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Manhattan II					
Citation II					
Pennfine					
Overall Quality	California '85	7.1	6.4	7.0	—
	New Jersey '86	7.2	5.5	6.9	5.5
	New Jersey '87	6.1	4.3	5.8	4.3
	Oregon '86	7.0	6.6	6.9	—
	Oregon '87	6.9	6.1	6.2	—
Net Blotch Resistance		7.0	4.0	8.0	4.0
Least Stemminess		7.0	6.3	6.7	—
Darkest Color		8.0	7.0	7.3	7.0

9 = best

1 = worst

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Golf & sportsTURF Magazine
(ISSN 1049-0000)

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VOLUME SIX, NUMBER NINE

SEPTEMBER 1990

MAIN EVENTS

12 FALL FIELD CONDITIONS DEPEND ON YEAR-ROUND CARE

Heavy rainfall this summer has put a strain on many football stadium and practice fields. This article provides two examples of facilities that were renovated to withstand the fall football season, Port Washington High School Stadium in Wisconsin and Auburn University in Auburn, AL. Both were turned around by sports turf managers who realize that football field maintenance is a year-round commitment.

22 UNCOVERING THE BENEFITS OF COVERS

Geotextile covers were originally tested in the northern United States to protect bentgrass greens in the winter and to accelerate greenup in the spring. Today they are being used to prevent winterkill of hybrid bermudagrass in the South, to speed up establishment of seeded turf, to protect greens and tees from frost, and to help bentgrass compete with annual bluegrass in the winter.

26 CAPTURING THE GOOD POINTS OF CLAY

Every textbook on turfgrass management stresses the negative characteristics of clay in rootzones. However, clay can also offer benefits such as nutrient and water retention. Certain types of processed clay can deliver these benefits without the drawbacks of raw clay.

29 EVALUATING ORGANIC AMENDMENTS FOR SAND-BASED TURF SYSTEMS

The popularity of sand-based rootzones for high-performance sports turf facilities has drawn attention to the sand contained in these rootzones. An equal amount of attention is required for the organic components of sand-based turf systems. Soil expert Charles Dixon reveals that there are important differences among organic amendments which can have a profound effect on the establishment and future maintenance of sand-based greens, athletic fields, and race tracks.

LINE-UP

- 8 FRONT OFFICE
- 8 EVENTS
- 33 CHALKBOARD
- 34 ROOKIES
- 42 SCOREBOARD

COVER: Jordan Hare Stadium at Auburn University in Auburn, AL.

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Hazeltine National Golf Club
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After aerating, reseeding and topdressing various areas on the golf course this past fall, we installed our Evergreen covers. The results were excellent! Good growth continued even during cold, dormant growing conditions. These areas went from 60% coverage to nearly 100% in early spring. Healthy root development was well underway. The Evergreen covering system extended our growing season at least one month in the fall and spring while providing winter protection.

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"Over the past few years we have tested a variety of materials designed to protect our greens throughout the winter. In late fall we installed 18 Evergreen one-piece covers. Installation and removal was easy and took less than one day. Our covers can now be re-used for years to come. This unique Evergreen covering system is exactly what I was looking for and I recommend them as a positive management technique."



1) **EVERGREEN** is removed from its handy storage bag.



2) The cover is unrolled onto the green or tee.



3) The cover is unfolded onto green or tee.



4) **EVERGREEN** is secured with anchoring pegs supplied with each cover.

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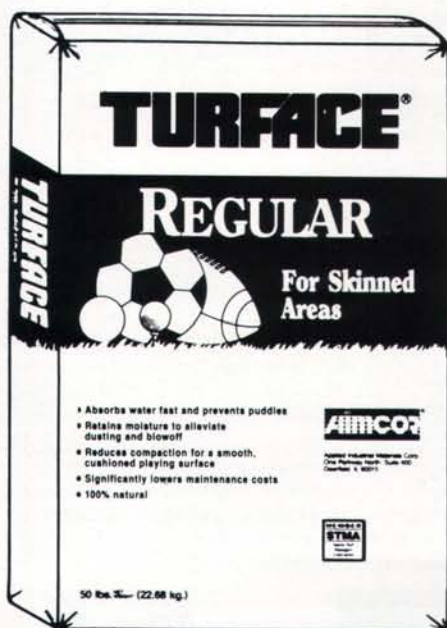
Introducing ... The Family of TURFACE® Products.

