# Grass

## Summer
## JT-158 (Exp)
## (Amended – Name Change)

Variety Name Summer

Experimental Designation(s) JT-158

Date A&MLVRB first recommended this variety Feb 29, 2012

Date(s) any previous amendments were recommended

Date this amendment was submitted Jan 14, 2020

1. Variety name: Summer Kind: Tall fescue
   Genus: Festuca Species: arundinacea Schreb.
   Experimental designation (s): JT-158
   Date submitted: Jan 6, 2012

2. The maternal parentage of Summer derives from: 15% JT-24, 15% JT-25,12 % Quest, 10% 05-8005, 9% JT-4, 7% 03-8011, 6% Pixie, and less than 5% from each of the following: 02-8001, 02-8002, 02-8004, JT-17, Coronado, 03-8010, 05-8015, 05-8017, JT-10, and 99-8001. The Jacklin experimental lines included material from polycrosses, single plant selections and advanced test varieties that have not been publicly released. Breeding techniques in the population improvement program included selection, paired crosses and polycrosses. In 2007, the 2006 ID nursery was screened for fine leaf texture and 266 were identified out of ~40000 plants. Many of the selections were moved before anthesis to one of three polycross blocks for fine leaf texture based on plant maturity; 07-8006 (35 plants), 07-8007 (38 plants) or 07-8008 (31 plants). The remaining fine leaved selections were open pollinated. Half-sib progeny plots from the 266 selections were planted in company trials in 2007 in MD, OH, and ID. In spring 2008, 100 superior lines were selected from the 266 based on texture and quality in the turf trials. These were planted in an isolation block near Connell, WA. Fifty-eight of the lines were planted using remnant seed from their 2007 harvest and the remaining 42 lines were plugged from turf trials planted in 2007 in ID, MD, and OH. Approximated 60 plants per line were planted in a 5100-plant isolation block near Connell, WA in 2008. Summer was selected for improved fine leaf texture, density and color. This block was rogued to improve uniformity and 4074 plants were removed before anthesis based on lighter color, coarser leaf texture, low tiller density, and reduced seedhead initiation; three lines were completely removed. The remaining 1026 plants were harvested in July 2009 as Breeder seed.

3. Summer was developed for use as permanent turf in areas tall fescue is well adapted and has shown adaptation to MD, OH, ID, and UT.

| 4. Growth & Morphology Traits | Plant height (cm) 2011 | | Flagleaf height (cm) 2011 | | Panicle length (cm) 2011 | |
|---|---|---|---|---|---|---|
| | Idaho | Washington | Idaho | Washington | Idaho | Washington |
| Summer | 87.8 | 90.7 | 43.5 | 54.3 | 16.1 | 16.8 |
| Jaguar 4G | 94.7 | 95.4 | 48.6 | 57.6 | 16.8 | 18.3 |
| Quest | 101.7 | 97.0 | 53.5 | 58.4 | 18.3 | 19.0 |
| LSD (.05) | 4.8 | 4.9 | 4.5 | 4.4 | 1.7 | 1.7 |
| Variance | 17.1 | 13.1 | 26.6 | 19.1 | 29.3 | 22.9 |

Data collected from: Spaced single plants X Plants in rows/solid seeding

Variants to be expected and frequency: The frequency of variants has been less than 5% and can be identified as having earlier or later maturity, lighter color, coarser leaf texture, and taller plant height. Conspicuous variants are rogued from seed stock fields to maintain continued uniformity and stability, although they will occur in each generation.

Continued on next page (204)

Continued from previous page (203)

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| 5. Turf Use a) b) | Turf Quality | | Texture (1-9 scale, | | Brown patch (1-9 scale) | | Color (1-9 scale, | |
|---|---|---|---|---|---|---|---|---|
| | 2010-11 MD | 2010-11 OH | 2010-11 ID#2 | 2010-11 OH | 2009-11 OH | 2010-11 MD | 2009-11 ID | 2010-11 ID |
| Summer | 5.2 | 5.0 | 7.0 | 7.0 | 6.5 | 5.0 | 6.2 | 7.3 |
| Jaguar 4G | 3.7 | 3.9 | 5.0 | 5.5 | 7.0 | 3.7 | 6.8 | 6.7 |
| Quest | 3.4 | 3.3 | 5.0 | 4.5 | 8.0 | 3.3 | 5.8 | 6.0 |
| LSD (.05) | 1.3 | 1.8 | 2.3 | 1.3 | 3.1 | 3.0 | 0.9 | 1.0 |
| Variance | 21.5 | 23.6 | 19.5 | 21.2 | 16.9 | 37.6 | 9.8 | 15.5 |

6. Seed classes recognized are Foundation, Registered and Certified and the length of stand on each is 3, 3, and 6 years, respectively. Jacklin Seed by Simplot ® maintains the Breeder seed. Original Breeder seed is maintained in cold storage and if/when new Breeder seed is needed this will be planted, rogued by the plant breeder and harvested as Breeder seed.

7. Certified seed is expected to be available in July 2012. PVP will not be applied for.

Date this application was submitted: Jan 14, 2020 Date recommended by the VRB: Mar 10, 2020