2 | 64.1 | 53.7 | 7.6 | 6.4 | 21.9 | 18.6 | 6.7 | 6.4 | 7 | 7 | 3 | 3 | 12.0 | 14.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 721 | A2 | 72.3 | 64.8 | 8.4 | 7.1 | 26.3 | 20.2 | 6.5 | 4.7 | 7 | 7 | 3 | 3 | 5.0 | 6.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 722 | A2 | 73.8 | 66.0 | 9.1 | 6.7 | 26.0 | 23.7 | 6.1 | 5.4 | 7 | 7 | 3 | 3 | 3.0 | 5.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 723 | A2 | 64.3 | 56.2 | 7.6 | 6.3 | 24.3 | 21.0 | 7.1 | 6.7 | 7 | 7 | 3 | 3 | 14.3 | 13.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 728 | A2 | 74.3 | 59.7 | 8.1 | 6.8 | 24.8 | 18.2 | 6.6 | 4.6 | 5 | 7 | 3 | 3 | 6.0 | 6.3 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 732 | A2 | 69.2 | 59.2 | 8.6 | 7.9 | 26.8 | 20.8 | 6.3 | 5.4 | 7 | 7 | 3 | 3 | 7.7 | 6.3 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 737 | A2 | 71.2 | 56.8 | 9.1 | 6.3 | 28.7 | 20.9 | 7.6 | 6.3 | 7 | 5 | 3 | 3 | 1.0 | 6.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 740 | A3 | 65.7 | 58.8 | 7.9 | 6.7 | 28.9 | 24.8 | 6.7 | 6.2 | 5 | 7 | 3 | 3 | 8.7 | 18.7 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 741 | A3 | 61.8 | 65.2 | 8.1 | 7.1 | 31.1 | 25.0 | 8.2 | 6.8 | 5 | 7 | 3 | 3 | 4.3 | 10.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 742 | A3 | 69.8 | 59.8 | 9.3 | 6.2 | 29.6 | 22.9 | 8.2 | 5.6 | 7 | 7 | 3 | 3 | 3.7 | 13.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 743 | A3 | 67.4 | 66.2 | 7.6 | 7.2 | 34.8 | 29.9 | 10.7 | 13.0 | 5 | 5 | 3 | 3 | 11.3 | 23.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 748 | A3 | 74.0 | 58.1 | 7.7 | 6.3 | 33.7 | 26.0 | 8.7 | 6.4 | 5 | 5 | 3 | 3 | 18.7 | 19.3 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 752 | A3 | 68.2 | 57.7 | 8.6 | 6.9 | 27.2 | 21.3 | 7.1 | 7.1 | 5 | 5 | 3 | 3 | 11.3 | 13.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 754 | A3 | 78.8 | 62.6 | 8.9 | 6.9 | 29.6 | 23.4 | 7.6 | 7.0 | 7 | 5 | 3 | 3 | 6.0 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 755 | A3 | 69.0 | 59.9 | 7.9 | 5.8 | 24.8 | 18.1 | 6.8 | 5.1 | 7 | 7 | 3 | 3 | 9.7 | 11.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 756 | A4 | 68.9 | 62.6 | 7.6 | 6.2 | 23.6 | 19.9 | 5.6 | 5.4 | 5 | 7 | 3 | 3 | 6.3 | 12.0 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 760 | A4 | 74.6 | 70.5 | 7.9 | 7.7 | 35.1 | 27.8 | 10.3 | 13.0 | 5 | 5 | 3 | 3 | 10.0 | 25.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 763 | A4 | 66.7 | 55.8 | 7.7 | 5.9 | 28.4 | 23.1 | 10.2 | 7.3 | 3 | 5 | 3 | 3 | 4.3 | 3.3 | 100.0 | 75.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 767 | A4 | 73.9 | 62.2 | 8.3 | 7.7 | 28.8 | 21.2 | 8.7 | 5.7 | 7 | 7 | 3 | 3 | 7.7 | 9.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 296 B | High yield | 65.1 | 59.6 | 8.2 | 6.6 | 30.2 | 24.8 | 5.4 | 6.0 | 7 | 7 | 3 | 3 | 9.0 | 8.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | | 69.49 | 60.22 | 8.16 | 6.78 | 27.09 | 21.77 | 7.38 | 6.45 | - | - | - | - | 7.47 | 10.71 | 31.03 | 29.82 | - | - | - | - | - | - |
| SE ± | | | 2.75 | 2.38 | 0.37 | 0.32 | 0.94 | 0.88 | 0.43 | 0.57 | - | - | - | - | 0.86 | 1.10 | 3.93 | 3.68 | - | - | - | - | - | - |
| CV (%) | | | 6.87 | 6.84 | 7.83 | 8.25 | 6.03 | 7.04 | 10.21 | 15.34 | - | - | - | - | 19.88 | 17.73 | 21.96 | 21.36 | - | - | - | - | - | - |
| CD (5%) | | | 7.92 | 7.36 | 1.06 | 0.99 | 2.71 | 2.60 | 1.25 | 1.47 | - | - | - | - | 2.48 | 2.82 | 11.47 | 11.12 | - | - | - | - | - | - |

Annexure I-8. … contd.

| Trait number → | | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 688 | A2 | 8 | 38.76 | 3 | 3 | 7 | 5 | 3 | 7 | 4 | 7 | 2.3 | 2.7 | 2.0 | 2.0 | 2.0 | 2.0 | 4.4 | 3.6 | 3.2 | 2.8 |
| 2 | 694 | A2 | 5 | 32.63 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 7 | 2.7 | 2.7 | 3.0 | 1.7 | 2.3 | 2.0 | 4.2 | 4.2 | 3.3 | 3.7 |
| 3 | 696 | A2 | 8 | 29.19 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 3.0 | 2.7 | 1.7 | 1.7 | 4.2 | 4.6 | 3.3 | 3.4 |
| 4 | 698 | A2 | 8 | 29.26 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 1.3 | 1.0 | 3.0 | 3.0 | 3.0 | 2.3 | 3.6 | 2.9 | 2.7 | 2.3 |
| 5 | 700 | A2 | 5 | 31.44 | 3 | 3 | 7 | 5 | 4 | 1 | 6 | 7 | 3.0 | 3.0 | 2.7 | 2.7 | 2.3 | 2.3 | 4.1 | 3.3 | 3.1 | 2.8 |
| 6 | 701 | A2 | 8 | 28.57 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 1.3 | 1.7 | 3.0 | 3.0 | 2.0 | 2.3 | 3.9 | 3.1 | 2.9 | 2.5 |
| 7 | 705 | A2 | 8 | 25.47 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.0 | 2.7 | 2.3 | 2.0 | 2.3 | 2.7 | 3.2 | 3.4 | 2.4 | 2.7 |
| 8 | 706 | A2 | 8 | 29.26 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 2.0 | 2.3 | 2.0 | 1.7 | 1.7 | 2.7 | 4.2 | 3.0 | 3.2 | 2.5 |
| 9 | 708 | A2 | 8 | 28.74 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 6 | 3.3 | 3.0 | 2.3 | 1.3 | 1.7 | 1.3 | 4.7 | 5.5 | 3.4 | 4.4 |
| 10 | 710 | A2 | 8 | 26.75 | 3 | 3 | 5 | 5 | 3 | 1 | 7 | 8 | 3.3 | 3.0 | 4.0 | 4.7 | 1.5 | 1.7 | 4.1 | 2.1 | 3.1 | 1.5 |
| 11 | 714 | A2 | 8 | 25.29 | 3 | 3 | 7 | 3 | 3 | 7 | 5 | 7 | 3.0 | 3.0 | 2.3 | 2.0 | 1.3 | 2.0 | 5.4 | 3.2 | 4.4 | 2.8 |
| 12 | 718 | A2 | 8 | 37.93 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 7 | 2.3 | 2.7 | 2.3 | 1.7 | 2.0 | 2.0 | 3.9 | 3.8 | 2.8 | 2.9 |
| 13 | 719 | A2 | 8 | 28.54 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 2.7 | 2.7 | 2.7 | 2.0 | 1.7 | 2.0 | 5.1 | 5.6 | 3.4 | 4.7 |
| 14 | 720 | A2 | 8 | 25.63 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.3 | 2.3 | 2.7 | 2.5 | 3.0 | 1.8 | 2.4 |
| 15 | 721 | A2 | 1 | 25.23 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 3.0 | 2.7 | 2.3 | 2.0 | 2.0 | 1.3 | 3.7 | 3.6 | 2.7 | 2.8 |
| 16 | 722 | A2 | 8 | 24.96 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.3 | 2.7 | 2.3 | 1.3 | 2.5 | 4.0 | 1.8 | 3.2 |
| 17 | 723 | A2 | 8 | 27.67 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 3.0 | 2.0 | 2.7 | 2.0 | 2.5 | 4.3 | 1.7 | 3.4 |
| 18 | 728 | A2 | 8 | 28.25 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.3 | 3.0 | 4.8 | 2.2 | 3.9 | 1.8 |
| 19 | 732 | A2 | 8 | 27.39 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 3.3 | 2.7 | 3.0 | 2.3 | 1.0 | 1.7 | 6.2 | 5.3 | 4.8 | 4.3 |
| 20 | 737 | A2 | 8 | 31.51 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 7 | 2.3 | 2.7 | 2.3 | 1.7 | 1.0 | 2.3 | 5.9 | 3.0 | 3.5 | 2.9 |
| 21 | 740 | A3 | 1 | 35.03 | 3 | 3 | 7 | 3 | 3 | 7 | 5 | 7 | 2.3 | 2.7 | 2.3 | 2.7 | 2.3 | 2.0 | 4.6 | 4.4 | 3.5 | 3.6 |
| 22 | 741 | A3 | 8 | 31.19 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.3 | 1.7 | 2.0 | 4.6 | 5.0 | 3.5 | 4.2 |
| 23 | 742 | A3 | 8 | 29.45 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 2.0 | 3.0 | 2.7 | 1.7 | 2.0 | 4.9 | 4.7 | 3.8 | 3.9 |
| 24 | 743 | A3 | 8 | 29.53 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.0 | 3.3 | 2.7 | 2.3 | 2.0 | 2.0 | 5.2 | 5.4 | 4.2 | 4.6 |
| 25 | 748 | A3 | 1 | 31.12 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 2.3 | 2.3 | 2.0 | 2.0 | 5.0 | 4.0 | 4.1 | 3.4 |
| 26 | 752 | A3 | 8 | 36.63 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.3 | 2.7 | 2.0 | 2.0 | 2.7 | 2.0 | 3.4 | 3.6 | 2.5 | 3.0 |
| 27 | 754 | A3 | 8 | 28.92 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 6 | 2.3 | 2.0 | 2.0 | 1.3 | 1.0 | 2.0 | 6.0 | 5.4 | 4.7 | 4.5 |
| 28 | 755 | A3 | 4 | 28.41 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 2.3 | 1.7 | 3.0 | 2.7 | 1.3 | 2.3 | 3.7 | 3.0 | 2.7 | 2.4 |
| 29 | 756 | A4 | 8 | 34.66 | 3 | 3 | 7 | 3 | 3 | 7 | 4 | 6 | 3.0 | 3.0 | 2.0 | 1.3 | 2.0 | 2.3 | 4.1 | 4.2 | 3.1 | 3.2 |
| 30 | 760 | A4 | 8 | 30.42 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.0 | 3.0 | 3.0 | 1.7 | 2.0 | 4.9 | 4.7 | 4.1 | 4.1 |
| 31 | 763 | A4 | 8 | 23.36 | 2 | 2 | 3 | 3 | 3 | 7 | 5 | 7 | 2.3 | 2.0 | 3.0 | 2.0 | 2.0 | 2.3 | 4.8 | 2.8 | 3.7 | 2.2 |
| 32 | 767 | A4 | 8 | 35.19 | 3 | 3 | 7 | 3 | 3 | 7 | 4 | 7 | 2.3 | 2.0 | 2.3 | 2.0 | 1.3 | 1.7 | 4.8 | 6.1 | 3.7 | 4.8 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 296 B | High yield | 4 | 27.85 | 3 | 3 | 7 | 5 | 3 | 1 | 6 | 8 | 3.0 | 3.0 | 3.0 | 1.7 | 1.3 | 1.3 | 4.7 | 3.3 | 3.3 | 2.3 |
| Mean | | | - | 29.87 | - | - | - | - | - | - | 5 | 7 | 2.66 | 2.48 | 2.61 | 2.24 | 1.94 | 2.11 | 4.36 | 3.94 | 3.28 | 3.21 |
| SE ± | | | - | 1.30 | - | - | - | - | - | - | 0.33 | 0.24 | 0.26 | 0.26 | 0.23 | 0.26 | 0.27 | 0.27 | 0.52 | 0.24 | 0.46 | 0.22 |
| CV (%) | | | - | 7.55 | - | - | - | - | - | - | 11.80 | 5.90 | 16.86 | 18.49 | 15.09 | 20.50 | 23.95 | 22.52 | 20.54 | 10.53 | 24.54 | 11.83 |
| CD (5%) | | | - | 3.65 | - | - | - | - | - | - | 0.95 | 0.82 | 0.74 | 0.76 | 0.65 | 0.70 | 0.78 | 0.80 | 1.48 | 1.33 | 1.33 | 1.20 |

Annexure I-8. … contd.

| Trait number ⟶ | | | 48 | 49 | 50 |
|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature | Seed set % in A-line under open pollination | Plant color |
| | | | Summer | Postrainy | Postrainy |
| 1 | 688 | A2 | 0 | 25 | Non tan |
| 2 | 694 | A2 | 0 | 60 | Non tan |
| 3 | 696 | A2 | 0 | 55 | Tan |
| 4 | 698 | A2 | 0 | 75 | Tan |
| 5 | 700 | A2 | 0 | 80 | Non tan |
| 6 | 701 | A2 | 0 | 30 | Tan |
| 7 | 705 | A2 | 0 | 90 | Tan |
| 8 | 706 | A2 | 0 | 90 | Tan |
| 9 | 708 | A2 | 0 | 20 | Tan |
| 10 | 710 | A2 | 0 | 35 | Tan |
| 11 | 714 | A2 | 5 | 80 | Tan |
| 12 | 718 | A2 | 0 | - | Non tan |
| 13 | 719 | A2 | 0 | 25 | Tan |
| 14 | 720 | A2 | 5 | 90 | Tan |
| 15 | 721 | A2 | 0 | 10 | Tan |
| 16 | 722 | A2 | 0 | 20 | Tan |
| 17 | 723 | A2 | 15 | 55 | Tan |
| 18 | 728 | A2 | 0 | 60 | Tan |
| 19 | 732 | A2 | 0 | 85 | Tan |
| 20 | 737 | A2 | 0 | 60 | Tan |
| 21 | 740 | A3 | 0 | 60 | Tan |
| 22 | 741 | A3 | 0 | 50 | Tan |
| 23 | 742 | A3 | 0 | 50 | Tan |
| 24 | 743 | A3 | 0 | 80 | Tan |
| 25 | 748 | A3 | 0 | 75 | Tan |
| 26 | 752 | A3 | 0 | 30 | Non tan |
| 27 | 754 | A3 | 0 | 55 | Tan |
| 28 | 755 | A3 | 0 | 60 | Tan |
| 29 | 756 | A4 | 0 | 55 | Non tan |
| 30 | 760 | A4 | 0 | 15 | Tan |
| 31 | 763 | A4 | 10 | - | Tan |
| 32 | 767 | A4 | 0 | - | Tan |
| Control | | | | | |
| 33 | 296 B | High yield | - | - | - |
| Mean | | | - | - | - |
| SE ± | | | - | - | - |
| CV (%) | | | - | - | - |
| CD (5%) | | | - | - | - |

Annexure I-9. Characteristics of pest resistant (early maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number → | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 462 | SFPR | 2 | 1 | 3 | 3 | 2 | 2 | 68 | 79 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 474 | SBR | 2 | 1 | 3 | 3 | 2 | 2 | 70 | 86 | 2.5 | 1.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 9 |
| 3 | 481 | SBPR | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 77 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 5 |
| 4 | 494 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 63 | 78 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 497 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 77 | 1.1 | 0.8 | 3 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 546 | HB | 2 | 2 | 3 | 3 | 3 | 3 | 69 | 87 | 1.5 | 0.9 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 552 | HB | 1 | 1 | 1 | 1 | 2 | 2 | 66 | 77 | 1.4 | 1.0 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 559 | HB | 1 | 1 | 1 | 1 | 2 | 1 | 68 | 75 | 1.3 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 296 B | High yield | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 95 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 72 | 82 | 1.63 | 1.13 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 0.60 | 1.75 | 0.04 | 0.10 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 1.44 | 3.68 | 4.29 | 15.83 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 1.73 | 3.81 | 0.12 | 0.22 | - | - | - | - | - | - | - | - | - | - |

SB- Stemborer (Kharif adaptation); SBPR- Stemborer (rabi adaptation); MD- Midge; HB- Head bug.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-56 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-9. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 462 | SFPR | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 1 | 2 | 1.5 | 1.2 | 14.9 | 14.6 | 1 | 1 | 8.4 | 16.0 |
| 2 | 474 | SBR | 1 | 1 | 5 | 1 | 9 | 9 | 7 | 5 | 5 | 5 | 4 | 6 | 7 | 7 | 2.7 | 1.9 | 17.4 | 14.7 | 1 | 1 | 5.4 | 14.0 |
| 3 | 481 | SBPR | 1 | 1 | 1 | 5 | 9 | 9 | 5 | 3 | 5 | 5 | 4 | 7 | 4 | 4 | 1.8 | 1.1 | 16.8 | 14.1 | 1 | 1 | 15.3 | 15.8 |
| 4 | 494 | MD | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 5 | 5 | 1.2 | 0.9 | 14.2 | 15.5 | 1 | 1 | 10.2 | 13.6 |
| 5 | 497 | MD | 1 | 1 | 1 | 1 | 5 | 5 | 3 | 5 | 3 | 5 | 6 | 4 | 2 | 2 | 1.4 | 1.0 | 15.5 | 15.9 | 2 | 1 | 7.0 | 10.2 |
| 6 | 546 | HB | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 7 | 1.8 | 1.1 | 16.0 | 16.6 | 2 | 1 | 8.6 | 14.1 |
| 7 | 552 | HB | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 3 | 5 | 4 | 6 | 4 | 4 | 1.8 | 1.3 | 14.9 | 16.0 | 2 | 1 | 7.7 | 15.2 |
| 8 | 559 | HB | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 1.7 | 1.4 | 16.0 | 16.7 | 2 | 1 | 8.9 | 13.2 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 296 B | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 1 | 1 | 1.4 | 1.0 | 20.0 | 14.8 | 2 | 1 | 6.0 | 12.8 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.90 | 1.35 | 16.64 | 14.86 | - | - | 10.33 | 14.09 |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.03 | 0.03 | 0.85 | 0.72 | - | - | 1.00 | 1.65 |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.59 | 4.01 | 8.83 | 8.37 | - | - | 16.71 | 20.32 |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.08 | 0.09 | 2.47 | 2.23 | - | - | 2.90 | 3.97 |

Annexure I-9. … Contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 462 | SFPR | 58.4 | 55.1 | 7.6 | 6.9 | 22.7 | 20.9 | 7.7 | 5.1 | 5 | 5 | 3 | 3 | 1.3 | 13.8 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 474 | SBR | 60.0 | 56.3 | 7.8 | 6.7 | 21.3 | 18.8 | 6.1 | 5.0 | 5 | 7 | 3 | 3 | 1.8 | 4.9 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 481 | SBPR | 50.9 | 54.8 | 7.3 | 6.4 | 20.4 | 19.1 | 5.2 | 4.3 | 7 | 5 | 3 | 3 | 15.7 | 8.3 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 494 | MD | 59.1 | 65.1 | 7.1 | 6.6 | 21.9 | 18.0 | 4.3 | 4.1 | 5 | 7 | 3 | 3 | 4.4 | 3.2 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 497 | MD | 52.6 | 54.4 | 7.4 | 6.7 | 18.8 | 17.0 | 4.7 | 4.1 | 5 | 7 | 3 | 3 | 8.1 | 2.7 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 546 | HB | 68.6 | 63.7 | 8.7 | 7.0 | 25.0 | 21.9 | 6.7 | 5.3 | 5 | 5 | 3 | 3 | 5.7 | 4.9 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 552 | HB | 56.8 | 59.8 | 7.6 | 7.0 | 28.1 | 20.6 | 6.3 | 5.4 | 5 | 7 | 3 | 3 | 15.1 | 13.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 559 | HB | 58.8 | 65.7 | 7.2 | 7.3 | 29.0 | 24.2 | 6.3 | 6.4 | 5 | 5 | 3 | 3 | 7.9 | 8.5 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 296 B | High yield | 62.4 | 58.0 | 7.9 | 5.8 | 31.1 | 23.8 | 5.8 | 5.1 | 5 | 7 | 3 | 3 | 1.0 | 3.1 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | | 58.89 | 57.52 | 7.63 | 6.51 | 23.22 | 19.31 | 5.91 | 4.58 | - | - | - | - | 5.82 | 6.91 | 44.05 | 42.26 | - | - | - | - | - | - |
| SE ± | | | 4.30 | 2.16 | 0.34 | 0.33 | 1.00 | 0.66 | 0.49 | 0.40 | - | - | - | - | 0.69 | 0.56 | 4.66 | 5.20 | - | - | - | - | - | - |
| CV (%) | | | 12.66 | 6.52 | 7.68 | 8.78 | 7.48 | 5.89 | 14.26 | 15.13 | - | - | - | - | 20.57 | 14.07 | 18.34 | 21.33 | - | - | - | - | - | - |
| CD (5%) | | | 12.51 | 9.53 | 0.98 | 0.96 | 2.91 | 2.37 | 1.42 | 1.26 | - | - | - | - | 2.01 | 1.82 | 13.56 | 13.83 | - | - | - | - | - | - |

Annexure I-9. … Contd.

| Trait number ⟶ | | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 462 | SFPR | 8 | 26.89 | 2 | 2 | 5 | 3 | 3 | 5 | 6 | 7 | 1.0 | 1.0 | 3.0 | 3.0 | 1.7 | 2.0 | 2.9 | 3.5 | 2.1 | 2.8 |
| 2 | 474 | SBR | 8 | 37.03 | 3 | 3 | 7 | 7 | 3 | 5 | 6 | 8 | 2.3 | 3.0 | 3.7 | 4.7 | 2.7 | 2.0 | 6.6 | 5.1 | 5.0 | 2.8 |
| 3 | 481 | SBPR | 1 | 23.49 | 3 | 3 | 7 | 3 | 3 | 7 | 5 | 7 | 2.0 | 2.0 | 3.0 | 3.0 | 2.3 | 2.7 | 2.7 | 3.1 | 2.0 | 3.2 |
| 4 | 494 | MD | 8 | 25.58 | 3 | 3 | 7 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.0 | 3.0 | 3.3 | 2.0 | 1.7 | 2.9 | 4.5 | 2.2 | 3.7 |
| 5 | 497 | MD | 8 | 26.36 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 3.0 | 2.7 | 2.3 | 1.7 | 2.0 | 3.6 | 3.5 | 2.7 | 2.8 |
| 6 | 546 | HB | 8 | 30.74 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 8 | 2.7 | 3.0 | 3.0 | 3.7 | 2.7 | 2.0 | 3.5 | 5.6 | 2.6 | 4.0 |
| 7 | 552 | HB | 8 | 29.89 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 6 | 2.3 | 2.7 | 1.7 | 1.3 | 2.0 | 1.7 | 3.6 | 4.0 | 2.7 | 3.3 |
| 8 | 559 | HB | 1 | 34.23 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 3.3 | 2.7 | 2.3 | 2.0 | 1.7 | 3.4 | 4.4 | 2.5 | 3.6 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 296 B | High yield | 8 | 29.33 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 3.0 | 3.3 | 3.0 | 1.0 | 1.7 | 4.7 | 3.1 | 3.3 | 2.0 |
| Mean | | | - | 28.16 | - | - | - | - | - | - | 5 | 7 | 2.21 | 2.43 | 2.76 | 2.64 | 2.07 | 2.10 | 3.68 | 4.14 | 2.74 | 3.14 |
| SE ± | | | - | 0.79 | - | - | - | - | - | - | 0.29 | 0.24 | 0.21 | 0.24 | 0.30 | 0.28 | 0.26 | 0.20 | 0.43 | 0.35 | 0.35 | 0.22 |
| CV (%) | | | - | 4.84 | - | - | - | - | - | - | 9.11 | 5.91 | 16.40 | 17.18 | 18.79 | 18.32 | 21.57 | 16.21 | 20.28 | 14.63 | 21.98 | 12.01 |
| CD (5%) | | | - | 2.30 | - | - | - | - | - | - | 0.84 | 0.74 | 0.61 | 0.65 | 0.87 | 0.83 | 0.75 | 0.64 | 1.25 | 1.28 | 1.01 | 0.96 |

Annexure I-9. … Contd.

| Trait number ⟶ | | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature | Seed set % in A-line under open pollination | Shoot fly dead hearts% | Stem borer leaf feeding score | Stem borer dead hearts% | Stem borer dead hearts% | Midge score | Midge score under cage | Head bug score |
| | | | Summer | Postrainy | Postrainy | Rainy | Rainy | Postrainy | Postrainy | Postrainy | Rainy |
| 1 | 462 | SFPR | 5 | 30 | 36 | - | - | - | - | - | - |
| 2 | 474 | SBR | 20 | 35 | - | - | - | - | - | - | - |
| 3 | 481 | SBPR | 0 | 60 | - | - | - | 33.2 | - | - | - |
| 4 | 494 | MD | 0 | 30 | - | - | - | - | 2.4 | 3.1 | - |
| 5 | 497 | MD | 0 | 50 | - | - | - | - | 2.9 | 3.1 | - |
| 6 | 546 | HB | 0 | 60 | - | - | - | - | - | - | 5 |
| 7 | 552 | HB | 0 | 80 | - | - | - | - | - | - | 4.3 |
| 8 | 559 | HB | 0 | 50 | - | - | - | - | - | - | 4.3 |
| Control | | | | | | | | | | | |
| 9 | 296 B | High yield | - | - | - | - | - | - | - | - | - |
| Mean | | | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - | - |

