



Ritorno al Naturale

Inversione di tendenza del football americano



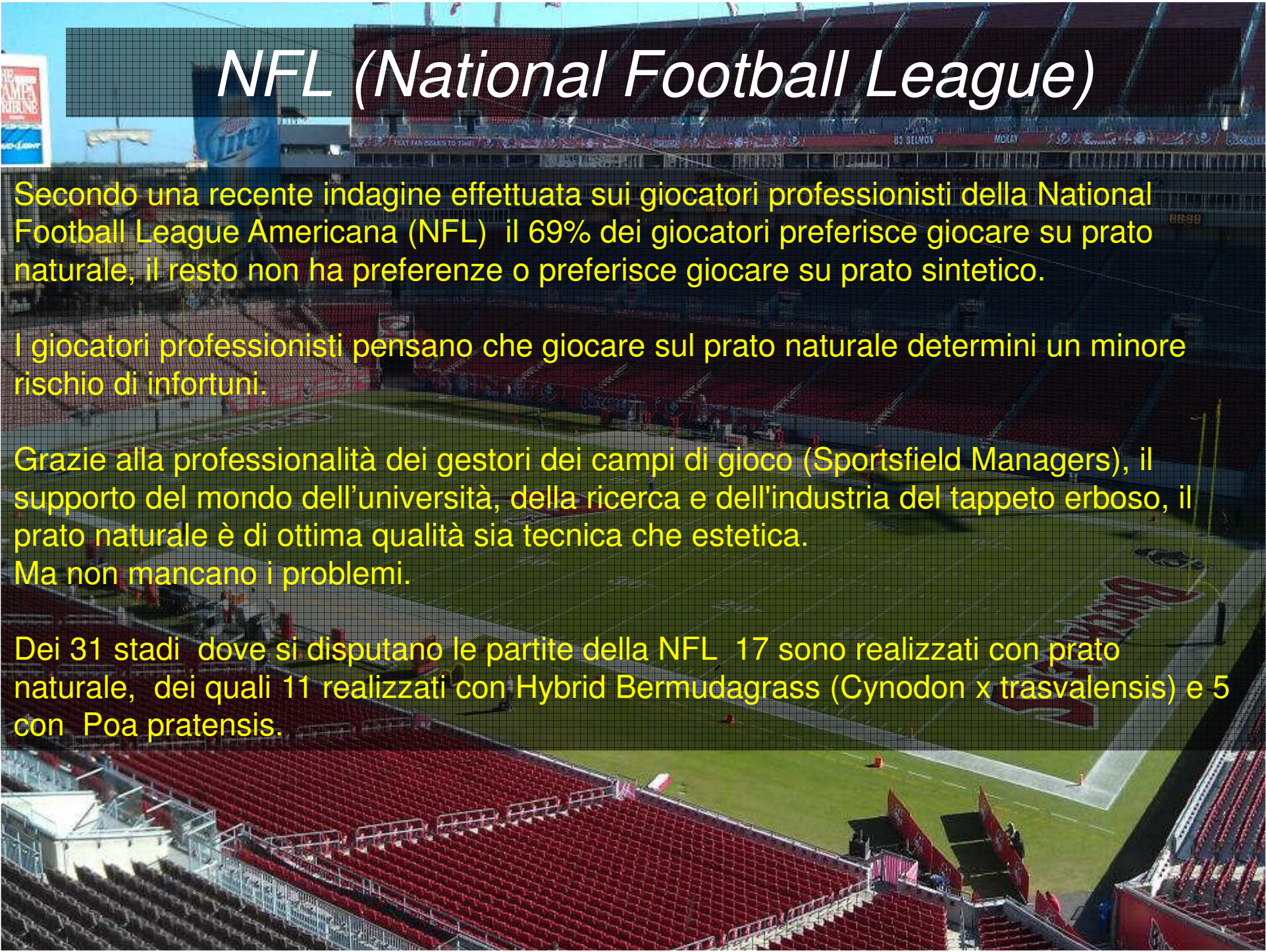
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ASSOSEMENTI
Associazione Italiana Sementi

Dr. Giovanni Tracanzan
johntrac@gmail.com

NFL (National Football League)

An aerial photograph of a large NFL stadium. The seating bowl is filled with red seats, and the field is green with white yard lines. The stadium's architecture and various advertisements are visible around the perimeter.

Secondo una recente indagine effettuata sui giocatori professionisti della National Football League Americana (NFL) il 69% dei giocatori preferisce giocare su prato naturale, il resto non ha preferenze o preferisce giocare su prato sintetico.

I giocatori professionisti pensano che giocare sul prato naturale determini un minore rischio di infortuni.

Grazie alla professionalità dei gestori dei campi di gioco (Sportsfield Managers), il supporto del mondo dell'università, della ricerca e dell'industria del tappeto erboso, il prato naturale è di ottima qualità sia tecnica che estetica.

Ma non mancano i problemi.

Dei 31 stadi dove si disputano le partite della NFL 17 sono realizzati con prato naturale, dei quali 11 realizzati con Hybrid Bermudagrass (*Cynodon x trasvalensis*) e 5 con *Poa pratensis*.

Turf time: Which stadiums have the best and worst fields in the NFL?

[More >](#)

BY TIM NEWCOMB

Natural grass versus artificial turf. Cold-weather grass versus warm-weather varieties. There's plenty to debate within the NFL's various playing surfaces, and there are also plenty of complaints to go around. In this ranking of the NFL playing surfaces, we acknowledge the debates. We acknowledge the differences. And we recognize the intricacies involved in preparing NFL fields every week.

Posted

"The bottom line is they all meet the NFL's certification program every week." And

Turf Battle in the NFL: Natural vs. Artificial

Written by **John Egan** on October 2, 2015 in **General Lawn Care**

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Just a few weeks into the 2015 NFL season, a lot of fantasy football players are feeling anything but fantastic.

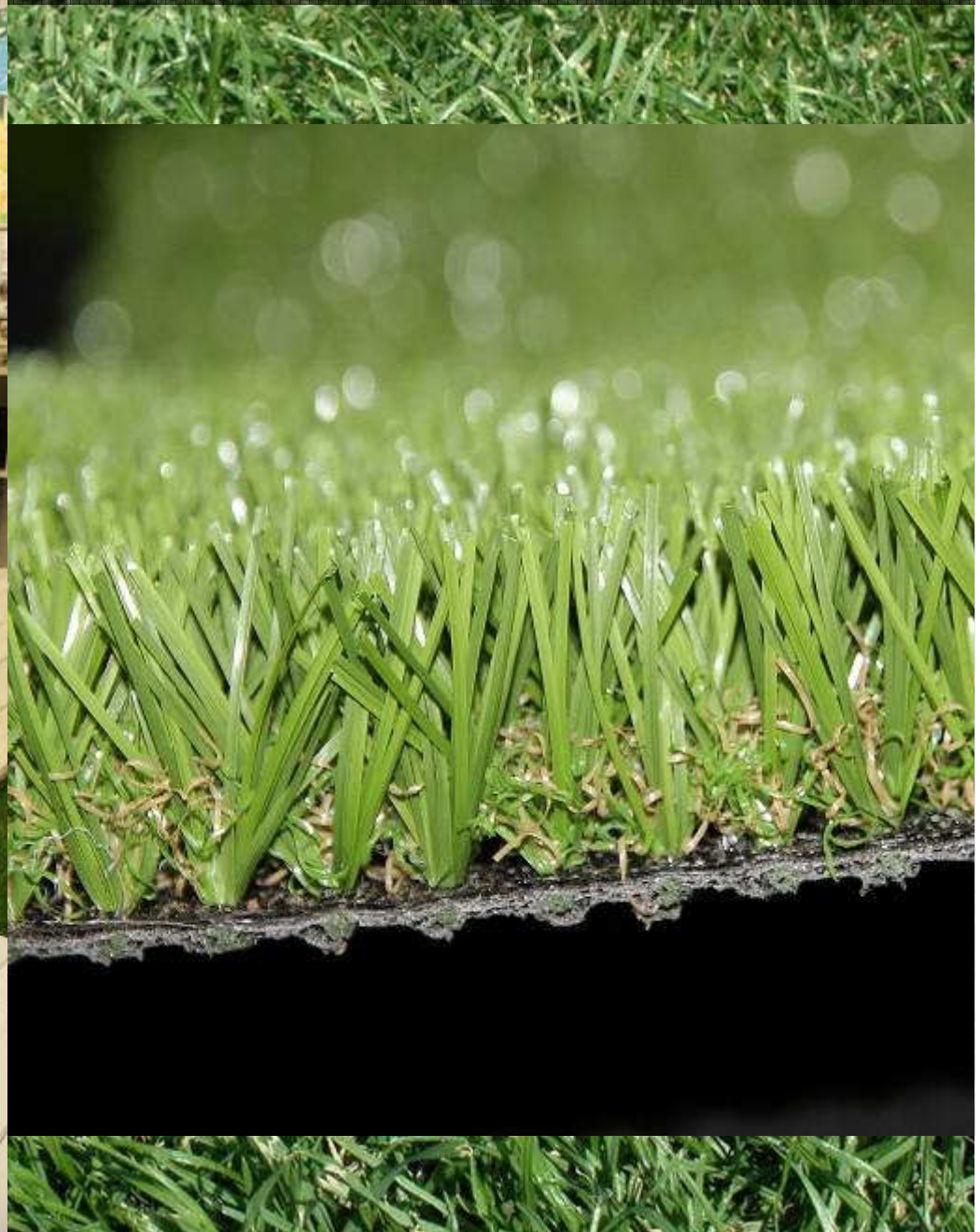
A number of high-profile players — including three starting quarterbacks — recently have suffered injuries that have taken them off the field and have taken some fantasy football players out of the game. A LawnStarter review of eight of the most prominent NFL injuries in 2015 found that five of the players were hurt on fields with artificial turf and three were hurt on fields with natural grass. Of course, our review is by no means scientific, but it does offer a snapshot of the injury landscape.



