

Minnesota – Urban Site

Total living turf cover [Total Cover (TC)] for Fall 2016, Spring 2017, Fall 2017 and Spring 2018; and percent total cover change from 2016 to 2017 (2016-2017 % TC Change) and percent total cover change from 2017 to 2018 (2017-2018 % TC Change). When treatment F tests were significant ($p \leq 0.05$), the Fisher's Protected Least Significant Difference Test ($\alpha = 0.05$) was used to separate means. For % TC Change (when significant), **the most positive value within a column is shaded blue**, while **the most negative value within a column is shaded red**. Remaining cells are shaded in a blue-purple-red gradient with **zero shaded purple**. Negative values indicate a reduction in turf coverage of desired species, whereas a positive value means the turf coverage of the plot increased.

This site was seeded 8/26/2016. The soil type was Kingsley sandy loam with 3.5% organic matter. Plots were irrigated using a drip irrigation system supplied by a fire hydrant during establishment at a rate of 3.6 mm of water per day.

Turfgrass Entry	Species ¹	Fall 2016	Spring 2017	2016-2017	Fall 2017	Spring 2018	2017-2018
		Total Cover (TC)	Total Cover (TC)	% TC Change	Total Cover (TC)	Total Cover (TC)	% TC Change
BAR PD06N17	AL	98.3	85.6	-12.8	7.8	1.1	-6.7
BAR PD9032	AL	89.5	83.9	-5.6	7.8	12.2	4.4
Fults	AL	97.8	85.0	-12.8	33.3	7.2	-26.1
Salton Sea	AL	89.4	71.7	-17.8	19.4	5.6	-13.9
SeaSalt	AL	86.7	90.0	3.3	12.8	5.0	-7.8
Oceania Maritima	AM	91.6	76.1	-15.5	23.3	11.7	-11.7
Castle	CH	98.9	82.2	-16.7	96.1	1.1	-95.0
Compass II	CH	96.1	91.1	-5.0	84.4	3.3	-81.1
FRC 43 M2	CH	97.2	95.0	-2.2	92.2	6.7	-85.6
Heathland	CH	99.4	90.0	-9.5	86.1	29.4	-56.7
Beacon	HD	98.9	95.0	-3.9	96.7	5.0	-91.7
Gladiator	HD	97.8	92.2	-5.6	63.9	8.3	-55.6
Nanook	HD	97.2	94.5	-2.8	75.0	13.9	-61.1
Soil Guard	HD	93.3	90.6	-2.8	92.8	9.4	-83.3
Sword	HD	96.7	94.5	-2.2	85.0	26.1	-58.9
Barduke	KB	93.9	18.9	-75.0	65.6	2.8	-62.8
J-525	KB	98.3	47.8	-50.6	65.0	7.8	-57.2
J-793	KB	98.3	82.8	-15.5	80.6	28.9	-51.7
J-920	KB	97.8	32.2	-65.6	80.6	5.6	-75.0
Milagro	KB	96.7	36.7	-60.0	58.9	0.6	-58.3
Morocco	KB	100.0	56.1	-43.9	90.0	21.1	-68.9
Tirem	KB	90.6	46.1	-44.4	70.0	0.0	-70.0
Volt	KB	97.2	11.7	-85.6	50.6	6.7	-43.9
16-14-Lp 145	PR	96.7	21.1	-75.5	66.7	0.0	-66.7
BAR Lp 10970	PR	100.0	25.6	-74.4	57.8	0.6	-57.2
Gray Fox	PR	100.0	20.0	-80.0	40.0	0.0	-40.0
Premium	PR	91.1	47.8	-43.3	89.4	0.6	-88.9
Replicator ²	PR	98.3	1.1	-97.2	25.0	0.6	-24.4

Stellar	PR	100.0	22.8	-77.2	59.4	0.0	-59.4
BAR BIF 1GRL	SB	100.0	94.4	-5.6	37.2	0.0	-37.2
Blue Mesa	SH	98.3	93.3	-5.0	83.3	1.1	-82.2
J-248	SH	97.2	96.1	-1.1	91.7	22.8	-68.9
Quatro	SH	96.1	88.9	-7.2	73.9	7.8	-66.1
10RT DE	SL	100.0	96.1	-3.9	86.7	30.0	-56.7
Sea Mist	SL	98.9	97.2	-1.7	91.1	21.1	-70.0
Seabreeze GT	SL	98.9	96.1	-2.8	89.4	40.6	-48.9
Shoreline	SL	99.4	92.2	-7.2	92.2	46.7	-45.6
FRR 72 M2	ST	95.6	97.2	1.6	95.0	28.9	-66.1
Kent	ST	98.9	97.2	-1.6	96.1	52.8	-43.3
Navigator II	ST	96.7	95.6	-1.1	86.7	46.1	-40.6
Ruddy	ST	96.7	97.8	1.1	97.8	35.0	-62.8
Xeric	ST	98.3	93.4	-5.0	94.4	30.0	-64.4
Avenger II	TF	100.0	89.4	-10.6	80.0	1.1	-78.9
Birmingham	TF	99.4	91.1	-8.3	88.3	2.2	-86.1
Black Tail	TF	99.4	82.8	-16.7	94.4	0.6	-93.9
Fayette	TF	90.5	86.7	-3.9	78.9	0.0	-78.9
JT-621	TF	99.4	93.9	-5.5	85.6	0.0	-85.6
MNKY	TF	97.8	82.2	-15.5	77.8	0.0	-77.8
Saltillo	TF	100.0	93.9	-6.1	93.3	0.0	-93.3
Thunderstruck	TF	98.3	80.5	-17.8	89.4	0.0	-89.4
MI DOT THV	MX	99.4	97.8	-1.7	95.0	35.0	-60.0
MI DOT TUF	MX	100.0	98.3	-1.7	88.9	35.6	-53.3
MN DOT 25-131	MX	99.4	96.7	-2.8	92.8	34.4	-58.3
MN DOT MNST-12	MX	89.4	96.7	7.2	93.3	27.8	-65.6
NE DOT Rural Region 2	MX	98.9	33.9	-65.0	55.0	0.0	-55.0
NE DOT Urban and Turf	MX	97.8	83.3	-14.4	99.4	5.6	-93.9
NJ DOT A-4	MX	98.9	91.7	-7.2	95.6	41.7	-53.9
NJ DOT Type B	MX	100.0	89.5	-10.5	97.8	11.1	-86.7
WI DOT #20	MX	100.0	86.7	-13.3	96.1	2.8	-93.3
WI DOT #40	MX	97.2	86.1	-11.1	97.2	47.8	-49.4
LSD 0.05		7.2	21.3	22.5	30.8	14.4	32

¹Species tested include: AL = alkaligrass (*Puccinellia distans*); AM = seaside alkaligrass (*Puccinellia maritima*); CH = Chewings fescue (*Festuca rubra* ssp. *fallax*); HD = hard fescue (*Festuca brevipila*); KB = Kentucky bluegrass (*Poa pratensis*); PR = perennial ryegrass (*Lolium perenne*); SB = smooth brome grass (*Bromus inermis*); SL = slender creeping red fescue (*Festuca rubra* ssp. *littoralis*); ST = strong creeping red fescue (*Festuca rubra* ssp. *rubra*); TF = tall fescue (*Schedonorus arundinaceus*); MX = DOT-specified mixtures. Mixture components can be found at <http://roadsideturf.umn.edu/regional-roadside-state-mixtures>.

²Tetraploid perennial ryegrass