Grass

Comanche
NAI-14-176 (Exp)
(Amended – Name Change)

Variety Name Comanche

Experimental Designation(s) NAI-14-176, 14-176

Date A&MLVRB first recommended this variety Mar 13, 2019

Date(s) any previous amendments were recommended

Date this amendment was submitted Jan 8, 2020

1. Variety name: Comanche Kind: Kentucky bluegrass
   Genus: *Poa* Species: *pratensis*
   Experimental designation (s): NAI-14-176, 14-176
   Date submitted: Jan 9, 2019

2. Comanche could be diagramed as ((((PTO7*Corsair2009)*ShamrockSelections2011)*Shamrock Selections 2012)*Rubix2013)
   And further described as:
   2008: Initial collection in Logan County Oklahoma labeled "PTO7"
   2009: First generation cross and seedlings planted out for evaluation. Corsair Kentucky bluegrass was used as a pollen source.
   2010-2011: Discovery and division of a new very dark green first generation hybrid plant from the 2009 cross now labeled "COT2". COT2 is then crossed using pollen from plants of "Shamrock" Kentucky bluegrass. 55 seedlings planted into space plantings from this cross in 2011.
   2012: Selected an elite plant from among the 55 seedlings which was back crossed to "Shamrock" plants and seed was harvested and 900 seedlings were established from this cross.
   2013: A unique plant was selected from these 900 seedlings and was moved to be pollinated by plants selected from the variety "Rubix". Seed was harvested from this cross was used to establish a 600 plant space planted nursery.
   2014: The 600 plant nursery was evaluated and an elite, genetically dark green, moderately erect plant was selected and labeled NAI-14-78 and this seed harvest becomes the first breeder seed of Comanche Kentucky bluegrass and seed and vegetative propagules were both used for turf and seed multiplication and uniformity tests. Seed generated plants were considered to be identical to the mother plant Comanche in each generation tested exhibiting a high level of apomixis over 98%. Comanche is significantly earlier heading and is a shorter plant as compared to Rubix Kentucky bluegrass.

3. Comanche and its progeny are intended for turf use and have performed well in St. Paul, Oregon

4. Growth & Morphology Traits	Heading Date, Calendar Saint Paul, OR		Plant Height, cm Saint Paul, OR		Panicle Length, cm Saint Paul, OR	
	2017	2018	2017	2018	2017	2018
Comanche	May 8th	May 5th	34.9	44.7	7.1	7.8
Nugget	May 8th	May 4th	18.5	19.7	5.4	6.0
Corsair	May 16th	May 16th	24.5	28.2	4.8	7.0
Rubix	May 15th	May 14th	40.9	49.6	6.7	7.8
Shamrock	May 6th	April 30th	42.8	50.7	8.4	8.2
LSD (.05)	2.25	2.58	2.27	2.14	0.24	0.89
S.E.	1.13	1.29	1.16	1.09	0.46	0.45

Data collected from: Spaced single plants

Variants to be expected and frequency: Less than 2% may be taller and/or may be genetically lighter green

Continued on next page (179)

Continued from previous page (178)

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5. Turf Use	Turf Quality		Density		Genetic Color		Spring Greenup	
a)	Saint Paul, OR		Saint Paul, OR		Saint Paul, OR		Saint Paul, OR	
b)	2017	2018	2017	2018	2017	2018	2017	2018
Comanche	6.6	6.8	7.0	6.8	7.5	7.5	7.3	7.3
Midnight	7.3	6.8	6.8	6.7	6.8	6.7	5.0	5.7
Corsair	6.3	5.8	7.2	6.2	7.5	7.3	7.0	7.0
Rubix	5.7	6.3	7.3	7.0	5.5	5.9	8.0	7.7
Shamrock	5.7	5.2	5.3	5.8	5.5	5.4	6.0	5.7
LSD (.05)	0.80	0.58	0.66	0.72	0.65	0.73	0.79	0.92
S.E.	0.41	0.29	0.33	0.37	0.33	0.37	0.39	0.45

●Scale used to report traits (if appropriate): All turf data was recorded on a scale of 1-9, 9 equals best or most

6. Breeder seed of Comanche was first produced in 2014. Breeder seed is being maintained by Novel AG, Inc. in St. Paul, Oregon in frozen storage and may be increased as determined by the breeder. Subsequent generations of seed increase shall follow breeder seed as foundation, registered and certified. Foundation class production fields established from breeder seed can be harvested for foundation seed for a maximum of 4 years. Registered class production fields may be established from breeder or foundation seed and can be harvested for a maximum of 4 years. Certified class production fields established from breeder, foundation or registered seed will be limited to 4 years off seed production. Additional years of seed production may be approved by Novel AG, Inc. on a case by case basis.

7. If Comanche is accepted by AOSCA, Limited seed may be made available for sale in the fall of 2019. PVP is likely to be applied for. The Certified only option will not be selected.

Date this application was submitted: Jan 8, 2020 Date recommended by the VRB: Mar 10, 2020