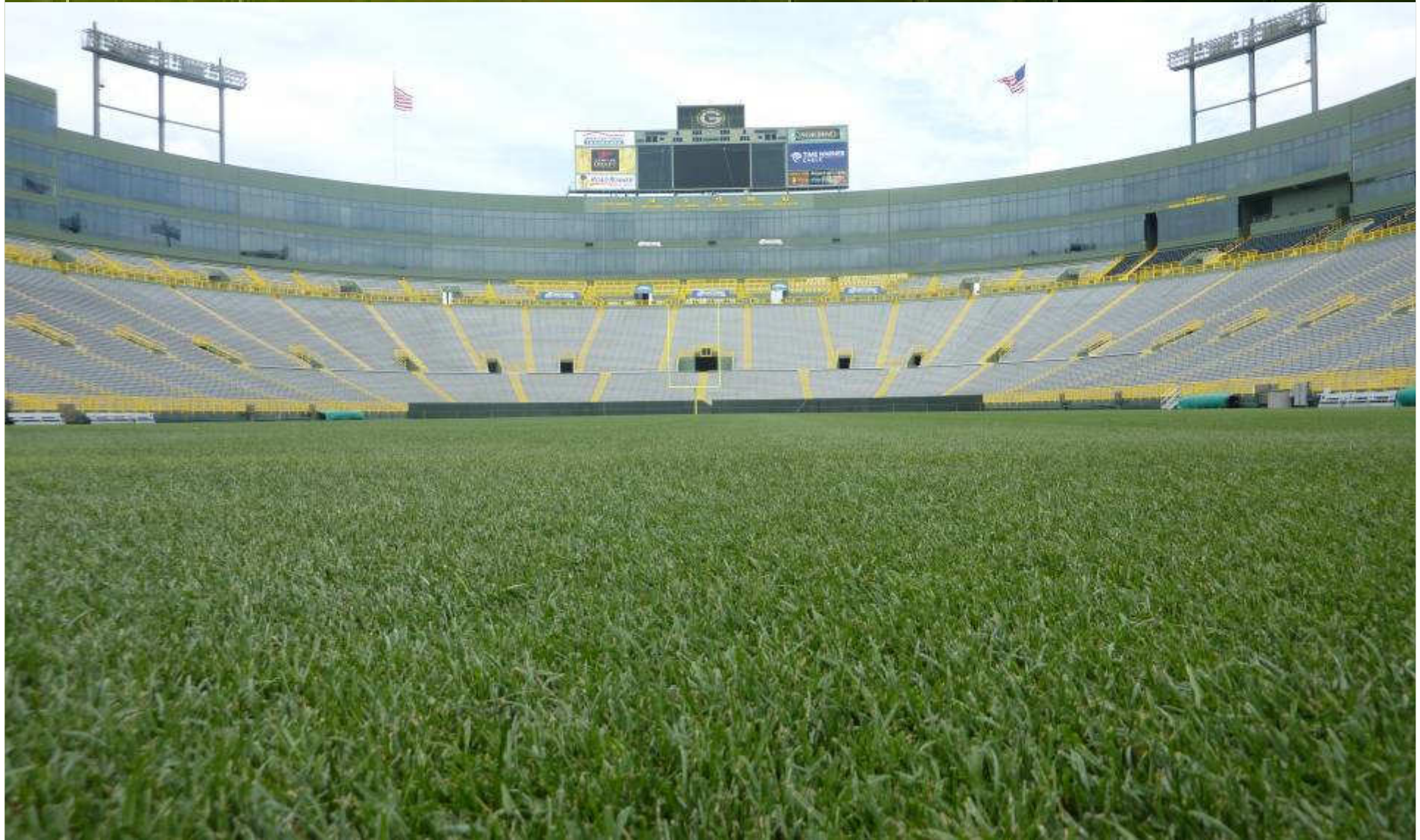
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Prato Naturale o Sintentico?



Prato Naturale, Green Bay Wisconsin, Lambeau Field, *Poa pratensis*



Prato Naturale, Green Bay Wisconsin, Lambeau Field, *Poa pratensis*



**Prato Naturale, San Francisco Levi's Stadium, Santa Clara,
California, Bermudagrass in rotolo.**





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SAFE FIELDS ALLIANCE ISSUES RESPONSE TO NBC NIGHTLY NEWS REPORT



Watch OU Baseball Installation

Oklahoma University builds an AstroTurf baseball field.
Check out the installation progress. [Read more](#)

THE SCIENCE BEHIND CRUMB RUBBER AND SYNTHETIC TURF

The Safety of Crumb Rubber

The health of athletes is our top priority. Learn about the extensive evidence supporting the safety of crumb rubber as infill material. [Read more](#)



AstroTurf Golden Series: The Future of Turf

AstroTurf introduces the Golden Series in honor of its 50th anniversary. With twice as much fiber as most systems, this is an ideal solution for those looking for more infill options. [Read more](#)

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How much does FieldTurf cost?

[Click here and find out!](#)**THE FIELDTURF
COST CALCULATOR**

WHAT IS THE REAL COST OF A FIELDTURF FIELD AND HOW DOES IT COMPARE TO GRASS? FIND OUT!

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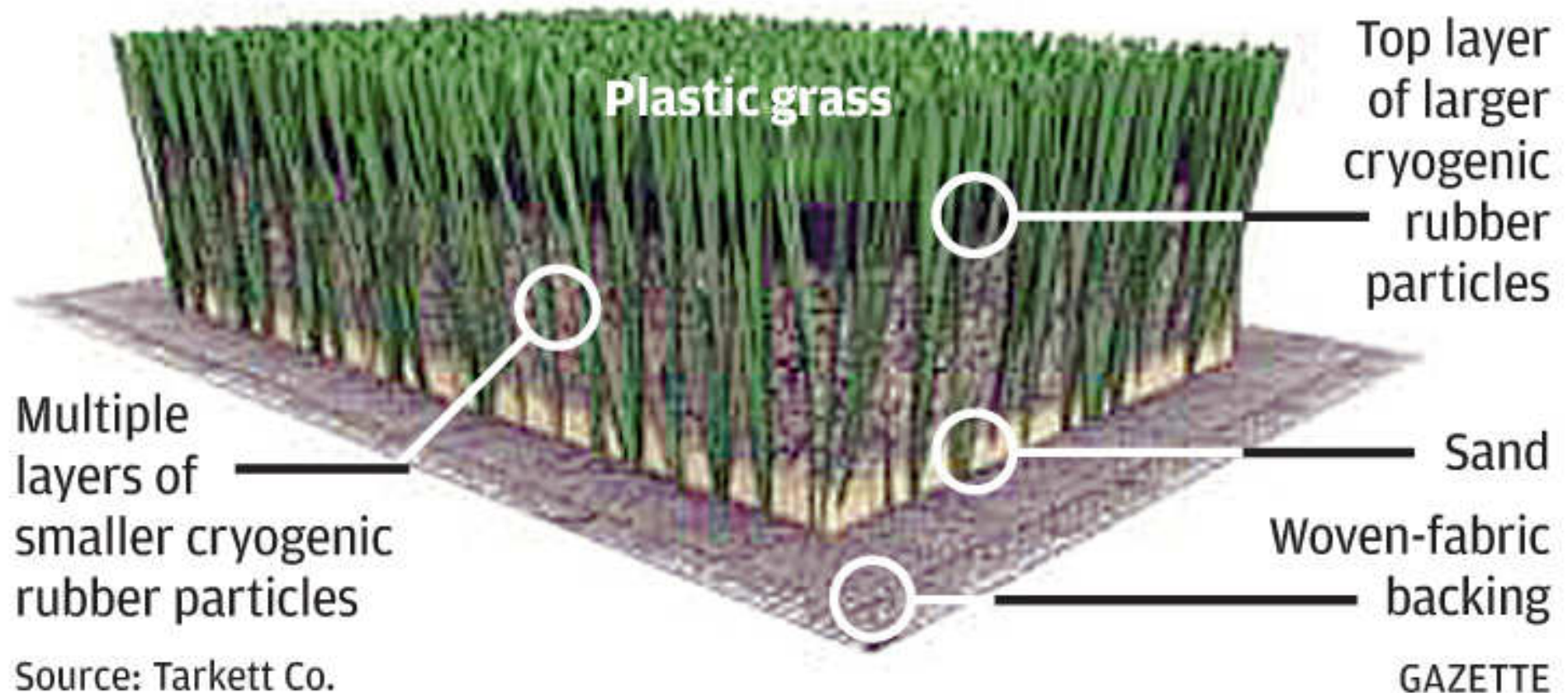
HOW FIELDTURF WORKS



Prato Naturale o Sintentico?

