IMPORTED WEED CALLED THREAT TO TURF

A perennial weed being imported into the U.S. and other countries in foreign-grown seed has been called a threat to turf managers by an independent seed testing laboratory. Seven states have already placed the weed on their prohibited list, meaning that seed sold in these states must not contain any seed of the plant.

Dale Kern, president of Seed Technology of Marysville, OH, says there is no selective control for the grassy weed called serrated tussock. The clumpy weed spreads aggressively under dry conditions, as it has in Australia, New Zealand, South Africa and Argentina. It has recently been discovered in tall fescue, ryegrass and bermudagrass seed imported from these countries.

"Unfortunately, as we see more and more imported seed enter the country, serrated tussock may be only the tip of the iceberg," warns Kern. He points out that in Australia alone, 184 potentially serious weeds are known which are not currently prohibited as noxious weeds in the U.S. "It's more important than ever to keep prohibited weed lists updated," he adds.

Kern foresees a fivefold increase in imported seed over the next three years. One reason is the periodic banning of field burning, a process used by seed growers in the Pacific Northwest to clean their fields after harvest of debris, insects and diseases. "Seed producers have to turn overseas to get the growing flexibility and economic advantages they need," Kern states. "It's hard to quarrel with that if it keeps quality seed affordable."

Turf managers have several options to avoid planting seed contaminated by imported weeds, says Kern. The first is to press state officials to keep noxious weed lists updated. Another is to buy only certified seed with the tagged analysis still on the bag. Turf managers can also send seed to state or independent labs for testing.

"Nine-tenths of the battle is prevention," he states. "Some of these weeds may be very difficult or impossible to eradicate once they're in your turf."

IBA INKS FIVE-YEAR DEAL WITH ASTROTURF

AstroTurf Industries, Inc., headquartered in Dalton, GA, and the International Baseball Association (IBA), based in Indianapolis, IN, have reached an agreement designating the company as the official supplier of synthetic turf to the IBA.

The IBA is the governing body of amateur baseball around the world. With its 65 member countries, it organizes the Olympic baseball tournament, Senior World Championships, Intercontinental Cup, President's Cup, and two annual world youth championships.

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FROM THE EXECUTIVE DIRECTOR

It has been a very busy time for the Sports Turf Managers Association. We have begun to implement all of the plans for the Annual Meeting and Conference, scheduled for January 19-21, 1990 in Houston, TX. The program is being reviewed by the board and should be ready for publication in next month's Extra Point. Exhibitors have begun to reserve their booths inside and demonstration areas outside. I think you'll find the seminars and the exhibits worth every penny of your trip.

The Western Sports Turf Institute at Cal Poly in Pomona was a tremendous success and the Midwest Sports Turf Institute at Harper College in Palatine, IL, is ready to go in June. A date will soon be set for the Northeastern Sports Turf Institute at Holy Cross College in Worcester, MA. By the end of the year, nearly 1,000 sports turf managers will have taken advantage of STMA regional educational seminars.

STMA also had the opportunity to strengthen our international ties by hosting a delegation of 50 representatives from the Institute of Groundsmanship in England. The IOG members were given a tour of some of the major sports turf facilities in Southern California. This provided a great opportunity for our local members at these facilities to exchange ideas and experiences with their counterparts from Great Britain.

The board of directors and executive committee will be meeting this month in Houston. We will be looking over the site and making final arrangements for the conference. The primary topic on the agenda is amending the STMA bylaws. The bylaws, which the association is currently governed by, were drawn up when we became an independent organization. Because STMA has grown in size and stature it is necessary to revise our bylaws to reflect these changes.

As always your input as members is welcome and needed if STMA is to continue to grow and be of service to all who work in and are affiliated with the sports turf industry.

Mark Hodnick

DUES INCREASE EFFECTIVE THIS SUMMER

The board recently approved the first increase is STMA dues in more than four years. The change was necessary in order to meet rising costs and to increase the effectiveness of the organization. The new dues take effect on July 1 and will be reflected in invoices to be mailed later this month.