Annexure I-10. Characteristics of pest resistant (medium maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 409 | SFR | 2 | 1 | 3 | 1 | 2 | 2 | 79 | 88 | 1.8 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 410 | SFR | 2 | 1 | 3 | 1 | 2 | 2 | 76 | 86 | 1.8 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 411 | SFR | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 76 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 412 | SFR | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 74 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 417 | SFR | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 79 | 0.7 | 0.5 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 421 | SFR | 2 | 1 | 3 | 3 | 2 | 2 | 66 | 76 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 7 | 424 | SFR | 2 | 1 | 1 | 1 | 2 | 2 | 78 | 77 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 8 | 426 | SFR | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 78 | 1.1 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 1 |
| 9 | 427 | SFR | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 76 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 10 | 430 | SFR | 2 | 1 | 3 | 1 | 2 | 2 | 74 | 83 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 436 | SFR | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 78 | 0.9 | 0.7 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 437 | SFPR | 1 | 1 | 1 | 1 | 2 | 2 | 79 | 88 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 438 | SFPR | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 83 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 439 | SFPR | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 78 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 441 | SFPR | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 83 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 442 | SFPR | 2 | 2 | 3 | 3 | 2 | 2 | 76 | 78 | 1.0 | 0.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 447 | SFPR | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 81 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 448 | SFPR | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 99 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| 19 | 455 | SFPR | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 89 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 456 | SFPR | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 100 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 458 | SFPR | 2 | 1 | 1 | 1 | 2 | 2 | 73 | 81 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 459 | SFPR | 2 | 1 | 3 | 1 | 2 | 2 | 70 | 81 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 463 | SFPR | 2 | 1 | 3 | 1 | 2 | 2 | 78 | 81 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 466 | SBR | 2 | 1 | 3 | 3 | 2 | 2 | 65 | 79 | 1.2 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 25 | 473 | SBR | 2 | 2 | 3 | 3 | 2 | 2 | 72 | 78 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 476 | SBPR | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 91 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 480 | SBPR | 2 | 2 | 3 | 3 | 2 | 2 | 73 | 78 | 2.5 | 1.4 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 5 |
| 28 | 482 | SBPR | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 80 | 1.5 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 5 | 5 |
| 29 | 487 | SBPR | 2 | 2 | 3 | 3 | 2 | 2 | 76 | 86 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 489 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 79 | 78 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 492 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 91 | 1.2 | 1.0 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 493 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 82 | 0.9 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 495 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 84 | 1.1 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 506 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 76 | 1.1 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

| Trait number → | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 509 | MD | 1 | 1 | 1 | 1 | 2 | 1 | 71 | 84 | 1.3 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | 511 | MD | 2 | 1 | 3 | 3 | 2 | 2 | 67 | 83 | 0.9 | 0.6 | 3 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 37 | 513 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 76 | 89 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 517 | MD | 1 | 1 | 3 | 3 | 2 | 2 | 71 | 87 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 519 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 81 | 0.9 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 521 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 79 | 79 | 1.2 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 522 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 84 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 523 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 78 | 1.3 | 0.9 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 524 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 82 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 525 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 84 | 0.8 | 0.7 | - | 1 | - | 2 | - | 1 | 1 | 1 | 1 | 1 |
| 45 | 527 | MD | 1 | 1 | 1 | 1 | 2 | 1 | 77 | 99 | 1.0 | 0.7 | 3 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 46 | 528 | MD | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 81 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 533 | MD | 1 | 1 | 1 | 1 | 2 | 1 | 73 | 86 | 1.0 | 0.8 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 534 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 91 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 536 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 81 | 1.1 | 0.9 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 542 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 88 | 0.8 | 0.7 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 | 543 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 89 | 0.9 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 | 545 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 97 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 549 | HB | 1 | 1 | 1 | 1 | 2 | 1 | 68 | 74 | 1.3 | 1.0 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 | 550 | HB | 2 | 2 | 3 | 3 | 2 | 2 | 69 | 85 | 1.4 | 1.1 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 55 | 553 | HB | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 74 | 1.3 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 56 | 563 | HB | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 84 | 1.4 | 1.1 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 57 | 565 | HB | 1 | 1 | 1 | 1 | 2 | 1 | 70 | 78 | 1.5 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 58 | 296 B | High yield | 2 | 1 | 3 | 1 | 2 | 2 | 78 | 94 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 73 | 83 | 1.28 | 0.90 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 1.20 | 1.50 | 0.06 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 2.85 | 3.11 | 7.81 | 6.27 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 3.39 | 3.92 | 0.16 | 0.13 | - | - | - | - | - | - | - | - | - | - |

SF- Shoot fly (Kharif adaptation); SFP- Shoot fly (Rabi adaptation); SB- Stemborer (Kharif adaptation); SBP- Stemborer (rabi adaptation); MD- Midge; HB- Head bug.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-57 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-10. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 409 | SFR | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 2 | 2 | 1.9 | 1.3 | 17.0 | 19.4 | 1 | 1 | 10.3 | 15.0 |
| 2 | 410 | SFR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 2 | 2 | 1.9 | 1.3 | 17.6 | 19.6 | 1 | 1 | 13.7 | 15.3 |
| 3 | 411 | SFR | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 1.7 | 1.3 | 18.1 | 17.9 | 2 | 1 | 5.0 | 17.0 |
| 4 | 412 | SFR | 1 | 1 | 5 | 1 | 5 | 5 | 3 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.7 | 1.3 | 17.3 | 18.7 | 2 | 1 | 6.3 | 14.3 |
| 5 | 417 | SFR | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 4 | 2 | 1.0 | 0.8 | 18.7 | 17.5 | 1 | 1 | 8.7 | 13.0 |
| 6 | 421 | SFR | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 2 | 1.5 | 1.0 | 16.1 | 18.2 | 1 | 1 | 10.0 | 18.3 |
| 7 | 424 | SFR | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 5 | 1.5 | 1.2 | 15.3 | 13.5 | 2 | 1 | 7.3 | 10.0 |
| 8 | 426 | SFR | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.3 | 0.9 | 16.3 | 16.3 | 1 | 1 | 15.3 | 14.7 |
| 9 | 427 | SFR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.5 | 1.1 | 16.0 | 17.0 | 1 | 1 | 9.3 | 14.7 |
| 10 | 430 | SFR | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.7 | 1.2 | 14.0 | 18.7 | 1 | 1 | 9.0 | 14.0 |
| 11 | 436 | SFR | 1 | 1 | 7 | 5 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 2 | 2 | 1.3 | 1.1 | 19.5 | 18.8 | 1 | 1 | 12.0 | 13.3 |
| 12 | 437 | SFPR | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 5 | 1.4 | 1.2 | 21.8 | 20.3 | 1 | 1 | 8.3 | 11.0 |
| 13 | 438 | SFPR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.2 | 1.1 | 16.5 | 16.9 | 1 | 1 | 11.3 | 16.0 |
| 14 | 439 | SFPR | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 2 | 2 | 1.2 | 1.0 | 18.9 | 18.6 | 1 | 1 | 6.3 | 19.0 |
| 15 | 441 | SFPR | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 1 | 2 | 1.2 | 0.9 | 20.3 | 18.0 | 1 | 1 | 7.3 | 11.3 |
| 16 | 442 | SFPR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.3 | 0.8 | 18.3 | 19.1 | 1 | 1 | 9.7 | 13.3 |
| 17 | 447 | SFPR | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.7 | 1.2 | 18.3 | 19.9 | 1 | 1 | 10.7 | 16.7 |
| 18 | 448 | SFPR | 1 | 1 | 5 | 1 | 3 | 3 | 7 | 5 | 5 | 7 | 6 | 4 | 2 | 4 | 1.9 | 1.3 | 17.1 | 19.9 | 1 | - | 7.7 | 15.5 |
| 19 | 455 | SFPR | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 3 | 4 | 4 | 1 | 1 | 1.2 | 0.9 | 20.2 | 18.7 | 1 | 1 | 9.0 | 13.3 |
| 20 | 456 | SFPR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 1 | 1.8 | 1.1 | 21.0 | 21.9 | 1 | 1 | 14.0 | 14.0 |
| 21 | 458 | SFPR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 3 | 3 | 4 | 4 | 2 | 2 | 1.1 | 0.9 | 15.7 | 17.6 | 1 | 1 | 7.7 | 14.0 |
| 22 | 459 | SFPR | 1 | 1 | 1 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.7 | 1.2 | 19.7 | 16.1 | 2 | 1 | 8.3 | 15.7 |
| 23 | 463 | SFPR | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.5 | 1.1 | 19.6 | 21.3 | 2 | 1 | 9.3 | 16.3 |
| 24 | 466 | SBR | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 5 | 5 | 1.6 | 1.5 | 14.2 | 17.1 | 1 | 1 | 9.3 | 12.0 |
| 25 | 473 | SBR | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 7 | 2 | 2 | 1.6 | 1.1 | 16.6 | 15.6 | 1 | 1 | 9.7 | 12.7 |
| 26 | 476 | SBPR | 1 | 1 | 7 | 5 | 3 | 5 | 7 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.7 | 1.3 | 18.4 | 20.7 | 1 | 2 | 11.0 | 11.7 |
| 27 | 480 | SBPR | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 2.7 | 1.6 | 15.9 | 14.6 | 1 | 1 | 12.7 | 19.7 |
| 28 | 482 | SBPR | 1 | 1 | 5 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 6 | 6 | 4 | 4 | 1.7 | 1.1 | 16.7 | 13.6 | 1 | 1 | 9.7 | 16.0 |
| 29 | 487 | SBPR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 2 | 2 | 1.9 | 1.2 | 16.5 | 16.2 | 1 | 1 | 17.0 | 17.3 |
| 30 | 489 | MD | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 5 | 1.4 | 1.1 | 18.4 | 16.8 | 1 | 1 | 14.0 | 15.0 |
| 31 | 492 | MD | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.5 | 1.2 | 15.4 | 18.3 | 1 | 1 | 12.0 | 11.0 |
| 32 | 493 | MD | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 3 | 5 | 4 | 4 | 5 | 5 | 1.1 | 0.9 | 13.9 | 18.1 | 2 | 1 | 10.0 | 16.3 |
| 33 | 495 | MD | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.4 | 1.1 | 13.8 | 18.4 | 2 | 1 | 10.3 | 16.0 |
| 34 | 506 | MD | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 5 | 6 | 4 | 5 | 5 | 1.4 | 1.0 | 18.1 | 18.2 | 1 | 1 | 12.0 | 13.3 |

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 509 | MD | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 2 | 2 | 1.7 | 1.5 | 17.1 | 17.7 | 1 | 1 | 10.7 | 16.7 |
| 36 | 511 | MD | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 3 | 3 | 3 | 4 | 4 | 5 | 4 | 1.1 | 0.9 | 17.5 | 17.3 | 1 | 1 | 13.0 | 16.7 |
| 37 | 513 | MD | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 3 | 3 | 4 | 4 | 5 | 5 | 1.3 | 1.0 | 16.4 | 17.2 | 1 | 2 | 18.3 | 11.0 |
| 38 | 517 | MD | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 5 | 3 | 3 | 4 | 4 | 5 | 5 | 1.1 | 0.9 | 16.8 | 18.5 | 1 | 1 | 16.0 | 15.0 |
| 39 | 519 | MD | 1 | 1 | 7 | 1 | 5 | 3 | 5 | 5 | 3 | 5 | 6 | 6 | 5 | 4 | 1.2 | 1.0 | 21.4 | 22.2 | 1 | 1 | 11.3 | 15.7 |
| 40 | 521 | MD | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 5 | 4 | 1.4 | 1.2 | 16.3 | 17.9 | 1 | 1 | 13.0 | 14.0 |
| 41 | 522 | MD | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 5 | 1.5 | 1.2 | 15.9 | 16.2 | 1 | 1 | 5.7 | 12.0 |
| 42 | 523 | MD | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 1.6 | 1.1 | 16.1 | 16.1 | 1 | 1 | 6.3 | 17.3 |
| 43 | 524 | MD | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.5 | 1.1 | 14.8 | 15.6 | 2 | 1 | 7.7 | 11.0 |
| 44 | 525 | MD | 1 | 1 | 7 | 7 | 3 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 5 | 4 | 1.0 | 0.9 | 13.9 | 17.9 | - | 1 | 16.0 | 16.0 |
| 45 | 527 | MD | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 5 | 5 | 1.1 | 0.9 | 17.3 | 17.0 | 2 | 1 | 13.3 | 10.7 |
| 46 | 528 | MD | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 2 | 1.2 | 0.9 | 19.3 | 18.1 | 1 | 1 | 8.3 | 14.0 |
| 47 | 533 | MD | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 4 | 2 | 2 | 1.2 | 0.9 | 17.3 | 17.1 | 1 | 1 | 11.0 | 15.3 |
| 48 | 534 | MD | 1 | 1 | 5 | 1 | 5 | 3 | 3 | 3 | 3 | 5 | 4 | 4 | 5 | 4 | 1.5 | 1.1 | 15.4 | 17.2 | 1 | 1 | 14.0 | 12.7 |
| 49 | 536 | MD | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 1.2 | 1.1 | 19.1 | 17.8 | 1 | 2 | 8.3 | 14.3 |
| 50 | 542 | MD | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 5 | 5 | 1.1 | 0.9 | 20.2 | 22.0 | 1 | 1 | 9.0 | 14.3 |
| 51 | 543 | MD | 1 | 1 | 5 | 1 | 5 | 5 | 3 | 5 | 3 | 3 | 4 | 4 | 5 | 5 | 1.3 | 1.1 | 16.3 | 18.8 | 1 | 1 | 6.3 | 10.3 |
| 52 | 545 | MD | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 4 | 1.9 | 1.3 | 15.4 | 17.3 | 1 | 1 | 9.0 | 16.7 |
| 53 | 549 | HB | 1 | 1 | 1 | 1 | 3 | 5 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 1.7 | 1.3 | 16.4 | 15.3 | 1 | 1 | 10.3 | 15.7 |
| 54 | 550 | HB | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 7 | 1.8 | 1.4 | 15.5 | 17.9 | 1 | 1 | 9.0 | 14.0 |
| 55 | 553 | HB | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 6 | 6 | 2 | 6 | 1.7 | 1.3 | 15.8 | 16.6 | 2 | 1 | 10.0 | 16.7 |
| 56 | 563 | HB | 1 | 1 | 1 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 2 | 6 | 1.7 | 1.3 | 15.8 | 17.2 | 2 | 1 | 9.0 | 16.3 |
| 57 | 565 | HB | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 7 | 1.9 | 1.4 | 14.6 | 16.5 | 1 | 1 | 16.3 | 18.7 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | 296 B | High yield | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 1 | 1 | 1.4 | 1.1 | 18.3 | 18.3 | 2 | 1 | 6.0 | 13.3 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.57 | 1.15 | 17.15 | 17.66 | - | - | 10.50 | 14.73 |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.07 | 0.04 | 1.16 | 0.89 | - | - | 0.90 | 0.96 |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.81 | 5.43 | 11.75 | 8.74 | - | - | 14.81 | 11.31 |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.20 | 0.16 | 3.29 | 3.01 | - | - | 2.53 | 2.65 |

Annexure I-10. … Contd.

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 409 | SFR | 72.1 | 69.1 | 7.9 | 7.4 | 22.8 | 20.1 | 5.4 | 4.3 | 7 | 7 | 3 | 3 | 0.0 | 1.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 2 | 410 | SFR | 78.9 | 69.1 | 8.0 | 7.3 | 22.2 | 20.7 | 4.9 | 4.3 | 7 | 7 | 3 | 3 | 0.0 | 2.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 3 | 411 | SFR | 62.8 | 52.0 | 8.2 | 6.8 | 28.1 | 24.8 | 7.7 | 8.0 | 7 | 5 | 3 | 3 | 11.0 | 15.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 4 | 412 | SFR | 52.8 | 55.2 | 7.2 | 6.8 | 27.1 | 24.4 | 7.8 | 7.2 | 5 | 5 | 3 | 3 | 17.3 | 17.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 5 | 417 | SFR | 65.4 | 59.6 | 8.1 | 7.8 | 26.3 | 21.4 | 8.2 | 7.2 | 7 | 7 | 3 | 3 | 6.0 | 4.7 | 41.7 | 25.0 | 1 | 1 | 1 | 1 |
| 6 | 421 | SFR | 69.1 | 61.1 | 8.3 | 7.3 | 23.1 | 18.3 | 6.2 | 5.9 | 5 | 5 | 3 | 3 | 10.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 7 | 424 | SFR | 55.8 | 48.9 | 7.7 | 5.4 | 26.9 | 22.1 | 6.8 | 6.1 | 5 | 5 | 3 | 3 | 6.7 | 12.3 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 8 | 426 | SFR | 62.0 | 52.1 | 8.7 | 7.1 | 28.2 | 21.9 | 5.6 | 5.7 | 5 | 5 | 3 | 3 | 0.0 | 2.0 | 33.3 | 50.0 | 1 | 1 | 1 | 1 |
| 9 | 427 | SFR | 62.3 | 52.7 | 8.3 | 7.8 | 26.2 | 21.3 | 9.2 | 7.4 | 5 | 5 | 3 | 3 | 4.7 | 5.7 | 41.7 | 25.0 | 1 | 1 | 1 | 1 |
| 10 | 430 | SFR | 62.7 | 56.7 | 8.0 | 6.6 | 24.6 | 21.2 | 7.4 | 5.9 | 5 | 7 | 3 | 3 | 18.0 | 11.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 11 | 436 | SFR | 73.7 | 61.7 | 9.3 | 7.6 | 31.6 | 26.4 | 9.9 | 9.7 | 5 | 5 | 3 | 3 | 6.7 | 14.3 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 12 | 437 | SFPR | 58.8 | 53.9 | 8.6 | 7.0 | 27.6 | 24.2 | 7.7 | 5.4 | 7 | 7 | 3 | 3 | 2.3 | 7.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 13 | 438 | SFPR | 62.7 | 58.8 | 8.1 | 6.8 | 23.9 | 21.6 | 5.4 | 5.1 | 5 | 7 | 3 | 3 | 5.0 | 3.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 14 | 439 | SFPR | 72.9 | 57.7 | 9.1 | 7.2 | 26.8 | 21.7 | 5.9 | 5.2 | 5 | 5 | 3 | 3 | 0.0 | 2.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 15 | 441 | SFPR | 67.9 | 60.9 | 9.7 | 7.8 | 29.1 | 23.8 | 7.2 | 7.2 | 7 | 5 | 3 | 3 | 0.0 | 2.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 16 | 442 | SFPR | 72.2 | 59.1 | 8.6 | 7.2 | 28.8 | 23.0 | 7.4 | 7.0 | 5 | 5 | 3 | 3 | 2.7 | 0.0 | 33.3 | 41.7 | 1 | 1 | 1 | 1 |
| 17 | 447 | SFPR | 66.3 | 60.9 | 9.2 | 8.2 | 26.9 | 23.3 | 8.6 | 7.3 | 7 | 5 | 3 | 3 | 6.3 | 6.7 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 18 | 448 | SFPR | 73.4 | 73.0 | 7.3 | 6.1 | 33.8 | 29.4 | 11.7 | 9.1 | 3 | 3 | 4 | 4 | 15.0 | 14.7 | 75.0 | 75.0 | 1 | 1 | 1 | 1 |
| 19 | 455 | SFPR | 72.1 | 58.0 | 9.7 | 6.9 | 25.4 | 18.7 | 6.5 | 5.0 | 7 | 7 | 3 | 3 | 1.3 | 4.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 20 | 456 | SFPR | 64.1 | 63.0 | 10.1 | 8.6 | 26.6 | 23.1 | 8.1 | 8.9 | 7 | 7 | 3 | 3 | 3.7 | 4.7 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 21 | 458 | SFPR | 62.8 | 55.9 | 8.0 | 7.1 | 21.6 | 17.9 | 5.7 | 4.7 | 7 | 7 | 3 | 3 | 1.0 | 0.0 | 33.3 | 41.7 | 1 | 1 | 1 | 1 |
| 22 | 459 | SFPR | 59.4 | 53.6 | 8.3 | 6.2 | 30.2 | 23.4 | 8.2 | 5.6 | 5 | 5 | 3 | 3 | 10.3 | 12.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 23 | 463 | SFPR | 65.6 | 55.1 | 8.0 | 7.0 | 27.9 | 24.0 | 8.0 | 6.2 | 7 | 5 | 3 | 3 | 3.0 | 4.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 24 | 466 | SBR | 56.1 | 57.3 | 7.2 | 6.6 | 31.0 | 26.4 | 9.6 | 8.7 | 3 | 5 | 3 | 3 | 8.7 | 16.3 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 25 | 473 | SBR | 61.8 | 51.0 | 8.3 | 7.1 | 17.7 | 15.0 | 5.5 | 4.7 | 7 | 7 | 3 | 3 | 11.7 | 8.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 26 | 476 | SBPR | 68.1 | 61.2 | 7.2 | 5.6 | 28.9 | 26.8 | 7.2 | 6.9 | 5 | 5 | 3 | 3 | 10.3 | 3.3 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 27 | 480 | SBPR | 64.0 | 50.4 | 8.0 | 7.0 | 21.6 | 15.4 | 6.7 | 5.0 | 5 | 5 | 3 | 3 | 6.3 | 5.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 28 | 482 | SBPR | 67.6 | 58.7 | 8.9 | 7.0 | 26.2 | 21.9 | 7.0 | 6.2 | 5 | 5 | 3 | 3 | 0.0 | 2.3 | 33.3 | 50.0 | 1 | 1 | 1 | 1 |
| 29 | 487 | SBPR | 60.0 | 47.1 | 7.9 | 7.1 | 15.4 | 14.6 | 4.2 | 4.1 | 7 | 7 | 3 | 3 | 8.0 | 8.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 30 | 489 | MD | 72.9 | 67.6 | 8.7 | 7.0 | 19.4 | 19.2 | 5.1 | 4.9 | 7 | 7 | 3 | 3 | 0.0 | 0.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 31 | 492 | MD | 62.9 | 74.1 | 7.3 | 6.7 | 22.2 | 22.2 | 6.8 | 5.8 | 5 | 5 | 3 | 3 | 5.7 | 4.7 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 32 | 493 | MD | 60.2 | 63.8 | 7.9 | 7.1 | 21.2 | 18.3 | 4.1 | 4.7 | 7 | 7 | 3 | 3 | 5.0 | 3.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 33 | 495 | MD | 58.4 | 65.3 | 7.3 | 7.2 | 21.7 | 20.0 | 5.6 | 4.7 | 5 | 7 | 3 | 3 | 8.0 | 6.0 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 34 | 506 | MD | 64.7 | 57.7 | 8.6 | 7.3 | 23.2 | 18.7 | 6.6 | 5.3 | 5 | 5 | 3 | 3 | 2.3 | 5.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |

| Trait number → | | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 509 | MD | 60.4 | 59.2 | 8.1 | 6.6 | 25.4 | 23.6 | 6.1 | 4.4 | 7 | 7 | 3 | 3 | 17.3 | 16.7 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 36 | 511 | MD | 69.0 | 59.2 | 7.8 | 7.0 | 23.9 | 18.9 | 5.7 | 5.4 | 5 | 7 | 3 | 3 | 5.3 | 9.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 37 | 513 | MD | 65.2 | 63.8 | 7.7 | 7.3 | 22.9 | 20.6 | 5.1 | 5.1 | 7 | 7 | 3 | 3 | 0.0 | 4.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 38 | 517 | MD | 65.6 | 58.2 | 8.1 | 6.8 | 21.3 | 19.7 | 5.1 | 4.7 | 7 | 5 | 3 | 3 | 1.7 | 2.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 39 | 519 | MD | 69.6 | 67.6 | 8.2 | 7.7 | 26.2 | 22.4 | 6.6 | 5.9 | 7 | 5 | 3 | 3 | 1.3 | 3.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 |
| 40 | 521 | MD | 66.1 | 66.6 | 8.2 | 6.8 | 26.6 | 20.2 | 6.4 | 4.9 | 7 | 5 | 3 | 3 | 2.0 | 5.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 41 | 522 | MD | 65.9 | 59.2 | 7.7 | 6.9 | 22.1 | 20.0 | 5.9 | 4.9 | 5 | 7 | 3 | 3 | 6.7 | 10.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 42 | 523 | MD | 67.1 | 58.6 | 7.8 | 7.0 | 26.2 | 20.8 | 6.3 | 5.2 | 5 | 5 | 3 | 3 | 10.3 | 3.7 | 33.3 | 33.3 | 1 | 1 | 1 | 1 |
| 43 | 524 | MD | 62.7 | 57.1 | 7.6 | 6.8 | 24.0 | 18.3 | 4.8 | 3.4 | 7 | 7 | 3 | 3 | 13.0 | 5.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 44 | 525 | MD | 64.3 | 57.8 | 8.2 | 7.3 | 21.7 | 19.1 | 5.2 | 4.1 | 5 | 5 | 3 | 3 | 1.0 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 45 | 527 | MD | 60.2 | 61.6 | 7.9 | 6.6 | 17.9 | 18.2 | 3.9 | 3.8 | 7 | 7 | 3 | 3 | 2.7 | 2.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 46 | 528 | MD | 63.0 | 54.8 | 8.0 | 7.1 | 28.8 | 22.3 | 6.8 | 6.2 | 7 | 5 | 3 | 3 | 1.0 | 2.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 47 | 533 | MD | 64.4 | 63.3 | 8.8 | 6.8 | 19.4 | 16.3 | 6.3 | 4.2 | 5 | 7 | 3 | 3 | 0.0 | 0.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 |
| 48 | 534 | MD | 57.3 | 56.4 | 7.7 | 6.2 | 24.0 | 22.1 | 6.6 | 4.1 | 7 | 7 | 3 | 3 | 8.7 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 49 | 536 | MD | 68.9 | 67.8 | 8.0 | 6.8 | 22.4 | 18.7 | 6.0 | 4.2 | 7 | 7 | 3 | 3 | 0.0 | 4.3 | 33.3 | 41.7 | 1 | 1 | 1 | 1 |
| 50 | 542 | MD | 52.1 | 52.8 | 7.9 | 6.6 | 19.8 | 19.6 | 7.3 | 6.6 | 7 | 7 | 3 | 3 | 11.7 | 9.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 51 | 543 | MD | 54.9 | 50.7 | 7.4 | 6.4 | 22.0 | 20.9 | 5.4 | 4.9 | 7 | 7 | 3 | 3 | 15.7 | 9.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 52 | 545 | MD | 66.1 | 59.1 | 7.9 | 6.1 | 22.7 | 18.7 | 5.3 | 3.7 | 7 | 7 | 4 | 4 | 15.0 | 8.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 53 | 549 | HB | 65.8 | 67.6 | 7.8 | 6.2 | 29.9 | 25.9 | 7.5 | 5.4 | 5 | 7 | 3 | 3 | 4.0 | 8.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 54 | 550 | HB | 56.7 | 60.1 | 7.7 | 6.7 | 26.3 | 23.1 | 5.2 | 4.1 | 5 | 7 | 3 | 3 | 10.7 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 55 | 553 | HB | 64.3 | 55.9 | 8.2 | 6.2 | 26.2 | 21.1 | 6.1 | 5.0 | 5 | 5 | 3 | 3 | 3.3 | 10.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 56 | 563 | HB | 65.6 | 59.2 | 8.3 | 6.9 | 27.6 | 22.2 | 6.3 | 4.0 | 7 | 7 | 3 | 3 | 7.0 | 3.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 57 | 565 | HB | 64.6 | 52.3 | 7.7 | 6.8 | 24.9 | 21.0 | 5.7 | 4.0 | 7 | 7 | 3 | 3 | 11.0 | 5.7 | 25.0 | 50.0 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 58 | 296 B | High yield | 62.2 | 60.7 | 8.0 | 6.8 | 29.0 | 23.0 | 6.5 | 4.7 | 5 | 7 | 3 | 3 | 2.7 | 1.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| Mean | | | 64.39 | 58.77 | 8.17 | 6.90 | 24.62 | 20.93 | 6.49 | 5.38 | - | - | - | - | 6.00 | 6.24 | 32.25 | 34.73 | - | - | - | - |
| SE ± | | | 3.50 | 2.73 | 0.40 | 0.34 | 1.04 | 0.74 | 0.52 | 0.40 | - | - | - | - | 0.72 | 0.65 | 5.14 | 5.92 | - | - | - | - |
| CV (%) | | | 9.42 | 8.05 | 8.48 | 8.48 | 7.32 | 6.15 | 13.76 | 12.97 | - | - | - | - | 20.72 | 18.15 | 27.63 | 29.52 | - | - | - | - |
| CD (5%) | | | 9.91 | 9.26 | 1.13 | 1.04 | 2.94 | 2.55 | 1.46 | 1.31 | - | - | - | - | 2.01 | 1.94 | 14.39 | 15.56 | - | - | - | - |

Annexure I-10. … Contd.

