The Rutgers Turfgrass Proceedings is published yearly by the Rutgers Center for Turfgrass Science, Rutgers Cooperative Extension, and the New Jersey Agricultural Experiment Station, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey in cooperation with the New Jersey Turfgrass Association. The purpose of this document is to provide a forum for the dissemination of information and the exchange of ideas and knowledge. The proceedings provide turfgrass managers, research scientists, extension specialists, and industry personnel with opportunities to communicate with co-workers. Through this forum, these professionals also reach a more general audience, which includes the public.

This publication includes lecture notes of papers presented at the 2007 New Jersey Turfgrass Expo. Publication of these lectures provides a readily available source of information covering a wide range of topics and includes technical and popular presentations of importance to the turfgrass industry.

This proceedings also includes research papers that contain original research findings and reviews of selected subjects in turfgrass science. These papers are presented primarily to facilitate the timely dissemination of original turfgrass research for use by the turfgrass industry.

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Dr. Ann Brooks Gould, Editor
Dr. Bruce B. Clarke, Coordinator
Increased use of sports fields and other recreational sites presents a difficult challenge for turfgrass managers responsible for maintaining uniform and safe natural playing surfaces. Establishment of traffic stress tolerant cultivars of Kentucky bluegrass (Poa pratensis L.) and tall fescue (Festuca arundinacea Schreb.), or mixtures of the two species, can help sports field managers maximize the safety and playability of sports fields.

Kentucky bluegrass is frequently established on lawns, parks, cemeteries, institutional grounds, and other comparable general purpose lawn areas; its vigorous rhizome development makes Kentucky bluegrass well-adapted for use on sports fields and other heavily trafficked surfaces (Beard, 1973). Puthalla et al. (1999) notes that Kentucky bluegrass is one of the most commonly used turfgrass species in sports fields grown in cool season climates.

Over 30 years ago, tall fescue was recognized for its wear tolerance and its adaptation for use on intensively trafficked sports fields and playgrounds in the transitional zone between the cool and warm humid regions of the United States. Its coarse leaf texture, formation of turfgrass stands with very low shoot density, and inability to blend well with other commonly used cool-season turfgrasses, however, were attributes that led turfgrass managers to establish other turfgrasses in areas where a high quality turf was desired (Beard, 1973). Since the release of the cultivar Rebel in 1979 (Funk et al., 1981), turfgrass breeders have continued to improve the turfgrass quality of tall fescue by producing cultivars with a darker color, finer leaf texture, lower growth habit, denser turf canopy, and increased resistance to disease. The result is that new tall fescue cultivars can now be used for lawns, parks, and sports fields without compromising turfgrass quality (Bokmeyer et al., 2007).

Excessive foot traffic on cool-season turfgrasses established on recreational sites can lead to major damage (Carrow and Petrovic, 1992), particularly when these sites are used as athletic fields. Minner et al. (1993) notes that traffic is the most frequent and damaging stress to turfgrasses used as a sports turf. Researchers have recognized the inherent challenges associated with managing high-traffic sports fields; thus, many research efforts have been focused on turfgrass traffic tolerance (Hacker, 1987; Minner et al., 1993; Shearman and Beard, 1975; Taivalmaa et al., 1998). Beard (1973) characterized traffic and identified the following stresses as components of traffic: wear, soil compaction, divoting, and soil displacement. Wear injury affects aboveground plant parts and is defined as the immediate result of the crushing, tearing, and shearing actions of foot and vehicular traffic; soil compaction is a chronic stress associated with increased soil bulk density, loss of soil structure, and reduced aeration, water infiltration, and water storage (Beard et al., 1974; Shearman, 1988). Soil displacement and divoting can often contribute to a decline in the quality of sports field surfaces; however these stresses have not typically been assessed in research.