The new dues structure (in U.S. dollars) is as follows:

- Professional Sports Facility Managers $75
- Additional Members From Professional Facility $45
- Four-Year Colleges/Universities $75
- Additional Members From Colleges/Universities $45
- All Other Schools, Parks, Extension Agents, Municipal Facilities $50
- Additional Members From School, Parks, Municipal Category $30
- Students $20
- Commercial Affiliates (U.S. and Foreign) $150
- Additional Affiliate Members $30
- Person Outside U.S. Other Than Commercial Affiliates $50

MIDWEST INSTITUTE OFFERS FIVE STEPS TOWARD PROFESSIONALISM

Sports turf managers in the Midwest can gain a broad knowledge of athletic field management in just one day, June 21. That is the day of the annual Midwest Sports Turf Institute to be held at Harper College in Palatine, IL.

The theme of this year's event is, "Athletic Field Management: From Design Through Maintenance, Everything You Need To Know." While the title is long, the content of the meeting has been broken into five easy-to-grasp steps.

- Step one is "Planning/Design, What's Involved" by Claude Rodgers of Leisure Concepts and Design, Mt. Prospect, IL.
- Step two, presented by Marc Van Landuyt, is "Construction, the Hows and Whys." Van Landuyt is president of Van Enterprises in Mundelein, IL.
- Step three is "Seed Selecting, Choose the Right Turf" by Greg Petry, park superintendent of Waukegan, IL.
- Step four is "Equipment Used on Athletic Fields: Past and Present" by Bob Tegenoff of Howard Price Equipment, Chesterfield, MO.
- Step five is "Maintenance, Attention to Detail Makes the Difference," by Greg Petry, park superintendent of Waukegan, IL.

Outdoor exhibits and demonstrations will round out the day's events. Lunch will be served on campus.

STMA encourages all members and nonmembers to take advantage of this unique "hands-on" educational experience. Call Ginnie at STMA headquarters or Chuck Gura at Harper College (312) 387-3000 to sign up for this once-a-year event.

CATCH THE ACTION

Mark your calendar.

June 21 - Midwest Sports Turf Institute
Harper College, Palatine, IL.

September (TBA) - Northeast Sports Turf Institute.
College of Holy Cross, Worcester, MA.

Sports Turf Managers Association

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When the Colts slipped out of Baltimore in the dark of night, the state of Maryland was shocked. How could a professional franchise leave a market with such a tremendous interest in sports? Had some oversight or lack of cooperation contributed to the team's departure for Indianapolis? The city and the state were in a state of disbelief.

A second blow hit Baltimore a few years later, although it never made national news. Again the sport was football, and again the result was embarrassment and disbelief. This time the victims were the members and coaching staff of Towson State University's Tiger football team. The week before summer drills began, the athletic trainer and doctors from the university's department of sports medicine declared the university's practice field unsafe for play because it was compacted and uneven. Practices were moved to another field, but it was the straw that broke the camel's back. The university's baseball stadium, Burdick Field, was also suffering from an insufficient maintenance program. The NCAA Division I Tiger baseball team did not want the same thing to happen to them that happened to the football team. From this humble position, a new spirit of cooperation arose. And amazingly, two short years later, Burdick Field was awarded the Baseball Diamond of the Year Award in the collegiate category.

To Hoke Smith, president of the state university with more than 15,000 students, 1986 was the year to draw the line and to uncover the flaw in the system that led to such a senseless situation. He wanted to assure the students, coaching staff and alumni that something like this would never happen again.

To get to the root of the problem, Smith called Athletic Director Bill Hunter to his office. Hunter knew the problem wasn't the skill or knowledge of the athletic department or physical plant staff. A long career in professional sports had taught him that the difference between an average field and a great one involves a commitment to quality by both the management and the grounds crew.

Before joining Towson State in 1979 as athletic director and baseball coach, Hunter had played for the Orioles, Dodgers and Yankees, coached third base for the Orioles, and managed the Texas Rangers. The previous year he had put together a ten-year plan to refurbish the university's athletic facilities and appointed Joe Ardolino as assistant athletic director in charge of them.

Placing the assistant athletic director in charge of athletic facilities was a novel approach for universities, especially since Hunter and Ardolino felt the facilities maintenance staff should report to the physical plant department and not to the athletic department.