| Trait number ⟶ | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 409 | SFR | 1 | 1 | 8 | 32.41 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.7 | 2.3 | 2.7 | 1.3 | 2.0 |
| 2 | 410 | SFR | 1 | 1 | 8 | 32.58 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 3.0 | 2.3 | 2.0 | 1.7 | 2.0 |
| 3 | 411 | SFR | 1 | 1 | 8 | 33.93 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 2.3 | 2.0 | 3.0 | 3.0 | 1.7 | 2.0 |
| 4 | 412 | SFR | 1 | 1 | 8 | 37.38 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 2.7 | 1.3 | 3.0 | 2.0 | 1.7 | 2.0 |
| 5 | 417 | SFR | 1 | 1 | 8 | 32.17 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 1.7 | 2.3 | 3.0 | 3.0 | 1.0 | 2.0 |
| 6 | 421 | SFR | 1 | 1 | 8 | 33.27 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 2.7 | 2.7 | 3.0 | 3.0 | 2.7 | 2.3 |
| 7 | 424 | SFR | 1 | 1 | 1 | 25.79 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 1.0 | 1.3 | 3.0 | 2.3 | 2.0 | 2.0 |
| 8 | 426 | SFR | 1 | 1 | 8 | 27.91 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 1.7 | 1.0 | 3.0 | 2.3 | 2.3 | 2.0 |
| 9 | 427 | SFR | 1 | 1 | 1 | 27.84 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.3 | 1.3 | 3.0 | 3.0 | 2.0 | 2.0 |
| 10 | 430 | SFR | 1 | 1 | 1 | 22.13 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 1.7 | 1.7 | 3.0 | 3.0 | 1.7 | 2.0 |
| 11 | 436 | SFR | 1 | 1 | 1 | 25.88 | 3 | 3 | 5 | 3 | 3 | 5 | 7 | 7 | 3.0 | 3.3 | 4.0 | 3.3 | 1.3 | 1.3 |
| 12 | 437 | SFPR | 1 | 1 | 1 | 28.43 | 3 | 3 | 7 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.3 | 3.3 | 1.7 | 2.0 |
| 13 | 438 | SFPR | 1 | 1 | 8 | 30.25 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 8 | 1.7 | 1.3 | 3.7 | 3.7 | 2.0 | 2.0 |
| 14 | 439 | SFPR | 1 | 1 | 8 | 27.23 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 1.3 | 1.0 | 3.0 | 2.3 | 1.3 | 2.0 |
| 15 | 441 | SFPR | 1 | 1 | 1 | 30.72 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 1.3 | 1.0 | 3.0 | 3.0 | 1.3 | 2.3 |
| 16 | 442 | SFPR | 1 | 1 | 1 | 28.17 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 1.7 | 1.3 | 2.7 | 2.7 | 1.7 | 2.0 |
| 17 | 447 | SFPR | 1 | 1 | 8 | 33.20 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 1.3 | 1.7 | 3.0 | 2.7 | 1.3 | 2.0 |
| 18 | 448 | SFPR | 1 | 1 | 8 | 20.03 | 2 | 2 | 7 | 3 | 3 | 1 | 5 | 9 | 2.7 | 3.0 | 3.7 | 5.0 | 3.3 | 2.7 |
| 19 | 455 | SFPR | 1 | 1 | 8 | 24.13 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 8 | 2.3 | 1.3 | 3.0 | 3.3 | 1.3 | 2.3 |
| 20 | 456 | SFPR | 1 | 1 | 8 | 28.57 | 3 | 3 | 5 | 5 | 3 | 1 | 7 | 9 | 2.7 | - | 3.7 | - | 1.7 | 1.3 |
| 21 | 458 | SFPR | 1 | 1 | 8 | 25.71 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 8 | 1.7 | 2.3 | 3.0 | 3.7 | 2.3 | 2.0 |
| 22 | 459 | SFPR | 1 | 1 | 8 | 35.12 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 2.7 | 3.0 | 2.7 | 2.3 | 2.3 | 2.0 |
| 23 | 463 | SFPR | 1 | 1 | 1 | 30.38 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 2.3 | 2.0 | 3.0 | 4.0 | 1.0 | 2.0 |
| 24 | 466 | SBR | 1 | 1 | 8 | 24.13 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 1.7 | 1.3 | 3.0 | 3.0 | 3.0 | 2.0 |
| 25 | 473 | SBR | 1 | 1 | 8 | 28.89 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 1.7 | 1.3 | 3.0 | 2.3 | 2.3 | 2.0 |
| 26 | 476 | SBPR | 1 | 1 | 8 | 28.52 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.0 | 1.3 | 3.0 | 2.7 | 1.7 | 1.0 |
| 27 | 480 | SBPR | 1 | 1 | 3 | 29.02 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 2.0 | 1.7 | 2.7 | 2.3 | 3.0 | 2.0 |
| 28 | 482 | SBPR | 1 | 1 | 8 | 25.29 | 3 | 3 | 7 | 5 | 3 | 1 | 5 | 7 | 3.0 | 2.7 | 3.0 | 3.0 | 2.0 | 1.7 |
| 29 | 487 | SBPR | 1 | 1 | 8 | 27.51 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 2.0 | 1.7 | 2.7 | 2.7 | 2.7 | 3.0 |
| 30 | 489 | MD | 1 | 1 | 8 | 35.71 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.3 | 1.7 | 1.7 |
| 31 | 492 | MD | 1 | 1 | 3 | 27.60 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 2.3 | 3.0 | 2.7 | 3.0 | 2.7 | 1.0 |
| 32 | 493 | MD | 1 | 1 | 8 | 34.05 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 7 | 2.7 | 2.7 | 3.0 | 2.7 | 1.7 | 2.0 |
| 33 | 495 | MD | 1 | 1 | 8 | 26.31 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.7 | 1.7 | 1.7 |
| 34 | 506 | MD | 1 | 1 | 1 | 25.36 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 2.3 | 3.0 | 3.0 | 2.3 | 1.3 | 2.0 |

| Trait number → | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 509 | MD | 1 | 1 | 1 | 24.89 | 3 | 3 | 5 | 5 | 3 | 7 | 4 | 7 | 2.7 | 2.7 | 2.0 | 1.7 | 1.7 | 2.0 |
| 36 | 511 | MD | 1 | 1 | 8 | 25.01 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.0 | 3.0 | 3.0 | 4.3 | 2.7 | 2.0 |
| 37 | 513 | MD | 1 | 1 | 1 | 26.85 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 3.0 | 2.7 | 1.3 | 1.0 |
| 38 | 517 | MD | 1 | 1 | 8 | 31.00 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 3.0 | 1.3 | 1.3 |
| 39 | 519 | MD | 1 | 1 | 1 | 26.76 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.0 | 2.7 | 2.3 | 2.0 | 1.3 | 1.3 |
| 40 | 521 | MD | 1 | 1 | 8 | 31.52 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 2.7 | 2.7 | 2.7 | 1.7 | 1.3 | 2.0 |
| 41 | 522 | MD | 1 | 1 | 8 | 33.82 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 3.0 | 2.7 | 2.3 | 2.0 | 2.7 | 2.3 |
| 42 | 523 | MD | 1 | 1 | 8 | 27.35 | 3 | 3 | 7 | 3 | 3 | 1 | 5 | 6 | 2.7 | 3.0 | 2.3 | 1.3 | 2.0 | 2.3 |
| 43 | 524 | MD | 1 | 1 | 8 | 29.32 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 6 | 3.0 | 2.7 | 2.7 | 1.7 | 2.3 | 2.3 |
| 44 | 525 | MD | 1 | 1 | 8 | 30.52 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 3.0 | 3.0 | 2.0 | 2.0 | 3.0 | 2.3 |
| 45 | 527 | MD | 1 | 1 | 8 | 29.83 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.3 | 1.7 | 1.3 |
| 46 | 528 | MD | 1 | 1 | 1 | 26.73 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 1.0 | 1.3 | 3.0 | 1.7 | 1.3 | 2.3 |
| 47 | 533 | MD | 1 | 1 | 8 | 31.02 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 7 | 3.0 | 2.7 | 2.3 | 2.0 | 2.3 | 1.7 |
| 48 | 534 | MD | 1 | 1 | 8 | 25.87 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 3.0 | 2.7 | 2.3 | 1.7 | 1.0 | 1.7 |
| 49 | 536 | MD | 1 | 1 | 8 | 30.05 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 1.7 | 3.0 | 1.7 | 2.0 | 1.7 |
| 50 | 542 | MD | 1 | 1 | 8 | 29.51 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 3.0 | 2.0 | 2.7 | 2.0 |
| 51 | 543 | MD | 1 | 1 | 8 | 25.14 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 7 | 3.0 | 3.0 | 2.3 | 1.7 | 1.7 | 1.7 |
| 52 | 545 | MD | 1 | 1 | 8 | 24.89 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 3.0 | 3.0 | 1.3 | 1.0 | 1.7 | 2.0 |
| 53 | 549 | HB | 1 | 1 | 1 | 31.67 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 3.0 | 2.7 | 2.3 | 1.7 | 3.0 | 2.0 |
| 54 | 550 | HB | 1 | 1 | 1 | 25.06 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 6 | 2.7 | 1.7 | 1.7 | 1.3 | 2.7 | 2.7 |
| 55 | 553 | HB | 1 | 1 | 8 | 33.67 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 6 | 2.7 | 2.7 | 2.3 | 1.3 | 2.7 | 2.3 |
| 56 | 563 | HB | 1 | 1 | 1 | 30.83 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 6 | 2.7 | 2.7 | 2.0 | 1.0 | 1.7 | 2.3 |
| 57 | 565 | HB | 1 | 1 | 1 | 31.03 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 2.0 | 2.3 | 2.3 | 1.0 | 2.7 | 2.3 |
| Control | | | | | | | | | | | | | | | | | | | | |
| 58 | 296 B | High yield | 1 | 1 | 8 | 28.99 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 8 | 2.7 | 1.3 | 3.0 | 2.7 | 1.0 | 1.7 |
| Mean | | | - | - | - | 28.89 | - | - | - | - | - | - | 5 | 7 | 2.44 | 2.28 | 2.74 | 2.39 | 2.00 | 2.01 |
| SE ± | | | - | - | - | 1.22 | - | - | - | - | - | - | 0.39 | 0.22 | 0.25 | 0.27 | 0.24 | 0.27 | 0.26 | 0.22 |
| CV (%) | | | - | - | - | 7.29 | - | - | - | - | - | - | 13.65 | 5.35 | 17.42 | 20.47 | 15.48 | 19.44 | 22.95 | 18.62 |
| CD (5%) | | | - | - | - | 3.40 | - | - | - | - | - | - | 1.09 | 0.91 | 0.69 | 0.72 | 0.68 | 0.73 | 0.74 | 0.71 |

Annexure I-10. … Contd.

| Trait number ⟶ | | | 46 | | 47 | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Panicle yield (t ha$^{-1}$) Rainy | Panicle yield (t ha$^{-1}$) Postrainy | Grain yield (t ha$^{-1}$) Rainy | Grain yield (t ha$^{-1}$) Postrainy | Seed set % in A-line under high atmospheric temperature Summer | Seed set % in A-line under open pollination Postrainy | Shoot fly dead hearts% Rainy | Shoot fly dead hearts% Postrainy | Stem borer leaf feeding score Rainy | Stem borer dead hearts% Rainy | Stem borer dead hearts% Postrainy | Midge score Postrainy | Midge score under cage Postrainy | Head bug score Rainy |
| 1 | 409 | SFR | 4.9 | 4.8 | 3.8 | 4.1 | 40 | - | - | - | - | - | - | - | - | - |
| 2 | 410 | SFR | 4.4 | 5.0 | 3.4 | 4.3 | 50 | - | - | - | - | - | - | - | - | - |
| 3 | 411 | SFR | 4.5 | 4.0 | 3.5 | 3.1 | 0 | 60 | 73.4 | - | - | - | - | - | - | - |
| 4 | 412 | SFR | 3.8 | 4.0 | 3.0 | 3.0 | 0 | 60 | 76.3 | - | - | - | - | - | - | - |
| 5 | 417 | SFR | 2.8 | 2.7 | 1.9 | 1.8 | 0 | - | 59.9 | - | - | - | - | - | - | - |
| 6 | 421 | SFR | 3.5 | 3.5 | 2.5 | 2.6 | 0 | 55 | 61.2 | - | - | - | - | - | - | - |
| 7 | 424 | SFR | 3.3 | 3.2 | 2.6 | 2.8 | 0 | 75 | 80.2 | - | - | - | - | - | - | - |
| 8 | 426 | SFR | 4.1 | 3.1 | 2.8 | 2.2 | 0 | 30 | 78.3 | - | - | - | - | - | - | - |
| 9 | 427 | SFR | 3.0 | 4.2 | 2.1 | 3.4 | 0 | 60 | 77.4 | - | - | - | - | - | - | - |
| 10 | 430 | SFR | 3.6 | 3.7 | 2.9 | 3.1 | 0 | 30 | 68.7 | - | - | - | - | - | - | - |
| 11 | 436 | SFR | 4.7 | 5.1 | 3.6 | 4.3 | 0 | 60 | 94.5 | - | - | - | - | - | - | - |
| 12 | 437 | SFPR | 3.1 | 4.1 | 2.1 | 3.2 | 0 | 40 | - | 23 | - | - | - | - | - | - |
| 13 | 438 | SFPR | 2.8 | 4.1 | 2.1 | 3.3 | 0 | 50 | - | 24 | - | - | - | - | - | - |
| 14 | 439 | SFPR | 4.2 | 4.7 | 3.2 | 4.0 | 0 | 40 | - | 27 | - | - | - | - | - | - |
| 15 | 441 | SFPR | 4.1 | 3.9 | 3.0 | 2.9 | 0 | 40 | - | 22 | - | - | - | - | - | - |
| 16 | 442 | SFPR | 3.6 | 3.6 | 2.6 | 2.7 | 0 | 20 | - | 20 | - | - | - | - | - | - |
| 17 | 447 | SFPR | 3.9 | 4.2 | 2.8 | 3.2 | 0 | 30 | - | 16 | - | - | - | - | - | - |
| 18 | 448 | SFPR | 4.9 | 4.8 | 4.0 | 3.5 | 0 | 80 | - | 17 | - | - | - | - | - | - |
| 19 | 455 | SFPR | 3.5 | 2.5 | 2.4 | 1.9 | 0 | 65 | - | 5 | - | - | - | - | - | - |
| 20 | 456 | SFPR | 3.1 | 1.7 | 1.9 | 1.1 | 10 | 45 | - | 8 | - | - | - | - | - | - |
| 21 | 458 | SFPR | 3.1 | 4.2 | 2.2 | 3.3 | 10 | 15 | - | 20 | - | - | - | - | - | - |
| 22 | 459 | SFPR | 3.9 | 2.6 | 2.9 | 1.9 | 0 | 20 | - | 41 | - | - | - | - | - | - |
| 23 | 463 | SFPR | 4.1 | 3.6 | 3.0 | 2.8 | 0 | 20 | - | 7 | - | - | - | - | - | - |
| 24 | 466 | SBR | 3.1 | 5.1 | 2.4 | 4.3 | 0 | 75 | - | - | 4.9 | 60.9 | - | - | - | - |
| 25 | 473 | SBR | 3.5 | 3.9 | 2.7 | 3.1 | 20 | 70 | - | - | 5.2 | 50.6 | - | - | - | - |
| 26 | 476 | SBPR | 5.4 | 5.6 | 4.3 | 4.6 | 0 | - | - | - | - | - | - | - | - | - |
| 27 | 480 | SBPR | 4.2 | 3.1 | 3.0 | 2.5 | 0 | 55 | - | - | - | - | 34.6 | - | - | - |
| 28 | 482 | SBPR | 4.5 | 4.5 | 3.4 | 3.6 | 0 | 60 | - | - | - | - | 62.2 | - | - | - |
| 29 | 487 | SBPR | 2.8 | 2.8 | 2.1 | 2.4 | 40 | 50 | - | - | - | - | 29.4 | - | - | - |
| 30 | 489 | MD | 3.9 | 5.6 | 2.8 | 4.6 | 0 | 40 | - | - | - | - | - | 2.7 | 3.1 | - |
| 31 | 492 | MD | 3.7 | 6.7 | 2.8 | 5.6 | 0 | 40 | - | - | - | - | - | 3.9 | 2.1 | - |
| 32 | 493 | MD | 3.3 | 4.1 | 2.3 | 3.5 | 0 | 90 | - | - | - | - | - | 2.7 | 2.8 | - |
| 33 | 495 | MD | 3.0 | 5.8 | 2.1 | 5.1 | 0 | 40 | - | - | - | - | - | 3.6 | 3.1 | - |
| 34 | 506 | MD | 3.6 | 4.9 | 2.7 | 4.2 | 0 | 90 | - | - | - | - | - | 3.6 | 2.3 | - |

| Trait number → | | | 46 | | 47 | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Panicle yield (t ha$^{-1}$) Rainy | Postrainy | Grain yield (t ha$^{-1}$) Rainy | Postrainy | Seed set % in A-line under high atmospheric temperature Summer | Seed set % in A-line under open pollination Postrainy | Shoot fly dead hearts% Rainy | Shoot fly dead hearts% Postrainy | Stem borer leaf feeding score Rainy | Stem borer dead hearts% Rainy | Stem borer dead hearts% Postrainy | Midge score Postrainy | Midge score under cage Postrainy | Head bug score Rainy |
| 35 | 509 | MD | 3.1 | 3.1 | 2.4 | 2.9 | 0 | 85 | - | - | - | - | - | 4.5 | 4.6 | - |
| 36 | 511 | MD | 3.9 | 3.3 | 1.9 | 2.5 | 0 | 90 | - | - | - | - | - | 3.7 | 6.8 | - |
| 37 | 513 | MD | 2.9 | 5.8 | 2.0 | 4.9 | 0 | 60 | - | - | - | - | - | 2.9 | 2.6 | - |
| 38 | 517 | MD | 3.3 | 5.1 | 2.2 | 4.2 | 0 | 15 | - | - | - | - | - | 3 | 3 | - |
| 39 | 519 | MD | 4.5 | 5.9 | 3.3 | 4.7 | 0 | 90 | - | - | - | - | - | 5.2 | 6.2 | - |
| 40 | 521 | MD | 4.2 | 5.0 | 3.2 | 4.3 | 0 | 60 | - | - | - | - | - | 3.4 | 3.8 | - |
| 41 | 522 | MD | 3.9 | 4.4 | 2.9 | 3.7 | 0 | 80 | - | - | - | - | - | 4.2 | 4.7 | - |
| 42 | 523 | MD | 4.3 | 4.7 | 3.3 | 4.4 | 0 | 50 | - | - | - | - | - | 4.1 | 4.1 | - |
| 43 | 524 | MD | 3.5 | 4.1 | 2.7 | 3.5 | 0 | 70 | - | - | - | - | - | 2.9 | 2.8 | - |
| 44 | 525 | MD | 3.3 | 3.5 | 2.4 | 2.7 | 0 | 30 | - | - | - | - | - | 3.2 | 4.4 | - |
| 45 | 527 | MD | 3.2 | 6.2 | 2.3 | 4.6 | 0 | 20 | - | - | - | - | - | 3 | 2.5 | - |
| 46 | 528 | MD | 3.9 | 3.5 | 2.9 | 3.0 | 0 | 50 | - | - | - | - | - | 4.2 | 6.5 | - |
| 47 | 533 | MD | 3.9 | 5.1 | 2.7 | 4.0 | 0 | 40 | - | - | - | - | - | 3.2 | 4.1 | - |
| 48 | 534 | MD | 4.3 | 5.4 | 3.1 | 4.5 | 0 | 70 | - | - | - | - | - | 3.4 | 3.4 | - |
| 49 | 536 | MD | 4.5 | 4.5 | 3.2 | 3.7 | 0 | 60 | - | - | - | - | - | 3.2 | 2.6 | - |
| 50 | 542 | MD | 2.4 | 3.7 | 1.7 | 2.8 | 20 | 85 | - | - | - | - | - | 3.4 | 3.2 | - |
| 51 | 543 | MD | 3.6 | 4.2 | 2.6 | 2.7 | 60 | 85 | - | - | - | - | - | 3.2 | 4.7 | - |
| 52 | 545 | MD | 3.8 | 2.6 | 3.0 | 2.0 | 0 | - | - | - | - | - | - | - | - | - |
| 53 | 549 | HB | 3.1 | 4.0 | 2.4 | 3.3 | 0 | 75 | - | - | - | - | - | - | - | 5.7 |
| 54 | 550 | HB | 3.1 | 4.8 | 2.4 | 4.0 | 0 | 70 | - | - | - | - | - | - | - | 4.3 |
| 55 | 553 | HB | 3.8 | 4.1 | 2.8 | 3.3 | 0 | 35 | - | - | - | - | - | - | - | 4 |
| 56 | 563 | HB | 4.4 | 5.0 | 3.8 | 4.2 | 0 | 30 | - | - | - | - | - | - | - | 3.7 |
| 57 | 565 | HB | 3.0 | 3.6 | 2.4 | 3.2 | 0 | 70 | - | - | - | - | - | - | - | 5.3 |
| Control | | | | | | | | | | | | | | | | |
| 58 | 296 B | High yield | 4.2 | 3.4 | 3.0 | 2.3 | - | - | - | - | - | - | - | - | - | - |
| Mean | | | 3.71 | 4.14 | 2.73 | 3.33 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | 0.38 | 0.28 | 0.32 | 0.25 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | 17.73 | 11.53 | 20.17 | 13.19 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | 1.06 | 1.09 | 0.89 | 0.95 | - | - | - | - | - | - | - | - | - | - |

Annexure I-11. Characteristics of pest resistant (late maturity) sorghum B-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 428 | SFR | 2 | 1 | 3 | 1 | 2 | 2 | 81 | 98 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 433 | SFR | 2 | 1 | 3 | 1 | 2 | 2 | 78 | 84 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 434 | SFR | 2 | 1 | 3 | 1 | 2 | 2 | 78 | 84 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 443 | SFPR | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 83 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 453 | SFPR | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 85 | 1.7 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 468 | SBR | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 87 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 526 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 82 | 83 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 530 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 98 | 1.3 | 0.9 | 5 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 538 | MD | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 86 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 296 B | High yield | 2 | 1 | 3 | 1 | 2 | 2 | 79 | 95 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| Mean | | | - | - | - | - | - | - | 79 | 87 | 1.55 | 1.05 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | 0.86 | 1.22 | 0.03 | 0.02 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | 1.87 | 2.42 | 3.26 | 3.67 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | 2.54 | 3.47 | 0.09 | 0.07 | - | - | - | - | - | - | - | - | - | - |

SF- Shoot fly (Kharif adaptation); SFPR- Shoot fly (Rabi adaptation); SB- Stemborer (Kharif adaptation); MD- Midge.

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-48 : Ancillary traits recorded in the current trials.

Trait No. 49-55 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-11. … Contd.

| Trait number → | | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 428 | SFR | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 3 | 5 | 1 | 4 | 1 | 1 | 1.5 | 1.2 | 19.8 | 20.1 | 1 | 1 |
| 2 | 433 | SFR | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 1 | 4 | 4 | 4 | 1.7 | 1.2 | 17.9 | 16.9 | 1 | 1 |
| 3 | 434 | SFR | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 1 | 4 | 1 | 2 | 1.8 | 1.3 | 17.1 | 18.8 | 1 | 1 |
| 4 | 443 | SFPR | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 1 | 4 | 2 | 2 | 1.2 | 1.0 | 20.2 | 20.1 | 1 | 1 |
| 5 | 453 | SFPR | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 3 | 4 | 1 | 4 | 4 | 2.1 | 1.3 | 17.5 | 16.1 | 1 | 1 |
| 6 | 468 | SBR | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 1 | 4 | 4 | 4 | 1.5 | 1.0 | 20.1 | 18.6 | 1 | 1 |
| 7 | 526 | MD | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 1 | 5 | 4 | 1.2 | 1.0 | 20.4 | 19.1 | 2 | 1 |
| 8 | 530 | MD | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 1 | 1.6 | 1.1 | 19.0 | 19.5 | 1 | 1 |
| 9 | 538 | MD | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 3 | 5 | 4 | 4 | 7 | 7 | 1.6 | 1.1 | 16.6 | 16.7 | 2 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 296 B | High yield | 1 | 1 | 1 | 1 | 9 | 5 | 3 | 5 | 3 | 5 | 4 | 4 | 1 | 2 | 1.4 | 1.0 | 20.2 | 19.5 | 2 | 2 |
| Mean | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.86 | 1.29 | 18.85 | 17.10 | - | - |
| SE ± | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.04 | 0.03 | 1.12 | 0.74 | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.74 | 4.26 | 10.31 | 7.45 | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.12 | 0.11 | 3.33 | 3.07 | - | - |

Annexure I-11. … Contd.

| Trait number ⟶ | | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Brix reading (%) | | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | |
| | | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 428 | SFR | 10.0 | 20.3 | 68.0 | 61.0 | 9.4 | 6.7 | 24.1 | 20.1 | 8.2 | 5.7 | 5 | 7 | 3 | 3 | 7.3 | 8.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 |
| 2 | 433 | SFR | 9.3 | 15.3 | 60.4 | 55.8 | 8.3 | 6.8 | 28.6 | 21.6 | 9.2 | 6.6 | 5 | 7 | 3 | 3 | 5.3 | 7.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 |
| 3 | 434 | SFR | 14.7 | 17.7 | 61.8 | 54.7 | 8.8 | 6.6 | 28.7 | 22.8 | 9.0 | 6.6 | 5 | 7 | 3 | 3 | 6.3 | 6.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 4 | 443 | SFPR | 11.3 | 12.0 | 79.0 | 60.3 | 9.6 | 7.4 | 28.6 | 25.3 | 7.9 | 7.8 | 7 | 5 | 3 | 3 | 1.0 | 1.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 5 | 453 | SFPR | 14.3 | 16.3 | 60.0 | 57.0 | 8.0 | 6.6 | 24.7 | 18.0 | 6.7 | 4.0 | 7 | 7 | 3 | 3 | 9.0 | 11.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| 6 | 468 | SBR | 14.0 | 16.7 | 63.9 | 56.0 | 8.3 | 6.6 | 29.2 | 22.8 | 8.0 | 5.0 | 5 | 7 | 3 | 3 | 7.0 | 3.7 | 33.3 | 40.0 | 1 | 1 | 1 | 1 |
| 7 | 526 | MD | 16.0 | 16.3 | 78.3 | 53.6 | 8.3 | 6.2 | 23.5 | 20.4 | 6.0 | 5.3 | 7 | 7 | 3 | 3 | 0.0 | 6.0 | 50.0 | 25.0 | 1 | 1 | 1 | 1 |
| 8 | 530 | MD | 13.7 | 10.3 | 56.0 | 63.9 | 8.1 | 7.4 | 22.3 | 21.1 | 5.8 | 4.4 | 7 | 7 | 3 | 3 | 0.0 | 1.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 |
| 9 | 538 | MD | 6.0 | 15.7 | 56.0 | 58.8 | 8.7 | 7.6 | 29.4 | 25.9 | 7.7 | 6.6 | 7 | 5 | 3 | 3 | 7.3 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 296 B | High yield | 9.7 | 15.3 | 67.4 | 60.7 | 8.0 | 6.6 | 30.9 | 25.3 | 6.3 | 6.0 | 7 | 7 | 3 | 3 | 0.0 | 1.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 |
| Mean | | | 12.51 | 16.03 | 64.97 | 57.07 | 8.68 | 6.65 | 25.62 | 20.87 | 7.15 | 5.38 | - | - | - | - | 4.32 | 5.90 | 38.41 | 41.12 | - | - | - | - |
| SE ± | | | 0.63 | 0.96 | 2.54 | 1.68 | 0.48 | 0.28 | 1.41 | 0.76 | 0.82 | 0.41 | - | - | - | - | 0.53 | 0.59 | 3.02 | 4.71 | - | - | - | - |
| CV (%) | | | 8.75 | 10.36 | 6.77 | 5.09 | 9.56 | 7.32 | 9.53 | 6.28 | 19.76 | 13.08 | - | - | - | - | 21.45 | 17.36 | 13.62 | 19.85 | - | - | - | - |
| CD (5%) | | | 1.88 | 2.39 | 7.54 | 6.70 | 1.42 | 1.26 | 4.19 | 3.36 | 2.42 | 1.96 | - | - | - | - | 1.59 | 1.64 | 8.97 | 11.51 | - | - | - | - |

Annexure I-11. … Contd.