Many traffic simulators have been developed (Bourgoin and Mansat, 1982; Cockerham and Brinkman, 1989; Evans, 1988; Henderson et al., 2005; Shearman et al., 1974; Younger, 1961). Most of the simulators developed mimic the effects of trampling, which imparts wear and compaction of soil (Bourgoin and Mansat, 1982; Cockerham and Brinkman, 1989;
Evans, 1988; Henderson et al., 2005; Taivalmaa et al., 1998). Recently, Vanini et al. (2007) compared the severity of traffic effects (wear and compaction) on Kentucky bluegrass produced by the simulators developed by Cockerham and Brinkman (1989) and Henderson et al. (2005). Shearman and co-workers (1974) developed a wear simulator for small plot evaluations that resulted in wear injury without soil compaction. Although very effective, these wear/traffic simulators were not designed to travel across large numbers of turf plots in a relatively short period of time. Bonos et al. (2001) described a wear simulator designed to quickly and uniformly apply wear to a large number of turfgrass evaluation plots. Turfgrass species differ greatly in their ability to withstand the abrasion and compaction of traffic (Gaussoin, 1994). Wear tolerance of turfgrass species and mixtures has been evaluated by a number of researchers (Bourgoin and Mansat, 1982; Canaway, 1981; Fushtey et al., 1982; Taivalmaa et al., 1998). Evaluation of cultivars within a particular species has also been conducted (Bonos et al., 2001; Evans, 1988; Minner et al., 1993; Wood and Law, 1972).

Recently, several studies have been conducted to assess the wear tolerance of newer Kentucky bluegrass cultivars (Brosnan et al., 2005; Lathrop et al., 2002; Park et al., 2004; Park et al., 2005); however, efforts have only begun to assess the effect of the time of year on the wear tolerance of Kentucky bluegrass. Park et al. (2007) reported on the effect of fall-applied wear on cultivars and selection comprising the 2005 National Turfgrass Evaluation Program (NTEP) Kentucky Bluegrass Test.

There is limited information available regarding the traffic (wear and compaction) tolerance of newer tall fescue cultivars. Park et al. (2004) identified numerous cultivars and selections comprising the 2001 NTEP Tall Fescue Test that had improved tolerance to simulated wear and compaction applied in 2002 and 2003. Additionally, the 2001 NTEP tall fescue test was assessed under traffic stresses using the traffic simulator described by Cockerham and Brinkman (1989) in Michigan (Bughrara, 2007). These researchers have not examined the effect of time of year on the traffic tolerance of tall fescue.

Kentucky bluegrass and tall fescue cultivar recommendations are needed for sports fields that receive play at a specific time of the year (spring, summer, or fall). The objectives of these studies were to assess the wear tolerance and recovery of Kentucky bluegrass during summer and the traffic (wear and compaction) tolerance of tall fescue in fall.

**MATERIALS AND METHODS**

**Kentucky Bluegrass Evaluation Trial**

Entries of the 2005 NTEP Kentucky bluegrass trial, established in September 2005, were evaluated for wear tolerance and recovery during July through September 2007. Wear was previously applied to this test in October 2006 (Park et al., 2007). The test was conducted on a well-drained Nixon sandy loam at the Horticultural Research Farm II in North Brunswick, NJ. Individual plot size was 9 x 5 ft. Soil test results from April 2007 indicated that the soil pH was 6.0; soil phosphorous was 291 lb/acre; and soil potassium was 214 lb/acre. The test was mowed 2 to 3 times per week with a reel mower at a height of 1.5 inches. The test was irrigated as necessary to avoid drought stress. Annual nitrogen applications for 2007 totaled 4.0 lb/1000 ft\(^2\). Annual K\(_2\)O applied to the test area was 1.4 lb/1000 ft\(^2\). The experimental design was a randomized complete block design with three replications.

**Wear Simulation on Kentucky Bluegrass**

The wear simulator used was a modified version of the M24C5A Sweepster described by Bonos et al. (2001). The simulator was operated at a ground speed of 2.5 mph and at 250 rpm for the paddles. Wear treatments were applied on 25, 26, and 27 July 2007 to the 1/3rd portion of each plot that received wear in October 2006. Six passes were made on each of the three application dates; every other pass was made in the opposing direction of the previous pass.

**Evaluation of Kentucky Bluegrass**

Each plot was rated throughout the growing season for visual turf quality (i.e., overall appearance, turf color, uniformity, density, mowing quality, reduced rate of vertical growth, leaf texture, and damage due to insects or diseases). Spring green-up, seedhead development, leaf spot susceptibility, and drought tolerance were also rated as separate characteristics. A 1 to 9 scale was utilized for all ratings, where 9 represented the best turf characteristic.
Plots were rated for percent (fullness) turfgrass cover immediately before the initiation of wear using a 0 to 100% scale, where 0 represented the absence of a turfgrass canopy and 100% equaled full cover. Fullness of cover was rated after 6, 12, and 18 passes of the wear simulator to assess wear tolerance. Fullness of cover was also rated at 10, 19, and 56 days after wear (DAW) to assess turfgrass recovery. Turfgrass bruising injury was assessed at 10 and 20 DAW on a 1 to 9 scale, where a 9 represented no discoloration (bruising). All data were subjected to analysis of variance and means were separated using the Fisher’s protected least significant difference.