What's in Field Turf?

An artificial turf field like FieldTurf is made up of plastic grass fibers held in place by up to 21 layers of different-sized cryogenic rubber particles and sand.



Prato Naturale o Sintentico?



Grass

*The original.
More stains,
fewer pains.*

- Various types of grass
- 2- to 3-in. root base
- Sand (optional)

TIME Diagram by Elliot Bergman

AstroTurf

*Introduced in 1965.
Consistent but hard.
Athletes dread it.*

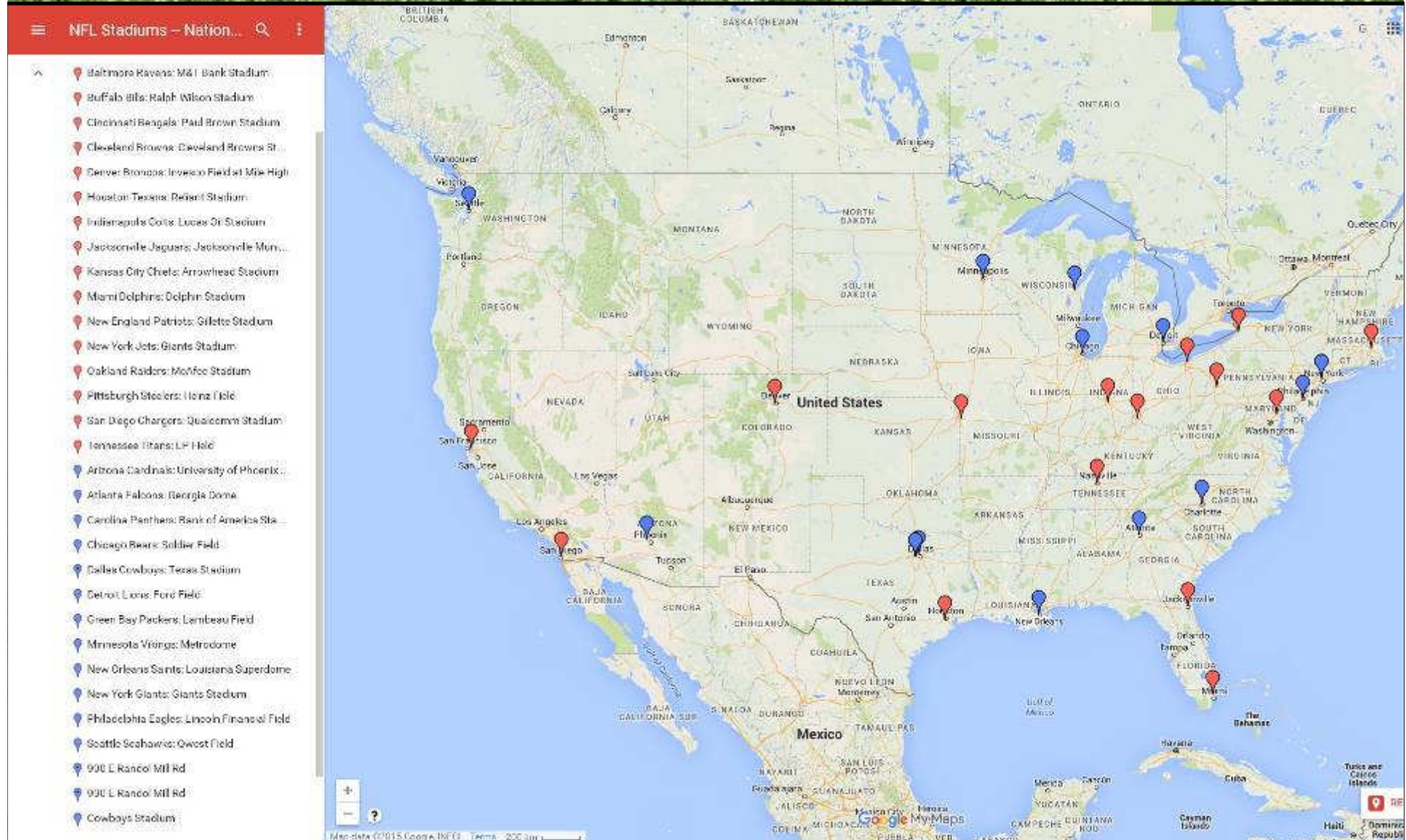
- 1-in. fiber turf
- Foam shock padding
- 1-in. recycled-rubber subbase
- Concrete or crushed stone
- Dirt

FieldTurf

*Introduced in the 1990s.
More grasslike. Will it be kinder to knees?*

- 2.5-in. fiber turf
- .38-in. recycled-tire rubber
- 1-in. sand and rubber
- .25-in. tire-crumb rubber
- Crushed stone