Ardolino, a graduate of Towson State University and former attacker for its long-successful lacrosse team, also had a master's in athletic administration from the university. He had given up his assistant coach's position on the lacrosse team to focus all his attention on finding new ways to coordinate management and financing of the athletic facilities on the 300-acre campus.

Paul Thomas had worked his way up the ladder of the physical plant department to become grounds superintendent. He had stretched every dollar of his grounds budget as far as he could without some financial assistance from the athletic department.

"We had meetings before, so I was aware of the athletic department's needs and they were aware of my budget and time restrictions, but nothing got solved," recalls Thomas. "When President Smith formed an ad hoc committee to study the problem, things started to happen."

The committee consisted of representatives from the physical education department, the physical plant, the department of intramurals and recreation, auxiliary enterprises, sports medicine department and academics. The president wanted his faculty and staff to collectively contribute to solving the problem.

"The facts are that the university is growing by leaps and bounds and the demand on our facilities is greater and greater," Ardolino says. "At one time only 20 percent of the students lived on campus. Now the campus population has reached 18,000 and 40 percent live on campus. We have more students who want to participate in a growing variety of sports. We have to find ways to meet this demand within our budget." For example, Ardolino points out that participation in intramurals has jumped, with more than 66 different teams in softball alone.

"It was clear that the university departments using the grounds and athletic fields had to infuse dollars into the existing grounds budget if we were to help Paul Thomas and other groundbreaking dreamers."
The improvement of Burdick Field began with the installation of new dugouts. All supplies, materials, equipment, and labor were donated by local contractors, supporters of the baseball program, players, coaches, administrators and staff members. After the dugouts were completed, they presented a stark contrast to the infield, which was in "deplorable condition," according to Ardolino.

Just as Hunter and Ardolino started figuring out a way to correct the condition of the playing field, the dreaded announcement about the football practice field was made. Compaction and unevenness were cited as the primary reasons for declaring the field unsafe and President Smith formed the ad hoc committee that would set so many changes in motion.

While attending a local athletic field seminar, Ardolino met George Toma, director of grounds for the Kansas City Royals and Chiefs. Toma suggested that Pat Santarone, groundkeeper for the Orioles, was the person he should contact for help.

Santarone has been a professional league groundkeeper for more than 35 years. He has served the Orioles since 1968 and has been a consultant to universities, racetracks, and other sports turf complexes across the country. "There is a whole lot you can do to improve baseball fields if you have the knowledge and fortitude," he remarks.

Hunter made the call to Santarone, since they had been friends for years. Santarone invited Ardolino to visit Memorial Stadium and also met with Hunter, Ardolino and Thomas at Burdick Field. "Pat's suggestions were drastic," recalls Ardolino, "but they were the only ways to correct the situation and establish a good field that could be maintained on a continuous basis.''

Santarone recommended completely excavating the infield to restore a proper grade. "First you need to establish a center line from home plate through second base to the center field wall," he advised. "Water flows away from this center point which can be as much as 18 inches higher in center field than it is deep in foul territory."

The outfield grade was satisfactory, but 18 years of adding dirt to the infield had raised some areas as much as 16 inches. The entire infield plus the first 15 feet of the outfield had to be regraded.

Santarone gave Ardolino formulas for the infield dirt, the pitcher's mound and the batter's box. He also suggested installing 4x4 treated lumber as permanent foul lines in the outfield, along the warning track in front of the dugouts, and around the coaches' boxes and practice mounds in the bullpens. The wood only has to be painted two or three times a season, instead of marking lines weekly. It also retains the stone dust and keeps the turf from encroaching.

Time was limited. They could not rip up the field until the end of the fall baseball season on October 25, yet they had to have a playable surface no later than February.
8— not great growing weather for the area.

Furthermore, no funds had been budgeted for such a project. They had a plan, but no money, and only two weeks to secure the needed equipment, supplies and labor before the fall baseball season was to end.

Ardolino and Thomas determined what aspects of the project could utilize university resources and identified others that required outside help. Labor became their greatest concern. Both men had limited manpower due to their other daily operational responsibilities. They decided to utilize their staff only on an as-available basis and to tackle the problem primarily by recruiting volunteers.

