Denser, darker green Manhattan II takes the bruises for your athlete

What goes up must come down... and that goes double for athletes' knees and elbows.

Improved Manhattan II perennial ryegrass has a built-in cushion developed through genetic improvement. The greater tiller density of Manhattan II takes the punishment athletes dish out, then springs back to retain its great-looking appearance. All that toughness... with improved mow-ability to boot!

Manhattan II also provides a darker green color than the old standard Manhattan; improved disease resistance, drought and shade tolerance as well as fertilizer savings.

Manhattan II was developed to save on maintenance costs... but the real saving is on knees and elbows!

“Fall on the leader”

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Qualified turf associations can earn cash for turf research by saving Manhattan II blue tags. Contact your dealer for details.
The Spec Series Rotors

Specifically designed and built for large, heavy traffic turf areas, Rain Bird's Spec Series full- and part-circle rotors lead the competition in performance AND price.

The 4045, 5055 and 6060 model rotors incorporate as standard many features that are optional or not available with other rotors. A thermo-plastic wiper seal keeps the assembly free from debris, reduces flow-by and assures maximum operating and energy efficiency. An internal Seal-A-Matic™ valve prevents low head drainage. A heavy-duty, stainless steel retract spring ensures positive pop down. And a one-piece rubber cover protects players from injury.

The Spec Series rotors—a winning combination of performance and affordability.

For more information write:
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**MAINEVENTS**

**MISSISSIPPI STATE UNIVERSITY: THE WORLD'S BIGGEST CLASSROOM**

Mississippi State University installed the first Prescription Athletic Turf football field in the South in 1974 when other universities were choosing artificial turf. The faculty of the school and the campus landscape department recommended the sand-based design. MSU continues to involve its faculty and students in the design and maintenance of 1,000 acres of campus landscape and sports turf. The result is a unique arrangement between the faculty and the departments of athletics and physical plant...and some of the best fields in the conference.

**OKLAHOMA TOWN RALLIES AROUND NEW SOCCER PARK**

While other communities in western Oklahoma are cutting back on services due to the depressed oil industry, Clinton just completed a seven-field park for a sport not usually associated with the state—soccer. The city manager worked closely with the Clinton Soccer Club to solve problems with water, space and budget. Now the town has some of the best fields in the state and expects to host the district soccer championships in the next two years.

**LINE-UP**

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**COVER:** Fifteen inches of carefully selected sand is spread over a unique drainage/subirrigation system during construction of the PAT field at Mississippi State University's Scott Stadium.
1. Rolling back sod where TerraFlow lines will run. 2. Cutting 2" wide trench. 3. Laying TerraFlow lines in 12" deep trench. 4, 5. Joining TerraFlow lines using only a utility knife and duct tape. 6. Fully installed TerraFlow System. Workers backfill with site soil, puddle with sand. 7. Replacing sod. 8. Completed TerraFlow System. Installation time: about 100 ft. per hour. 9. Green was back in play in 2 hours with TerraFlow. (Photos by Greg Fast, Turf Irrigation Supply, Englewood, Colorado.)

Warren's® Turf Professionals just cut the cost of your next drainage system by 60%.

TerraFlow™

Self-Contained Prefabricated Drainage Systems

... a totally new concept in more efficient drainage systems that gives you up to 30 times more drainage per linear foot than perforated drainpipe ... and goes in 3 times faster, without large crews, backhoes, gravel trucks or costly re-landscaping.

Because 95% of new TerraFlow System's surface area is available for water entry, it absorbs water into its waffle-like core without the need for extensive, costly gravel surrounding it. Result: a completely self-contained, modern drainage system that can be installed in a fraction of the time and cost of conventional systems ... and with a minimum of surface disruption or inconvenience.

TerraFlow measures 1½” across and comes in 85 foot long rolls in 6", 12", 18", 24" and 42" depths. TerraFlow Drainage System design aids are now available for applications including: golf greens, tees and fairways ... athletic fields and general turf areas ... retaining walls ... roof gardens and planters ... roadway edges ... foundations ... pavements ... bridge abutments ... and many more.

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Circle 104 on Reader Service Card
Recently there have been a number of programs on television about the use of pesticides. One program that I watched told of how a little girl would get sick whenever pesticides were applied in her neighborhood. It also showed that a man died some weeks after he played golf on a course that had been treated with a fungicide just prior to his playing. Although I believe there is more to these stories, the network allowed them to be aired without making a qualifying statement.

For the past number of years the Environmental Protection Agency, fueled by environmental groups, has attacked segments of our industry with regard to the use of herbicides and insecticides. For some strange reason that I can't explain, we whose livelihood depends on these controlled substances have done very little to counteract these attacks. By remaining silent or virtually invisible, we have given the environmentalist groups more leeway and credibility. Are they using it to their advantage?

I am concerned that some very important tools will be taken out of our hands. I believe we are all concerned about chemical exposure. Surely, we who make the applications would be more apprehensive than the average citizen because if there is a problem it will affect the person making the application.

I am sure there are people who get a reaction when they are exposed to chemical substances, just like I know there are those who are allergic to certain foods and pollens. However, with a population of over 210 million people in the United States, I question what percentage of the population has these chemical reactions? Do we ban the use of chemicals for the entire nation if the percentage is tiny? I think more people are allergic to pollen or certain foods than to chemicals. How do we go about outlawing pollens or foods? Sounds ludicrous, doesn't it?

To be sure, there are members of our industry who abuse herbicides and insecticides. Some feel if a little is good, a lot is better. Others, who do not keep their equipment in good condition, transport these materials and cause spillage and leakage. Still others do not take the necessary precautions when making an application. But the bare fact is that under controlled conditions, chemicals play an integral part in the quality of life we live. These same materials that are used to control the weeds and insects on turf and ornamentals are also used in the agricultural markets. Because of insecticides and herbicides, the farmers are able to produce higher yields of foodstuff. Just like wrenches, screwdrivers, mowers, chemical substances help us to a more effective and efficient job.

We have a responsibility to ourselves to insure that our health is protected, but we also have a responsibility to protect the health of athletes using our sports turf. Poor turf will injure far more athletes than the chemicals needed to keep turf soft and dense. The solution is not to stop using chemicals, it is to regulate field use after chemical applications if problems with exposure could occur.

Landscape areas and greenbelts generate oxygen as well as beauty. Sports turf areas provide recreation and fitness. Let's not do away with them as oversimplified solutions to drought and pesticide sensitivity. Surely let's not let them take it away... certainly not without a fight.
A SPECIAL BLEND OF PERENNIAL RYEGRASSES TO MEET YOUR LOCAL OVERSEEEDING REQUIREMENTS.

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- Camouflages unsightly foreign Bermudagrasses where they do not go completely dormant.
- Provides excellent choice for wear tolerance, (especially golf courses).
- Best selection for fast ball roll surface.
- Has greater shade tolerance than Bermudagrass. (results in an even overall playing surface with shady areas.)
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Learn more about the expanded Parker line and the new Conestoga Trail Vacs from your Parker dealer. Get in touch today ... or give us a call at (513) 323-4901.