| Trait number → | | | 32 | | 33 | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Grain form | | Grain color | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | |
| | | | Rainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 428 | SFR | 1 | 1 | 8 | 26.08 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.3 | 1.7 | 2.7 | 2.7 | 2.0 | 2.0 | 3.3 | 3.5 | 2.4 | 2.3 |
| 2 | 433 | SFR | 1 | 1 | 8 | 27.93 | 3 | 3 | 5 | 5 | 3 | 7 | 6 | 7 | 2.0 | 1.3 | 2.7 | 3.0 | 1.3 | 2.0 | 4.6 | 5.2 | 3.5 | 4.3 |
| 3 | 434 | SFR | 1 | 1 | 8 | 27.66 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 2.7 | 1.7 | 3.0 | 3.0 | 1.3 | 1.7 | 4.5 | 4.7 | 3.5 | 4.4 |
| 4 | 443 | SFPR | 1 | 1 | 1 | 30.11 | 3 | 3 | 5 | 5 | 3 | 5 | 7 | 8 | 2.0 | 2.3 | 3.0 | 4.0 | 1.0 | 2.0 | 3.8 | 5.9 | 2.6 | 4.8 |
| 5 | 453 | SFPR | 1 | 1 | 8 | 27.01 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.3 | 1.3 | 3.0 | 3.0 | 2.0 | 2.7 | 2.4 | 3.0 | 1.8 | 2.5 |
| 6 | 468 | SBR | 1 | 1 | 8 | 25.79 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 2.7 | 2.0 | 2.7 | 2.7 | 1.7 | 2.0 | 3.9 | 3.6 | 2.9 | 3.1 |
| 7 | 526 | MD | 1 | 1 | 8 | 30.23 | 2 | 2 | 5 | 5 | 3 | 7 | 6 | 7 | 3.0 | 3.0 | 2.5 | 2.7 | 2.5 | 1.3 | 4.4 | 4.7 | 3.3 | 4.0 |
| 8 | 530 | MD | 1 | 1 | 8 | 31.11 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.0 | 2.3 | 2.0 | 1.0 | 4.4 | 5.0 | 3.1 | 4.1 |
| 9 | 538 | MD | 1 | 1 | 8 | 31.95 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 6 | 3.0 | 3.7 | 1.3 | 1.3 | 1.7 | 2.0 | 4.4 | 5.2 | 3.3 | 4.1 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 296 B | High yield | 1 | 1 | 8 | 27.78 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 8 | 2.3 | 3.0 | 3.3 | 3.3 | 1.0 | 1.7 | 3.9 | 3.5 | 2.9 | 2.3 |
| Mean | | | - | - | - | 27.01 | - | - | - | - | - | - | 6 | 7 | 2.39 | 2.18 | 2.80 | 2.54 | 1.76 | 2.03 | 3.83 | 4.20 | 2.79 | 3.31 |
| SE ± | | | - | - | - | 0.74 | - | - | - | - | - | - | 0.23 | 0.16 | 0.21 | 0.27 | 0.26 | 0.26 | 0.20 | 0.18 | 0.40 | 0.27 | 0.31 | 0.18 |
| CV (%) | | | - | - | - | 4.72 | - | - | - | - | - | - | 6.60 | 3.97 | 15.47 | 21.35 | 15.76 | 17.84 | 19.99 | 15.66 | 18.19 | 10.95 | 19.34 | 9.41 |
| CD (5%) | | | - | - | - | 2.15 | - | - | - | - | - | - | 0.67 | 0.64 | 0.63 | 0.77 | 0.76 | 0.76 | 0.60 | 0.57 | 1.19 | 1.22 | 0.93 | 0.90 |

Annexure I-11. … Contd.

| Trait number ⟶ | | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSB number | Trait | Seed set % in A-line under high atmospheric temperature Summer | Seed set % in A-line under open pollination Postrainy | Shoot fly dead hearts% Rainy | Shoot fly dead hearts% Postrainy | Stem borer leaf feeding score Rainy | Stem borer dead hearts% Rainy | Midge score Postrainy | Midge score under cage Postrainy |
| 1 | 428 | SFR | 0 | 20 | 51.3 | - | - | - | - | - |
| 2 | 433 | SFR | 40 | 60 | 59.6 | - | - | - | - | - |
| 3 | 434 | SFR | 40 | 70 | 58.4 | - | - | - | - | - |
| 4 | 443 | SFPR | 0 | 50 | - | 26 | - | - | - | - |
| 5 | 453 | SFPR | 0 | 65 | - | 13 | - | - | - | - |
| 6 | 468 | SBR | 0 | 45 | - | - | 4.9 | 44.4 | - | - |
| 7 | 526 | MD | 0 | 55 | - | - | - | - | 3.2 | 3.1 |
| 8 | 530 | MD | 0 | 45 | - | - | - | - | 4.3 | 5.1 |
| 9 | 538 | MD | 0 | 65 | - | - | - | - | 3.1 | 2.7 |
| Control | | | | | | | | | | |
| 10 | 296 B | High yield | - | - | - | - | - | - | - | - |
| Mean | | | - | - | - | - | - | - | - | - |
| SE ± | | | - | - | - | - | - | - | - | - |
| CV (%) | | | - | - | - | - | - | - | - | - |
| CD (5%) | | | - | - | - | - | - | - | - | - |

Annexure I-12. Characteristics of high yielding (Early maturity) sorghum R-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 32 | 2 | 2 | 3 | 3 | 2 | 2 | 69 | 82 | 1.0 | 0.7 | 3 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 45 | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 86 | 1.1 | 0.8 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 46 | 2 | 2 | 3 | 3 | 2 | 2 | 84 | 88 | 1.7 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 54 | 1 | 1 | 1 | 1 | 3 | 2 | 72 | 85 | 1.2 | 0.8 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 55 | 2 | 1 | 3 | 3 | 3 | 2 | 68 | 80 | 1.4 | 0.9 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 59 | 2 | 1 | 3 | 1 | 2 | 2 | 64 | 79 | 1.0 | 0.8 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 60 | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 81 | 1.3 | 0.8 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 61 | 2 | 1 | 3 | 1 | 2 | 2 | 67 | 80 | 1.1 | 0.8 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 64 | 2 | 2 | 3 | 1 | 2 | 2 | 67 | 74 | 1.3 | 0.9 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 69 | 1 | 1 | 1 | 1 | 2 | 2 | 70 | 72 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 79 | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 93 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 80 | 2 | 2 | 3 | 1 | 2 | 2 | 69 | 79 | 2.0 | 1.3 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 81 | 2 | 2 | 3 | 3 | 2 | 2 | 73 | 93 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 88 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 94 | 0.8 | 0.8 | 3 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 94 | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 87 | 1.1 | 0.8 | 7 | 7 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 97 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 85 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 105 | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 82 | 1.3 | 0.9 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 113 | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 83 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 121 | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 84 | 1.4 | 1.0 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 124 | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 93 | 1.8 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 137 | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 77 | 1.4 | 1.0 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 138 | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 79 | 1.3 | 0.9 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 142 | 1 | 1 | 1 | 1 | 2 | 2 | 66 | 78 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 148 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 95 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 151 | 2 | 1 | 3 | 3 | 2 | 2 | 69 | 78 | 1.7 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 89007 | 2 | 2 | 3 | 3 | 2 | 1 | 66 | 82 | 1.4 | 1.0 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 89029 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 84 | 1.6 | 1.0 | 3 | 3 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 89033 | 1 | 1 | 1 | 1 | 3 | 2 | 70 | 76 | 1.4 | 0.9 | 7 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 89035 | 2 | 2 | 3 | 1 | 2 | 2 | 61 | 72 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 89036 | 2 | 1 | 3 | 1 | 3 | 2 | 71 | 80 | 1.6 | 0.8 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 89038 | 2 | 2 | 3 | 3 | 2 | 2 | 64 | 84 | 1.2 | 0.9 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 89039 | 2 | 1 | 3 | 1 | 2 | 2 | 65 | 81 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 89044 | 1 | 1 | 1 | 1 | 2 | 2 | 62 | 78 | 1.3 | 0.9 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 89050 | 2 | 2 | 3 | 3 | 2 | 2 | 64 | 82 | 1.2 | 0.9 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 89066 | 2 | 2 | 3 | 3 | 2 | 2 | 67 | 77 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

| Trait number → | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 36 | 89067 | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 87 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 37 | 89074 | 2 | 2 | 3 | 1 | 2 | 2 | 67 | 81 | 1.7 | 0.9 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 5 | 5 |
| 38 | 90014 | 1 | 1 | 1 | 1 | 3 | 3 | 71 | 85 | 1.5 | 1.1 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 90015 | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 86 | 1.8 | 1.3 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 90025 | 2 | 2 | 3 | 1 | 2 | 2 | 69 | 78 | 2.4 | 1.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 91001 | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 79 | 1.1 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 91002 | 2 | 2 | 3 | 3 | 2 | 2 | 67 | 72 | 1.3 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 91003 | 1 | 1 | 1 | 1 | 2 | 2 | 69 | 94 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 91004 | 1 | 1 | 1 | 1 | 2 | 2 | 68 | 82 | 1.5 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 91021 | 2 | 2 | 3 | 3 | 2 | 2 | 66 | 81 | 1.3 | 0.9 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 46 | 91022 | 2 | 2 | 3 | 3 | 2 | 2 | 68 | 86 | 1.5 | 1.1 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 91029 | 1 | 1 | 1 | 1 | 3 | 3 | 66 | 75 | 1.3 | 0.9 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 92015 | 2 | 2 | 3 | 3 | 2 | 2 | 60 | 77 | 1.9 | 1.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 5 |
| Control | | | | | | | | | | | | | | | | | | | | | |
| 49 | CSV 4 | 2 | 1 | 3 | 1 | 2 | 2 | 68 | 75 | 1.1 | 0.8 | 1 | 3 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | RS 29 | 2 | 2 | 3 | 1 | 2 | 2 | 73 | 86 | 1.8 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | - | - | - | - | - | - | 69 | 82 | 1.37 | 0.95 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | - | - | - | - | - | - | 1.04 | 1.09 | 0.04 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | - | - | - | - | - | - | 2.61 | 2.31 | 5.20 | 5.04 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | - | - | - | - | - | - | 2.92 | 3.14 | 0.12 | 0.10 | - | - | - | - | - | - | - | - | - | - |

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-47 : Ancillary traits recorded in the current trials.

Trait No. 48-50 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-12. … Contd.

| Trait number → | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 32 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 6 | 2 | 2 | 1.3 | 1.0 | 19.3 | 21.1 | 1 | 1 | 5.7 | 16.0 |
| 2 | 45 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 4 | 1.2 | 1.0 | 21.9 | 19.2 | 1 | 1 | 9.7 | 15.3 |
| 3 | 46 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 1.9 | 1.4 | 20.5 | 20.6 | 1 | 1 | 16.0 | 17.0 |
| 4 | 54 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 6 | 4 | 5 | 7 | 1.6 | 1.1 | 20.3 | 20.2 | 1 | 2 | 7.3 | 20.3 |
| 5 | 55 | 1 | 1 | 5 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.6 | 1.2 | 18.5 | 16.4 | 1 | 1 | 10.7 | 16.0 |
| 6 | 59 | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 1.4 | 1.0 | 19.5 | 19.2 | 1 | 1 | 8.0 | 17.7 |
| 7 | 60 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.6 | 1.1 | 14.7 | 18.1 | 1 | 1 | 12.7 | 14.0 |
| 8 | 61 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 3 | 4 | 4 | 2 | 2 | 1.2 | 1.0 | 21.4 | 17.6 | 2 | 1 | 4.3 | 14.3 |
| 9 | 64 | 1 | 1 | 7 | 5 | 5 | 3 | 5 | 3 | 5 | 3 | 7 | 4 | 2 | 2 | 1.6 | 1.2 | 18.5 | 18.3 | 1 | 1 | 9.0 | 14.3 |
| 10 | 69 | 1 | 1 | 5 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.5 | 1.1 | 19.0 | 15.9 | 1 | 1 | 6.7 | 15.0 |
| 11 | 79 | 1 | 1 | 1 | 1 | 5 | 5 | 3 | 5 | 5 | 3 | 4 | 4 | 4 | 7 | 1.3 | 1.0 | 19.7 | 18.3 | 1 | 1 | 6.3 | 15.7 |
| 12 | 80 | 1 | 1 | 7 | 5 | 3 | 5 | 3 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 2.2 | 1.5 | 16.3 | 15.3 | 1 | 1 | 14.0 | 15.0 |
| 13 | 81 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 7 | 5 | 6 | 4 | 2 | 3 | 1.6 | 1.1 | 18.1 | 17.9 | 1 | 1 | 12.7 | 15.0 |
| 14 | 88 | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 4 | 6 | 1 | 6 | 1.1 | 1.0 | 24.2 | 23.9 | 1 | 1 | 3.7 | 12.7 |
| 15 | 94 | 1 | 1 | 5 | 1 | 9 | 5 | 7 | 7 | 5 | 5 | 6 | 6 | 4 | 4 | 1.3 | 1.0 | 19.0 | 19.8 | 2 | 1 | 5.7 | 10.3 |
| 16 | 97 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 6 | 1.5 | 1.1 | 19.0 | 21.7 | 1 | 1 | 7.3 | 17.7 |
| 17 | 105 | 1 | 1 | 7 | 5 | 3 | 3 | 7 | 7 | 5 | 5 | 4 | 4 | 4 | 4 | 1.7 | 1.2 | 19.6 | 21.1 | 2 | 1 | 3.7 | 17.0 |
| 18 | 113 | 1 | 1 | 7 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 1.7 | 1.3 | 20.6 | 20.9 | 2 | 1 | 6.3 | 18.7 |
| 19 | 121 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 5 | 1.8 | 1.3 | 18.6 | 20.2 | 2 | 1 | 10.0 | 16.7 |
| 20 | 124 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 7 | 2.1 | 1.3 | 20.4 | 22.1 | 1 | 1 | 13.3 | 13.0 |
| 21 | 137 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 2 | 2 | 1.8 | 1.4 | 18.8 | 19.0 | 1 | 2 | 12.3 | 10.3 |
| 22 | 138 | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 4 | 5 | 1.7 | 1.3 | 17.2 | 17.6 | 1 | 1 | 13.7 | 18.7 |
| 23 | 142 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 4 | 4 | 1.6 | 1.1 | 19.2 | 19.7 | 1 | 1 | 9.0 | 12.7 |
| 24 | 148 | 1 | 1 | 7 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 1 | 1.8 | 1.3 | 20.4 | 24.2 | 1 | 1 | 9.0 | 15.3 |
| 25 | 151 | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 7 | 4 | 4 | 1 | 2.0 | 1.4 | 17.4 | 18.2 | 1 | 1 | 13.0 | 15.7 |
| 26 | 89007 | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 7 | 5 | 5 | 4 | 4 | 4 | 4 | 1.7 | 1.3 | 20.4 | 19.2 | 1 | 1 | 9.3 | 16.3 |
| 27 | 89029 | 1 | 1 | 7 | 7 | 3 | 5 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 3 | 2.0 | 1.4 | 17.3 | 19.4 | 1 | 1 | 10.7 | 16.3 |
| 28 | 89033 | 1 | 1 | 7 | 1 | 3 | 3 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 7 | 1.7 | 1.3 | 17.9 | 16.3 | 2 | 2 | 9.0 | 18.3 |
| 29 | 89035 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 7 | 2 | 5 | 1.4 | 1.1 | 20.2 | 18.2 | 1 | 1 | 9.0 | 10.7 |
| 30 | 89036 | 1 | 1 | 7 | 5 | 5 | 5 | 7 | 7 | 5 | 5 | 4 | 4 | 5 | 7 | 1.9 | 1.1 | 19.1 | 21.9 | 1 | 1 | 13.0 | 12.3 |
| 31 | 89038 | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 4 | 1.4 | 1.1 | 19.0 | 19.9 | 1 | 1 | 9.3 | 15.0 |
| 32 | 89039 | 1 | 1 | 5 | 1 | 3 | 5 | 3 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.6 | 1.3 | 17.0 | 16.6 | 1 | 1 | 15.0 | 13.3 |
| 33 | 89044 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 2 | 2 | 1.7 | 1.2 | 16.7 | 17.8 | 1 | 1 | 12.3 | 15.3 |
| 34 | 89050 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 3 | 4 | 4 | 2 | 7 | 1.4 | 1.1 | 20.1 | 20.7 | 1 | 1 | 6.0 | 16.7 |
| 35 | 89066 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 1 | 2 | 1.3 | 1.0 | 17.7 | 16.6 | 1 | 1 | 6.3 | 17.0 |

| Trait number → | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 36 | 89067 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 7 | 5 | 6 | 4 | 8 | 7 | 1.7 | 1.3 | 20.3 | 18.9 | 1 | 2 | 10.7 | 10.7 |
| 37 | 89074 | 1 | 1 | 1 | 1 | 9 | 9 | 7 | 5 | 5 | 5 | 4 | 6 | 7 | 7 | 2.0 | 1.3 | 19.4 | 18.1 | 1 | 1 | 9.7 | 14.7 |
| 38 | 90014 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 1.7 | 1.3 | 18.1 | 17.5 | 2 | 2 | 6.0 | 16.0 |
| 39 | 90015 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 5 | 5 | 2.1 | 1.6 | 17.0 | 18.4 | 1 | 1 | 11.3 | 14.3 |
| 40 | 90025 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 7 | 5 | 5 | 4 | 7 | 7 | 7 | 2.5 | 2.0 | 17.9 | 15.7 | 1 | 1 | 12.7 | 16.0 |
| 41 | 91001 | 1 | 1 | 7 | 1 | 3 | 3 | 3 | 5 | 5 | 5 | 4 | 6 | 5 | 5 | 1.5 | 1.1 | 17.1 | 20.2 | 2 | 1 | 5.3 | 13.3 |
| 42 | 91002 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 7 | 7 | 1.5 | 1.1 | 19.9 | 17.0 | 2 | 1 | 11.0 | 17.7 |
| 43 | 91003 | 1 | 1 | 7 | 5 | 3 | 3 | 5 | 3 | 3 | 3 | 4 | 4 | 4 | 7 | 1.9 | 1.4 | 18.3 | 22.0 | 1 | 2 | 13.3 | 11.3 |
| 44 | 91004 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 3 | 4 | 6 | 4 | 2 | 1.9 | 1.5 | 18.5 | 17.0 | 1 | 2 | 7.3 | 14.3 |
| 45 | 91021 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 4 | 4 | 1.7 | 1.3 | 15.6 | 19.0 | 1 | 1 | 7.7 | 17.0 |
| 46 | 91022 | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 7 | 1.9 | 1.3 | 17.3 | 18.7 | 1 | 1 | 12.0 | 11.3 |
| 47 | 91029 | 1 | 1 | 7 | 1 | 3 | 3 | 3 | 3 | 5 | 3 | 4 | 4 | 2 | 2 | 1.6 | 1.2 | 17.9 | 17.4 | 1 | 1 | 8.3 | 14.0 |
| 48 | 92015 | 1 | 1 | 5 | 5 | 9 | 9 | 5 | 5 | 5 | 5 | 4 | 7 | 7 | 7 | 2.4 | 1.9 | 18.2 | 17.5 | 1 | 1 | 15.0 | 18.7 |
| Control | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | CSV 4 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 3 | 5 | 4 | 4 | 4 | 2 | 1.3 | 1.1 | 17.0 | 16.2 | 1 | 1 | 6.0 | 15.3 |
| 50 | RS 29 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 3 | 4 | 4 | 4 | 2 | 2.0 | 1.5 | 18.7 | 17.3 | 1 | 1 | 12.7 | 15.3 |
| Mean | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.67 | 1.24 | 18.82 | 18.83 | - | - | 9.57 | 15.12 |
| SE + | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.05 | 0.03 | 1.08 | 0.94 | - | - | 1.13 | 1.47 |
| CV (%) | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.14 | 4.61 | 9.90 | 8.67 | - | - | 20.46 | 16.83 |
| CD (5%) | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.14 | 0.12 | 3.02 | 2.87 | - | - | 3.19 | 3.68 |

Annexure I-12. … Contd.

| Trait number ⟶ | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | | Grain color |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy |
| 1 | 32 | 63.7 | 58.3 | 9.0 | 7.4 | 25.2 | 20.3 | 8.3 | 5.7 | 7 | 5 | 3 | 3 | 4.7 | 5.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 2 | 45 | 63.2 | 56.9 | 8.8 | 7.0 | 27.1 | 24.4 | 6.5 | 6.1 | 5 | 5 | 3 | 3 | 0.0 | 0.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 3 | 46 | 78.2 | 66.7 | 9.6 | 7.3 | 20.6 | 26.0 | 6.3 | 6.7 | 7 | 7 | 3 | 3 | 5.3 | 8.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 54 | 70.8 | 60.4 | 9.7 | 7.7 | 27.3 | 21.7 | 5.6 | 4.6 | 7 | 7 | 3 | 3 | 6.7 | 8.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 55 | 73.2 | 58.0 | 8.1 | 7.2 | 24.9 | 20.4 | 8.3 | 4.9 | 5 | 5 | 3 | 3 | 6.0 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 6 | 59 | 69.7 | 60.4 | 9.4 | 7.1 | 27.7 | 24.9 | 8.4 | 7.2 | 5 | 5 | 3 | 3 | 6.0 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 7 | 60 | 64.9 | 58.4 | 8.6 | 7.1 | 28.9 | 25.1 | 7.8 | 7.1 | 7 | 5 | 3 | 3 | 8.0 | 4.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 8 | 61 | 68.0 | 53.2 | 8.4 | 7.0 | 26.4 | 23.4 | 8.2 | 5.9 | 5 | 5 | 3 | 3 | 0.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 64 | 64.0 | 58.8 | 8.8 | 6.9 | 29.6 | 21.7 | 7.4 | 5.8 | 5 | 5 | 3 | 3 | 4.3 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 10 | 69 | 66.3 | 52.8 | 10.0 | 6.6 | 28.1 | 20.9 | 7.4 | 5.1 | 7 | 7 | 3 | 3 | 4.3 | 7.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 11 | 79 | 69.2 | 65.8 | 9.4 | 6.9 | 23.4 | 19.1 | 5.1 | 3.8 | 7 | 7 | 3 | 3 | 0.0 | 1.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 12 | 80 | 68.6 | 64.2 | 8.0 | 6.8 | 21.9 | 17.6 | 7.1 | 5.2 | 7 | 7 | 3 | 3 | 2.7 | 3.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 81 | 67.4 | 62.2 | 7.7 | 6.0 | 28.0 | 26.6 | 8.3 | 6.7 | 7 | 7 | 3 | 3 | 0.3 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 14 | 88 | 72.0 | 67.2 | 8.3 | 7.1 | 28.1 | 24.3 | 8.9 | 7.0 | 5 | 7 | 3 | 3 | 2.7 | 4.3 | 50.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 15 | 94 | 67.8 | 62.9 | 8.2 | 6.9 | 21.7 | 21.1 | 6.3 | 5.6 | 5 | 7 | 3 | 3 | 4.0 | 6.3 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 16 | 97 | 62.0 | 63.4 | 8.3 | 7.7 | 24.8 | 21.8 | 6.6 | 5.6 | 7 | 5 | 3 | 3 | 4.3 | 4.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 17 | 105 | 74.3 | 67.2 | 8.4 | 7.0 | 31.9 | 24.6 | 7.9 | 5.7 | 5 | 5 | 3 | 3 | 9.0 | 8.3 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 18 | 113 | 70.9 | 64.4 | 9.1 | 7.7 | 33.3 | 28.4 | 9.3 | 8.7 | 5 | 5 | 3 | 3 | 10.3 | 12.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 121 | 66.3 | 64.1 | 9.6 | 7.3 | 25.9 | 25.3 | 7.1 | 6.4 | 5 | 5 | 3 | 3 | 9.7 | 7.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 124 | 70.1 | 64.2 | 8.7 | 7.7 | 26.0 | 22.1 | 7.9 | 6.2 | 7 | 7 | 3 | 3 | 4.3 | 7.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 21 | 137 | 71.9 | 57.6 | 8.3 | 5.7 | 35.2 | 26.9 | 9.7 | 7.0 | 5 | 5 | 3 | 3 | 9.0 | 12.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 138 | 68.6 | 60.8 | 7.1 | 6.2 | 30.6 | 25.6 | 7.3 | 6.3 | 7 | 5 | 3 | 3 | 8.0 | 13.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| 23 | 142 | 64.6 | 55.4 | 8.3 | 6.7 | 23.8 | 19.4 | 6.2 | 5.6 | 7 | 7 | 3 | 3 | 11.0 | 14.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 24 | 148 | 74.1 | 65.3 | 9.3 | 7.2 | 23.8 | 21.2 | 6.6 | 6.1 | 7 | 7 | 3 | 3 | 13.7 | 10.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 25 | 151 | 62.9 | 59.9 | 8.7 | 6.1 | 25.4 | 20.2 | 7.7 | 5.3 | 7 | 7 | 3 | 4 | 5.3 | 15.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 26 | 89007 | 67.8 | 57.6 | 8.3 | 7.0 | 26.2 | 22.1 | 7.7 | 6.4 | 5 | 5 | 3 | 3 | 11.3 | 13.0 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 27 | 89029 | 72.8 | 68.9 | 8.9 | 6.6 | 32.4 | 26.7 | 7.7 | 5.6 | 5 | 5 | 3 | 3 | 7.3 | 10.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 89033 | 65.8 | 60.9 | 8.8 | 7.1 | 29.2 | 24.7 | 7.4 | 6.2 | 5 | 5 | 3 | 3 | 4.3 | 17.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 89035 | 68.7 | 59.2 | 7.9 | 6.1 | 30.1 | 22.9 | 8.4 | 6.7 | 5 | 5 | 3 | 3 | 3.3 | 8.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 30 | 89036 | 63.3 | 59.6 | 8.6 | 8.0 | 26.3 | 23.2 | 7.2 | 7.3 | 7 | 7 | 3 | 3 | 6.0 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 31 | 89038 | 72.7 | 63.1 | 9.4 | 6.6 | 25.2 | 21.8 | 8.2 | 7.0 | 5 | 5 | 3 | 3 | 0.0 | 3.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 32 | 89039 | 69.8 | 54.1 | 8.2 | 5.3 | 28.9 | 22.3 | 8.3 | 5.7 | 5 | 3 | 3 | 3 | 7.7 | 7.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 89044 | 59.8 | 62.4 | 8.7 | 6.1 | 28.2 | 21.8 | 8.3 | 5.7 | 7 | 5 | 3 | 3 | 12.3 | 14.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| 34 | 89050 | 70.0 | 59.3 | 9.6 | 6.9 | 24.7 | 20.9 | 7.4 | 5.4 | 7 | 7 | 3 | 3 | 4.0 | 4.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 35 | 89066 | 65.9 | 53.2 | 8.6 | 6.9 | 25.8 | 20.3 | 6.1 | 5.0 | 7 | 7 | 3 | 3 | 0.0 | 4.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |

| Trait number → | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | | Grain color |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy |
| 36 | 89067 | 64.0 | 60.3 | 8.3 | 6.4 | 25.3 | 25.6 | 8.5 | 7.2 | 5 | 5 | 3 | 3 | 6.3 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 37 | 89074 | 71.9 | 61.9 | 8.2 | 6.1 | 27.3 | 23.3 | 8.9 | 6.8 | 7 | 7 | 3 | 3 | 7.0 | 15.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 38 | 90014 | 68.9 | 59.3 | 9.2 | 7.8 | 24.9 | 22.6 | 8.2 | 5.0 | 7 | 5 | 3 | 3 | 3.0 | 4.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 90015 | 66.8 | 58.6 | 9.1 | 7.1 | 22.7 | 17.9 | 6.4 | 4.7 | 5 | 7 | 3 | 3 | 9.3 | 14.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 40 | 90025 | 60.4 | 57.1 | 7.8 | 6.0 | 23.2 | 18.2 | 7.8 | 5.4 | 5 | 5 | 4 | 4 | 4.0 | 9.7 | 58.3 | 58.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 41 | 91001 | 57.0 | 61.3 | 8.1 | 6.8 | 26.3 | 24.4 | 8.3 | 7.2 | 5 | 7 | 3 | 3 | 20.0 | 12.7 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 42 | 91002 | 67.0 | 58.9 | 8.9 | 5.9 | 29.3 | 21.0 | 9.4 | 6.2 | 7 | 5 | 3 | 3 | 0.0 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 43 | 91003 | 69.9 | 62.7 | 8.7 | 6.9 | 25.9 | 26.6 | 6.6 | 6.3 | 5 | 7 | 3 | 3 | 16.7 | 11.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 44 | 91004 | 66.1 | 57.6 | 8.4 | 6.7 | 33.3 | 25.2 | 9.4 | 5.4 | 5 | 5 | 3 | 3 | 7.7 | 12.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 45 | 91021 | 64.3 | 58.3 | 7.9 | 6.1 | 30.4 | 26.7 | 7.7 | 8.0 | 5 | 5 | 3 | 3 | 12.0 | 12.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 46 | 91022 | 74.9 | 64.9 | 8.1 | 5.8 | 27.7 | 22.9 | 8.2 | 6.7 | 7 | 7 | 3 | 3 | 9.7 | 9.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 47 | 91029 | 56.1 | 52.7 | 9.3 | 7.1 | 26.6 | 22.3 | 9.5 | 5.3 | 5 | 5 | 3 | 3 | 5.3 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 48 | 92015 | 65.8 | 57.9 | 7.8 | 6.4 | 28.3 | 21.9 | 11.6 | 9.6 | 3 | 3 | 3 | 3 | 18.7 | 18.0 | 75.0 | 66.7 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | CSV 4 | 62.9 | 54.7 | 7.9 | 5.7 | 23.8 | 19.3 | 6.8 | 5.4 | 7 | 7 | 3 | 3 | 2.0 | 7.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 50 | RS 29 | 69.7 | 60.8 | 10.3 | 7.1 | 26.8 | 20.6 | 7.6 | 5.2 | 5 | 5 | 3 | 3 | 0.0 | 5.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| Mean | | 67.49 | 60.22 | 8.65 | 6.75 | 27.01 | 22.79 | 7.75 | 6.13 | - | - | - | - | 6.29 | 8.52 | 28.59 | 30.07 | - | - | - | - | - | - | - |
| SE ± | | 4.03 | 1.82 | 0.51 | 0.33 | 1.12 | 0.94 | 0.51 | 0.51 | - | - | - | - | 0.90 | 1.11 | 3.30 | 4.72 | - | - | - | - | - | - | - |
| CV (%) | | 10.33 | 5.22 | 10.29 | 8.43 | 7.21 | 7.12 | 11.43 | 14.52 | - | - | - | - | 24.68 | 22.67 | 20.02 | 27.19 | - | - | - | - | - | - | - |
| CD (5%) | | 11.29 | 9.47 | 1.44 | 1.33 | 3.16 | 2.92 | 1.44 | 1.54 | - | - | - | - | 2.51 | 2.83 | 9.27 | 11.39 | - | - | - | - | - | - | - |