31 stadi della NFL



Stagione 2015 della NFL

2015 National Football League season

Regular season

Duration September 10, 2015 – January 3, 2016

Playoffs

Start date January 9, 2016

Super Bowl 50

Date February 7, 2016

Site Levi's Stadium, Santa Clara, California

Pro Bowl

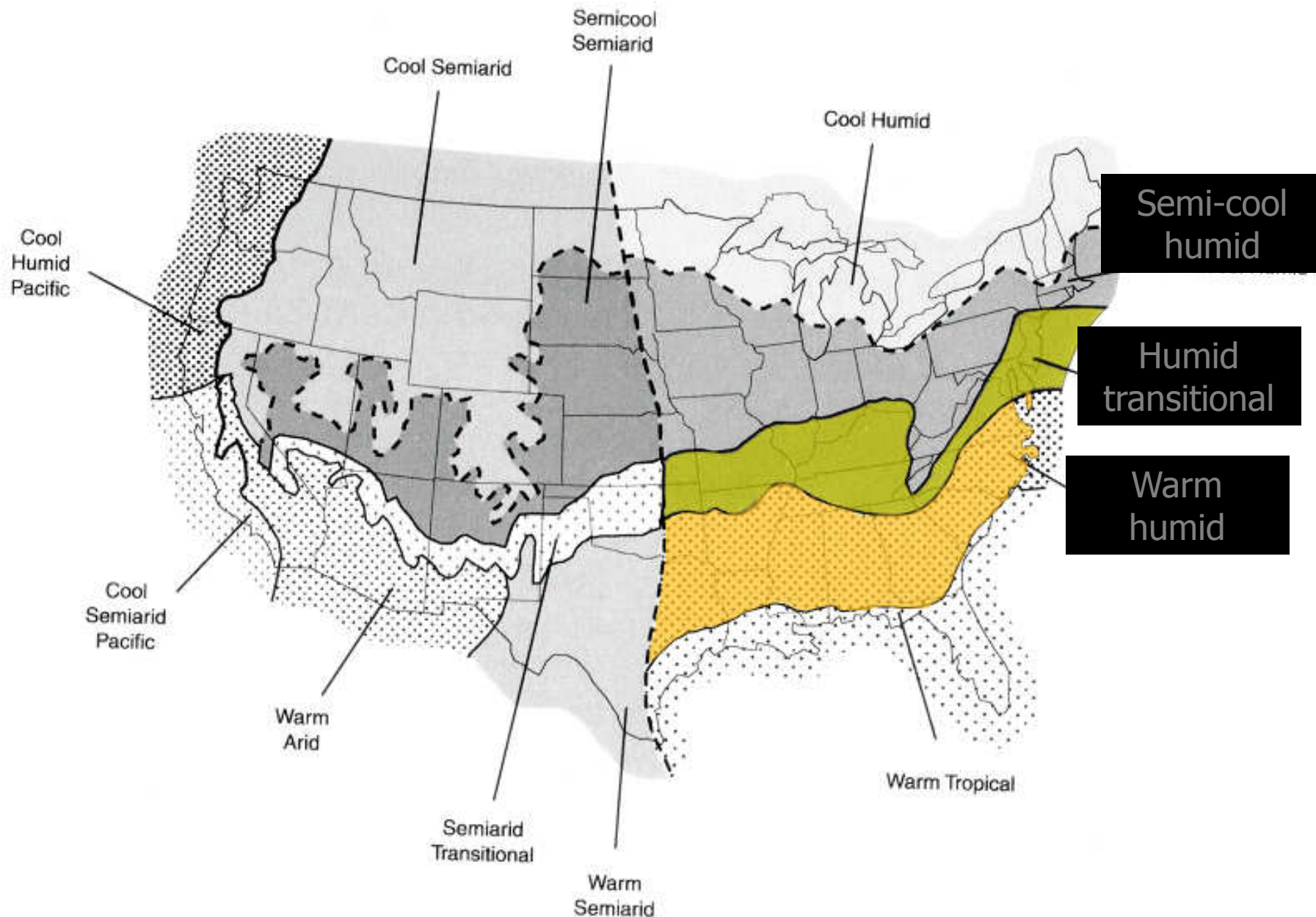
Date January 31, 2016

Site Aloha Stadium, Honolulu, Hawaii

← [2014](#) · **NFL seasons**



**Utilizzate nella NFL sia specie Macroterme (*Cynodon dactylon* x *transvalensis*)
che microterme (*Poa pratensis*)**



National Football League Team Logos



Arizona Cardinals
since 1994



Atlanta Falcons
since 1966



Baltimore Ravens
since 1996



Buffalo Bills
since 1970



Carolina Panthers
since 1995



Chicago Bears
since 1920



Cincinnati Bengals
since 1970



Cleveland Browns
since 1946



Dallas Cowboys
since 1960



Denver Broncos
since 1970



Detroit Lions
since 1934



Green Bay Packers
since 1919



Houston Texans
since 2002



Indianapolis Colts
since 1994



Jacksonville Jaguars
since 1995



Kansas City Chiefs
since 1970



Miami Dolphins
since 1970



Minnesota Vikings
since 1961



New England Patriots
since 1971



New Orleans Saints
since 1967



New York Giants
since 1925



New York Jets
since 1970



Oakland Raiders
since 1966



Philadelphia Eagles
since 1933



Pittsburgh Steelers
since 1945



San Diego Chargers
since 1970



San Francisco 49ers
since 1946



Seattle Seahawks
since 1970



St. Louis Rams
since 1995



Tampa Bay Buccaneers
since 1970



Tennessee Titans
since 1999

31 Squadre
della NFL



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Athletic
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Digital Guide TO GRASS FIELD MAINTENANCE

VOLUME 1



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Jan. 19-22, 2016
San Diego, CA

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Natural Grass Resources

Natural Grass Resources

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[Five Ways to Successfully Manage Natural Grass Fields Year-After-Year](#)

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[Benefits of Natural Grass Athletic Fields](#)

[PowerPoint Presentation - Benefits of Natural Grass Athletic Fields](#)

- Customize for presenting to PTAs, parent groups, school boards, park boards, etc.

[A Guide to Synthetic and Natural Turfgrass for Sports Fields - Selection, Construction and Maintenance Considerations](#)

STMA teamed up with *Athletic Management* to produce a three-edition, interactive, Guide to Grass Field Maintenance. This Guide contains an annual plan and valuable tips to help you develop and maintain high-quality, safe grass playing fields for your athletic teams.



[Vol. 1 - The importance of a year-round management plan.](#)

[Vol. 2 - Grass selection—part 1, pest control and water issues](#)



2,500 sq. ft. of turf
releases enough oxygen for
a family of four to breathe.

International Resources



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Center for Sports Surface Research



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Center for Sports Surface Research

The Center for Sports Surface Research at Penn State is an intercollege program managed within the College of Agricultural Sciences' Department of Plant Science. The center is dedicated to the improvement of all sports surfaces. Through cooperative scientific inquiry the center's members expect to improve performance and safety on all sports surfaces.

News and Information

[New Report Documents Effects of Irrigation on Synthetic Turf Characteristics](#)
July 22, 2015

Synthetic turf fields are increasingly selected for convenience and durability in useage. This report includes

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ROB REYER, OCTOBER 16, 2015



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JOE REYER, OCTOBER 16, 2015



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THE SPORTSFIELD MANAGEMENT STAFF, OCTOBER 21, 2015



Advanced Turf Solutions Acquires Agro-Logics

THE SPORTSFIELD MANAGEMENT STAFF, OCTOBER 20, 2015

AERIFICATION INFIELD MAINTENANCE IRRIGATION MAINTENANCE SEED & SOIL

FALL FIELD PREP

STAFF • SEPTEMBER 1, 2014

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Late-season maintenance strategies for stronger fields



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COVER PHOTO BY JOE REYER, THOMAS HILLERLEY AND G. LINDENBERG FOR SFM

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October 13, 2015 Michael J. Donovan
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September 22, 2015 Michael J. Donovan

WHAT'S NEW

Andy McNitt, Penn State University's director of the **Center for Sports Surface Research** and the man in charge of testing NFL fields.



Impattometro di Clegg, la NFL misura la durezza del prato prima di ogni partita

- NFL's certification program every week," Andy McNitt, Penn State University's director of the
- **Center for Sports Surface Research** and the man in charge of testing NFL fields. "All of our fields today versus 10 years ago are way better. The fields are in much better shape across the board."
- Hardness testing every week. That process includes using a Clegg Gmax 2.25-kilogram hammer to drop weight from a given height to measure how quickly the weight stops on impact. Using the instrument,
- NFL fields must be < 100 score everywhere on the field. If one doesn't, remediation must happen before a game can be played. Most fields range in the 80s, with the occasional test in the 70s or 90s.
- Natural-grass fields can soften into the 60s following rain, tested also with Moisture Meter and Shear Tester.
- The NFL checks seams and infill depth, and even runs a magnet across the field to make sure there's no loose metal, such as a bolt from a concert stage.

The Clegg Impact Tester is a professional instrument to determine hardness on all types of areas - Readings in CIT's or Gravities (Gmax).



The principle behind the Clegg Impact Soil Tester, also called the Clegg Hammer and Clegg Decelerometer is used to obtain a measurement of the deceleration of a free falling mass (Hammer) from a set height onto a surface under test to determine hardness. The impact of the hammer produces an electrical pulse, which is converted and displayed on the Control Unit in units of gravities "G-max" or tens of gravities "CIT". Reference ASTM test methods D5874 and F1702.

The standard test protocol developed by Dr. Clegg is to drop the hammer four consecutive times on the same location with the highest value result in the series taken as the Peak Clegg Impact Test result. Since that time, other test protocols have been used based on the materials under test and the application. These other protocols like the ones used for testing artificial turf test the area with a single drop. The Clegg offers the convenience of rapidly scanning compaction variation over large areas. In research studies, 250 tests were performed with the Clegg in a half-day.

The **NEW PNCLEGG-S-2.25-A** Clegg Impact Tester 2.25 kg model reads out from 0 to 150 Gravities or 0 to 15 CIT's and has a better accuracy range ($\pm 1\%$ or 1.5 G Accuracy) as compared to the 0-1000 Gravity unit ($\pm 1\%$ or 10 G Accuracy) for testing soft surfaces like natural and artificial athletic fields, infill products and sports fields. This model is the same model that is used to test all NFL National Football League Stadium Fields before games. Instruction manual comes with conversion formula to convert readings to F355 readings. Note the 150 g maximum reading on this unit is equal to approximately 219 gravities in ASTM F355 range after using the conversion formula.



