Registration of 'Huntsman' Proso Millet

'Huntsman' (Reg. no. CV-175, PI 578074) is a white proso millet (Panicum miliaceum L.) developed cooperatively by the Nebraska Agricultural Experiment Station and the USDA-ARS. It was released for seed production in May 1994. Huntsman was selected from the cross NE79012/NE79017/'Cope'/ 'Dawn'/Common which was made in 1987 by Dr. L. A. Nelson. NE79012 is a selection from a Dawn/NE76004 cross and NE79017 is a selection from the cross Dawn/NE76010. NE76004 is a selection from a Dawn/'Min 402' cross and NE76010 is a selection from Dawn/'Panhandle'. Crosses were made and F2 seed was produced in the greenhouse during the winter of 1986–1987. Huntsman is an increase of an F4 line selected in 1988 and tested as NE870063. Huntsman was released because of its large seed, high yield potential, and late maturity.

Huntsman has a white seed coat (lemma and palea) and a compactum (closed) type panicle. The foliage is green in color and is similar to 'Sunup'.

Huntsman has been tested in Nebraska yield nurseries starting in 1988, and in regional trials from 1991 to 1993. In Nebraska trials, average grain yields of Huntsman were similar to Sunup, 7% greater than 'Rise', and 62% greater than Dawn.

Seed size of Huntsman (141 seeds g−1) is larger than other released cultivars of proso millet except 'Earlybird'. Seed weight of Huntsman averages 2% higher than Sunup and 5% higher than Rise.

Huntsman is similar in heading date to Cope, but can be harvested slightly earlier. It is significantly later in maturity than previous Nebraska releases. Heading date of Huntsman is 1.5 d later than Sunup. Dawn is generally ready for harvest at least 1 wk earlier than Huntsman.

Grain volume weight of Huntsman (732 kg m−3) is higher compared with Cope (710 kg m−3), and is generally higher than other released cultivars. Grain volume of Huntsman was not significantly different from Sunup (724 kg m−3) over the past 4 yr.

Huntsman is intermediate in plant height between Sunup and Rise. The straw strength of Huntsman is similar to Sunup and better than other cultivars with similar plant height. Huntsman is less susceptible to lodging than Panhandle, Cope, Abarr, or Snowbird.

Huntsman has shown no susceptibility to Russian wheat aphid [Diuraphis noxia (Mordvilko)]. Dawn and other lines have been attacked by head rot associated with stem boring species in the same nurseries, but Huntsman may have escaped due to preference based on relative maturity rather than resistance.

Breeder seed of Huntsman will be maintained by the Nebraska Agricultural Experiment Station. The seed classes will be breeder, foundation, registered, and certified with only one generation for each class. Huntsman will not be submitted for plant variety protection.

Registration of 'Flor de Mayo M38' Common Bean

'Flor de Mayo M38' common bean (Phaseolus vulgaris L.) was released by the Research Institute for Forestry and Agriculture (INIFAP), (Reg. no. CV-116, PI 574540) was released by the National Research Institute for Forestry and Agriculture (INIFAP), in 1994 for commercial production. It is a modified double-cross population MX 6344/22/XAN 112]. The F2 generation was mass-selected, Colombia, followed by single-plant selection and progeny testing in the F3 at Popayán, Colombia. Two F3 lines were produced and coded as MAM 38 in sweet bean seed for international distribution.

Flor de Mayo M38 possesses an indeterminate Type III growth habit, with 8 to 12 basal branches and canopy height of 40 cm. It has white flowers with cordate bracteole and ovate trifoliate leaves. It is ready to reach maturity (range 95 to 110 d). Flor de Mayo carries the dominant I gene for resistance to mosaic virus. It is highly resistant to the prevalent rust [caused by Uromyces appendiculatus (Pers. var. appendiculatus)]. It possesses tolerance to bacterial blight [caused by local isolates of Colletotrichum lindemuthianum (Sacc. & Magn.) Lams.-Scrib. from Mexico, Durango, Guanajuato, and Mexico], halo blight [caused by Pseudomonas syringae pv. phaseolicola (Burkholder et al.), common bacterial blight [caused by Xanthomonas phaseoli pv. phaseoli (Smith) Dye], and low soil pH.

Flor de Mayo M38 was tested at four to six locations each year from 1989 to 1992 in the highlands of Chihuahua to the state of Mexico. Its yield varied with location, planting date, and precipitation during the growing cycle. Because of its maturity class, Flor de Mayo M38 appears to be better adapted to early June sowing at the onset of the rainy season and to highly productive rainfed environments of the bean growing regions of the highlands. Under favorable rainfed environments of the highlands, mean yield has been above 2.0 t ha−1, being check 'Flor de Mayo Bajío' by 50%. Also, Flor de Mayo M38 outyielded all previously released cultivars in the Flor de Mayo class (classification for commercial purposes, pink speckled class (classification for commercial purposes, pink speckled)

Flor de Mayo M38 has been released without plant protection rights to organized bean growers and registered public and SARH, and is available upon request from J.A. Acosta-Gallegos, Bean Program, Valle de Mexico Experiment Station, Apdo. Postal 10, Chapingo, Mexico CP 56230.

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Flor de Mayo M38 has a medium seed size (175 g). Its seed coat color pattern makes it a cultivar. Seed samples of Flor de Mayo M38 have been tested for several location–years in the Mexican Plateau, and processed for quality traits. The average protein content of Flor de Mayo M38 is 20% on a dry-weight basis is superior to most cultivars in its class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cultivar Flor de Mayo M38 is slightly longer than that of Flor de Mayo Bajio, but is still within the class. Cooking time of cult