Tall Fescue Evaluation Trial

Entries of the 2006 NTEP tall fescue trial, as well as the following commercially-available tall fescue blends: Pennington’s Best (Forte [33%], Prospect [33%], and Signia [33%]) and Water Saver (Labarinth (RTF) tall fescue [34%), Aztec II [24%], Focus [20%], and Rendition [20%]) were evaluated for traffic tolerance during October through November 2007. The test was established in September 2006 on a well-drained Nixon sandy loam at the Rutgers Horticultural Research Farm II in North Brunswick, NJ. Plot size was 6 ft x 5 ft. Soil test results from November 2007 indicated that the soil pH was 5.9; soil phosphorous was 105 lb/acre; and soil potassium was 302 lb/acre. The test was mowed 1 to 2 times a week with a rotary mower at a height of 2.5 inches. The test was irrigated as necessary to avoid drought stress. Annual nitrogen applications for 2007 totaled 4.0 lb/1000 ft2. The experimental design was a randomized complete block design with three replications.

Traffic Simulation on Tall Fescue

Both wear and compaction stresses (traffic) were applied to the trial. The wear simulator discussed previously was used to apply wear. A total of 24 passes of the wear simulator were applied over 3 days (8 passes on 2 October; 8 passes on 3 October; and 8 passes on 4 October 2007) to one-half of each plot. Every other pass was made in the opposing direction of the previous pass.

Ten passes of a 1264-kg vibratory pavement roller (vibratory function engaged) were applied on 10 October 2007 to compact the soil over the same portion of the plots that wear was applied. Similar to wear application, every other pass was made in the opposing direction of the previous pass.

Evaluation of Tall Fescue

To assess turfgrass establishment, each plot was rated in the fall of 2006 for live cover (0 to 100%, where 100% = full live cover). The test was rated throughout the growing season for visual turf quality (i.e., overall appearance, turf color, uniformity, density, mowing quality, reduced rate of vertical growth, leaf texture, and damage due to insects or diseases). Spring green-up and susceptibility to brown patch were also rated as separate characteristics in 2007. A 1 to 9 scale was utilized for all ratings, where 9 represented the best turf characteristic.

RESULTS AND DISCUSSION

Kentucky Bluegrass

Non-wear assessment of Kentucky bluegrass. Kentucky bluegrass cultivars and selections with the best turfgrass quality (2006, 2007, and averaged for 2006 and 2007) included Midnight II, Nu Destiny, J-2870, Excursion, Impact, Midnight, Beyond, J-2399, Everest, Award, J-1466, Everglade, J-1326, NA-3248, J-2024, and J-2404 (Table 1). The poorest turf quality in 2006, 2007, and for the 2006/2007 average was exhibited by Kenblue and DLF 76-9075; turf quality for Reveille displayed in 2006 and for the 2006/2007 average was also poor (Table 1).

Drought tolerance was good for numerous cultivars and selections in late summer 2007 (Table 2). Commercially available cultivars with the best drought tolerance (based on the 2007 average) were Award, Mystere, Beyond, Starburst, Rugby II, Belissimo, America, Skye, Excursion, Blueberry, Impact, Princeton 105, Nu Destiny, Bluestone, Kenblue, Washington, Midnight, Rhythm, NuGlade, Barrister, Pinot, Everest, Spitfire, Zinfandel, Glenmont, Reveille, Corsair, Argos, Touche, Prosperity, Midnight II, Blue Note, Volt, and Avid. Harmonie and CP 76-9068 were the most sensitive to drought stress in 2007 (Table 2).
Other cultivars and selections with an unacceptable drought stress tolerance rating (average 2007 rating < 6.0) included CPP 822, SW AG 514, Julia, Bariris, DP 76-9066, CPP 821, Dynamo, J-2791, and CPP 817.