**Impattometro di Clegg, misura la durezza del prato
prima di ogni partita della NFL.**



17 Stadi NFL in Erba Naturale

Image	Stadium	Capacity (Seats)	Location	Playing surface	Roof type	Team(s)	Opened	Ref(s)
	Lambeau Field	80,735	Green Bay, Wisconsin	Desso GrassMaster	Open	Green Bay Packers	1957	170
	Sports Authority Field at Mile High	76,125	Denver, Colorado	Kentucky Bluegrass	Open	Denver Broncos	2001	170
	Sun Life Stadium	75,540	Miami Gardens, Florida	Prescription Athletic Turf (Tifway 419 Bermuda Grass)	Open	Miami Dolphins	1987	170
	Bank of America Stadium	73,778	Charlotte, North Carolina	Voyager Bermuda Grass	Open	Carolina Panthers	1996	170
	FedEx Field	73,000	Landover, Maryland	Latitude 36 Bermuda Grass	Open	Washington Redskins	1997	170

Image	Stadium	Capacity(Seats)	Location	Playing-surface	Roof type	Team(s)	Opened	Ref(s)
	Qualcomm Stadium	70,561	San Diego, California	Bandera Bermuda Grass	Open	San Diego Chargers	1967	[10]
	Lincoln Financial Field	69,596	Philadelphia, Pennsylvania	Deaso GrassMaster	Open	Philadelphia Eagles	2003	[10]
	Nissan Stadium	69,149	Nashville, Tennessee	TifSport Bermuda Grass	Open	Tennessee Titans	1998	[10]
	Levi's Stadium	68,500	Santa Clara, California	Tifway II Bermuda Grass*/Perennial Ryegrass mixture	Open	San Francisco 49ers	2014	[10]
	Heinz Field	68,400	Pittsburgh, Pennsylvania	Kentucky Bluegrass	Open	Pittsburgh Steelers	2001	[10]
	FirstEnergy Stadium	67,431	Cleveland, Ohio	Kentucky Bluegrass	Open	Cleveland Browns	1998	[10]

Image	Stadium	Capacity(Seats)	Location	Playing surface	Roof type	Team(s)	Opened	Ref(s)
	EverBank Field	67,246	Jacksonville, Florida	Tifway 419 Bermuda Grass	Open	Jacksonville Jaguars	1995	PQ
	Raymond James Stadium	65,890	Tampa, Florida	Tifway 419 Bermuda Grass	Open	Tampa Bay Buccaneers	1998	PQ
	University of Phoenix Stadium†	63,400	Glendale, Arizona	Tifway 419 Bermuda Grass	Retractable	Arizona Cardinals	2006	PQ
	Soldier Field	61,500	Chicago, Illinois	Kentucky Bluegrass	Open	Chicago Bears	1924 ²⁰¹⁹	PQ
	O.co Coliseum	56,057	Oakland, California	Tifway II Bermuda Grass	Open	Oakland Raiders	1966	PQ

Classifica 17 Stadi NFL in Base alla qualità del prato naturale.

N.	Stadium	Seats	Location	Playing surface	Roof type	Team(s)
1	University of Phoenix Stadium	63.400	Glendale, Arizona	Tifway 419 Bermuda Grass removable field	Retractable	Arizona Cardinals
2	Raymond James Stadium	65.890	Tampa, Florida	Tifway 419 Bermuda Grass	Open	Tampa Bay Buccaneers
3	Sun Life Stadium	75.540	Miami Gardens, Florida	Prescription Athletic Turf (Tifway 419 Bermuda Grass)	Open	Miami Dolphins
4	Qualcomm Stadium	70.750	San Diego, California	Bandera Bermuda Grass	Open	San Diego Chargers
5	Bank of America Stadium	73.780	Charlotte, North Carolina	Voyager Bermuda Grass	Open	Carolina Panthers
6	EverBank Field	67.250	Jacksonville, Florida	Tifway 419 Bermuda Grass	Open	Jacksonville Jaguars
7	Sports Authority Field at Mile High	76.130	Denver, Colorado	Kentucky Bluegrass (1.600 m altitude)	Open	Denver Broncos
8	Arrowhead Stadium	76.420	Kansas City, Missouri	Latitude 36 Bermuda Grass	Open	Kansas City Chiefs
9	Lambeau Field	80.740	Green Bay, Wisconsin	Kentucky Bluegrass Frm Desso Grassmaster	Open	Green Bay Packers
10	Nissan Stadium	69.615	Nashville, Tennessee	TifSport Bermuda Grass	Open	Tennessee Titans
11	FirstEnergy Stadium	67.430	Cleveland, Ohio	Kentucky Bluegrass	Open	Cleveland Browns
12	Lincoln Financial Field	69.600	Philadelphia, Pennsylvania	Kentucky bluegrass + heating system	Open	Philadelphia Eagles
13	Levi's Stadium	68.500	Santa Clara, California	Tifway II Bermuda Grass / Perennial Ryegrass mixture	Open	San Francisco 49ers
14	Heinz Field	68.400	Pittsburgh, Pennsylvania	Kentucky Bluegrass resodding continuously former Desso	Open	Pittsburgh Steelers
15	O.co Coliseum	53.250	Oakland, California	Tifway II Bermuda Grass	Open	Oakland Raiders
16	FedEx Field	73.000	Landover, Maryland	Latitude 36 Bermuda Grass continuous resodding - ownership problems	Open	Washington Redskins
17	Soldier Field	61.500	Chicago, Illinois	Kentucky Bluegrass, Many problems Kentucky Bluegrass (1924–1970, 1988–present) AstroTurf (1971–1987)	Open	Chicago Bears



1) University of Phoenix Stadium home of Arizona Cardinals Tifway 419



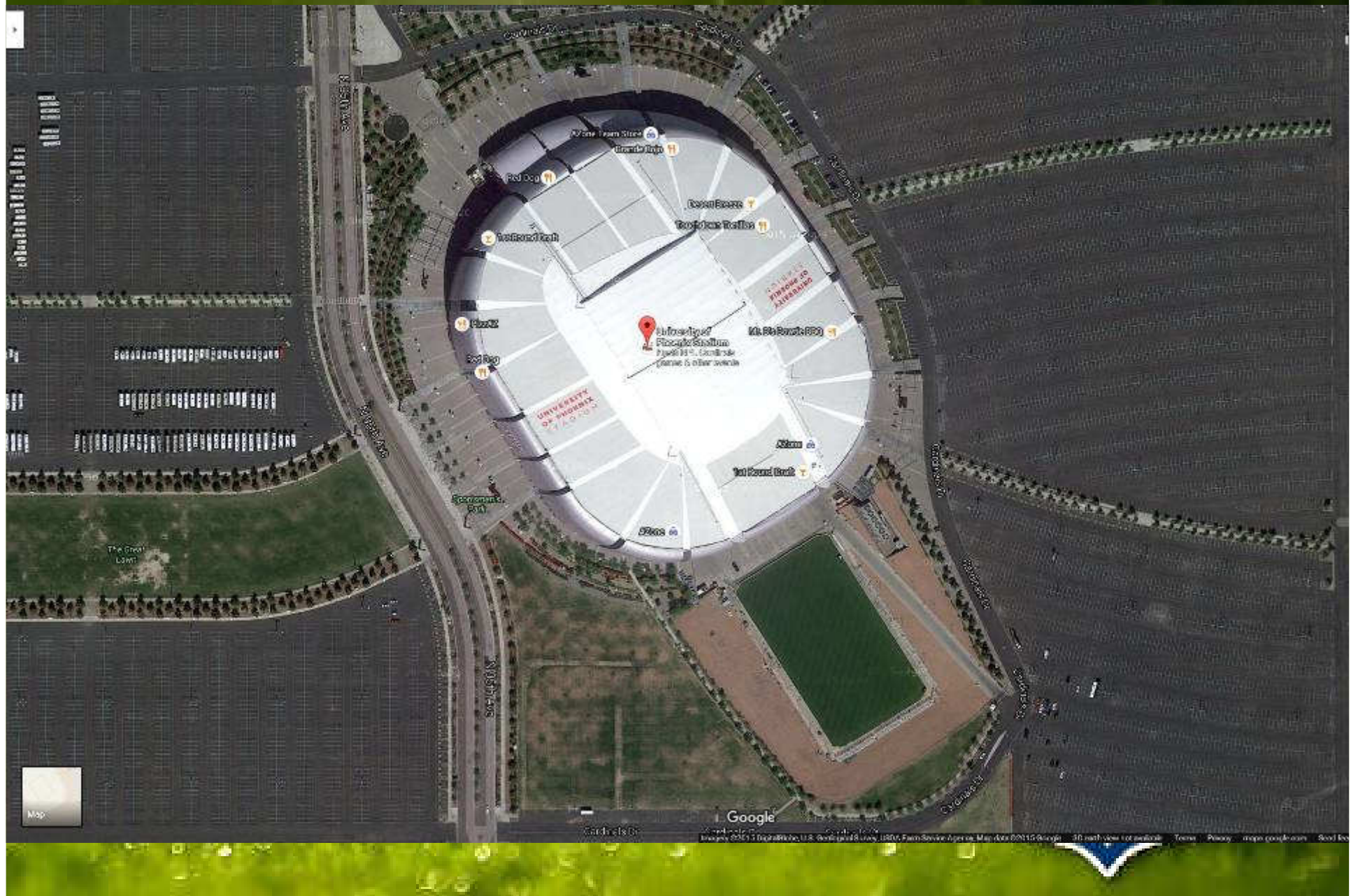
1) University of Phoenix Stadium home of Arizona Cardinals Tifway 419



1) University of Phoenix Stadium home of Arizona Cardinals Tifway 419



1) University of Phoenix Stadium su Google maps.