A list of potential volunteers was constructed and Ardolino and Thomas both went to work in an attempt to secure commitments. The engineers in the physical plant department agreed to donate their time to set the field grades. Several of Thomas' crew volunteered to help out.

Ardolino happened to have on his staff a former City of Baltimore employee who had worked under Santarone at Memorial Stadium. Frank LiPira could not hear or speak, but he knew how a baseball field should be renovated. His schedule was arranged so that he could work on the project full-time. The Tigers baseball team anxiously volunteered the remainder of the labor necessary to complete the project. Within the first week, all labor commitments were finalized.

The next largest concern was the excavation. The university did not have the necessary equipment or operators to remove 200 cubic yards or more of excess soil. Hunter approached Potts & Callahan Excavation, the company that had donated equipment to build the dugouts. By convincing the excavation company and Santarone to help out, the athletic director secured the two biggest pieces of the puzzle in time for the project to go forward.

With all the necessary components in place, Hunter, Ardolino and Thomas got together to discuss further the feasibility of the project and to make a final decision.

There was still some apprehension about going ahead, but the prospect of creating a safe and respectable field outweighed any doubts.

They agreed to concentrate their energies on completing the infield and the dugout warning track areas for the spring season. Other related projects, such as an irrigation system and subsurface drainage, would be phased in when time and funding allowed.

On a Sunday afternoon, seven days after the project had begun, the regraded infield was ready for the sod. Santarone recommended sod containing a mixture of five Kentucky bluegrasses which could be overseeded later with perennial ryegrass. The five cultivars were Adelphi, Baron, Ram I, Touchdown and common Kentucky bluegrass. The common was included for its toughness, while the other four provided better color, texture and disease resistance.

As the sod was laid, Ardolino and LiPira used NCAA specifications to outline all the areas of the infield, including the bases, home plate area, mound, coaches' boxes, fungo circles, and warning track. Three straight days of rain followed, which helped the sod but delayed the rest of the project by almost a week.

Once weather permitted, LiPira and Ardolino constructed the mound and batter's box, while Dave Taylor, the new foreman for athletic fields, and his assistant, Mike Andrychuk, installed the 4x4s. The baseball players helped out by building the warning track, fungo circles and coaches' boxes.

Santarone made regular visits to inspect the work and to give tips. He noticed one low area of the infield and suggested to the tired volunteers that the sod there be lifted so that more topsoil could be added. Having come this far in four weeks, the crew did not hesitate to correct the low spot. Santarone also felt that the dirt removed from the basepaths could be reused with the addition of a calcined clay soil conditioner.

With the infield dirt still piled outside the fence, bad weather and heavy morning frosts brought work nearly to a halt. The thought of not being able to complete the infield before winter set in became a worry.

By late June in 1987, Ardolino and Thomas realized that automatic irrigation for the infield was essential. "The infield at Burdick is different from all the rest of our campus turf," Thomas explains. "It's high-maintenance turf and has to be managed that way. We cut it lower (1 to 1 1/2 inch), usually three times each week. It also needs more water and fertilizer (3 1/2 lbs. of nitrogen per year from Nitroform and one late fall application of urea)."

Santarone helped out again, providing Ardolino with a design for an infield irrigation system. The heads were valved so that the dirt could be wet down separately from the turf. Again, the athletic department tapped into its facilities improvement budget to pay for the Toro system, and Thomas' staff installed it that fall.

By the end of 1987, Burdick Field was complete. Cooperation among departments and the generosity of a host of volunteers had overcome typical university budgetary limitations. The Tigers had their field in top shape to take on their NCAA competitors.

"The baseball team could not wait to play at home," boasts Ardolino. They had a new
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CHIPCO SEVIN is a registered trademark of Rhone-Poulenc for carbaryl insecticide.
Field and a new coach. Hunter had promoted assistant coach Mike Gottlieb to head coach. After a slow start, the team rebounded to finish the regular season with an overall record of 27-15-1 and a conference record of 12-2-0. The Tigers earned the privilege of hosting the East Coast Conference Championships for the first time ever.

