A BLEND OF FOUR PREMIUM PERENNIAL RYEGRASSES FROM TURF-SEED, INC. FOR WINTER OVERSEEDING, LAWN RENOVATION, ATHLETIC FIELDS AND PARKS.

**Alliance BLEND**

Dark Green, Drought Tolerant, Insect and Disease Resistant Turf... Naturally!

**Citation II**
- Contains a high level of endophyte that enhances insect resistance.
- Very good resistance to leaf spot, brown patch, crown and stem rust, tolerance to red thread.
- Rich dark green color with good mowing quality.
- Excellent heat and wear tolerance.

**Saturn**
- The number 1 variety in the 1986 National perennial ryegrass trial.
- Dark blue-green colored low growing variety.
- Improved heat tolerance, and resistance to leaf spot, brown patch and stem rust.
- Very good performance in California overseeding trials.

**Charger**
- Improved resistance to leaf spot, brown patch, stem and crown rust. Tolerance to red thread.
- Good performance under low fertility and improved color and growth under cool weather conditions.
- Early maturity and tested as 2HH.

**246 Sunrye**
- Very dark blue-green colored turf-type variety.
- Dwarf growth habit than other varieties in overseeding trials in Palm Springs area.
- Improved resistance to leaf spot, brown patch, and stem rust.
- Contains a moderately high level of endophyte to enhance insect resistance.

Turf-Seed, Inc. PO Box 250 Hubbard, OR 97032 503-981-9571 FAX 503-981-5626 1-800-247-6910

Circle 128 on Postage Free Card
With Apron® Systemic Fungicide Seed Treatment From Gustafson

For turfgrass that emerges faster . . . thicker . . . greener . . . healthier . . . have your seed treated with Apron fungicide seed treatment.

Apron translocates within the seed and seedling to provide effective protection against *Pythium* (damping off) and seedling blight during the critical early seedling development stage. Apron also enhances root development, to help your turf maintain its vibrant, lush appearance all season long.

Apron can be used on ALL varieties of turf and forage grasses. And the cost is just pennies per pound of seed.

Make sure your turf's up and started right. Specify seed that's treated with Apron from Gustafson, the worldwide leader in seed treatments and seed-treating equipment. For season-long *Pythium* control, ask for Subdue® fungicide.

**Apron Dry now available for hopper box application**

Gustafson

P.O. Box 660065  Dallas, Texas 75266-0065  (214) 985-8877
Always read and follow label directions.
Gustafson (logo) is a Reg. TM of Gustafson, Inc. Apron and Subdue are Reg. TM's of Ciba-Geigy.
MAIN EVENTS

8 SPORTS FIELD CONSTRUCTION: THE CLASS OF 1990-1991
Sports field construction technology is on the rise and more sports turf managers are getting involved at the design level. Yet some things remain crucial, such as proper drainage and follow-up maintenance. Here’s a look at six new, state-of-the-art fields and the thinking behind them.

17 SHREVEPORT COUNTRY CLUB BENDS TRADITION
Said to be the oldest golf course in Louisiana, Shreveport Country Club has a long tradition. It broke tradition last fall when the club switched to bentgrass greens. Superintendent Jim Brown reveals what it took to make the break from bermuda and the challenge of raising bent in the South.

20 WINTER OVERSEEDING: GAINING CONTROL OVER TRANSITION
Overseeding has changed considerably since the days of annual ryegrass. Improved varieties and different turf species come into play. To avoid problems with transition, the turf manager needs to know the characteristics of each type of cool-season grass in overseeding mixtures and blends.

22 GROWING NATURAL TURF INDOORS: PROTOTYPE LOOKS PROMISING
Research conducted at Michigan State University about growing natural turfgrass indoors has been promising enough to cause a British investor to build a par 3 golf course in Flint, MI. The results of traffic and fertility studies are presented by members of the research team.
From the City of Fountains

Models from ½-hp. to 5-hp.

FONT’N—AIRE combines the beauty of a romantic fountain with the benefits of an efficient aerator.

Nothing moves water like a propeller...AIR-O-LATOR has been involved in propeller design and the technology of aerating since 1967.

The one horsepower electric motor by Franklin is operated as a permanent split, capacitor run unit for maximum energy efficiency.

We Believe we can honestly claim the most energy efficient fountain on the market.