Early green-up (April 2007) was evident for Mystere, Diva, Starburst, Wild Horse, Skye, Kenblue, Belissimo, America, and Washington (Table 2). Park et al. (2007) reported that Kenblue and Mystere had the earliest green-up in April 2006. This characteristic was poor for 34 cultivars and selections in 2007 (Table 2); among these, Shortell et al. (2005) identified Impact, NuGlade, J-2791, Barrister, Award, Nu Destiny, Bluestone, Midnight II, Everglade, Beyond, Excursion, Midnight, Rhythm, and Everest as Compact-Midnight Type cultivars. Bonos et al. (2004) reported that Kentucky bluegrass cultivars comprising the Compact-Midnight Type have long winter dormancy and display a purple and/or straw coloration during prolonged dormant periods.

Seedhead formation assessed on 18 May 2007 indicated that Baron, BAR VV 9630, BAR VV 9634, and BAR VV 8536 had the greatest number of seedheads (Table 2). In addition, the level of seedheads produced by Bandera, A98-689, and PST-101-390 was unacceptable (seedheads < 6.0) (Table 2). Baron is classified as a BVMG (Baron, Victa, Merit, and Gnome); seedhead formation and stemminess is a common characteristic of cultivars within this type (Bonos et al., 2004).

Assessment of Kentucky Bluegrass subjected to wear. Fullness of turfgrass cover after 18 passes of the wear simulator (wear tolerance) on 27 July 2007 was greatest for Harmonie, CP 76-9068, CPP 822, CPP 821, Julia, NA-3257, and Bariris (Table 3). These cultivars and selections were also among the most wear tolerant after fall wear on 9 October 2006 (Table 3). The cultivars with the greatest density before wear on 25 July 2007 included Harmonie, Julia, Everglade, Bariris, Impact, Excursion, Award, Dynamo, Skye, Washington, Touche, and Spitfire (CP 76-9068, CPP 821, CPP 822, NA-3257 were selections within this grouping) (Table 3). The performance characteristics of Julia and Bariris were consistent with a previous report (Park et al., 2004).

The least fullness of turfgrass cover (poorest wear tolerance) after 18 passes of wear in 2007 was observed in plots of Zinfandel, A01-299, America, H98-701, STR 2553, PSG 366, A99-2377, 1QG-38, A95-410, A99-3119, A00-247, and DLF 76-9075 (Table 3). In addition, Zinfandel, A01-299, and PSG 366 were the lowest ranked before wear on 25 July 2007 (Table 3). DLF 76-9075 was the lowest ranked selection in the trial for fall-applied wear in 2006.

Julia, BAR VV 0709, CP 76-9068, CPP 821, Bariris, Harmonie, Emblem, SW AG 514, CPP 822, PST-1A1-899, and NA-3248 had the greatest fullness of cover (best recovery) at 56 DAW (21 September 2007) (Table 4). Park et al. (2005) reported that Julia Type cultivars were among the best performing types under simulated wear and compaction. In 2007, Zinfandel, H98-701, PSG 366, America, A01-299, Volt, CPP 817, MSP 3722, and Corsair had the poorest recovery among all cultivars and selections at 56 DAW (Table 4). In comparison, DLF 76-9075 and Kenblue were the lowest ranked cultivars for recovery when fullness of cover was assessed 42 DAW in 2006.

Bruising following summer-applied wear (20 DAW in 2007) was greatest for Harmonie, CPP 817, A93-201, and PSG 366 (Table 4), and unacceptable levels of bruising 20 DAW (bruising < 6.0) were observed on Bariris, Skye, Bandera, Dynamo, Spitfire, Bluestone, Blue Note, Shiraz, Glenmont, America, Baron, Corsair, Argos, Shamrock, Zinfandel, Aviator, Wild Horse, and Volt (Table 4). Unacceptable bruising 22 DAW in 2006 (31 October 2006) and 20 DAW in 2007 (16 August 2007) were observed on A99-3122, CPP 822, DLF 76-9075, DP 76-9066, Harmonie, J-2791, and CP 76-9068.

Based on 2007 data, the inability of entries to tolerate drought stress (assessed in the absence of wear) appears to be associated with entries that also had symptoms of bruising after wear. All entries with an average drought stress rating of < 6.0 (Table 2) sustained unacceptable bruising (< 6.0) at 20 DAW (Table 4). Thus, the superior wear tolerance observed for Bariris, Harmonie, CPP 821, CP 76-9068, and CPP 822 was offset by poor drought stress tolerance in the absence of wear and unacceptable levels of bruising after wear in summer 2007 (Harmonie, CPP 822, and CP 76-9068 had unacceptable bruising in 2006 as well). Additional irrigation to manage these drought and bruising symptoms on sports fields may be necessary for these entries; these additional irrigation demands may interfere with field use. Interestingly, while Julia also exhibited drought stress symptoms (Table 2), these symptoms did not translate into unacceptable bruising after wear (Table 4).
Tall fescue