More than the team was tested during the championships. The field and the entire baseball facility were also challenged during what was supposed to be a three-day event with eight games. Rain began to fall two days before the opening day. Friday, May 6, and continued through the first scheduled day of the championship. It did not stop raining until 9:30 that night. The games committee pushed the schedule back one full day, hoping to begin at noon on Saturday.

Friday night, Ardolino and LiPira tried to remove the standing water from the warning tracks and turf. Only the mound and the home plate had been covered with tarps. It was impossible to walk on the basepaths. They were not encouraged when they left the field that night.

They returned the next morning at 6 a.m. to help Thomas and his crew work on the infield dirt. By working soil conditioner into the basepath mix, excess water was absorbed and firm footing was restored. All standing water was gone from the turf, and the field was mowed in time for warm-ups for the first game.

Three consecutive “beautiful days for a ball game” followed. In front of their home fans, the Tigers won two games to advance to the championship against Delaware. For many spectators, it was their first glimpse of the new facility. Over 20 professional scouts watched the games over the three days and commended Hunter, Ardolino and Thomas for the condition of Burdick Field. “Every coach involved in the tournament, as well as the Games Committee, could not believe it was possible to host the tournament that weekend,” boasts Ardolino.

The Tigers dominated Delaware and won by a score of 21 to 9. They won the championship in front of the home crowd—and on a field they helped build. From there, they traveled to Miami for the national championships.

Many at Towson State believe that the team’s success could be linked directly to the field. That season the Tigers posted the fourth best fielding percentage in NCAA Division I baseball. Four Tigers were selected as all-conference players and pitcher Chris Nabholz was drafted by the Montreal Expos.

Ardolino realized that maintenance was just as important as rebuilding the field. He was determined to protect the athletic department’s investment of both time and money by reserving part of his facilities improvement budget for maintenance.

On one hand, he felt that the athletic department should not take over field maintenance. On the other, he wanted enough control over maintenance so that he would not have to compete with other departments and projects for the attention of the grounds staff.

The decision was made for the athletic department to use part of its facilities improvement budget to hire athletic field specialists. They would be part of the AD staff, but they would be managed on a daily
basis by Thomas. The department would also pay for supplies needed by the athletic field specialists that were not already covered by the existing grounds maintenance budget. "The idea was to supplement the grounds crew with personnel and supplies, not to create a separate grounds staff," explains Ardolino.

Paul Thomas, grounds superintendent.

For its investment, however, the athletic department expected more control over field maintenance than it had before. Ardolino had picked Santarone's brains for months in an effort to discover the maintenance practices necessary to keep Burdick Field in top condition. He shared many of these ideas with Thomas.

The two agreed that a specified routine for each campus field was needed to help direct the athletic field specialists. "It took us a whole semester to work the kinks out of a routine for Burdick Field," Ardolino admits. "But when we were finished, we had one plan for the whole year, and another one which spelled out what has to be done on game days, practice days and off days.

"Joe and I meet first thing every day to go over the field schedules, special events or weather problems," says Thomas. "I make sure everything gets done right and on time. He makes sure the crew has everything it needs. It worked so well for Burdick Field, we now have a preplanned routine for our football, lacrosse and intramural fields."

Ardolino hopes that other university departments will infuse dollars into the facilities improvement budget. "I never expected to learn so much about sports turf management," reflects Ardolino. "But without that knowledge, I wouldn't fully appreciate what the grounds crew needs."

"Now I know it takes both knowledge and money to do the job right, that is why we decided to provide funds for trained athletic field specialists. I think universities today have to make a commitment to proper turf care if their athletic facilities are to remain safe and in use. Our dark days are over, and we intend to keep it that way!"
Dollar Spot first appears as yellow-green blotches on grass blades. Overall view of affected area shows patches from a few inches to several feet in diameter. Treat preventively at a rate of 1 oz./1,000 sq.ft. every 28 days.

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Anthracnose is most severe on Poa annua and first appears as irregular patches of yellowing turf which eventually turn bronze before fading to light tan. Prevent damage with 1-2 oz. of Banner every 14-28 days.

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