2) Tampa Florida, Raymond James Stadium home of Buccaneers, Tifway 419



2) Tampa Florida, Raymond James Stadium home of Buccaneers, Tifway 419



3) Miami Gardens Florida, Sun Life Stadium home of Miami Dolphins, Tifway 419



3) Miami Gardens Florida, Sun Life Stadium home of Miami Dolphins, Tifway 419



4) San Diego California, Qualcomm Stadium home of San Diego Chargers, Bandera Bermudagrass



4) San Diego California, Qualcomm Stadium home of San Diego Chargers, Bandera Bermudagrass



5) Charlotte North Carolina, Bank of America Stadium home of Carolina Panthers, Voyager Bermudagrass



5) Charlotte North Carolina, Bank of America Stadium home of Carolina Panthers, Voyager Bermudagrass



6) Jacksonville Florida, Everbank Field home of Jacksonville Jaguars, Tifway 419 Bermudagrass



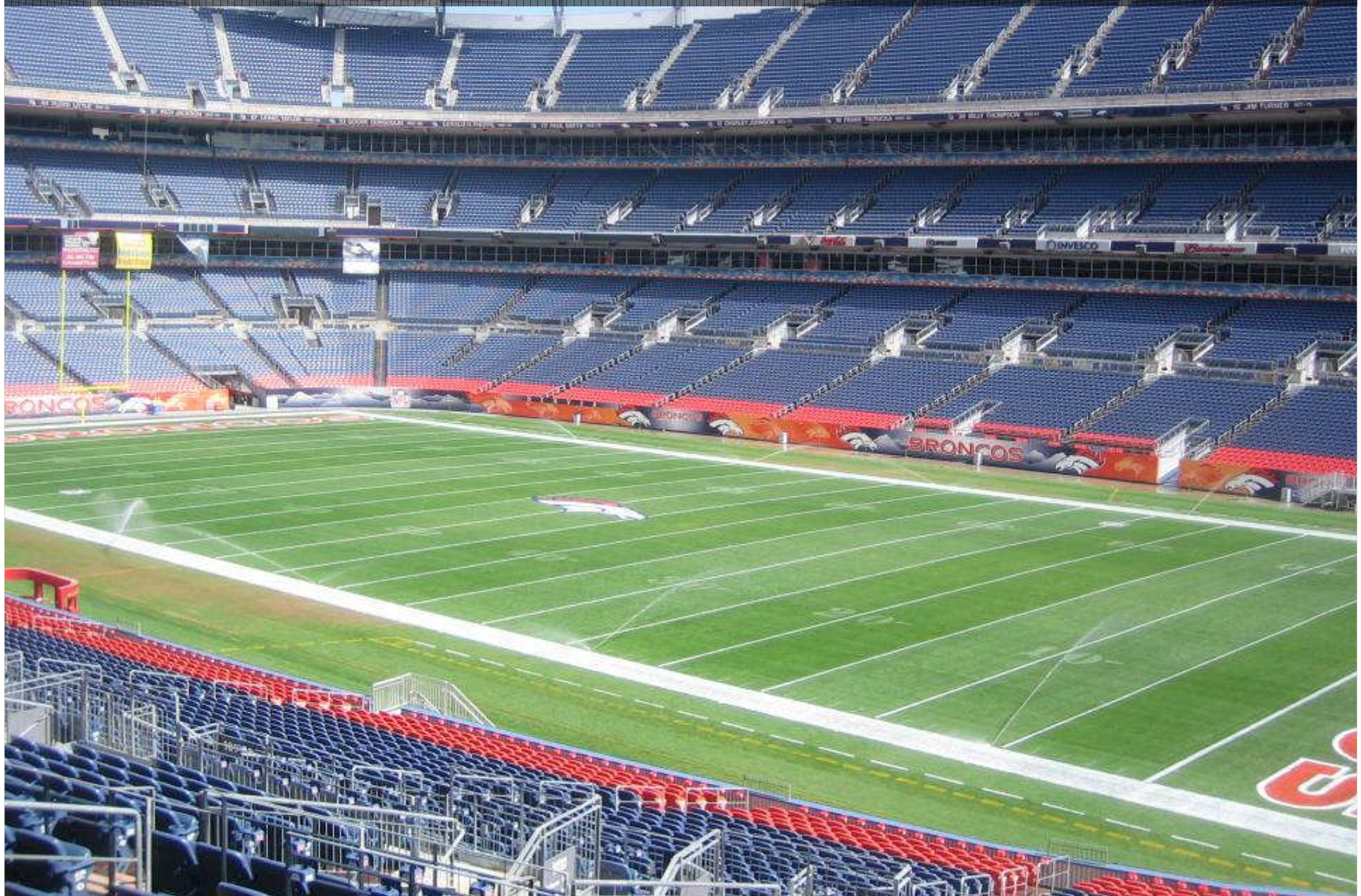
6) Jacksonville Florida, Everbank Field home of Jacksonville Jaguars, Tifway 419 Bermudagrass



7) Denver, Colorado, Sports Authority Field home of Denver Broncos, *Poa pratensis*



7) Denver, Colorado, Sports Authority Field home of Denver Broncos, *Poa pratensis*



8) Kansas Missouri Arrowhead Stadium home of Kansas City Chiefs, Latitude 36 Bermudagrass



8) Kansas Missouri Arrowhead Stadium home of Kansas City Chiefs, Latitude 36 Bermudagrass



9) Green Bay, Wisconsin Lambeau Field home of Green Bay Packers, Poa prantensis + Desso GrassMaster



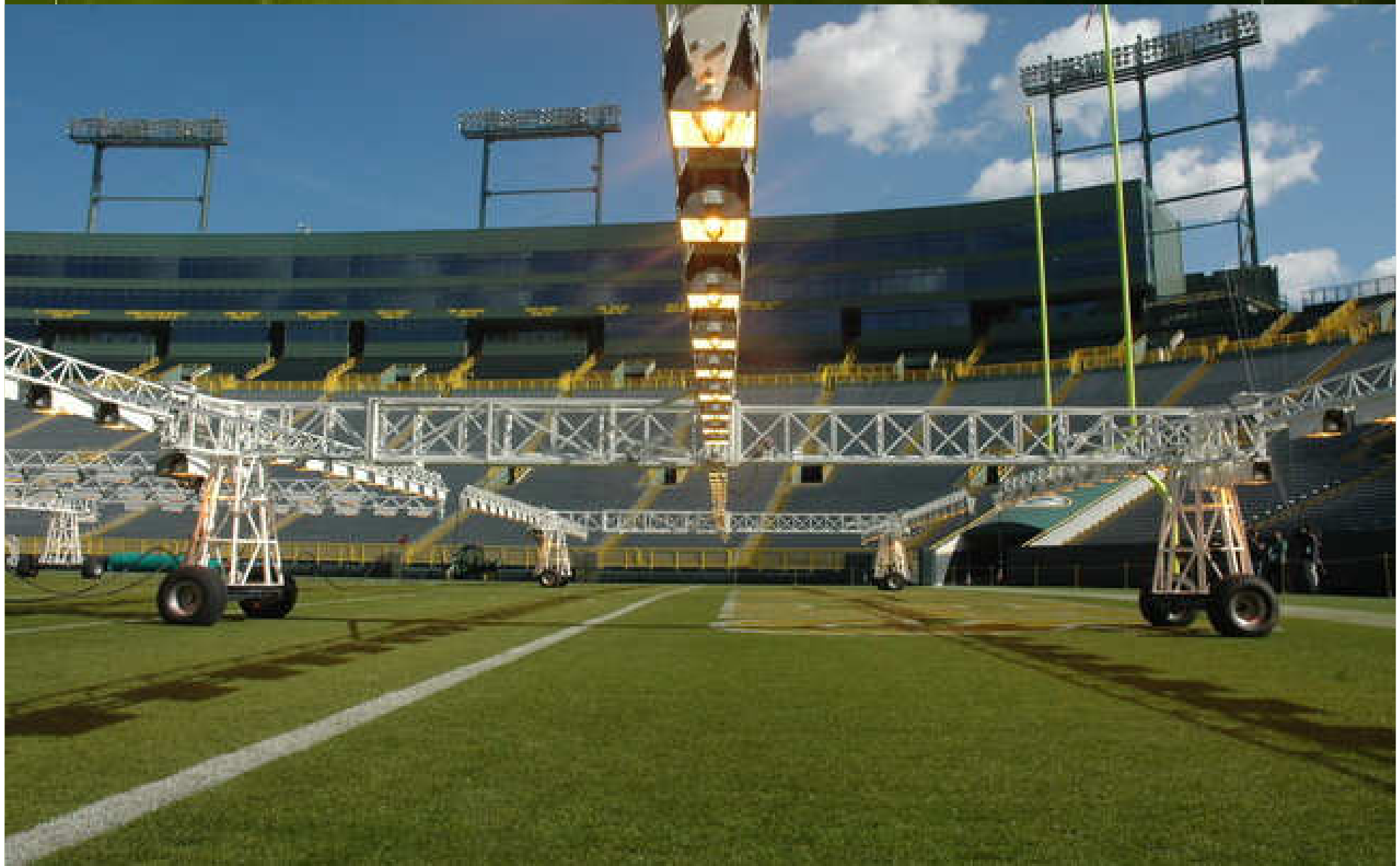
9) Green Bay, Wisconsin Lambeau Field home of Green Bay Packers, *Poa prantensis* + Desso GrassMaster