Non-wear assessment of tall fescue. Tall fescue cultivars and selections with the greatest average turfgrass quality in 2007 included Bullseye, Monet, Z-2000, SC-1, MVS-MST, ATM, TG 50-9460, RK 5, IS-TF-154, RKCL, DP 50-9440, NA-BT-1, Hemi, Turbo, PST-5WMD, Speedway, ATE, Rambler, and RP 3 (Table 5). The poorest performing entry was Kentucky 31. Poor turfgrass quality exhibited by Kentucky 31 has been widely reported in other research trials (Bokmeyer et al., 2005; Bokmeyer et al., 2006; Bokmeyer et al., 2007; Park et al., 2004; Wilson et al., 2004).

Tall fescue establishment was best (greater fullness of cover on 4 October 2006) for Millennium SRP, Monet, K06-WA, Lindbergh, Plato, RK 4, CE-2, CE-4, RK 5, and SH 3 (Table 5). The least fullness of cover was exhibited by IS-TF-138, J-130, 312, BGR-TF2, PSG-RNDR, and Pennington’s Best. The earliest green-up in the spring (25 April 2007) occurred on plots of Kentucky 31, Rembrandt, CE 1, CE-4, 06-DUST, Biltmore, Einstein, and GO-1BFD (Table 5). Spring green-up was very slow for 71 one entries, included Lindbergh, Bullseye, Speedway, Cezanne, Turbo, Tahoe II, SR 8650, Tulsa III, Aristotle, Skyline, Pennington’s Best, and Hunter.

Brown patch was not as severe for 72 entries on 24 July 2007 compared to others in this test; these included SR 8650, Millennium SRP, Rambler, Van Gogh, Firenza, Hemi, Bullseye, Monet, Escalade, Titanium, Justice, Speedway, Cezanne, Turbo, Tahoe II, Rebel IV, Pennington’s Best, Magellan, and Skyline (Table 5). Three selections, NA-BT-1, PST-5WMD, and RK 6, displayed no disease symptoms (brown patch = 9) under modest disease pressure. The greatest incidence of brown patch occurred on DKS, AST 7003, Hunter, 312, PSG-TTST, Kentucky 31, Biltmore, Einstein, Padre, Water Saver, AST-3, Plato, KZ-1, AST 7002, GO-1BFD, Col-M, AST-2, Col-J, ATF 1247, Tulsa III, and ATF 1328 (Table 5).

Assessment of tall fescue subjected to traffic. The greatest fullness of cover (best wear tolerance) after 24 wear passes at 5 DAW was recorded for SC-1, SH 3, MVS-MST, Bullseye, Z-2000, Firenza, ATM, IS-TF-154, Hemi, Rambler, Monet, K06-WA, RP 3, IS-TF-153, IS-TF-128, and Turbo (Table 6). This rating was less than 50% after 24 passes of wear at 5 DAW for Plato, Silverado, 312, Col-J, PSG-RNDR, Pennington’s Best, Aristotle, Water Saver, BAR Fa 6363, and Kentucky 31. Thirty-nine entries were ranked in the top statistical category for traffic tolerance (greatest fullness of cover) at 21 DAC and included the commercially available entries Rebel IV, Firenza, Titanium, Bullseye, Hemi, Turbo, Monet, Padre, SR 8650, Biltmore, Rembrandt, and Escalade (Table 6). Park et al. (2004) reported that both Padre and Escalade had superior traffic tolerance after applications of wear and compaction in 2002 and 2003.

The poorest traffic tolerance at 21 DAC was exhibited by Kentucky 31, BAR Fa 6363, 312, LS-11, Hunter, Water Saver, Pennington's Best, PSG-RNDR, JT-33, KZ-1, BAR Fa 6253, JT-36, STR-8GRQR, ATF 1328, NA-SS, GWTF, IS-TF-135, and IS-TF-151 (Table 6). In addition, Kentucky 31 had the lowest fullness of turfgrass cover after 24 passes of wear at 5 DAW (Table 6) and had very poor traffic tolerance in a previous trial (Park et al., 2004).