Annexure I-12. … Contd.

| Trait number ⟶ | | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | 1000-grain mass (g) | Grain shape dorsal view | Grain shape profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy | Postrainy | Postrainy |
| 1 | 32 | 31.74 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 2.7 | 3.0 | 2.0 | 1.7 | 4.5 | 5.0 | 3.6 | 4.0 | Tan | Thick | 9.0 |
| 2 | 45 | 34.22 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 8 | 3.7 | 3.0 | 3.0 | 3.3 | 2.0 | 2.0 | 3.4 | 4.3 | 2.5 | 3.8 | Tan | Thin | 10.3 |
| 3 | 46 | 34.50 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 2.7 | 3.0 | 2.7 | 2.3 | 1.3 | 2.3 | 4.5 | 1.6 | 3.6 | Tan | Thick | 8.0 |
| 4 | 54 | 35.13 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.0 | 2.7 | 2.3 | 2.0 | 3.1 | 4.2 | 2.4 | 3.8 | Tan | Thick | 10.9 |
| 5 | 55 | 29.69 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 2.7 | 3.0 | 1.7 | 2.0 | 2.0 | 3.0 | 4.9 | 3.0 | 3.9 | 2.7 | Tan | Thin | 8.3 |
| 6 | 59 | 32.88 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 8 | 3.0 | 3.3 | 3.0 | 4.0 | 1.7 | 2.0 | 4.2 | 4.4 | 3.2 | 3.9 | Tan | Thin | 8.8 |
| 7 | 60 | 29.18 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 3.7 | 1.7 | 1.7 | 4.1 | 4.5 | 3.4 | 3.7 | Tan | Thin | 6.4 |
| 8 | 61 | 35.03 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.3 | 2.3 | 2.7 | 2.3 | 4.2 | 3.6 | 3.2 | 2.2 | Tan | Thin | 7.4 |
| 9 | 64 | 30.41 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.3 | 2.7 | 2.3 | 3.0 | 2.0 | 2.0 | 4.7 | 4.6 | 3.7 | 3.8 | Tan | Thin | 10.1 |
| 10 | 69 | 35.95 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 2.7 | 2.7 | 3.3 | 2.0 | 2.3 | 5.2 | 3.5 | 4.1 | 2.9 | Tan | Thin | 8.4 |
| 11 | 79 | 29.42 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.3 | 2.3 | 1.7 | 2.3 | 2.0 | 2.0 | 3.2 | 3.5 | 2.6 | 2.0 | Tan | Thin | 10.4 |
| 12 | 80 | 35.98 | 2 | 2 | 5 | 3 | 3 | 7 | 5 | 7 | 3.0 | 2.3 | 2.3 | 2.3 | 3.0 | 2.3 | 4.6 | 4.9 | 3.5 | 3.7 | Tan | Thick | 12.0 |
| 13 | 81 | 31.84 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 3.0 | 3.0 | 3.3 | 4.0 | 2.7 | 1.7 | 3.3 | 4.6 | 2.5 | 3.8 | Tan | Thin | 9.4 |
| 14 | 88 | 31.53 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 3.0 | 3.0 | 3.0 | 2.7 | 1.0 | 2.7 | 5.7 | 2.0 | 4.0 | Tan | Thin | 9.5 |
| 15 | 94 | 34.82 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 8 | 2.7 | 3.0 | 3.3 | 4.7 | 2.3 | 2.3 | 3.7 | 2.7 | 2.8 | 2.6 | Tan | Thin | 9.6 |
| 16 | 97 | 43.16 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 3.7 | 2.7 | 2.7 | 1.7 | 2.3 | 3.9 | 3.7 | 3.0 | 3.1 | Tan | Thin | 7.8 |
| 17 | 105 | 30.25 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 4.0 | 3.0 | 3.0 | 2.0 | 2.3 | 1.7 | 4.5 | 4.0 | 3.7 | 3.4 | Tan | Thin | 7.8 |
| 18 | 113 | 30.13 | 2 | 2 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.3 | 3.7 | 1.3 | 2.0 | 4.6 | 3.6 | 3.5 | 2.8 | Tan | Thick | 15.1 |
| 19 | 121 | 35.06 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 3.3 | 3.0 | 3.0 | 3.0 | 1.7 | 2.0 | 3.8 | 3.6 | 3.0 | 2.8 | Tan | Thin | 7.5 |
| 20 | 124 | 35.15 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 8 | 3.0 | 3.0 | 2.3 | 3.7 | 2.0 | 2.0 | 3.7 | 4.6 | 2.7 | 4.0 | Tan | Thin | 9.4 |
| 21 | 137 | 28.45 | 2 | 2 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.3 | 2.3 | 2.3 | 2.3 | 2.0 | 4.2 | 5.1 | 3.5 | 4.2 | Tan | Thick | 9.8 |
| 22 | 138 | 34.25 | 2 | 2 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 2.7 | 3.0 | 2.3 | 1.7 | 2.0 | 4.1 | 3.8 | 3.2 | 3.1 | Tan | Thin | 8.3 |
| 23 | 142 | 33.23 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 2.3 | 2.7 | 3.7 | 3.0 | 3.0 | 2.3 | 4.6 | 4.2 | 3.8 | 3.5 | Tan | Thin | 10.0 |
| 24 | 148 | 30.50 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.0 | - | 4.3 | 5.0 | 2.7 | 1.3 | 2.7 | 2.1 | 2.0 | 1.6 | Tan | Thin | 8.8 |
| 25 | 151 | 29.20 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 8 | 2.7 | 2.7 | 3.0 | 3.3 | 1.7 | 2.0 | 4.8 | 4.6 | 4.4 | 3.1 | Tan | Thin | 8.7 |
| 26 | 89007 | 32.10 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.3 | 2.3 | 2.0 | 3.0 | 2.3 | 2.0 | 4.2 | 4.6 | 3.4 | 3.8 | Tan | Thin | 8.0 |
| 27 | 89029 | 32.63 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.3 | 3.3 | 1.7 | 2.0 | 1.7 | 2.0 | 5.7 | 4.4 | 4.7 | 3.7 | Tan | Thick | 7.0 |
| 28 | 89033 | 25.61 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.0 | 2.3 | 1.3 | 1.3 | 1.3 | 2.3 | 4.0 | 4.6 | 3.2 | 3.5 | Tan | Thin | 7.6 |
| 29 | 89035 | 33.49 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.3 | 2.3 | 2.3 | 2.3 | 2.0 | 4.3 | 3.7 | 3.4 | 3.1 | Tan | Thin | 12.5 |
| 30 | 89036 | 39.78 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 2.7 | 3.0 | 3.0 | 4.3 | 2.7 | 2.0 | 3.5 | 3.1 | 2.7 | 3.3 | Tan | Thin | 11.8 |
| 31 | 89038 | 29.71 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 2.7 | 3.0 | 3.0 | 4.0 | 2.3 | 2.3 | 4.3 | 3.6 | 3.4 | 3.1 | Tan | Thin | 8.0 |
| 32 | 89039 | 30.27 | 2 | 2 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.7 | 2.3 | 2.0 | 3.0 | 2.3 | 3.9 | 3.5 | 3.2 | 2.8 | Tan | Thin | 9.0 |
| 33 | 89044 | 28.09 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.3 | 2.3 | 2.7 | 3.0 | 2.3 | 2.3 | 3.6 | 4.0 | 3.0 | 3.5 | Tan | Thick | 9.0 |
| 34 | 89050 | 31.07 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 3.0 | 2.7 | 2.3 | 2.0 | 1.7 | 4.4 | 4.3 | 3.5 | 3.7 | Tan | Thin | 8.8 |
| 35 | 89066 | 27.48 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 2.0 | 1.7 | 3.3 | 3.3 | 2.0 | 2.3 | 2.5 | 3.4 | 1.7 | 2.7 | Tan | Thin | 9.0 |

| Trait number → | | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | 1000-grain mass (g) | Grain shape dorsal view | Grain shape profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy | Postrainy | Postrainy |
| 36 | 89067 | 37.26 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.3 | 3.0 | 3.3 | 2.3 | 2.0 | 4.8 | 4.9 | 3.5 | 3.9 | Tan | Thin | 7.8 |
| 37 | 89074 | 34.55 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 8 | 2.7 | 3.0 | 4.0 | 4.0 | 2.3 | 2.0 | 3.8 | 4.7 | 2.9 | 3.6 | Tan | Thin | 7.5 |
| 38 | 90014 | 24.78 | 2 | 2 | 5 | 3 | 3 | 7 | 4 | 7 | 3.0 | 2.3 | 2.7 | 2.7 | 2.0 | 1.7 | 4.0 | 4.6 | 3.0 | 3.6 | Tan | Thin | 11.2 |
| 39 | 90015 | 33.32 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.0 | 3.4 | 4.3 | 2.6 | 3.7 | Tan | Thin | 10.4 |
| 40 | 90025 | 33.11 | 2 | 2 | 5 | 3 | 3 | 7 | 6 | 8 | 1.0 | 1.3 | 3.0 | 3.7 | 3.0 | 3.0 | 3.6 | 2.4 | 2.8 | 1.9 | Tan | Thin | 8.2 |
| 41 | 91001 | 24.55 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 2.7 | 3.0 | 3.0 | 2.3 | 2.3 | 3.0 | 4.1 | 1.6 | 3.2 | 0.8 | - | - | - |
| 42 | 91002 | 37.65 | 3 | 3 | 7 | 5 | 3 | 1 | 6 | 7 | 2.7 | 2.3 | 2.7 | 2.3 | 2.0 | 2.3 | 3.7 | 3.8 | 2.9 | 1.9 | - | - | - |
| 43 | 91003 | 28.18 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 2.7 | 3.3 | 3.7 | 3.7 | 2.7 | 1.0 | 3.9 | 4.1 | 3.0 | 3.2 | - | - | - |
| 44 | 91004 | 27.78 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.7 | 3.0 | 2.0 | 1.7 | 2.7 | 2.7 | 3.4 | 3.6 | 2.6 | 3.1 | - | - | - |
| 45 | 91021 | 33.21 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.0 | 2.3 | 3.0 | 2.3 | 2.3 | 2.0 | 4.5 | 4.4 | 3.7 | 3.6 | - | - | - |
| 46 | 91022 | 28.24 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.3 | 2.3 | 1.7 | 3.4 | 4.7 | 2.6 | 3.9 | - | - | - |
| 47 | 91029 | 27.74 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 2.3 | 2.7 | 2.0 | 4.6 | 4.3 | 3.8 | 3.4 | - | - | - |
| 48 | 92015 | 25.77 | 2 | 2 | 5 | 7 | 4 | 1 | 6 | 8 | 2.0 | 3.7 | 3.0 | 2.7 | 3.0 | 2.7 | 3.7 | 3.3 | 3.0 | 3.1 | - | - | - |
| Control | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | CSV 4 | 31.85 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.0 | 2.3 | 2.0 | 1.3 | 2.0 | 2.7 | 3.6 | 2.1 | 2.8 | 1.5 | - | - | - |
| 50 | RS 29 | 29.49 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 6 | 2.7 | 2.0 | 1.3 | 1.3 | 1.7 | 2.0 | 4.8 | 5.5 | 3.6 | 4.5 | - | - | - |
| Mean | | 31.77 | - | - | - | - | - | - | 5.30 | 7.30 | 2.88 | 2.72 | 2.73 | 2.89 | 2.25 | 2.07 | 3.95 | 3.99 | 3.09 | 3.21 | - | - | - |
| SE ± | | 0.90 | - | - | - | - | - | - | 0.28 | 0.23 | 0.29 | 0.35 | 0.27 | 0.41 | 0.30 | 0.27 | 0.44 | 0.30 | 0.38 | 0.31 | - | - | - |
| CV (%) | | 4.93 | - | - | - | - | - | - | 9.11 | 5.44 | 17.62 | 22.30 | 17.01 | 24.67 | 23.22 | 22.36 | 19.33 | 13.14 | 21.34 | 16.80 | - | - | - |
| CD (5%) | | 2.54 | - | - | - | - | - | - | 0.78 | 0.71 | 0.82 | 0.91 | 0.75 | 0.99 | 0.85 | 0.81 | 1.24 | 1.23 | 1.07 | 1.17 | - | - | - |

Annexure I-13. Characteristics of high yielding (medium maturity) sorghum R-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 8 | 1 | 1 | 1 | 1 | 3 | 2 | 79 | 91 | 1.1 | 1.0 | 5 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 21 | 1 | 1 | 1 | 1 | 2 | 2 | 76 | 91 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 22 | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 89 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 25 | 1 | 1 | 1 | 1 | 2 | 2 | 65 | 79 | 0.9 | 0.7 | 3 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 27 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 87 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 47 | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 79 | 1.7 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 48 | 1 | 1 | 1 | 1 | 2 | 2 | 81 | 76 | 1.5 | 0.9 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 50 | 1 | 1 | 1 | 1 | 2 | 2 | 82 | 78 | 1.5 | 0.9 | 7 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 58 | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 85 | 1.3 | 1.0 | 1 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 74 | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 82 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 75 | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 87 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 78 | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 88 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 83 | 2 | 2 | 3 | 3 | 2 | 2 | 66 | 85 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 84 | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 89 | 1.6 | 1.0 | 5 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 91 | 1 | 1 | 3 | 1 | 2 | 2 | 81 | 97 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 92 | 2 | 2 | 3 | 3 | 2 | 1 | 68 | 75 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 93 | 1 | 1 | 1 | 1 | 3 | 3 | 74 | 82 | 1.6 | 1.1 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 98 | 1 | 1 | 1 | 1 | 2 | 2 | 76 | 83 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 100 | 2 | 2 | 3 | 3 | 2 | 2 | 76 | 81 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 102 | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 77 | 1.4 | 1.0 | 1 | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 115 | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 82 | 1.0 | 0.8 | 1 | 1 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 117 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 83 | 1.4 | 1.0 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 118 | 1 | 1 | 3 | 1 | 2 | 2 | 82 | 87 | 1.4 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 119 | 1 | 1 | 1 | 1 | 3 | 2 | 76 | 80 | 1.6 | 1.0 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 123 | 2 | 1 | 3 | 1 | 2 | 2 | 75 | 82 | 1.1 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 127 | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 85 | 1.4 | 1.1 | 5 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 129 | 2 | 2 | 3 | 3 | 2 | 2 | 73 | 82 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 131 | 1 | 1 | 1 | 1 | 2 | 2 | 81 | 81 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 133 | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 85 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 136 | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 86 | 1.5 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 141 | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 91 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 32 | 145 | 2 | 2 | 3 | 3 | 2 | 2 | 76 | 70 | 1.7 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 146 | 1 | 1 | 1 | 1 | 2 | 2 | 79 | 87 | 1.3 | 0.9 | 5 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 147 | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 79 | 2.7 | 1.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 9 |

| Trait number ⟶ | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 154 | 2 | 1 | 3 | 1 | 3 | 3 | 68 | 78 | 2.1 | 1.5 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | 155 | 2 | 2 | 3 | 3 | 2 | 2 | 67 | 80 | 2.0 | 1.5 | 3 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 37 | 160 | 1 | 1 | 1 | 1 | 2 | 2 | 74 | 76 | 1.6 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 166 | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 92 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 171 | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 91 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 179 | 2 | 1 | 3 | 1 | 2 | 2 | 80 | 86 | 2.0 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 181 | 1 | 1 | 1 | 1 | 2 | 2 | 81 | 88 | 2.1 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 186 | 1 | 1 | 1 | 1 | 2 | 2 | 75 | 84 | 2.5 | 1.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 43 | 89003 | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 81 | 1.2 | 0.9 | 7 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 89011 | 2 | 2 | 3 | 1 | 2 | 3 | 66 | 70 | 0.9 | 0.7 | 7 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 89021 | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 82 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 46 | 89023 | 1 | 1 | 1 | 1 | 3 | 2 | 76 | 76 | 1.3 | 0.9 | 1 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 89046 | 1 | 1 | 1 | 1 | 2 | 3 | 72 | 75 | 1.2 | 1.0 | 7 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 89047 | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 84 | 1.3 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 89048 | 1 | 1 | 1 | 1 | 2 | 2 | 67 | 79 | 1.5 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 89049 | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 80 | 2.2 | 1.5 | 5 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 | 89051 | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 81 | 1.7 | 1.1 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 | 89054 | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 83 | 2.0 | 1.6 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 89057 | 2 | 2 | 3 | 3 | 3 | 3 | 73 | 83 | 1.8 | 1.2 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 | 89061 | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 84 | 1.3 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 55 | 89069 | 1 | 1 | 1 | 1 | 3 | 3 | 77 | 87 | 1.3 | 0.9 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 56 | 89073 | 1 | 1 | 3 | 1 | 2 | 2 | 69 | 79 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 57 | 90001 | 1 | 1 | 3 | 1 | 2 | 2 | 77 | 89 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 58 | 90005 | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 88 | 1.1 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 59 | 90008 | 1 | 1 | 1 | 1 | 2 | 2 | 76 | 86 | 1.4 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 60 | 90009 | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 74 | 1.5 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 61 | 90010 | 1 | 1 | 1 | 1 | 3 | 3 | 76 | 86 | 1.8 | 1.1 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 62 | 90011 | 2 | 1 | 3 | 1 | 3 | 3 | 73 | 85 | 1.9 | 1.2 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 63 | 90012 | 2 | 2 | 3 | 3 | 3 | 3 | 76 | 83 | 1.7 | 1.1 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 64 | 90016 | 1 | 1 | 1 | 1 | 2 | 2 | 80 | 80 | 2.0 | 1.1 | 1 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 65 | 90020 | 2 | 2 | 3 | 3 | 2 | 2 | 72 | 76 | 2.5 | 1.7 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 66 | 90021 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 79 | 1.9 | 1.2 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 67 | 90022 | 2 | 2 | 3 | 3 | 2 | 2 | 73 | 80 | 2.4 | 1.5 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 1 |
| 68 | 90023 | 1 | 1 | 3 | 1 | 2 | 2 | 68 | 77 | 1.3 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 69 | 90024 | 2 | 2 | 3 | 3 | 2 | 2 | 66 | 75 | 1.0 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70 | 90026 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 83 | 1.2 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

| Trait number ⟶ | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 71 | 90028 | 2 | 1 | 3 | 1 | 2 | 2 | 78 | 85 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 72 | 91005 | 2 | 2 | 3 | 3 | 2 | 2 | 69 | 90 | 1.6 | 1.0 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 73 | 91007 | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 76 | 1.1 | 0.9 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 5 | 1 |
| 74 | 91008 | 1 | 1 | 1 | 1 | 3 | 2 | 73 | 75 | 1.7 | 1.1 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 75 | 91009 | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 83 | 0.9 | 0.7 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 76 | 91010 | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 86 | 1.6 | 1.0 | 5 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 77 | 91013 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 95 | 1.2 | 0.8 | 5 | 1 | - | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 78 | 91018 | 2 | 2 | 3 | 3 | 2 | 1 | 76 | 79 | 1.7 | 1.1 | 1 | 7 | 2 | - | 1 | 1 | 1 | 1 | 3 | 3 |
| 79 | 91019 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 92 | 1.3 | 1.0 | 5 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 80 | 91020 | 1 | 1 | 1 | 1 | 2 | 2 | 81 | 84 | 1.4 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 81 | 91023 | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 76 | 1.0 | 0.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 82 | 91025 | 1 | 1 | 1 | 1 | 2 | 2 | 80 | 96 | 1.4 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 83 | 91026 | 1 | 1 | 1 | 1 | 3 | 3 | 74 | 88 | 2.3 | 1.7 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 84 | 91028 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 79 | 2.2 | 1.4 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 85 | 91030 | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 83 | 1.3 | 0.9 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 86 | 91031 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 87 | 1.9 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 87 | 91032 | 2 | 2 | 3 | 3 | 2 | 2 | 82 | 84 | 3.0 | 2.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 9 |
| 88 | 91033 | 1 | 1 | 1 | 1 | 2 | 2 | 72 | 86 | 1.2 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 89 | 92005 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 96 | 1.7 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 3 |
| 90 | 92007 | 1 | 1 | 1 | 1 | 3 | 3 | 76 | 77 | 1.6 | 1.1 | 7 | 5 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 91 | 92008 | 2 | 1 | 1 | 1 | 2 | 2 | 73 | 83 | 1.3 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 92 | 92009 | 1 | 1 | 1 | 1 | 3 | 2 | 73 | 80 | 1.2 | 0.8 | 7 | 7 | - | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 93 | 92010 | 1 | 1 | 1 | 1 | 2 | 2 | 73 | 74 | 1.6 | 1.0 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 94 | 92011 | 1 | 1 | 1 | 1 | 3 | 2 | 70 | 76 | 1.5 | 1.0 | 3 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 95 | 92012 | 2 | 2 | 3 | 3 | 2 | 2 | 69 | 78 | 1.2 | 0.9 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 96 | 92014 | 2 | 2 | 3 | 3 | 1 | 1 | 68 | 79 | 1.8 | 1.0 | 1 | 7 | 2 | - | 9 | 5 | 1 | 1 | 1 | 1 |
| 97 | 92016 | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 79 | 1.8 | 1.2 | 7 | 7 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 98 | 92022 | 2 | 2 | 3 | 3 | 2 | 2 | 71 | 72 | 2.0 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 99 | 92023 | 2 | 2 | 3 | 1 | 2 | 2 | 72 | 77 | 2.2 | 1.5 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 5 |

| Trait number ⟶ | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 100 | 92026 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 81 | 2.7 | 1.5 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 9 |
| 101 | 92027 | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 85 | 2.6 | 1.8 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 9 | 9 |
| Control | | | | | | | | | | | | | | | | | | | | | |
| 102 | CSV 4 | 2 | 1 | 3 | 1 | 2 | 2 | 69 | 74 | 1.0 | 0.8 | 1 | 5 | 2 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 103 | RS 29 | 2 | 1 | 3 | 1 | 2 | 2 | 74 | 85 | 1.8 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | - | - | - | - | - | - | 74 | 83 | 1.54 | 1.06 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | - | - | - | - | - | - | 1.53 | 1.03 | 0.05 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | - | - | - | - | - | - | 3.56 | 2.16 | 5.73 | 5.60 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | - | - | - | - | - | - | 4.26 | 3.68 | 0.14 | 0.12 | - | - | - | - | - | - | - | - | - | - |

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-47 : Ancillary traits recorded in the current trials.