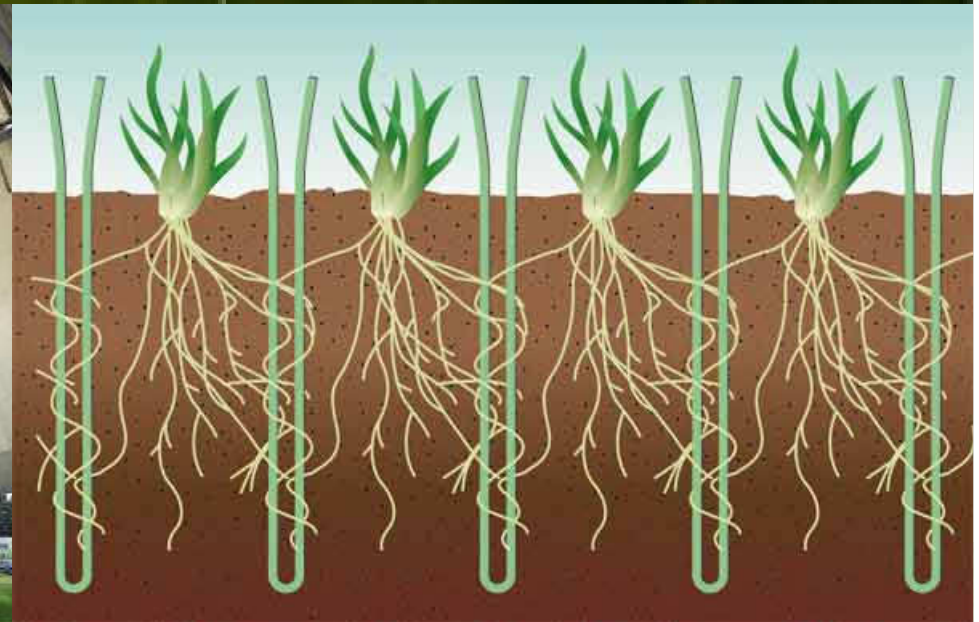
9) Green Bay stadium, illuminazione artificiale.



9) Green Bay stadium, illuminazione artificiale.



9) Green Bay, Desso GrassMaster + *Poa pratensis*



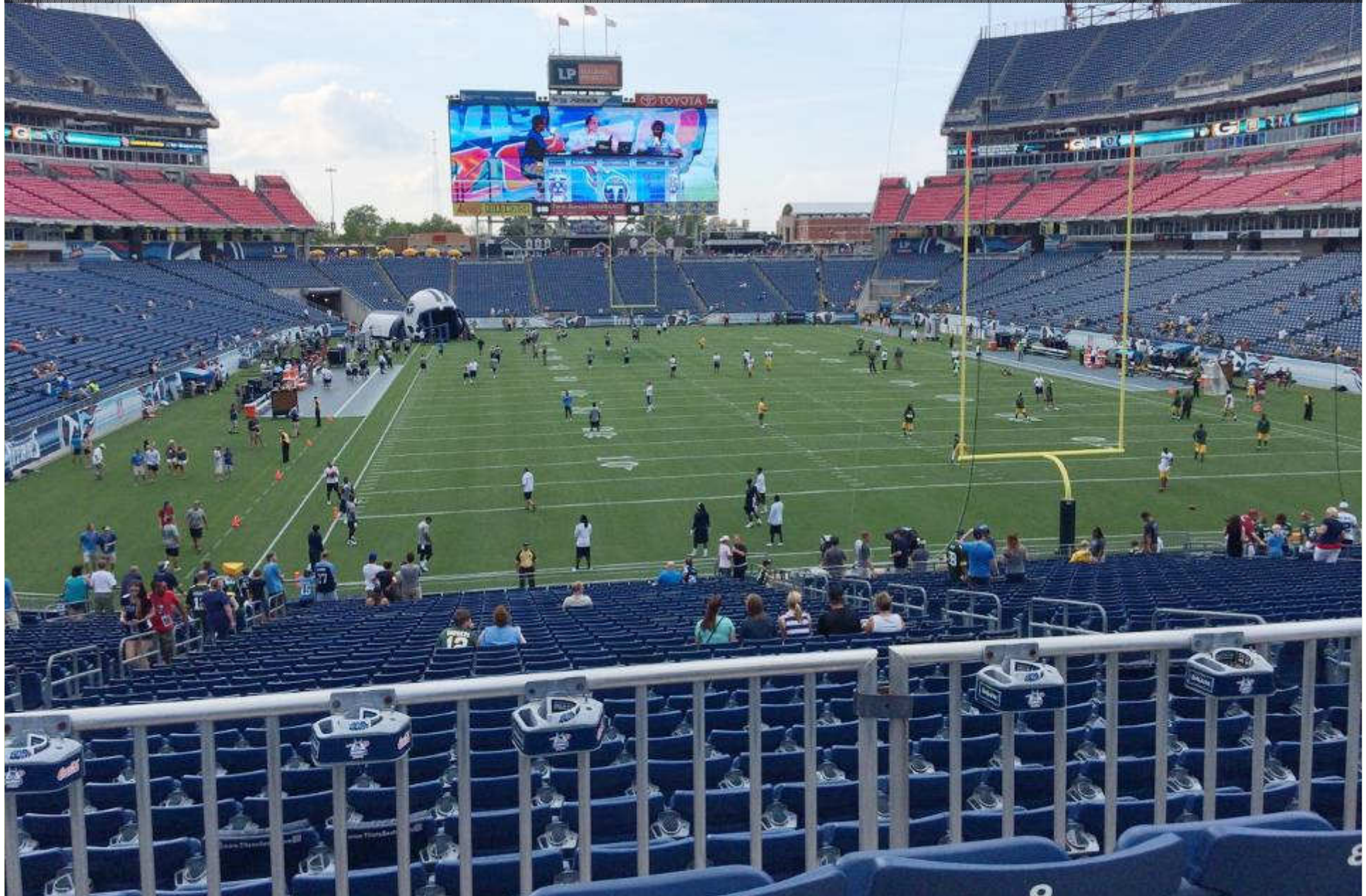
9) Green Bay, Desso GrassMaster + *Poa pratensis*