DEPT. CODE # GST-891

AIR-O-LATOR®
Sales Office/Plant/Service Center
8100-04 Paseo, Kansas City, Missouri 64131
1-800-821-3177 (Toll Free) • (816) 363-4242 (Missouri Residents)
WATER SHORTAGE BRINGS OUT IMPORTANCE OF PUBLIC TURF

As water continues to be a scarce commodity in the Southwest and its price continues to rise, it's interesting to see where schools, golf courses, and parks spend their water dollars.

After five years of inadequate rainfall, athletic fields and golf courses remain green and in play. That says a great deal about the value of sports turf in this country.

To really appreciate the value of water, you have to experience water rationing personally. For the past two years, I have had to shut off the sprinklers for my lawn. That's a tough thing for a turf editor to do, but there was no choice if I hoped to protect my trees and plant beds. I painted the scorched turf last year. This year, there wasn't enough turf left to paint.

During the past two years however, the School Board and the baseball and soccer leagues have worked closely together to build new fields and to improve the irrigation systems at our schools and parks. Residents have chipped in to add new laterals, upgrade sprinkler heads, and buy seed and maintenance equipment. Use of all facilities for games and practices is closely monitored and coordinated among community groups. Fences have been installed to guard against overuse or vandalism.

The community as a whole has sent a clear message to its elected leaders that our parks and school fields must have priority at budget time. Even though our own lawns are brown, we will not tolerate poor turf conditions at our parks and schools.

If anything, the quality of our facilities has improved during these trying times. We no longer take our public sports facilities for granted. Attendance is up at games. Parents don't balk at sticking around after games or volunteering their time on the weekends to work on the fields. Even the kids have learned not to abuse the fields and equipment.

The planning board has gotten the message. No new development will be approved without setasides for parks, schools, and public golf courses. That requirement needs to be extended to include water as well as land.

As water becomes scarce, the condition of public turf facilities gains in importance. People will make the sacrifices necessary to protect their community athletic facilities. They aren't amenities, they are necessities. People will fight for them if challenged. Water shortages may be the challenge we've needed to support what the turf industry has been saying all along.

Bruce Shanks
NO ONE COMES REMOTELY CLOSE.

Who has the only remote transmitter and receiver featuring a 5 mile range and guarantees a 1 mile non-line of sight transmission?

RAIN MASTER

Whose remotes are the only ones housed in water tight cast aluminum for rugged use and durability?

RAIN MASTER

Which company offers a remote that will provide complete control over any solid state or electro-mechanical controller?

RAIN MASTER

With THE REMOTE™, an individual can test and check systems alone: therefore saving manpower, time, and money. Lease plans are also available. Who gives you all this and more...

RAIN MASTER

"Where control is our only business."

Circle 124 on Postage Free Card

4645-2B Industrial Street
Simi Valley, CA 93063
Tel: (805) 527-4498
Fax: (805) 527-2813
By Matthew Trulio

By most accounts, business has been steady in the sports field construction and renovation business during the last year-and-a-half, despite the current recession. Credit the flux to increased demand for playing fields, a renewed focus on quality and aesthetics, or even sports turf liability issues (and when a million dollar field may protect the knees of a $10 million athlete, those issues become large indeed). The result is more top-notch facilities. And that's a good, healthy sign for field builders and sports turf managers.

If a single trend or focus emerges from the fields of 1990-91, it is not a particular type of field construction system, irrigation set-up, fertilizer program, or grass variety. No new technology has broken from the pack to lead all others. What they do have in common, however, is a heavy emphasis on drainage. All facilities in this article listed drainage as a key goal in their construction. This may be because a growing number of superintendents and grounds managers, who realize how drainage dramatically affects turf health and day-to-day field playability, are getting involved in the construction of the fields they manage, at the design level.

Here is an overview of a half-dozen fields at the collegiate and professional levels. Far from a complete list of all the natural turf (another growing trend) facilities constructed in the last year-and-a-half, this article chronicles only six high-quality, state-of-the-art fields. Many more top-notch diamonds and gridirons were constructed in 1990-1991. Undoubtedly, many more will follow.

University Of Florida: Quality Within The Budget

After a number of years with an artificial surface in Hill Griffin Stadium-Florida Field, University of Florida, Gainesville officials decided it was time for a change, but a change within their financial means. They reviewed several field systems before making their final decision.

"Economically speaking, the USGA sand-based field we put in at Hill Griffin Stadium-Florida Field offered considerable..."