Grass

Horizon
LBF (Exp)
(Amended – Name Change)

Variety Name Horizon

Experimental Designation(s) LBF

Date A&MLVRB first recommended this variety Mar 16, 2016

Date(s) any previous amendments were recommended _____

Date this amendment was submitted Jan 28, 2020

1. Variety name: Horizon Kind: Tall fescue
   Genus: Festuca Species: arundinacea
   Experimental designation (s): LBF
   Date submitted: Jan 7, 2016

2. Horizon was developed by McCarthy Research Farm LLC beginning with the selection of plants from nurseries at Verboort, Oregon. Selected plants were derived from the following varieties: Sunset Gold, Integrity, Falcon II, Gold Medallion and AST1001. Plants were grown as spaced plants in an isolated nursery. Turf performance was evaluated using plots at Verboort, Oregon and Pipersville, Pennsylvania. Subsequently, four cycles of selections were conducted to produce the first breeder seed in 2013.

3. Horizon was tested for turf use in western Oregon and in central Pennsylvania. It has shown adaptation to those climatic conditions and will be made available for sale in climates represented by those localities.

4. Growth & Morphology Traits	Heading Date (Julian Days) Verboort OR		Plant Height (cm) Verboort OR		Flag Leaf Length (cm) Verboort OR	
	2014	2015	2014	2015	2014	2015
Horizon	136.2	131.7	92.9	79.8	15.3	9.6
Bonsai	139.9	135.9	70.2	65.1	11.0	6.8
Bonanza	135.5	127.4	97.2	92.0	20.0	18.9
Mustang 4	132.3	124.3	92.8	87.8	15.0	12.1
KY-31	126.9	119.1	123.2	113.1	20.3	18.5
LSD @ 0.05	3.9	5.1	7.9	5.9	2.6	1.9
SE	1.9	2.5	3.9	2.9	1.3	0.9

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

Variants to be expected and frequency: None have been observed or documented

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5. Turf Use	2014 Turf Quality		2014 Genetic Color		2014 Leaf Density		2014 Leaf Texture	
	OR	PA	OR	PA	OR	PA	OR	PA
Horizon	7.3	7.0	7.1	6.9	7.0	6.9	7.1	7.1
Rebel II	6.4	4.2	4.1	3.8	4.0	4.3	4.1	4.2
Bonsai	5.8	4.8	6.2	4.6	5.6	4.5	6.2	4.6
Silverado	4.9	4.1	4.1	3.6	3.8	3.7	4.1	4.0
Bonanza	4.1	3.8	4.0	3.5	3.9	3.4	4.0	3.5
LSD @ 0.05	0.8	0.7	1.1	1.0	1.0	1.2	1.1	1.0
SE	0.4	0.4	0.5	0.5	0.5	0.6	0.5	0.5

Scale: 1 – 9 with 9 ideal quality or darkest green or most dense or finest texture
Trial Locations: Verboort, Oregon & Pipersville, Pennsylvania.

6. A supply of Horizon breeder seed will be kept in cold storage by McCarthy Research Farm LLC located in Verboort, Oregon. Foundation stands may only be planted from Breeder Seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Registered or Foundation Seed. Foundation and Registered class fields will be limited to four harvests of Foundation/Registered production followed by four additional harvests of Certified production. Certified class fields will be limited to ten years of seed production. Additional years of seed production may be approved by the breeder.

7. Certified seed is anticipated to be available in the fall of 2016. PVP will be sought with the certification option.

Date this application was submitted: Jan 28, 2020 Date recommended by the VRB: Mar 10, 2020