The entries with the best average turf quality (without traffic) in 2007 and the greatest fullness of cover after wear (5 October) and 21 DAC included Bullseye, Monet, Z-2000, SC-1, ATM, IS-TF-154, RKCL, Hemi, Turbo, and RP 3 (Tables 5 and 6).

CONCLUSIONS

Variation among Kentucky bluegrass and tall fescue cultivars and selections for fullness of cover after simulated traffic stresses was observed in 2007. Cultivars with better performance under traffic stress should be included in seed blends and mixes for sports fields. Further research will help to identify whether cultivar selection needs to consider the season(s) of use/play. Several Kentucky bluegrass cultivars and selections with very good wear tolerance had greater sensitivity to drought stress in the absence of wear and were severely bruised after wear. This characteristic may be unacceptable, and additional irrigation will likely be required to avoid these symptoms. Thus, turf managers may need to consider fullness of cover, drought stress and bruising data as part of the cultivar selection process for Kentucky bluegrass.

REFERENCES


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Table 1. Performance of Kentucky bluegrass cultivars and selections in a turf trial established in September 2005 at North Brunswick, NJ. (Includes all entries of the 2005 National Turfgrass Evaluation Program (NTEP) Kentucky Bluegrass Test.)

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LSD at 5% =

|          | 0.9 | 1.0 | 1.1 | 1.9 | 1.6 | 1.7 | 1.8 | 1.7 |

\[9 = \text{best turf quality}\]
Table 2. Drought stress, spring green-up, and leaf spot and seedhead severity of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 2005 at North Brunswick, NJ. (Includes all entries of the 2005 National Turfgrass Evaluation Program (NTEP) Kentucky Bluegrass Test.)

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LSD at 5% = 1.1, 1.2, 1.4, 0.9, 1.4, 1.8

<sup>1</sup>9 = least drought stress  
<sup>2</sup>9 = least disease  
<sup>3</sup>9 = fewest seedheads  
<sup>4</sup>9 = earliest spring green-up
Table 3. Wear tolerance (fullness of turfgrass cover) of Kentucky bluegrass cultivars and selections subjected to wear in a turf trial seeded in September 2005 at North Brunswick, NJ. (Includes all entries of the 2005 National Turfgrass Evaluation Program (NTEP) Kentucky Bluegrass Test.)

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LSD at 5% = 14.1 10.7 8.1 10.5 12.0 10.8

1 Wear tolerance assessed as percent (fullness) of turfgrass cover using a 0 to 100% scale (0 = absence of turfgrass canopy to 100 = full cover).
Table 4. Recovery and bruising injury of Kentucky bluegrass cultivars and selections subjected to simulated wear in a turf trial seeded in September 2005 at North Brunswick, NJ. (Includes all entries of the 2005 National Turfgrass Evaluation Program (NTEP) Kentucky Bluegrass Test.)

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LSD at 5% = 11.9 12.6 12.9 10.5 1.7 1.5 1.0 1.1 1.3

1. Recovery from wear assessed as percent (fullness) of turfgrass cover using a 0 to 100% scale (0 = absence of turfgrass canopy to 100 = full cover)
2. 9 = least bruising (discoloration resulting from wear)
### Table 5. Performance of tall fescue cultivars and selections in a turf trial seeded in September 2006 at North Brunswick, NJ. (Includes all entries of the 2006 National Turfgrass Evaluation Program (NTEP) Tall Fescue Test.)

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LSD at 5% =

|                  | 1.0 | 1.9 | 1.9 | 1.8 | 1.2 | 1.3 | 1.5 | 12.7 | 2.2 | 1.8 |

1^9 = best turf quality
2^Establishment (percent) using a 0 to 100% scale, where 0 = absence of turf canopy to 100 = full cover
3^9 = earliest spring green-up
4^9 = least disease
Table 6. Traffic stress tolerance (fullness of turfgrass cover) of tall fescue cultivars and selections subjected to wear and compaction in a turf trial established in September 2006 at North Brunswick, NJ. (Includes all entries of the 2006 National Turfgrass Evaluation Program (NTEP) Tall Fescue Test.)

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LSD at 5% = 10.0, 10.9, 8.1, 5.9, 5.9, 11.5

<sup>1</sup>Traffice stress tolerance assessed as percent (fullness) of turfgrass cover using a 0 to 100% scale (0 = absence of turfgrass canopy to 100 = full cover)

<sup>2</sup>DAC = days after compaction

<sup>3</sup>DAW = days after wear
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