Trait No. 48-50 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-13. … Contd.

| Trait number ⟶ | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 8 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 6 | 1.3 | 1.3 | 19.6 | 18.5 | 1 | 1 | 17.7 | 19.7 |
| 2 | 21 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 6 | 4 | 5 | 2 | 1.4 | 1.0 | 18.8 | 20.3 | 1 | 1 | 17.0 | 16.7 |
| 3 | 22 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.8 | 1.3 | 20.9 | 19.2 | 1 | 1 | 15.3 | 15.0 |
| 4 | 25 | 1 | 1 | 7 | 1 | 7 | 5 | 5 | 5 | 3 | 5 | 6 | 6 | 2 | 5 | 1.2 | 1.0 | 18.2 | 18.5 | 1 | 1 | 10.7 | 14.7 |
| 5 | 27 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 3 | 3 | 6 | 6 | 1 | 7 | 1.5 | 1.1 | 19.9 | 18.9 | 1 | 1 | 14.0 | 16.7 |
| 6 | 47 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 6 | 4 | 4 | 4 | 1.9 | 1.1 | 18.3 | 18.2 | 1 | 1 | 17.3 | 17.3 |
| 7 | 48 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 4 | 5 | 1.7 | 1.1 | 20.4 | 18.3 | 1 | 1 | 19.3 | 20.0 |
| 8 | 50 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.7 | 1.1 | 20.4 | 18.8 | 1 | 1 | 16.0 | 18.3 |
| 9 | 58 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 6 | 5 | 5 | 1.5 | 1.2 | 19.1 | 19.0 | 1 | 1 | 16.3 | 18.7 |
| 10 | 74 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 5 | 4 | 1.4 | 1.2 | 20.1 | 16.5 | 1 | 1 | 17.7 | 18.7 |
| 11 | 75 | 1 | 1 | 5 | 1 | 9 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.2 | 1.0 | 16.7 | 16.9 | 1 | 1 | 13.7 | 14.7 |
| 12 | 78 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 3 | 5 | 5 | 7 | 4 | 5 | 4 | 1.5 | 1.1 | 19.5 | 19.3 | 1 | 1 | 14.3 | 15.3 |
| 13 | 83 | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 5 | 1.5 | 1.2 | 17.1 | 19.3 | 2 | 1 | 5.3 | 12.3 |
| 14 | 84 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 3 | 5 | 4 | 4 | 4 | 5 | 1.9 | 1.4 | 18.5 | 17.5 | 1 | 1 | 13.7 | 15.3 |
| 15 | 91 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 3 | 5 | 6 | 6 | 1 | 1 | 1.4 | 1.1 | 21.9 | 17.4 | 1 | 1 | 16.3 | 14.3 |
| 16 | 92 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 4 | 1.7 | 1.3 | 17.9 | 17.3 | 1 | 1 | 14.0 | 17.0 |
| 17 | 93 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 6 | 5 | 5 | 1.9 | 1.3 | 17.6 | 20.3 | 1 | 1 | 15.3 | 19.7 |
| 18 | 98 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 2 | 1.2 | 1.0 | 18.5 | 19.5 | 1 | 1 | 13.3 | 19.7 |
| 19 | 100 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.9 | 1.4 | 18.8 | 18.9 | 1 | 1 | 18.0 | 17.7 |
| 20 | 102 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 5 | 5 | 1.7 | 1.2 | 18.3 | 18.1 | 1 | 1 | 12.3 | 19.3 |
| 21 | 115 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 3 | 1.4 | 1.2 | 18.1 | 16.7 | 1 | 1 | 9.0 | 14.3 |
| 22 | 117 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 6 | 5 | 4 | 1.6 | 1.2 | 18.9 | 16.9 | 1 | 1 | 16.3 | 20.0 |
| 23 | 118 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 4 | 1.6 | 1.5 | 17.3 | 18.3 | 1 | 1 | 14.7 | 13.7 |
| 24 | 119 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.9 | 1.3 | 18.6 | 20.5 | 1 | 1 | 18.0 | 20.0 |
| 25 | 123 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 3 | 5 | 5 | 7 | 6 | 4 | 4 | 1.5 | 1.2 | 20.7 | 21.1 | 1 | 1 | 13.0 | 17.0 |
| 26 | 127 | 1 | 1 | 7 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.8 | 1.4 | 19.7 | 17.9 | 1 | 1 | 11.0 | 18.7 |
| 27 | 129 | 1 | 1 | 1 | 5 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 7 | 5 | 1.5 | 1.1 | 18.2 | 19.1 | 1 | 1 | 15.3 | 18.0 |
| 28 | 131 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 4 | 4 | 2.0 | 1.4 | 21.3 | 20.8 | 1 | 1 | 14.3 | 15.7 |
| 29 | 133 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 6 | 6 | 5 | 7 | 1.5 | 1.2 | 19.4 | 18.6 | 1 | 1 | 19.7 | 20.7 |
| 30 | 136 | 1 | 1 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 6 | 1.8 | 1.3 | 19.5 | 20.5 | 1 | 1 | 16.0 | 18.7 |
| 31 | 141 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 1.5 | 1.2 | 18.8 | 17.3 | 1 | 2 | 12.7 | 11.7 |
| 32 | 145 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 6 | 4 | 2 | 1.9 | 1.4 | 21.3 | 15.7 | 1 | 1 | 7.7 | 12.7 |
| 33 | 146 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 3 | 3 | 5 | 4 | 4 | 5 | 4 | 1.5 | 1.2 | 18.4 | 19.1 | 1 | 1 | 14.7 | 11.7 |
| 34 | 147 | 1 | 1 | 5 | 1 | 3 | 5 | 7 | 7 | 5 | 5 | 4 | 7 | 7 | 5 | 3.0 | 1.8 | 19.0 | 14.8 | 1 | 2 | 14.0 | 17.3 |

| Trait number → | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 35 | 154 | 1 | 1 | 5 | 1 | 5 | 5 | 3 | 3 | 5 | 3 | 4 | 4 | 4 | 4 | 2.3 | 1.7 | 17.6 | 12.4 | 1 | 1 | 14.7 | 15.7 |
| 36 | 155 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 3 | 5 | 3 | 4 | 4 | 4 | 4 | 2.1 | 1.7 | 16.7 | 12.9 | 1 | 1 | 9.7 | 14.7 |
| 37 | 160 | 1 | 1 | 1 | 5 | 3 | 3 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 2.0 | 1.3 | 18.0 | 16.4 | 2 | 1 | 10.7 | 17.0 |
| 38 | 166 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 7 | 6 | 6 | 1 | 1 | 2.0 | 1.4 | 21.5 | 22.1 | 1 | 1 | 15.3 | 14.3 |
| 39 | 171 | 1 | 1 | 1 | 1 | 9 | 5 | 7 | 7 | 5 | 5 | 4 | 4 | 5 | 5 | 1.8 | 1.3 | 22.5 | 20.0 | 1 | 1 | 13.3 | 14.3 |
| 40 | 179 | 1 | 1 | 1 | 1 | 9 | 5 | 5 | 7 | 5 | 5 | 4 | 6 | 4 | 2 | 2.4 | 1.6 | 20.4 | 19.9 | 1 | 1 | 17.3 | 21.7 |
| 41 | 181 | 1 | 1 | 1 | 1 | 5 | 3 | 7 | 7 | 5 | 5 | 4 | 4 | 5 | 4 | 2.2 | 1.4 | 20.4 | 21.0 | 1 | 1 | 10.0 | 16.3 |
| 42 | 186 | 1 | 1 | 1 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 2.8 | 2.0 | 21.3 | 19.3 | 1 | 1 | 17.3 | 15.0 |
| 43 | 89003 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 4 | 4 | 4 | 1.6 | 1.3 | 20.2 | 18.8 | 1 | 1 | 14.0 | 17.3 |
| 44 | 89011 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 7 | 5 | 5 | 4 | 4 | 4 | 4 | 1.3 | 1.0 | 16.5 | 18.6 | 1 | 1 | 10.7 | 17.0 |
| 45 | 89021 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.7 | 1.3 | 18.1 | 18.8 | 1 | 1 | 12.0 | 19.0 |
| 46 | 89023 | 1 | 1 | 1 | 5 | 3 | 3 | 7 | 5 | 5 | 5 | 6 | 4 | 5 | 7 | 1.8 | 1.3 | 17.1 | 16.1 | 1 | 1 | 12.7 | 17.0 |
| 47 | 89046 | 1 | 1 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 2 | 3 | 1.4 | 1.2 | 17.2 | 17.5 | 2 | 2 | 11.7 | 14.3 |
| 48 | 89047 | 1 | 1 | 7 | 5 | 3 | 5 | 3 | 3 | 5 | 3 | 4 | 4 | 1 | 2 | 1.6 | 1.2 | 19.8 | 17.6 | 2 | 2 | 9.7 | 16.3 |
| 49 | 89048 | 1 | 1 | 5 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 1.8 | 1.4 | 16.6 | 17.6 | 1 | 1 | 10.0 | 18.0 |
| 50 | 89049 | 1 | 1 | 5 | 1 | 5 | 3 | 7 | 7 | 5 | 5 | 4 | 6 | 5 | 5 | 2.6 | 1.9 | 16.1 | 15.4 | 1 | 1 | 11.7 | 16.7 |
| 51 | 89051 | 1 | 1 | 5 | 1 | 3 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.8 | 1.3 | 18.6 | 17.5 | 1 | 1 | 10.0 | 14.7 |
| 52 | 89054 | 1 | 1 | 5 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 2.3 | 1.9 | 14.9 | 15.1 | 2 | 2 | 5.7 | 15.3 |
| 53 | 89057 | 1 | 1 | 1 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 2.1 | 1.5 | 16.5 | 17.6 | 1 | 2 | 12.0 | 19.0 |
| 54 | 89061 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 4 | 1.6 | 1.2 | 19.5 | 19.6 | 1 | 1 | 12.3 | 17.3 |
| 55 | 89069 | 1 | 1 | 1 | 5 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 2 | 4 | 1.6 | 1.2 | 16.7 | 16.7 | 2 | 2 | 11.0 | 16.7 |
| 56 | 89073 | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 1 | 1 | 1.5 | 1.2 | 16.7 | 17.9 | 1 | 1 | 15.0 | 18.7 |
| 57 | 90001 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 4 | 1.6 | 1.2 | 18.3 | 17.7 | 1 | 1 | 14.7 | 14.7 |
| 58 | 90005 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 6 | 4 | 7 | 1.5 | 1.3 | 19.5 | 17.8 | 1 | 2 | 15.3 | 12.7 |
| 59 | 90008 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 1.8 | 1.4 | 16.6 | 18.8 | 1 | 1 | 12.0 | 12.3 |
| 60 | 90009 | 1 | 1 | 1 | 1 | 3 | 3 | 7 | 5 | 5 | 5 | 7 | 4 | 7 | 7 | 1.7 | 1.2 | 18.0 | 15.2 | 1 | 1 | 5.0 | 12.3 |
| 61 | 90010 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 7 | 2.0 | 1.4 | 21.1 | 18.7 | 1 | 2 | 12.0 | 16.7 |
| 62 | 90011 | 1 | 1 | 5 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 2.1 | 1.5 | 19.8 | 19.7 | 2 | 1 | 7.3 | 18.0 |
| 63 | 90012 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 7 | 5 | 5 | 4 | 4 | 4 | 7 | 2.0 | 1.4 | 19.5 | 17.7 | 2 | 1 | 12.0 | 16.0 |
| 64 | 90016 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 2.1 | 1.4 | 18.2 | 16.1 | 1 | 1 | 15.3 | 18.7 |
| 65 | 90020 | 1 | 1 | 1 | 1 | 5 | 3 | 7 | 7 | 5 | 5 | 4 | 4 | 4 | 7 | 2.9 | 2.0 | 18.0 | 16.0 | 1 | 1 | 18.0 | 19.0 |
| 66 | 90021 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 2.3 | 1.5 | 14.3 | 16.5 | 1 | 1 | 11.7 | 16.7 |
| 67 | 90022 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 7 | 2.7 | 1.6 | 18.0 | 15.9 | 1 | 1 | 13.0 | 14.7 |
| 68 | 90023 | 1 | 1 | 7 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.7 | 1.0 | 18.0 | 17.4 | 1 | 1 | 12.7 | 17.3 |
| 69 | 90024 | 1 | 1 | 7 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 4 | 4 | 5 | 2 | 1.3 | 1.0 | 15.7 | 18.3 | 1 | 1 | 15.3 | 18.7 |
| 70 | 90026 | 1 | 1 | 5 | 1 | 3 | 3 | 7 | 7 | 5 | 5 | 4 | 4 | 2 | 4 | 1.5 | 1.1 | 18.2 | 19.2 | 1 | 1 | 5.7 | 15.3 |

| Trait number → | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 71 | 90028 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 1 | 4 | 1.7 | 1.3 | 18.2 | 17.5 | 1 | 1 | 14.0 | 16.0 |
| 72 | 91005 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.9 | 1.3 | 20.6 | 24.3 | 1 | 1 | 13.3 | 15.0 |
| 73 | 91007 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 4 | 4 | 2 | 4 | 1.4 | 1.2 | 19.0 | 17.6 | 1 | 1 | 12.7 | 15.7 |
| 74 | 91008 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 7 | 2.0 | 1.4 | 18.6 | 16.4 | 1 | 2 | 13.0 | 18.3 |
| 75 | 91009 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 4 | 4 | 4 | 1.2 | 0.9 | 19.2 | 20.4 | 1 | 1 | 17.0 | 18.7 |
| 76 | 91010 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 2 | 7 | 1.8 | 1.2 | 20.7 | 20.4 | 2 | 1 | 10.7 | 16.7 |
| 77 | 91013 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 1 | 4 | 1.5 | 1.1 | 22.3 | 21.6 | 1 | 1 | 10.7 | 13.3 |
| 78 | 91018 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.8 | 1.2 | 19.2 | 15.8 | 1 | 1 | 15.3 | 20.0 |
| 79 | 91019 | 1 | 1 | 1 | 1 | 5 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.7 | 1.3 | 16.0 | 19.4 | 2 | 2 | 12.3 | 14.0 |
| 80 | 91020 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 6 | 2 | 2 | 1.7 | 1.3 | 17.3 | 19.4 | 1 | 1 | 13.7 | 15.0 |
| 81 | 91023 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 7 | 1 | 2 | 1.2 | 1.0 | 15.9 | 15.6 | 1 | 1 | 11.7 | 17.0 |
| 82 | 91025 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 5 | 1.6 | 1.3 | 20.0 | 21.3 | 1 | 2 | 13.0 | 11.7 |
| 83 | 91026 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 7 | 2.5 | 2.1 | 15.5 | 17.4 | 2 | 2 | 14.7 | 15.3 |
| 84 | 91028 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 4 | 2 | 2.4 | 1.6 | 17.5 | 12.3 | 2 | 1 | 13.3 | 13.3 |
| 85 | 91030 | 1 | 1 | 1 | 1 | 5 | 3 | 3 | 3 | 3 | 5 | 4 | 4 | 4 | 4 | 1.6 | 1.1 | 16.2 | 18.8 | 1 | 1 | 17.0 | 16.0 |
| 86 | 91031 | 1 | 1 | 1 | 1 | 3 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 2.2 | 1.6 | 19.5 | 15.3 | 1 | 1 | 15.3 | 14.3 |
| 87 | 91032 | 1 | 1 | 5 | 1 | 9 | 9 | 5 | 7 | 5 | 5 | 7 | 4 | 5 | 4 | 3.1 | 2.1 | 17.9 | 15.4 | 1 | 1 | 14.0 | 16.0 |
| 88 | 91033 | 1 | 1 | 5 | 1 | 5 | 9 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.2 | 17.8 | 18.2 | 1 | 1 | 14.7 | 20.3 |
| 89 | 92005 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 2.1 | 1.4 | 21.4 | 18.2 | 1 | 1 | 8.3 | 12.7 |
| 90 | 92007 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 5 | 1.9 | 1.3 | 18.9 | 17.1 | 2 | 1 | 11.0 | 18.0 |
| 91 | 92008 | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 4 | 1.8 | 1.3 | 19.5 | 19.4 | 2 | 1 | 10.7 | 15.7 |
| 92 | 92009 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 6 | 4 | 4 | 1.4 | 1.0 | 16.5 | 18.2 | 2 | 2 | 8.0 | 17.7 |
| 93 | 92010 | 1 | 1 | 5 | 5 | 3 | 3 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 2 | 1.8 | 1.2 | 17.3 | 16.0 | 2 | 1 | 8.7 | 13.3 |
| 94 | 92011 | 1 | 1 | 7 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 4 | 4 | 2 | 1.8 | 1.2 | 16.8 | 16.0 | 1 | 1 | 12.7 | 16.3 |
| 95 | 92012 | 1 | 1 | 1 | 5 | 3 | 3 | 7 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.6 | 1.2 | 20.6 | 18.9 | 2 | 1 | 10.3 | 17.7 |
| 96 | 92014 | 1 | 1 | 7 | 7 | 5 | 5 | 5 | 3 | 3 | 5 | 4 | 7 | 7 | 7 | 1.9 | 1.1 | 18.6 | 16.1 | 1 | 1 | 16.7 | 20.0 |
| 97 | 92016 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 6 | 4 | 5 | 5 | 2.2 | 1.4 | 18.5 | 18.0 | 1 | 2 | 12.0 | 16.7 |
| 98 | 92022 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 2.3 | 1.4 | 19.0 | 18.9 | 1 | 1 | 16.7 | 19.3 |
| 99 | 92023 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 7 | 5 | 5 | 4 | 4 | 1 | 2 | 2.1 | 1.7 | 18.0 | 18.7 | 1 | 2 | 11.7 | 10.3 |

| Trait number → | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 100 | 92026 | 1 | 1 | 1 | 1 | 9 | 5 | 7 | 7 | 5 | 5 | 4 | 7 | 4 | 2 | 2.9 | 1.6 | 17.5 | 16.9 | 1 | 1 | 13.3 | 17.3 |
| 101 | 92027 | 1 | 1 | 5 | 5 | 9 | 9 | 7 | 7 | 5 | 5 | 4 | 4 | 5 | 7 | 2.8 | 1.8 | 17.6 | 17.2 | 1 | 1 | 20.3 | 20.0 |
| Control | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | CSV 4 | 1 | 1 | 5 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 2 | 1.3 | 1.0 | 17.0 | 14.4 | 1 | 1 | 12.7 | 15.0 |
| 103 | RS 29 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 3 | 5 | 4 | 4 | 4 | 4 | 2.0 | 1.4 | 15.7 | 14.4 | 1 | 1 | 16.7 | 15.7 |
| Mean | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.82 | 1.32 | 18.53 | 17.93 | - | - | 13.27 | 16.43 |
| SE ± | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.07 | 0.04 | 1.05 | 1.00 | - | - | 1.64 | 1.37 |
| CV (%) | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.84 | 5.28 | 9.80 | 9.62 | - | - | 21.39 | 14.44 |
| CD (5%) | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.20 | 0.16 | 2.92 | 2.84 | - | - | 4.57 | 4.21 |

Annexure I-13. … Contd.

| Trait number → | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | | Grain color |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy |
| 1 | 8 | 77.7 | 71.2 | 8.4 | 5.7 | 26.8 | 25.0 | 7.8 | 5.7 | 7 | 7 | 3 | 3 | 0.0 | 4.3 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 2 | 21 | 65.4 | 62.2 | 8.3 | 6.2 | 25.7 | 18.9 | 7.1 | 6.0 | 5 | 5 | 3 | 3 | 0.0 | 2.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 22 | 70.2 | 59.8 | 8.2 | 6.3 | 25.9 | 25.3 | 7.3 | 6.1 | 7 | 5 | 3 | 3 | 0.0 | 6.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 4 | 25 | 70.6 | 57.6 | 9.0 | 6.3 | 22.4 | 17.6 | 5.2 | 4.2 | 7 | 7 | 3 | 3 | 8.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 5 | 27 | 75.2 | 62.4 | 9.9 | 7.8 | 25.0 | 21.0 | 6.6 | 5.3 | 5 | 7 | 3 | 3 | 10.0 | 11.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 6 | 47 | 73.4 | 62.4 | 8.3 | 6.8 | 26.7 | 21.1 | 8.0 | 4.3 | 7 | 5 | 3 | 3 | 0.0 | 0.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 7 | 48 | 71.0 | 70.0 | 8.4 | 6.4 | 24.8 | 20.3 | 6.9 | 5.3 | 7 | 5 | 3 | 3 | 3.0 | 4.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 8 | 50 | 63.0 | 57.9 | 9.3 | 6.2 | 23.3 | 20.1 | 8.1 | 5.0 | 7 | 5 | 3 | 3 | 0.0 | 2.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 9 | 58 | 66.0 | 59.3 | 8.4 | 6.2 | 24.2 | 22.0 | 7.2 | 5.6 | 5 | 5 | 3 | 3 | 4.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 10 | 74 | 61.3 | 58.1 | 8.2 | 6.3 | 17.4 | 17.9 | 6.0 | 5.3 | 7 | 7 | 3 | 3 | 7.3 | 8.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 11 | 75 | 62.3 | 52.7 | 8.1 | 6.1 | 22.9 | 20.4 | 6.0 | 5.1 | 5 | 5 | 3 | 3 | 0.0 | 5.3 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 78 | 63.9 | 58.0 | 8.1 | 6.3 | 21.1 | 19.7 | 5.8 | 5.1 | 7 | 5 | 3 | 3 | 3.0 | 1.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 13 | 83 | 64.0 | 57.3 | 8.3 | 6.4 | 26.9 | 21.9 | 6.9 | 6.3 | 7 | 5 | 3 | 3 | 1.7 | 4.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 14 | 84 | 58.7 | 58.1 | 8.4 | 6.7 | 22.0 | 19.4 | 5.7 | 6.2 | 7 | 7 | 3 | 3 | 8.0 | 21.3 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 91 | 70.7 | 62.9 | 8.4 | 6.1 | 20.1 | 19.7 | 5.3 | 5.2 | 7 | 7 | 3 | 3 | 2.0 | 5.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 16 | 92 | 67.3 | 60.7 | 8.7 | 6.9 | 26.4 | 22.0 | 7.1 | 5.2 | 7 | 5 | 3 | 3 | 6.3 | 12.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 17 | 93 | 65.9 | 57.6 | 8.2 | 5.9 | 24.3 | 20.3 | 7.9 | 5.0 | 5 | 5 | 3 | 3 | 7.7 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 18 | 98 | 75.8 | 62.0 | 8.7 | 6.2 | 27.2 | 24.3 | 5.8 | 6.8 | 7 | 7 | 3 | 3 | 0.0 | 5.7 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 19 | 100 | 68.2 | 54.3 | 9.0 | 6.3 | 29.6 | 25.1 | 7.2 | 5.8 | 5 | 5 | 3 | 3 | 4.0 | 14.7 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 102 | 62.3 | 54.4 | 8.4 | 6.5 | 25.1 | 20.7 | 6.6 | 5.7 | 7 | 5 | 3 | 3 | 4.3 | 11.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 21 | 115 | 67.7 | 55.8 | 8.0 | 5.9 | 29.9 | 26.0 | 6.8 | 6.6 | 7 | 5 | 3 | 3 | 13.7 | 19.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 22 | 117 | 64.6 | 56.3 | 9.4 | 6.6 | 25.4 | 21.6 | 8.3 | 7.2 | 7 | 5 | 3 | 3 | 1.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 23 | 118 | 59.9 | 56.2 | 8.4 | 6.2 | 25.6 | 21.3 | 6.3 | 4.9 | 7 | 7 | 3 | 3 | 1.3 | 12.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 119 | 66.7 | 62.8 | 9.3 | 6.9 | 26.6 | 21.7 | 7.7 | 5.6 | 5 | 5 | 3 | 3 | 4.3 | 3.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 25 | 123 | 77.2 | 67.2 | 8.6 | 6.3 | 29.9 | 27.4 | 7.1 | 5.6 | 5 | 5 | 3 | 3 | 8.3 | 12.0 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 127 | 75.1 | 66.2 | 8.6 | 6.9 | 34.8 | 27.6 | 7.3 | 6.2 | 7 | 5 | 3 | 3 | 2.7 | 8.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 27 | 129 | 74.8 | 65.8 | 8.9 | 8.4 | 22.9 | 22.1 | 6.0 | 5.8 | 5 | 5 | 3 | 3 | 5.3 | 8.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 28 | 131 | 72.4 | 58.4 | 8.4 | 7.1 | 27.7 | 23.4 | 8.0 | 6.6 | 7 | 5 | 3 | 3 | 4.0 | 14.0 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 133 | 66.6 | 61.6 | 8.7 | 6.2 | 28.1 | 25.3 | 6.9 | 6.2 | 5 | 5 | 3 | 3 | 3.3 | 7.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 30 | 136 | 73.1 | 66.8 | 8.7 | 7.3 | 26.4 | 19.6 | 7.3 | 5.9 | 7 | 7 | 3 | 3 | 6.7 | 8.3 | 50.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 141 | 73.7 | 56.0 | 8.7 | 6.6 | 24.1 | 20.4 | 6.2 | 5.6 | 7 | 7 | 3 | 3 | 7.0 | 8.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 32 | 145 | 75.4 | 62.2 | 8.2 | 5.7 | 26.2 | 19.4 | 8.2 | 5.6 | 7 | 5 | 3 | 3 | 6.7 | 13.0 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 33 | 146 | 66.6 | 64.0 | 8.4 | 7.2 | 21.7 | 22.6 | 5.4 | 5.3 | 7 | 7 | 3 | 3 | 6.0 | 7.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 34 | 147 | 66.3 | 55.0 | 7.8 | 6.4 | 22.1 | 16.0 | 6.5 | 4.6 | 5 | 7 | 3 | 3 | 6.0 | 9.3 | 50.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |

| Trait number → | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | | Grain color |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy |
| 35 | 154 | 70.6 | 57.9 | 8.3 | 5.7 | 21.6 | 15.3 | 8.3 | 4.1 | 7 | 5 | 3 | 3 | 0.0 | 8.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 36 | 155 | 71.2 | 55.6 | 8.3 | 6.0 | 24.4 | 17.4 | 6.6 | 3.7 | 7 | 7 | 3 | 3 | 2.7 | 5.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 37 | 160 | 70.2 | 58.3 | 8.3 | 6.6 | 31.2 | 22.7 | 8.5 | 5.9 | 5 | 5 | 3 | 3 | 6.7 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 38 | 166 | 71.1 | 66.0 | 9.2 | 7.0 | 31.3 | 25.4 | 9.1 | 7.3 | 7 | 5 | 3 | 3 | 7.3 | 13.0 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 39 | 171 | 76.9 | 64.3 | 10.0 | 6.9 | 26.0 | 21.2 | 6.7 | 5.2 | 7 | 7 | 3 | 3 | 12.3 | 13.7 | 50.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 40 | 179 | 75.4 | 56.6 | 8.2 | 5.7 | 28.8 | 22.9 | 7.3 | 6.0 | 5 | 5 | 3 | 3 | 12.0 | 13.7 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 41 | 181 | 67.0 | 65.1 | 8.8 | 6.1 | 24.3 | 22.7 | 7.5 | 5.9 | 5 | 5 | 3 | 3 | 6.0 | 2.7 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 42 | 186 | 71.7 | 57.0 | 8.1 | 5.7 | 19.0 | 18.6 | 5.7 | 5.1 | 7 | 7 | 3 | 3 | 11.7 | 14.7 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 43 | 89003 | 80.1 | 67.8 | 8.3 | 6.6 | 36.1 | 26.1 | 9.1 | 7.6 | 5 | 5 | 3 | 3 | 11.7 | 9.7 | 33.3 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 44 | 89011 | 68.7 | 55.1 | 7.7 | 5.1 | 29.1 | 23.9 | 6.1 | 6.0 | 5 | 7 | 3 | 3 | 12.0 | 13.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 45 | 89021 | 74.2 | 59.0 | 8.4 | 6.7 | 27.7 | 24.7 | 7.6 | 7.0 | 7 | 5 | 3 | 3 | 6.0 | 6.3 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 46 | 89023 | 72.0 | 57.4 | 8.6 | 5.8 | 32.2 | 23.2 | 8.9 | 6.3 | 7 | 5 | 3 | 3 | 17.7 | 16.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 47 | 89046 | 66.3 | 54.4 | 8.0 | 6.6 | 26.4 | 20.0 | 8.4 | 5.4 | 5 | 5 | 3 | 3 | 2.0 | 3.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 48 | 89047 | 68.3 | 57.2 | 8.6 | 6.0 | 28.6 | 22.6 | 9.7 | 5.3 | 5 | 5 | 3 | 3 | 2.3 | 6.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 49 | 89048 | 73.4 | 59.3 | 8.6 | 6.1 | 29.7 | 23.6 | 8.5 | 6.4 | 5 | 5 | 3 | 3 | 6.7 | 14.0 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 50 | 89049 | 68.4 | 56.8 | 8.3 | 5.4 | 24.9 | 20.6 | 7.2 | 5.7 | 5 | 5 | 3 | 3 | 13.7 | 19.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 51 | 89051 | 70.4 | 57.1 | 8.0 | 6.7 | 23.3 | 17.8 | 5.1 | 4.0 | 7 | 5 | 3 | 3 | 2.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 52 | 89054 | 72.9 | 64.4 | 7.4 | 5.4 | 29.6 | 24.7 | 8.1 | 6.2 | 5 | 5 | 3 | 3 | 4.0 | 4.3 | 50.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 53 | 89057 | 72.1 | 57.7 | 10.0 | 6.1 | 24.2 | 21.4 | 8.2 | 4.8 | 7 | 5 | 3 | 3 | 8.0 | 9.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 54 | 89061 | 71.9 | 64.4 | 8.7 | 6.3 | 26.8 | 23.9 | 8.2 | 6.8 | 7 | 7 | 3 | 3 | 0.0 | 3.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 55 | 89069 | 63.8 | 60.3 | 8.2 | 6.3 | 22.1 | 20.1 | 5.8 | 4.4 | 7 | 7 | 3 | 3 | 3.3 | 6.0 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 56 | 89073 | 62.8 | 50.7 | 8.0 | 6.0 | 26.0 | 19.2 | 6.8 | 4.9 | 5 | 5 | 3 | 3 | 11.7 | 11.0 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 57 | 90001 | 69.9 | 61.0 | 8.3 | 6.1 | 27.4 | 22.6 | 8.6 | 4.9 | 7 | 7 | 3 | 3 | 1.7 | 6.3 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 58 | 90005 | 77.0 | 67.3 | 8.7 | 6.4 | 35.4 | 29.8 | 9.9 | 8.2 | 5 | 5 | 3 | 3 | 9.3 | 7.0 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 59 | 90008 | 65.6 | 55.6 | 7.9 | 6.0 | 29.4 | 24.6 | 7.6 | 5.8 | 5 | 5 | 3 | 3 | 6.0 | 7.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 60 | 90009 | 74.0 | 60.1 | 9.4 | 6.8 | 26.1 | 18.7 | 9.7 | 5.0 | 5 | 5 | 4 | 4 | 1.3 | 4.3 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 61 | 90010 | 71.2 | 50.9 | 8.2 | 6.8 | 25.2 | 22.1 | 8.4 | 5.9 | 5 | 5 | 3 | 3 | 5.3 | 9.7 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 62 | 90011 | 69.1 | 59.1 | 9.1 | 6.7 | 27.1 | 26.4 | 8.1 | 7.3 | 5 | 5 | 3 | 3 | 4.7 | 3.7 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 63 | 90012 | 69.2 | 55.1 | 9.1 | 6.4 | 23.2 | 20.6 | 7.4 | 5.0 | 7 | 5 | 3 | 3 | 3.7 | 7.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 64 | 90016 | 73.0 | 55.4 | 8.3 | 6.6 | 21.3 | 17.3 | 5.7 | 4.2 | 7 | 7 | 3 | 3 | 5.0 | 12.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 65 | 90020 | 69.8 | 56.8 | 7.7 | 7.0 | 25.2 | 21.2 | 9.3 | 6.4 | 3 | 5 | 3 | 3 | 7.3 | 12.7 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| 66 | 90021 | 60.3 | 53.1 | 8.0 | 6.2 | 19.9 | 17.4 | 8.3 | 5.9 | 7 | 7 | 3 | 3 | 19.7 | 21.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 67 | 90022 | 62.3 | 55.4 | 8.0 | 6.4 | 23.1 | 18.8 | 6.8 | 4.9 | 5 | 5 | 3 | 3 | 3.3 | 4.7 | 50.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 68 | 90023 | 67.1 | 53.3 | 8.0 | 5.7 | 27.2 | 19.4 | 8.0 | 4.9 | 5 | 5 | 3 | 3 | 9.0 | 3.7 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 69 | 90024 | 62.8 | 57.1 | 7.7 | 6.1 | 24.6 | 21.7 | 6.1 | 6.6 | 5 | 5 | 3 | 3 | 9.7 | 9.3 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 70 | 90026 | 64.9 | 55.9 | 7.8 | 6.6 | 31.2 | 25.0 | 8.9 | 6.1 | 3 | 5 | 3 | 3 | 9.7 | 8.3 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |