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unique properties that enable them to resist compaction, absorb water and retain nutrients in the soil.

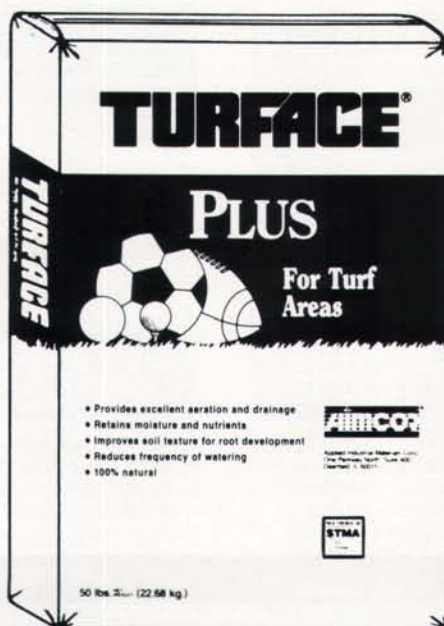
TURFACE gives you puddle protection and water conservation season after season. By absorbing water and releasing it slowly, TURFACE helps keep turf areas green during drought conditions, minimizes dusting and blowoff on skinned areas and virtually eliminates standing water and run-off on both of these areas during rainy periods.



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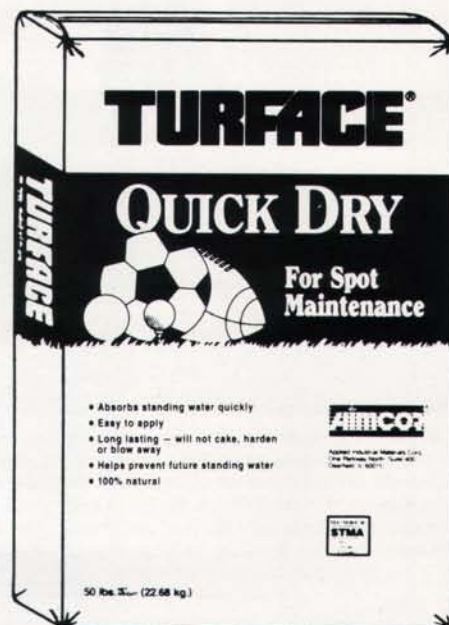
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Promotes strong healthy turf that will be ready for play right after the rain ends.

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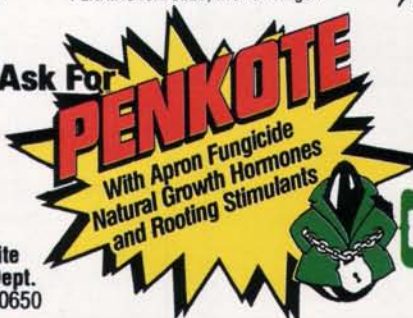
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THE FRONT OFFICE

OPINION PAGE

CONSTRUCTION OUTLOOK BRIGHT FOR '90S



Watch out golf course industry, the athletic field market is going to make your boom look like a golf ball next to a soccer ball, at least in terms of the number of new facilities planned.

The number of golf courses on the drawing boards is well-known, thanks to the National Golf Foundation. According to the NGF, between 300 and 400 golf courses will be constructed each year for the rest of the decade if the golf industry is to meet the needs of this country's growing golfer population.

Unfortunately, there is no group like the NGF for the athletic field industry. The market consists of a number of different sports provided by many different types of institutions: the big three being colleges and universities, parks, and high schools. Organizations, representing either the sports or the institutions, have yet to calculate the total number of fields in their category.

However, a national business publication has surveyed its readers who manage recreational facilities in order to project the growth of the sports industry over the next three years. By taking its data for all types of recreational facilities and breaking out just the figures for athletic fields, we can get a rough (and probably conservative) estimate of the number of athletic fields currently planned.