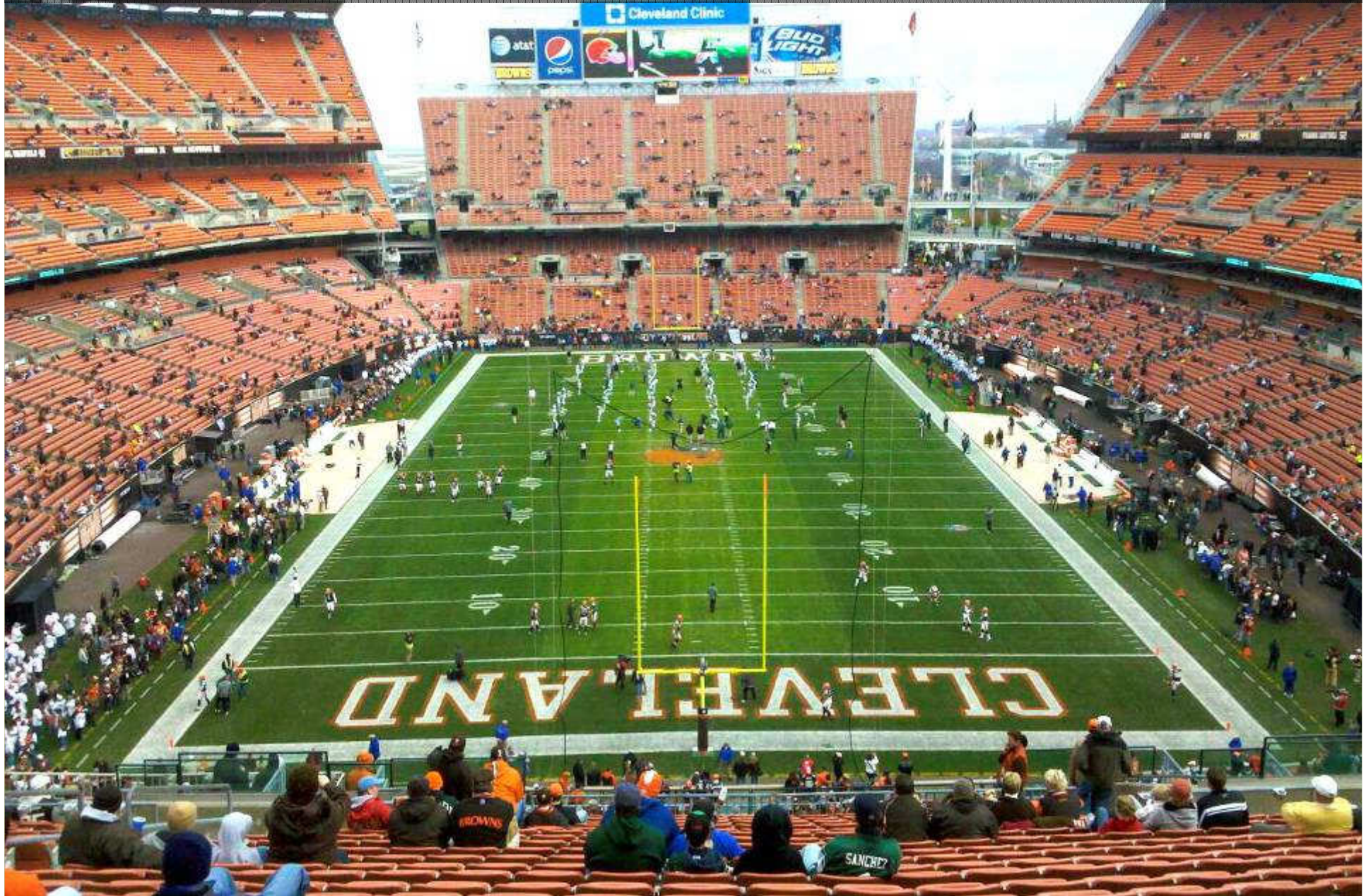
10) Nashville Tennessee, Nissan Stadium home of Tennessee Titans, Tifsport Bermudagrass



10) Nashville Tennessee, Nissan Stadium home of Tennessee Titans, TifSport Bermudagrass



11) First Energy Stadium, Cleveland Ohio home of Cleveland Browns, *Poa pratensis*



11) First Energy Stadium, Cleveland Ohio home of Cleveland Browns, *Poa pratensis*



12) Lincoln Financial Field Philadelphia Pennsylvania, home of Philadelphia Eagles, Kentucky bluegrass + heating system



12) Lincoln Financial Field Philadelphia Pennsylvania, home of Philadelphia Eagles, Kentucky bluegrass + heating system



**13) Santa Clara, California Levi's Stadium home of San Francisco 49ers
Tifway II Bermuda Grass**



**13) Santa Clara, California Levi's Stadium home of San Francisco 49ers
Tifway II Bermuda Grass**



13) Santa Clara, California Levi's Stadium Resodding



49ers' grass is greener at Levi's Stadium

Published April 22, 2014 | [RETURN TO STORY](#)



PREV NEXT

San Francisco 49ers announced a major construction milestone at Levi's Stadium as they unveiled the installation of West Coast Turf's Bandera Bermuda grass field in Santa Clara, Calif., on Monday, April 21, 2014. (Jesse Garner/SF Bay)

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14) Pittsburgh, Pennsylvania Heinz Field home of Pittsburgh Steelers
"Kentucky Bluegrass continuously resodded former Desso GrassMaster"



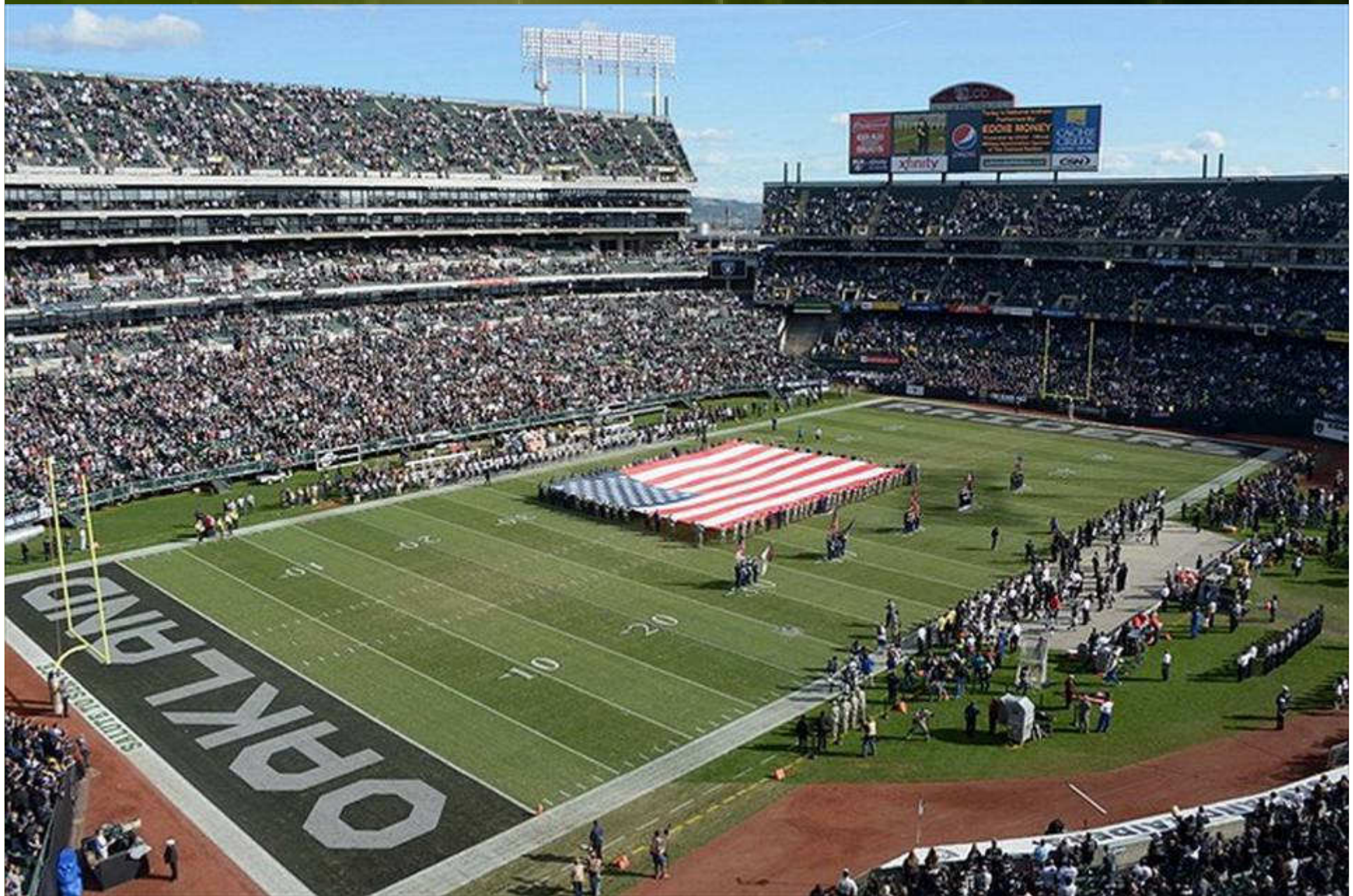
**14) Pittsburgh, Pennsylvania Heinz Field home of Pittsburgh Steelers
"Kentucky Bluegrass continuously resodded former Desso GrassMaster"**



**15) Oakland, California, O.co Coliseum home of Oakland Raiders Tifway II
Bermuda Grass**



**15) Oakland, California, O.co Coliseum home of Oakland Raiders Tifway II
Bermuda Grass**



16) Landover, Maryland FedEx Field home of Washington Redskins

"Latitude 36 Bermuda Grass continuous resodding - ownership problems"



16) Landover, Maryland FedEx Field home of Washington Redskins

"Latitude 36 Bermuda Grass continuous resodding - ownership problems"



**17) Soldier Field Chicago, Illinois home of Chicago Bears
"Kentucky Bluegrass, Many problems Kentucky Bluegrass (1924–1970,
1988–present) AstroTurf (1971–1987)"**



**17) Soldier Field Chicago, Illinois home of Chicago Bears
"Kentucky Bluegrass, Many problems Kentucky Bluegrass (1924–1970,
1988–present) AstroTurf (1971–1987)"**



NFL Cheerleaders!



NFL Cheerleaders!



Grazie per l'attenzione