| Trait number → | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | | Grain color |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy |
| 71 | 90028 | 61.8 | 52.4 | 7.9 | 5.6 | 26.8 | 21.2 | 9.7 | 6.6 | 5 | 5 | 3 | 3 | 2.3 | 10.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 72 | 91005 | 71.6 | 57.7 | 10.7 | 10.0 | 27.9 | 27.7 | 6.6 | 6.9 | 5 | 5 | 3 | 3 | 2.7 | 4.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 73 | 91007 | 73.6 | 70.0 | 8.8 | 6.2 | 27.6 | 22.3 | 8.9 | 5.3 | 5 | 5 | 3 | 3 | 4.7 | 8.3 | 50.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 74 | 91008 | 72.2 | 59.9 | 9.4 | 6.9 | 26.3 | 20.9 | 8.1 | 6.0 | 5 | 5 | 3 | 3 | 4.7 | 6.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 75 | 91009 | 70.6 | 61.6 | 8.9 | 7.2 | 24.0 | 20.7 | 4.8 | 3.7 | 5 | 7 | 3 | 3 | 6.0 | 4.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 76 | 91010 | 66.7 | 64.0 | 9.4 | 8.0 | 27.9 | 23.1 | 8.8 | 5.2 | 7 | 5 | 3 | 3 | 0.0 | 3.3 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 77 | 91013 | 69.9 | 62.2 | 9.2 | 7.0 | 28.8 | 24.1 | 9.3 | 7.0 | 7 | 7 | 3 | 3 | 10.0 | 11.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 78 | 91018 | 78.3 | 60.4 | 8.8 | 6.2 | 17.6 | 14.9 | 4.7 | 4.0 | 7 | 7 | 4 | 4 | 2.0 | 3.3 | 33.3 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 79 | 91019 | 70.8 | 62.1 | 8.3 | 7.0 | 27.1 | 23.8 | 8.4 | 5.9 | 7 | 5 | 3 | 3 | 9.3 | 13.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 80 | 91020 | 71.7 | 75.4 | 8.1 | 6.9 | 29.6 | 25.7 | 6.7 | 5.8 | 7 | 5 | 3 | 3 | 3.0 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 81 | 91023 | 59.1 | 53.2 | 8.1 | 6.4 | 23.7 | 18.6 | 5.9 | 5.4 | 5 | 7 | 3 | 3 | 3.0 | 2.7 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 82 | 91025 | 71.8 | 57.7 | 8.6 | 6.4 | 21.6 | 19.8 | 8.1 | 6.9 | 5 | 7 | 3 | 3 | 2.0 | 7.0 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 83 | 91026 | 70.7 | 58.3 | 8.7 | 7.2 | 21.4 | 20.1 | 6.2 | 5.2 | 7 | 7 | 3 | 3 | 11.7 | 13.0 | 41.7 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 84 | 91028 | 69.8 | 56.1 | 8.3 | 6.0 | 21.8 | 17.6 | 7.0 | 4.4 | 5 | 7 | 3 | 3 | 5.7 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 85 | 91030 | 59.0 | 55.4 | 8.3 | 6.6 | 25.8 | 21.3 | 7.1 | 5.8 | 7 | 5 | 3 | 3 | 2.7 | 3.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 86 | 91031 | 80.3 | 52.6 | 8.8 | 5.9 | 25.3 | 20.6 | 7.6 | 4.4 | 5 | 5 | 3 | 3 | 4.0 | 12.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 87 | 91032 | 62.9 | 48.3 | 7.7 | 5.4 | 19.4 | 14.4 | 5.7 | 4.2 | 7 | 7 | 4 | 4 | 0.0 | 6.3 | 75.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 88 | 91033 | 67.1 | 52.9 | 8.2 | 5.9 | 26.7 | 21.1 | 5.9 | 3.6 | 7 | 7 | 3 | 3 | 1.0 | 1.7 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 89 | 92005 | 75.3 | 63.1 | 9.6 | 6.8 | 35.6 | 25.7 | 11.3 | 8.4 | 5 | 5 | 3 | 3 | 5.0 | 5.7 | 58.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 90 | 92007 | 70.0 | 62.1 | 8.6 | 7.0 | 27.3 | 22.6 | 7.8 | 6.0 | 7 | 5 | 3 | 3 | 0.0 | 3.7 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 91 | 92008 | 78.0 | 54.8 | 8.6 | 6.4 | 33.7 | 27.7 | 8.9 | 7.3 | 5 | 5 | 3 | 3 | 7.0 | 10.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 92 | 92009 | 68.9 | 57.9 | 8.0 | 6.3 | 25.9 | 19.3 | 6.7 | 4.9 | 7 | 5 | 3 | 3 | 7.7 | 4.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 93 | 92010 | 70.6 | 57.9 | 9.1 | 6.4 | 26.8 | 20.1 | 7.9 | 5.4 | 7 | 5 | 3 | 3 | 3.0 | 5.0 | 25.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 94 | 92011 | 69.2 | 54.3 | 8.2 | 6.4 | 25.1 | 19.6 | 7.3 | 5.0 | 7 | 7 | 3 | 3 | 7.3 | 5.0 | 33.3 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 95 | 92012 | 82.6 | 64.6 | 10.2 | 6.8 | 30.6 | 23.0 | 9.8 | 7.0 | 5 | 5 | 3 | 3 | 4.0 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 96 | 92014 | 74.8 | 56.4 | 9.1 | 5.9 | 14.1 | 12.1 | 3.6 | 3.2 | 9 | 9 | 3 | 3 | 1.0 | 2.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| 97 | 92016 | 73.8 | 62.0 | 9.4 | 7.4 | 27.3 | 22.6 | 7.2 | 5.0 | 5 | 5 | 3 | 3 | 6.3 | 6.7 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 98 | 92022 | 73.1 | 57.4 | 8.3 | 6.8 | 21.2 | 21.1 | 6.0 | 5.3 | 7 | 5 | 3 | 3 | 7.0 | 6.7 | 33.3 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 99 | 92023 | 59.8 | 53.4 | 7.9 | 5.3 | 23.9 | 16.2 | 6.3 | 3.6 | 7 | 7 | 3 | 3 | 7.3 | 7.0 | 50.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |

| Trait number → | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | | Grain color |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy |
| 100 | 92026 | 58.7 | 49.4 | 8.0 | 6.6 | 16.0 | 13.6 | 5.7 | 3.6 | 5 | 7 | 3 | 3 | 5.3 | 6.0 | 75.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 101 | 92027 | 63.9 | 54.1 | 7.7 | 6.4 | 17.9 | 14.3 | 4.4 | 3.7 | 7 | 7 | 4 | 4 | 3.0 | 9.0 | 50.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | CSV 4 | 67.0 | 54.3 | 8.0 | 5.3 | 24.3 | 19.7 | 5.8 | 4.8 | 7 | 7 | 3 | 3 | 4.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 103 | RS 29 | 72.6 | 63.3 | 8.3 | 6.8 | 22.4 | 18.1 | 7.3 | 4.9 | 7 | 5 | 3 | 3 | 1.7 | 4.0 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| Mean | | 69.46 | 58.97 | 8.53 | 6.44 | 25.68 | 21.35 | 7.28 | 5.55 | - | - | - | - | 5.27 | 7.82 | 32.53 | 33.41 | - | - | - | - | - | - | - |
| SE ± | | 3.46 | 2.66 | 0.38 | 0.31 | 1.35 | 0.87 | 0.61 | 0.45 | - | - | - | - | 0.51 | 0.88 | 4.34 | 4.80 | - | - | - | - | - | - | - |
| CV (%) | | 8.63 | 7.80 | 7.66 | 8.44 | 9.11 | 7.05 | 14.40 | 13.91 | - | - | - | - | 16.77 | 19.45 | 23.08 | 24.89 | - | - | - | - | - | - | - |
| CD (5%) | | 9.66 | 9.18 | 1.05 | 0.97 | 3.77 | 3.16 | 1.69 | 1.48 | - | - | - | - | 1.42 | 2.02 | 12.09 | 12.72 | - | - | - | - | - | - | - |

Annexure I-13. … Contd.

| Trait number ⟶ | | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy | Postrainy | Postrainy |
| 1 | 8 | 31.60 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 1.3 | 2.4 | 4.9 | 1.4 | 3.8 | Tan | Thin | 7.5 |
| 2 | 21 | 32.78 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 3.0 | 3.3 | 3.0 | 1.7 | 3.6 | 5.2 | 2.6 | 4.0 | Tan | Thick | 7.8 |
| 3 | 22 | 33.35 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 2.7 | 3.3 | 3.0 | 2.7 | 1.3 | 2.3 | 6.3 | 1.5 | 5.0 | Tan | Thin | 7.5 |
| 4 | 25 | 39.35 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 3.0 | 2.3 | 2.3 | 2.0 | 1.7 | 4.0 | 4.9 | 2.8 | 3.9 | Tan | Thick | 8.1 |
| 5 | 27 | 29.07 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 3.0 | 2.3 | 4.0 | 4.3 | 2.3 | 1.3 | 4.4 | 5.9 | 3.3 | 4.7 | Tan | Thick | 6.9 |
| 6 | 47 | 35.14 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 2.7 | 2.3 | 2.3 | 3.3 | 2.0 | 3.2 | 5.1 | 2.3 | 4.0 | Tan | Thick | 9.3 |
| 7 | 48 | 38.82 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 2.7 | 2.7 | 2.0 | 2.7 | 2.0 | 3.1 | 4.8 | 2.1 | 3.7 | Tan | Thick | 7.6 |
| 8 | 50 | 41.65 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 2.7 | 2.7 | 2.0 | 2.3 | 2.0 | 3.2 | 4.5 | 1.9 | 3.4 | Tan | Thin | 6.9 |
| 9 | 58 | 34.87 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.3 | 2.7 | 2.0 | 3.3 | 3.9 | 2.4 | 2.6 | Tan | Thin | 7.6 |
| 10 | 74 | 31.63 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 2.3 | 3.0 | 2.3 | 3.3 | 2.0 | 1.9 | 3.9 | 1.4 | 2.9 | Tan | Thin | 4.7 |
| 11 | 75 | 33.91 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.3 | 3.0 | 2.0 | 3.2 | 4.5 | 2.4 | 3.4 | Tan | Thin | 9.5 |
| 12 | 78 | 29.16 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.0 | 3.0 | 2.3 | 3.3 | 1.7 | 1.8 | 4.5 | 1.1 | 3.5 | Tan | Thin | 10.7 |
| 13 | 83 | 30.72 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.7 | 1.7 | 3.5 | 5.3 | 2.5 | 4.2 | Tan | Thin | 6.8 |
| 14 | 84 | 32.74 | 3 | 3 | 5 | 5 | 3 | 5 | 7 | 8 | 3.0 | 2.3 | 3.7 | 4.0 | 2.7 | 1.7 | 3.4 | 5.3 | 2.4 | 4.3 | Tan | Thick | 8.7 |
| 15 | 91 | 23.32 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 2.3 | 4.0 | 3.3 | 2.0 | 1.0 | 2.6 | 2.8 | 1.9 | 4.5 | Tan | Thin | 7.3 |
| 16 | 92 | 38.62 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 3.7 | 2.7 | 2.7 | 2.0 | 1.7 | 3.6 | 5.0 | 2.6 | 3.9 | Tan | Thin | 7.8 |
| 17 | 93 | 35.31 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 2.3 | 2.3 | 3.0 | 2.3 | 2.8 | 4.0 | 1.9 | 2.4 | Tan | Thin | 7.9 |
| 18 | 98 | 26.72 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.0 | 3.0 | 2.7 | 2.0 | 1.7 | 3.6 | 4.8 | 2.6 | 3.9 | Tan | Thin | 7.1 |
| 19 | 100 | 31.10 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 2.3 | 2.0 | 2.0 | 1.0 | 2.3 | 2.0 | 2.9 | 3.6 | 2.1 | 2.8 | Tan | Thick | 7.7 |
| 20 | 102 | 28.95 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 3.3 | 2.3 | 2.7 | 2.0 | 2.0 | 2.0 | 3.8 | 4.9 | 2.6 | 4.0 | Tan | Thick | 14.1 |
| 21 | 115 | 30.64 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 3.0 | 2.7 | 3.0 | 2.7 | 2.0 | 2.0 | 4.1 | 5.3 | 3.2 | 4.1 | Tan | Thin | 8.6 |
| 22 | 117 | 39.87 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.7 | 3.0 | 3.0 | 1.7 | 2.0 | 3.7 | 4.9 | 2.9 | 3.6 | Tan | Thin | 8.2 |
| 23 | 118 | 26.85 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 3.0 | 2.7 | 2.3 | 1.7 | 3.1 | 5.3 | 2.1 | 4.1 | Tan | Thick | 8.8 |
| 24 | 119 | 37.05 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.7 | 2.7 | 3.0 | 2.7 | 2.7 | 2.0 | 3.1 | 4.2 | 2.1 | 2.8 | Tan | Thin | 14.8 |
| 25 | 123 | 33.53 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 2.7 | 1.7 | 2.3 | 2.0 | 3.8 | 5.2 | 2.8 | 4.3 | Tan | Thin | 7.9 |
| 26 | 127 | 30.06 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 3.0 | 2.7 | 1.3 | 1.7 | 4.5 | 4.2 | 3.3 | 3.1 | Tan | Thin | 8.2 |
| 27 | 129 | 34.64 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 3.0 | 3.0 | 2.7 | 1.7 | 3.2 | 5.5 | 2.3 | 4.2 | Tan | Thin | 14.4 |
| 28 | 131 | 35.58 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.0 | 2.3 | 3.0 | 2.3 | 3.0 | 2.0 | 2.9 | 4.6 | 1.9 | 3.5 | Tan | Thin | 7.6 |
| 29 | 133 | 32.72 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 3.0 | 2.7 | 2.7 | 2.3 | 2.0 | 3.9 | 4.2 | 3.0 | 3.1 | Tan | Thin | 16.4 |
| 30 | 136 | 38.00 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 2.7 | 2.3 | 2.7 | 2.7 | 2.7 | 1.3 | 3.0 | 5.6 | 2.0 | 4.5 | Tan | Thin | 11.8 |
| 31 | 141 | 32.20 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.3 | 1.0 | 3.1 | 5.5 | 2.2 | 4.3 | Tan | Thick | 13.1 |
| 32 | 145 | 30.17 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.0 | 2.7 | 3.0 | 2.3 | 2.3 | 2.0 | 3.4 | 4.2 | 2.6 | 3.4 | Tan | Thick | 8.4 |
| 33 | 146 | 29.32 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 2.7 | 2.7 | 3.3 | 3.7 | 2.3 | 1.3 | 3.6 | 5.4 | 2.7 | 4.5 | Tan | Thin | 8.6 |
| 34 | 147 | 39.03 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 1.7 | 2.3 | 3.0 | 3.7 | 2.7 | 2.0 | 3.5 | 3.1 | 2.5 | 2.1 | Tan | Thin | 8 |

| Trait number → | | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy | Postrainy | Postrainy |
| 35 | 154 | 25.97 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 3.0 | 3.0 | 2.3 | 4.8 | 3.8 | 3.5 | 3.1 | Tan | Thin | 9 |
| 36 | 155 | 27.71 | 2 | 2 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 2.7 | 3.7 | 3.0 | 2.3 | 2.0 | 3.8 | 4.5 | 3.0 | 2.4 | Tan | Thin | 11.2 |
| 37 | 160 | 29.97 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 6 | 3.0 | 2.3 | 2.0 | 1.0 | 2.3 | 2.0 | 4.5 | 4.3 | 3.2 | 3.3 | Tan | Thin | 18.1 |
| 38 | 166 | 32.78 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 2.3 | 3.7 | 3.0 | 2.3 | 1.3 | 5.0 | 6.9 | 3.7 | 5.7 | Tan | Thick | 5.5 |
| 39 | 171 | 44.10 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 3.0 | 2.3 | 3.0 | 3.0 | 2.7 | 1.7 | 3.8 | 4.2 | 2.5 | 2.8 | Tan | Thin | 9.4 |
| 40 | 179 | 37.32 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.7 | 2.0 | 2.0 | 3.0 | 1.3 | 2.3 | Tan | Thin | 7.2 |
| 41 | 181 | 38.77 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 3.0 | 3.3 | 3.0 | 2.3 | 3.0 | 4.0 | 1.8 | 2.5 | Tan | Thin | 6.7 |
| 42 | 186 | 41.50 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.0 | 5.5 | 3.3 | 3.8 | 2.4 | Tan | Thin | 10.9 |
| 43 | 89003 | 27.04 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 2.7 | 2.7 | 2.7 | 3.0 | 2.0 | 5.3 | 5.3 | 3.9 | 4.1 | Tan | Thin | 7 |
| 44 | 89011 | 40.70 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 2.7 | 3.0 | 3.0 | 3.0 | 2.3 | 3.4 | 3.2 | 2.6 | 2.3 | Tan | Thick | 7.6 |
| 45 | 89021 | 25.97 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 3.3 | 2.3 | 2.7 | 2.0 | 2.3 | 2.0 | 4.7 | 5.1 | 3.6 | 4.0 | Tan | Thick | 8.4 |
| 46 | 89023 | 27.05 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 3.0 | 2.3 | 2.3 | 1.7 | 2.0 | 2.0 | 3.0 | 3.9 | 2.0 | 3.3 | Tan | Thin | 8.2 |
| 47 | 89046 | 22.68 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 2.3 | 3.0 | 2.0 | 3.0 | 2.0 | 4.6 | 4.5 | 3.3 | 3.4 | Tan | Thick | 6.1 |
| 48 | 89047 | 28.65 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 2.3 | 3.0 | 3.0 | 2.0 | 2.0 | 4.5 | 3.7 | 3.5 | 2.1 | Tan | Thin | 8.7 |
| 49 | 89048 | 23.09 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.7 | 2.0 | 2.0 | 3.1 | 3.9 | 2.3 | 3.1 | Tan | Thin | 7.4 |
| 50 | 89049 | 28.66 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.0 | 3.5 | 3.9 | 2.7 | 3.0 | Tan | Thin | 8.5 |
| 51 | 89051 | 28.07 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 3.3 | 3.3 | 2.3 | 2.7 | 2.7 | 2.0 | 4.8 | 4.7 | 3.5 | 3.8 | Tan | Thick | 8.8 |
| 52 | 89054 | 25.01 | 2 | 2 | 5 | 5 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 2.3 | 2.7 | 3.0 | 2.3 | 4.5 | 5.3 | 3.2 | 4.0 | Tan | Thin | 6.6 |
| 53 | 89057 | 29.56 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 3.0 | 3.0 | 3.3 | 2.7 | 2.3 | 2.8 | 4.6 | 1.9 | 3.5 | Tan | Thin | 7.6 |
| 54 | 89061 | 32.04 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.0 | 3.0 | 3.3 | 2.3 | 1.7 | 2.9 | 5.1 | 2.0 | 4.0 | Tan | Thin | 5 |
| 55 | 89069 | 21.57 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.7 | 2.3 | 2.7 | 2.7 | 2.3 | 2.0 | 3.9 | 5.1 | 2.9 | 4.0 | Tan | Thin | 6.6 |
| 56 | 89073 | 26.24 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 1.7 | 1.3 | 3.0 | 3.0 | 2.0 | 2.3 | 3.7 | 3.4 | 2.9 | 2.8 | Tan | Thin | 9.1 |
| 57 | 90001 | 24.14 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.0 | 2.0 | 3.3 | 3.3 | 2.0 | 1.0 | 3.3 | 6.6 | 2.3 | 5.3 | Tan | Thin | 7.8 |
| 58 | 90005 | 26.24 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.3 | 2.3 | 2.3 | 2.0 | 1.7 | 3.8 | 5.6 | 2.7 | 4.3 | Tan | Thin | 8.6 |
| 59 | 90008 | 25.31 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 2.7 | 1.0 | 3.3 | 3.0 | 2.0 | 2.0 | 3.5 | 4.4 | 2.6 | 3.5 | Tan | Thin | 6.7 |
| 60 | 90009 | 26.67 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.3 | 2.3 | 2.7 | 3.0 | 3.0 | 2.3 | 4.4 | 5.3 | 3.3 | 4.1 | Tan | Thin | 6.1 |
| 61 | 90010 | 25.53 | 3 | 3 | 7 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 2.3 | 2.7 | 3.0 | 2.3 | 3.1 | 4.9 | 2.0 | 3.9 | Tan | Thick | 6.4 |
| 62 | 90011 | 25.14 | 3 | 3 | 7 | 3 | 3 | 5 | 6 | 8 | 3.0 | 3.0 | 3.7 | 4.0 | 3.0 | 1.7 | 3.9 | 6.7 | 2.8 | 5.0 | Tan | Thin | 5.7 |
| 63 | 90012 | 30.37 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 3.0 | 3.0 | 3.7 | 3.7 | 3.0 | 2.3 | 3.0 | 3.6 | 2.1 | 3.0 | Tan | Thin | 6.2 |
| 64 | 90016 | 33.50 | 2 | 2 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 3.0 | 2.0 | 2.3 | 3.7 | 2.3 | 2.1 | 5.4 | 1.4 | 4.4 | Tan | Thin | 8.6 |
| 65 | 90020 | 29.94 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 3.0 | 2.0 | 3.7 | 3.0 | 3.0 | 3.0 | 3.7 | 1.6 | 2.8 | 1.0 | Tan | Thin | 8.7 |
| 66 | 90021 | 32.90 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 1.7 | 1.3 | 3.0 | 3.0 | 3.0 | 2.7 | 3.3 | 4.1 | 2.4 | 2.1 | Tan | Thin | 7.9 |
| 67 | 90022 | 37.23 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.3 | 2.3 | 3.0 | 3.0 | 2.3 | 4.2 | 3.4 | 3.2 | 2.5 | Tan | Thin | 9.6 |
| 68 | 90023 | 32.58 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 7 | 2.3 | 2.0 | 2.7 | 2.3 | 3.0 | 2.0 | 3.6 | 3.5 | 2.6 | 2.6 | Tan | Thin | 8.7 |
| 69 | 90024 | 26.10 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 8 | 1.3 | 1.3 | 3.0 | 3.0 | 3.0 | 2.7 | 2.8 | 3.1 | 2.0 | 2.5 | Tan | Thin | 9.4 |
| 70 | 90026 | 30.15 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 1.7 | 1.3 | 3.0 | 2.7 | 3.0 | 2.0 | 4.1 | 4.7 | 3.0 | 3.7 | Tan | Thin | 8.5 |

| Trait number → | | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy | Postrainy | Postrainy |
| 71 | 90028 | 28.26 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 1.3 | 2.0 | 3.7 | 4.3 | 2.3 | 2.0 | 3.1 | 5.0 | 2.2 | 3.8 | Tan | Thin | 6.5 |
| 72 | 91005 | 40.78 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 8 | 3.0 | 2.7 | 3.3 | 4.7 | 2.3 | 1.7 | 3.0 | 6.5 | 1.9 | 4.3 | - | - | - |
| 73 | 91007 | 30.09 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 2.7 | 3.0 | 2.0 | 3.0 | 2.0 | 2.9 | 4.1 | 1.9 | 3.0 | - | - | - |
| 74 | 91008 | 23.98 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 3.3 | 3.3 | 3.0 | 3.0 | 3.0 | 2.0 | 3.6 | 5.6 | 2.5 | 4.5 | - | - | - |
| 75 | 91009 | 40.59 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 3.3 | 2.7 | 2.7 | 3.0 | 2.3 | 2.0 | 2.8 | 4.7 | 1.9 | 3.4 | - | - | - |
| 76 | 91010 | 31.26 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.3 | 2.3 | 3.3 | 3.0 | 2.0 | 1.7 | 4.6 | 5.9 | 3.5 | 4.8 | - | - | - |
| 77 | 91013 | 30.94 | 3 | 3 | 5 | 5 | 3 | 1 | 7 | 8 | 3.0 | 3.0 | 5.0 | 4.3 | 2.3 | 1.0 | 4.0 | 5.1 | 2.8 | 3.9 | - | - | - |
| 78 | 91018 | 33.15 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 2.3 | 3.0 | 2.7 | 2.0 | 2.0 | 4.1 | 5.6 | 3.1 | 4.4 | - | - | - |
| 79 | 91019 | 28.51 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 2.3 | 3.0 | 2.7 | 3.0 | 1.3 | 3.5 | 5.5 | 2.6 | 4.1 | - | - | - |
| 80 | 91020 | 31.90 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.0 | 2.7 | 1.7 | 1.7 | 1.7 | 3.0 | 6.5 | 2.0 | 5.2 | - | - | - |
| 81 | 91023 | 25.87 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 1.3 | 1.0 | 3.3 | 3.0 | 2.7 | 2.0 | 3.3 | 3.4 | 2.4 | 2.7 | - | - | - |
| 82 | 91025 | 28.19 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.7 | 3.0 | 3.0 | 1.0 | 3.5 | 7.9 | 2.4 | 6.3 | - | - | - |
| 83 | 91026 | 25.45 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 6 | 3.3 | 2.3 | 2.3 | 1.7 | 3.7 | 2.0 | 2.5 | 3.7 | 1.9 | 3.0 | - | - | - |
| 84 | 91028 | 31.77 | 2 | 2 | 5 | 5 | 3 | 5 | 5 | 7 | 3.3 | 2.7 | 3.7 | 3.0 | 2.7 | 2.7 | 2.9 | 3.3 | 2.1 | 2.7 | - | - | - |
| 85 | 91030 | 26.26 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 7 | 3.0 | 2.0 | 3.0 | 3.0 | 2.3 | 2.0 | 4.0 | 5.5 | 3.0 | 4.4 | - | - | - |
| 86 | 91031 | 32.36 | 3 | 3 | 5 | 5 | 3 | 5 | 5 | 7 | 3.0 | 3.3 | 3.0 | 3.0 | 2.7 | 2.0 | 4.7 | 4.2 | 3.6 | 3.4 | - | - | - |
| 87 | 91032 | 32.58 | 3 | 3 | 7 | 3 | 3 | 7 | 5 | 8 | 1.7 | 1.0 | 3.3 | 3.7 | 3.3 | 2.0 | 2.1 | 4.4 | 1.3 | 3.4 | - | - | - |
| 88 | 91033 | 31.50 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.7 | 3.0 | 3.0 | 2.0 | 2.0 | 3.9 | 5.4 | 3.1 | 2.8 | - | - | - |
| 89 | 92005 | 24.37 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 2.3 | 3.0 | 3.0 | 4.0 | 3.0 | 2.0 | 3.9 | 3.8 | 2.6 | 2.6 | - | - | - |
| 90 | 92007 | 28.99 | 3 | 3 | 5 | 5 | 3 | 7 | 5 | 7 | 3.0 | 2.7 | 2.7 | 2.7 | 2.0 | 2.0 | 4.1 | 5.1 | 2.8 | 4.0 | - | - | - |
| 91 | 92008 | 33.83 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 2.7 | 2.5 | 4.0 | 4.0 | 2.0 | 2.0 | 3.5 | 5.5 | 2.8 | 4.5 | - | - | - |
| 92 | 92009 | 24.10 | 2 | 2 | 5 | 3 | 3 | 1 | 4 | 7 | 2.7 | 2.3 | 2.3 | 2.7 | 2.3 | 2.0 | 3.3 | 4.9 | 2.3 | 2.8 | - | - | - |
| 93 | 92010 | 26.52 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 7 | 3.0 | 2.7 | 2.0 | 2.0 | 2.0 | 2.0 | 4.1 | 4.7 | 3.1 | 3.0 | - | - | - |
| 94 | 92011 | 26.25 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.3 | 2.0 | 4.5 | 4.8 | 3.4 | 3.2 | - | - | - |
| 95 | 92012 | 40.61 | 2 | 2 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.7 | 2.3 | 2.7 | 2.0 | 2.0 | 3.8 | 5.4 | 2.7 | 4.1 | - | - | - |
| 96 | 92014 | 34.10 | 3 | 3 | 5 | 9 | 4 | 1 | 6 | 7 | 3.7 | 3.3 | 3.7 | 3.3 | 2.0 | 2.0 | 5.3 | 4.8 | 4.0 | 3.8 | - | - | - |
| 97 | 92016 | 38.08 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.3 | 3.0 | 2.3 | 2.3 | 2.7 | 2.0 | 3.9 | 4.5 | 2.9 | 3.6 | - | - | - |
| 98 | 92022 | 33.21 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 3.0 | 2.7 | 2.7 | 3.7 | 2.0 | 2.7 | 4.4 | 1.9 | 3.2 | - | - | - |
| 99 | 92023 | 35.13 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 2.7 | 3.0 | 3.0 | 2.7 | 3.3 | 2.3 | 3.1 | 4.1 | 2.2 | 3.1 | - | - | - |