The resulting figure is approximately 18,000 new (not renovated) softball, baseball, football and soccer fields and outdoor tracks to be constructed over the next three years. More than half of this construction will take place at high schools across the country as enrollments start to rise again after a lull in growth during the 1980s. Forty percent of these facilities will be for baseball and softball and 25 percent will be for football (stadium and practice). Soccer represents about ten percent of construction planned by high schools.

Park districts will be building more than 4,000 new fields in the next three years. Again, baseball and softball lead the type of sports facilities planned by almost two-thirds. However, soccer jumps into second place with about 25 percent of new construction.

Colleges and universities are planning to build over 3,500 new fields. One out of six of these fields will be for soccer, one out of five will be football stadium or practice fields, and four out of ten will be used for baseball or softball.

The survey paints a bright picture for the sports turf industry in the 1990s. The second wave of the post-war baby boom will hit this decade, regardless of the state of the economy. Participation in sports has begun to climb steadily at the high school level. It will spread quickly to the college and university level. Furthermore, this generation will be seeking personal fitness as well as recreation. Its involvement in sports will extend into adulthood placing an unceasing demand on parks, golf courses, and health clubs.

It is imperative that industry professionals get the point across that only properly constructed, well maintained sports facilities are safe and durable. Too many athletic facilities were improperly constructed and inadequately maintained in the past. There is no reason to make the same mistake during the '90s.

High schools, parks, and colleges must hire qualified contractors to build their fields and employ trained sports turf managers to maintain them. They must invest in skilled personnel, efficient equipment, and supplies to protect their investment and insure the safety of athletes and the environment. Finally, they must recognize sports turf managers as professionals and delegate responsibility for decision-making to them.

From all indications, the sports turf and golf course industries will shine in the '90s. While other industries may be in decline, ours will be growing steadily. The proof is in the numbers.

Bruce F. Sherk

EVENTS

CALENDAR

SEPTEMBER

30-31 Florida Turfgrass Association Annual Conference and Show, Orange County Convention Center, Orlando, FL. Contact: FTA, Inc., 302 S. Graham Avenue, Orlando, FL 32803-6332, (407) 898-6721.

OCTOBER

3-4 30th Annual Southern California Turfgrass Expo, Orange Country Fairgrounds, Costa Mesa, CA. Contact: SCTC, (714) 951-8547.

21-24 National Institute on Park and Grounds Management Annual Educational Conference, Reno, NV. Contact: NIPGM, P.O. Box 1936, Appleton, WI 54913, (414) 733-2301.

NOVEMBER

5 Guelph Turfgrass Institute Third Annual Symposium. Royal Canadian Legion, Guelph, Ontario. Contact: Mira Soni, Div. of Continuing Education, University of Guelph, Guelph, Ontario, Canada, N1G 2W1, (519) 824-4120.

12-14 Penn State Golf Turf Conference, Keller Conference Center, University Park, PA. Contact: Dr. Joseph Duich, Dept. of Agronomy, 119 Tyson Bldg., University Park, PA 16802, (814) 865-9853.

13-16 New York Turf and Grounds Exposition, Rochester Riverside Convention Center, Rochester, NY. Contact: New York State Turfgrass Association, P.O. Box 612, Latham, NY 12110, (518) 783-1229.

28-30 Golf Course Europe '90, Parc des Expositions du Bourget, Paris, France. Contact: Expoconsult, Industrieweg 54, Postbus 200, 3600 AE Maarssen, Holland. Telephone: 03465 73777, Fax: 03465 73811.

DECEMBER

4-6 North Central Turfgrass Exposition, Ramada Renaissance Hotel and Prairie Convention Center, Springfield, IL. Contact: Illinois Turfgrass Foundation, (312) 644-0828.

10-13 Ohio Turfgrass Conference and Show, Cincinnati Convention Center, Cincinnati, OH. Contact: John R. Street, Ohio Turfgrass Foundation, 2021 Coffey Rd., Columbus, OH 43210, (614) 292-2601.

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