| Trait number → | | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy | Postrainy | Postrainy |
| 100 | 92026 | 34.60 | 3 | 3 | 5 | 5 | 3 | 1 | 5 | 7 | 1.0 | 1.0 | 2.3 | 2.3 | 3.0 | 1.7 | 3.4 | 3.6 | 2.4 | 3.0 | - | - | - |
| 101 | 92027 | 35.39 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 1.3 | 1.0 | 4.3 | 3.0 | 3.3 | 2.0 | 1.8 | 4.6 | 1.2 | 3.0 | - | - | - |
| Control | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | CSV 4 | 32.26 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 2.7 | 2.3 | 2.7 | 2.7 | 4.0 | 3.0 | 3.1 | 2.1 | - | - | - |
| 103 | RS 29 | 28.56 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 6 | 2.7 | 2.3 | 1.0 | 1.0 | 2.3 | 2.0 | 4.1 | 4.8 | 3.1 | 1.9 | - | - | - |
| Mean | | 31.29 | - | - | - | - | - | - | 5.25 | 7.07 | 2.83 | 2.48 | 2.94 | 2.79 | 2.58 | 1.92 | 3.53 | 4.65 | 2.54 | 3.53 | - | - | - |
| SE ± | | 1.02 | - | - | - | - | - | - | 0.26 | 0.20 | 0.27 | 0.29 | 0.27 | 0.29 | 0.26 | 0.22 | 0.44 | 0.31 | 0.36 | 0.29 | - | - | - |
| CV (%) | | 5.62 | - | - | - | - | - | - | 8.70 | 4.88 | 16.54 | 20.63 | 15.77 | 17.71 | 17.69 | 19.83 | 21.75 | 11.57 | 24.77 | 14.37 | - | - | - |
| CD (5%) | | 2.83 | - | - | - | - | - | - | 0.74 | 0.65 | 0.75 | 0.79 | 0.75 | 0.77 | 0.73 | 0.67 | 1.24 | 1.23 | 1.02 | 1.06 | - | - | - |

Annexure I-14. Characteristics of high yielding (late maturity) sorghum R-lines evaluated during the rainy and postrainy seasons, 2005 at ICRISAT-Patancheru.

| Trait number ⟶ | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Coleoptile color | | Fifth leaf sheath color | | Leaf midrib color | | Days to 50% flowering | | Plant height (m) at flowering | | Flag leaf: Extension of discoloration of mid rib | | Flag leag: intensity of green coloration of midrib compared to the blade | | Flag leaf: yellow coloration of mid rib | | Glume hair color | | Lemma: arista formation | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 5 | 1 | 1 | 1 | 1 | 2 | 2 | 71 | 69 | 1.2 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 14 | 1 | 1 | 1 | 1 | 2 | 2 | 80 | 80 | 1.7 | 1.0 | 1 | 7 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 44 | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 85 | 1.5 | 0.8 | 1 | 7 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 82 | 2 | 2 | 3 | 3 | 2 | 2 | 75 | 86 | 1.6 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 99 | 2 | 2 | 3 | 3 | 2 | 2 | 86 | 91 | 1.5 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 132 | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 80 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 135 | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 91 | 1.2 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 156 | 2 | 2 | 3 | 3 | 2 | 2 | 79 | 86 | 1.7 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 185 | 1 | 1 | 1 | 1 | 2 | 2 | 80 | 95 | 1.7 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 89002 | 1 | 1 | 1 | 1 | 2 | 2 | 78 | 84 | 1.8 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 89026 | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 85 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 |
| 12 | 89055 | 2 | 2 | 3 | 3 | 2 | 2 | 70 | 88 | 1.9 | 1.3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 89056 | 2 | 1 | 3 | 1 | 3 | 3 | 77 | 91 | 2.2 | 1.2 | 1 | 7 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 89060 | 2 | 2 | 3 | 3 | 2 | 2 | 81 | 89 | 1.4 | 0.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 89062 | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 86 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 89070 | 2 | 2 | 3 | 3 | 2 | 2 | 78 | 79 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 90002 | 2 | 2 | 3 | 3 | 2 | 2 | 82 | 84 | 2.9 | 1.9 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 5 | 5 |
| 18 | 90013 | 1 | 1 | 1 | 1 | 2 | 3 | 88 | 90 | 2.0 | 1.2 | 1 | 7 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 90018 | 2 | 2 | 3 | 3 | 2 | 2 | 74 | 88 | 1.6 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 90019 | 2 | 2 | 3 | 3 | 2 | 2 | 80 | 83 | 1.8 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 90027 | 2 | 2 | 3 | 3 | 2 | 2 | 77 | 82 | 1.3 | 1.0 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 92001 | 1 | 1 | 1 | 1 | 2 | 2 | 77 | 88 | 1.6 | 1.2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Control | | | | | | | | | | | | | | | | | | | | | |
| 23 | CSV 4 | 2 | 2 | 3 | 3 | 2 | 2 | 69 | 73 | 1.1 | 0.8 | 1 | 5 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | RS 29 | 2 | 2 | 3 | 3 | 2 | 2 | 76 | 83 | 1.8 | 1.1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | - | - | - | - | - | - | 78 | 84 | 1.61 | 1.07 | - | - | - | - | - | - | - | - | - | - |
| SE ± | | - | - | - | - | - | - | 1.25 | 0.81 | 0.10 | 0.03 | - | - | - | - | - | - | - | - | - | - |
| CV (%) | | - | - | - | - | - | - | 2.78 | 1.67 | 10.49 | 4.96 | - | - | - | - | - | - | - | - | - | - |
| CD (5%) | | - | - | - | - | - | - | 3.60 | 2.95 | 0.28 | 0.20 | - | - | - | - | - | - | - | - | - | - |

Trait No. 1-41 : Triats stipulated in the DUS-test guidelines (Trait no 38 was not recorded in the current trials).

Trait No. 42-47 : Ancillary traits recorded in the current trials.

Trait No. 48-50 : Monitored traits recorded in various trials conducted earlier at ICRISAT.

Annexure I-14. … Contd.

| Trait number ⟶ | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Stigma: anthocyanin coloration | | Stigma: yellow coloration | | Stigma length | | Pedicillate flower length | | Length of anther | | Dried anther color | | Glume color | | Plant height (m) at matuirty | | Stem thickness (mm) | | Juicy score | | Brix reading (%) | |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy |
| 1 | 5 | 1 | 1 | 5 | 5 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 1.4 | 1.1 | 17.4 | 13.9 | 1 | 1 | 15.2 | 16.4 |
| 2 | 14 | 1 | 1 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.9 | 1.2 | 21.1 | 19.6 | 1 | 1 | 18.0 | 19.7 |
| 3 | 44 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 3 | 3 | 5 | 6 | 4 | 7 | 7 | 1.9 | 1.1 | 22.7 | 24.7 | 1 | 1 | 13.0 | 16.6 |
| 4 | 82 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 6 | 4 | 4 | 4 | 2.0 | 1.5 | 20.1 | 17.7 | 1 | 1 | 11.1 | 17.7 |
| 5 | 99 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 5 | 1.8 | 1.3 | 22.3 | 20.3 | 1 | 1 | 19.9 | 18.3 |
| 6 | 132 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 7 | 5 | 5 | 4 | 4 | 4 | 2 | 1.6 | 1.2 | 21.5 | 19.5 | 1 | 1 | 14.1 | 19.0 |
| 7 | 135 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.6 | 1.3 | 20.9 | 20.5 | 1 | 2 | 16.1 | 15.1 |
| 8 | 156 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 3 | 5 | 6 | 4 | 5 | 5 | 2.0 | 1.6 | 19.4 | 19.3 | 2 | 1 | 6.7 | 14.0 |
| 9 | 185 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 2.0 | 1.6 | 21.6 | 19.1 | 1 | 1 | 17.6 | 19.1 |
| 10 | 89002 | 1 | 1 | 5 | 5 | 3 | 5 | 7 | 5 | 5 | 5 | 6 | 4 | 5 | 5 | 2.3 | 1.5 | 17.3 | 17.6 | 1 | 1 | 16.4 | 19.6 |
| 11 | 89026 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 2 | 7 | 1.5 | 1.3 | 19.1 | 17.6 | 1 | 2 | 18.9 | 15.0 |
| 12 | 89055 | 1 | 1 | 5 | 1 | 3 | 5 | 5 | 3 | 3 | 5 | 6 | 4 | 5 | 5 | 2.0 | 1.5 | 19.1 | 16.5 | 1 | 1 | 15.3 | 18.4 |
| 13 | 89056 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 2.5 | 1.5 | 20.7 | 18.8 | 2 | 2 | 12.4 | 21.4 |
| 14 | 89060 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 1.6 | 1.1 | 18.1 | 18.7 | 1 | 1 | 9.1 | 12.1 |
| 15 | 89062 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 5 | 6 | 4 | 1 | 1 | 1.5 | 1.3 | 18.0 | 18.2 | 1 | 1 | 13.1 | 16.1 |
| 16 | 89070 | 1 | 1 | 5 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 6 | 4 | 4 | 4 | 1.7 | 1.3 | 19.9 | 18.3 | 1 | 1 | 7.6 | 17.6 |
| 17 | 90002 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 7 | 7 | 3.0 | 2.0 | 19.0 | 15.6 | 1 | 1 | 15.6 | 18.2 |
| 18 | 90013 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 4 | 2.5 | 1.6 | 18.2 | 16.3 | 1 | 1 | 15.2 | 17.2 |
| 19 | 90018 | 1 | 1 | 1 | 1 | 5 | 5 | 7 | 5 | 5 | 5 | 6 | 6 | 4 | 4 | 1.9 | 1.4 | 20.1 | 20.1 | 1 | 1 | 9.4 | 16.6 |
| 20 | 90019 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 2 | 2 | 2.0 | 1.2 | 18.6 | 18.3 | 1 | 1 | 12.7 | 13.4 |
| 21 | 90027 | 1 | 1 | 1 | 1 | 3 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.7 | 1.3 | 15.2 | 17.4 | 2 | 1 | 9.1 | 17.9 |
| 22 | 92001 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 1.9 | 1.5 | 18.6 | 19.2 | 1 | 1 | 19.0 | 19.4 |
| Control | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | CSV 4 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 5 | 5 | 3 | 4 | 4 | 4 | 2 | 1.4 | 1.1 | 17.7 | 14.6 | 1 | 1 | 12.1 | 15.2 |
| 24 | RS 29 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 2.0 | 1.4 | 16.3 | 14.6 | 1 | 1 | 16.2 | 18.8 |
| Mean | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.90 | 1.37 | 19.27 | 18.10 | - | - | 13.96 | 17.18 |
| SE ± | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.09 | 0.04 | 0.99 | 0.98 | - | - | 1.45 | 1.27 |
| CV (%) | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.08 | 5.32 | 8.91 | 9.39 | - | - | 18.00 | 12.78 |
| CD (5%) | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.26 | 0.20 | 2.85 | 2.87 | - | - | 4.17 | 3.84 |

Annexure I-14. … Contd.

| Trait number → | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | 32 | | 33 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | Leaf length (cm) | | Leaf width (cm) | | Panicle length (cm) | | Panicle branch length (cm) | | Panicle compactness | | Panicle shape | | Panicle exertion (cm) | | Glume coverage (%) | | Shattering | | Threshability% | | Grain form | | Grain color |
| | | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy |
| 1 | 5 | 79.3 | 64.8 | 9.1 | 5.7 | 24.9 | 22.3 | 5.2 | 5.7 | 7 | 5 | 3 | 3 | 0.0 | 1.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 2 | 14 | 69.3 | 60.1 | 9.8 | 6.7 | 27.6 | 21.3 | 6.6 | 5.3 | 7 | 5 | 3 | 3 | 1.0 | 5.3 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 3 | 44 | 79.2 | 58.2 | 9.0 | 6.5 | 29.6 | 26.0 | 7.2 | 6.8 | 5 | 5 | 3 | 3 | 11.0 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 4 | 82 | 81.0 | 60.8 | 8.8 | 5.6 | 32.2 | 25.6 | 10.2 | 6.0 | 7 | 5 | 3 | 3 | 5.0 | 10.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 5 | 99 | 79.1 | 62.2 | 8.9 | 6.7 | 22.6 | 24.8 | 7.5 | 6.0 | 7 | 5 | 3 | 3 | 4.0 | 5.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 132 | 76.4 | 61.2 | 9.1 | 6.6 | 27.4 | 21.8 | 7.9 | 4.9 | 5 | 5 | 3 | 3 | 2.3 | 6.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 135 | 72.3 | 57.2 | 9.2 | 5.6 | 27.3 | 23.7 | 7.2 | 6.4 | 5 | 5 | 3 | 3 | 7.3 | 6.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 8 | 156 | 68.9 | 64.9 | 7.8 | 6.0 | 32.8 | 28.1 | 10.1 | 7.1 | 5 | 5 | 3 | 3 | 12.0 | 17.3 | 50.0 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 9 | 185 | 78.6 | 59.0 | 7.8 | 6.3 | 28.9 | 26.9 | 9.6 | 6.3 | 7 | 7 | 3 | 3 | 5.3 | 12.0 | 41.7 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 10 | 89002 | 76.6 | 59.7 | 8.1 | 6.0 | 32.8 | 26.6 | 8.7 | 5.6 | 7 | 5 | 3 | 3 | 23.3 | 17.0 | 25.0 | 33.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 89026 | 71.7 | 59.7 | 8.3 | 5.9 | 21.0 | 24.4 | 7.4 | 5.6 | 7 | 5 | 3 | 3 | 2.3 | 5.3 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 89055 | 76.1 | 55.6 | 9.1 | 7.2 | 27.2 | 22.4 | 7.9 | 5.8 | 5 | 5 | 3 | 3 | 1.0 | 1.0 | 41.7 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 89056 | 72.6 | 55.6 | 8.8 | 6.9 | 31.1 | 25.2 | 8.1 | 6.8 | 7 | 7 | 3 | 3 | 3.3 | 5.0 | 33.3 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 89060 | 65.9 | 44.9 | 8.1 | 5.7 | 24.0 | 21.1 | 7.8 | 6.4 | 7 | 7 | 3 | 3 | 1.0 | 2.0 | 33.3 | 41.7 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 15 | 89062 | 67.2 | 53.0 | 7.9 | 5.5 | 22.2 | 22.7 | 8.5 | 5.9 | 7 | 5 | 3 | 3 | 3.0 | 14.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 16 | 89070 | 83.4 | 62.1 | 8.9 | 6.6 | 28.3 | 25.0 | 7.3 | 6.8 | 5 | 5 | 3 | 3 | 10.7 | 8.3 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 17 | 90002 | 60.3 | 51.7 | 7.7 | 6.7 | 12.3 | 12.4 | 3.6 | 3.1 | 7 | 7 | 3 | 3 | 2.0 | 10.7 | 50.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 18 | 90013 | 67.9 | 47.4 | 8.9 | 6.6 | 22.8 | 23.0 | 7.2 | 5.4 | 7 | 7 | 3 | 3 | 11.3 | 14.3 | 33.3 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 90018 | 72.7 | 60.2 | 8.7 | 6.3 | 28.6 | 25.2 | 10.1 | 7.3 | 5 | 5 | 3 | 3 | 12.3 | 8.3 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 20 | 90019 | 64.4 | 51.0 | 8.0 | 6.4 | 23.3 | 21.0 | 7.8 | 6.0 | 7 | 5 | 3 | 3 | 2.3 | 6.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 21 | 90027 | 73.7 | 58.4 | 7.8 | 5.5 | 27.8 | 24.9 | 7.9 | 6.2 | 5 | 5 | 3 | 3 | 9.0 | 5.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 22 | 92001 | 74.2 | 61.8 | 9.5 | 6.7 | 24.3 | 24.1 | 6.7 | 5.6 | 5 | 5 | 3 | 3 | 2.0 | 9.7 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| Control | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | CSV 4 | 68.7 | 52.7 | 8.2 | 5.1 | 23.9 | 18.1 | 6.4 | 4.4 | 7 | 7 | 3 | 3 | 4.7 | 7.0 | 25.0 | 25.0 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 24 | RS 29 | 73.9 | 52.7 | 9.4 | 6.8 | 22.1 | 20.4 | 6.6 | 4.4 | 5 | 5 | 3 | 3 | 2.0 | 5.0 | 25.0 | 50.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mean | | 73.14 | 57.75 | 8.60 | 6.25 | 26.08 | 23.20 | 7.58 | 5.78 | - | - | - | - | 5.64 | 7.79 | 29.73 | 32.00 | - | - | - | - | - | - | - |
| SE ± | | 3.53 | 2.47 | 0.37 | 0.32 | 1.65 | 0.99 | 0.89 | 0.59 | - | - | - | - | 0.63 | 0.54 | 3.89 | 4.78 | - | - | - | - | - | - | - |
| CV (%) | | 8.37 | 7.40 | 7.44 | 8.76 | 10.93 | 7.39 | 20.32 | 17.67 | - | - | - | - | 19.34 | 12.00 | 22.68 | 25.85 | - | - | - | - | - | - | - |
| CD (5%) | | 10.16 | 8.70 | 1.06 | 0.99 | 4.73 | 3.82 | 2.56 | 2.11 | - | - | - | - | 1.79 | 1.69 | 11.19 | 12.28 | - | - | - | - | - | - | - |

Annexure I-14. … Contd.

| Trait number ⟶ | | 34 | 35 | 36 | 37 | 39 | 40 | 41 | 42 | | 43 | | 44 | | 45 | | 46 | | 47 | | 48 | 49 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Serial number | ICSR number | 1000-grain mass (g) | Grain shape-dorsal view | Grain shape-profile view | Grain germ size | Endosperm texture | Albumen color | Grain lustre | Days to seedling emergence | | Leaf glossy score | | Seedling vigor score | | Plant aspect score | | Panicle yield (t ha$^{-1}$) | | Grain yield (t ha$^{-1}$) | | Plant color | Grain pericarp thickness | Grain hardness in kg by Kiya's hardness tester |
| | | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Rainy | Postrainy | Postrainy | Postrainy | Postrainy |
| 1 | 5 | 23.32 | 3 | 3 | 5 | 3 | 3 | 5 | 4 | 7 | 3.0 | 2.3 | 1.7 | 1.3 | 2.0 | 2.0 | 4.1 | 2.2 | 3.1 | 1.4 | Tan | Thin | 10.6 |
| 2 | 14 | 38.81 | 3 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 3.0 | 3.0 | 2.3 | 2.7 | 3.0 | 2.0 | 3.1 | 3.9 | 1.9 | 3.1 | Tan | Thick | 9.8 |
| 3 | 44 | 28.54 | 3 | 3 | 5 | 3 | 3 | 1 | 5 | 8 | 2.0 | 3.0 | 3.0 | 3.3 | 3.0 | 2.0 | 3.2 | 2.8 | 2.4 | 3.0 | Tan | Thin | 9.8 |
| 4 | 82 | 36.03 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.0 | 2.3 | 3.0 | 3.3 | 2.3 | 2.0 | 3.3 | 4.5 | 2.4 | 3.6 | Tan | Thin | 8.6 |
| 5 | 99 | 31.66 | 3 | 3 | 5 | 3 | 3 | 7 | 6 | 7 | 2.3 | 3.0 | 3.0 | 3.0 | 2.3 | 2.0 | 2.4 | 4.9 | 1.4 | 3.7 | Tan | Thin | 9.1 |
| 6 | 132 | 31.18 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 3.0 | 3.0 | 2.0 | 2.0 | 3.6 | 3.6 | 2.6 | 2.8 | Tan | Thin | 8.8 |
| 7 | 135 | 42.46 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 2.3 | 3.0 | 2.0 | 2.0 | 3.8 | 5.6 | 2.9 | 4.5 | Tan | Thin | 11.4 |
| 8 | 156 | 23.95 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 1.0 | 1.0 | 3.0 | 3.0 | 3.0 | 2.0 | 4.4 | 5.5 | 3.3 | 4.5 | Tan | Thin | 6.9 |
| 9 | 185 | 28.85 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 2.7 | 2.7 | 3.0 | 3.0 | 3.0 | 1.7 | 2.5 | 4.8 | 1.7 | 3.6 | Tan | Thin | 6.3 |
| 10 | 89002 | 31.74 | 3 | 3 | 5 | 3 | 3 | 7 | 5 | 7 | 3.0 | 3.0 | 2.3 | 2.0 | 3.0 | 2.0 | 3.9 | 3.9 | 2.8 | 3.2 | Tan | Thin | 5.2 |
| 11 | 89026 | 33.01 | 3 | 3 | 5 | 3 | 3 | 7 | 4 | 7 | 3.0 | 2.7 | 2.0 | 2.7 | 3.0 | 2.0 | 3.1 | 5.4 | 2.1 | 3.7 | Tan | Thick | 10.8 |
| 12 | 89055 | 30.11 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 8 | 2.7 | 3.0 | 3.3 | 3.0 | 3.0 | 2.0 | 5.9 | 4.1 | 4.3 | 2.6 | Tan | Thin | 8.6 |
| 13 | 89056 | 31.84 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 2.7 | 2.7 | 3.0 | 3.3 | 3.0 | 2.0 | 5.4 | 4.9 | 3.8 | 3.9 | Tan | Thick | 7.0 |
| 14 | 89060 | 24.27 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 8 | 1.3 | 1.0 | 3.7 | 3.3 | 2.3 | 2.0 | 2.7 | 4.6 | 1.9 | 3.9 | Tan | Thin | 8.4 |
| 15 | 89062 | 28.12 | 3 | 3 | 5 | 3 | 3 | 1 | 6 | 7 | 1.7 | 1.0 | 3.3 | 3.3 | 2.7 | 2.0 | 2.7 | 4.4 | 1.8 | 3.6 | Tan | Thin | 7.4 |
| 16 | 89070 | 27.68 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.0 | 1.3 | 3.0 | 2.7 | 2.7 | 2.0 | 4.1 | 4.0 | 3.2 | 3.1 | Tan | Thin | 8.4 |
| 17 | 90002 | 42.67 | 3 | 3 | 5 | 5 | 3 | 1 | 6 | 7 | 1.0 | 1.0 | 3.0 | 3.0 | 3.0 | 2.0 | 2.0 | 4.6 | 1.3 | 3.8 | Tan | Thin | 8.1 |
| 18 | 90013 | 23.95 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.7 | 2.3 | 3.3 | 3.0 | 3.0 | 2.0 | 3.0 | 5.2 | 1.8 | 4.2 | Tan | Thin | 9.6 |
| 19 | 90018 | 30.69 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 3.0 | 2.0 | 3.7 | 3.0 | 3.0 | 2.0 | 4.1 | 4.7 | 2.8 | 2.8 | Tan | Thin | 8.8 |
| 20 | 90019 | 23.85 | 3 | 3 | 5 | 3 | 3 | 5 | 6 | 7 | 1.7 | 1.7 | 3.3 | 3.3 | 2.7 | 1.7 | 2.7 | 4.0 | 1.8 | 3.2 | Tan | Thin | 7.1 |
| 21 | 90027 | 29.03 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 2.3 | 1.3 | 3.0 | 3.0 | 2.7 | 2.0 | 3.5 | 4.7 | 2.7 | 3.8 | Tan | Thin | 7.0 |
| 22 | 92001 | 37.04 | 3 | 3 | 5 | 3 | 3 | 5 | 5 | 7 | 3.0 | 2.7 | 3.0 | 2.7 | 3.0 | 2.0 | 3.8 | 5.4 | 2.7 | 4.5 | - | - | - |
| Control | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | CSV 4 | 28.14 | 3 | 3 | 5 | 3 | 3 | 1 | 4 | 7 | 3.0 | 2.0 | 2.3 | 2.0 | 2.7 | 2.7 | 3.7 | 1.8 | 2.8 | 1.3 | - | - | - |
| 24 | RS 29 | 28.54 | 2 | 2 | 5 | 3 | 3 | 7 | 4 | 6 | 3.0 | 2.3 | 1.3 | 1.0 | 2.3 | 2.0 | 4.7 | 5.0 | 3.6 | 3.7 | - | - | - |
| Mean | | 30.69 | - | - | - | - | - | - | 5 | 7 | 2.43 | 2.23 | 2.80 | 2.75 | 2.68 | 2.00 | 3.54 | 4.33 | 2.51 | 3.36 | - | - | - |
| SE ± | | 2.68 | - | - | - | - | - | - | 0.16 | 0.20 | 0.29 | 0.25 | 0.22 | 0.24 | 0.21 | 0.11 | 0.42 | 0.28 | 0.36 | 0.24 | - | - | - |
| CV (%) | | 15.15 | - | - | - | - | - | - | 5.37 | 4.93 | 20.34 | 19.60 | 13.68 | 14.84 | 13.58 | 9.57 | 20.73 | 11.14 | 24.72 | 12.23 | - | - | - |
| CD (5%) | | 7.64 | - | - | - | - | - | - | 0.46 | 0.53 | 0.82 | 0.75 | 0.64 | 0.65 | 0.60 | 0.48 | 1.22 | 1.19 | 1.03 | 1.00 | - | - | - |

## About ICRISAT®

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