touched up by hand. By tournament time the turf is back in top shape. When the tournaments are over, Banner is applied to get us through the remaining hot portion of the summer.

Maintenance continues in September even though use of the field slows. When the weather cools, we aerify a third time and fertilize with a pound of nitrogen per 1,000 square feet of 18-18-18 sulfur-coated urea. Mowing continues while irrigation is set to be deep and infrequent.

Winter preparation begins in October. Another pound of nitrogen in the form of 27-3-12 with Nitroform and sulfur-coated urea is broadcast following aeration. Since we don't have time to spoon-feed the fields like a golf course superintendent might spoon-feed his greens, we rely on slow-release products. At the end of the month Chipco 26019 is applied for control of snow mold.

Winter preparation is completed in November. All accessories, such as foul ball netting and bases, are removed for repair and storage. Planning for the next year begins immediately.

In addition to a monthly schedule, a baseball facility needs clear pregame and postgame procedures. Pregame work is centered around preparing the dirt and marking the field. Postgame work is more oriented toward the turf.

A thorough inspection after each game or practice will help heal turf scars. Replace divots immediately. Apply a handful of seed (pregerminated preferred) and topdress mix to scuffed areas and where divots cannot be replaced. Turf areas in front of the mound, the batters' boxes, coaches' boxes, and on-deck circles receive more wear than others. For this reason they need frequent aerification, overseeding and topdressing. Eventually, wear and tear may take their toll and sodding may be necessary.

Cooperation between the groundskeeper and those scheduling and using the field is essential to its season-long quality. Create a positive working relationship with players and coaches. Educate the leagues, school, and park departments regarding turf management and field construction. Let them know about the personnel and budget constraints you work under. They will respect you and what you are trying to accomplish.

Communicate with a liaison from the groups and show them what it takes to monitor the quality field they expect. Explain that fields should be rotated to give them time to rejuvenate. If possible, practices or drills should be held on areas away from the infield of "showcase" fields. Establish ground rules for use with players and coaches so they can share in the resulting quality of their home field.

Editor's Note: Greg Petry is Park Superintendent for the Waukegan Park District, Waukegan, IL, and a previous winner of the Baseball Diamond of the Year Award.
MAINTAINING PITCHER’S MOUNDS

By Jim Kelsey

Maintaining a professional quality pitcher’s mound takes more than just sprinkling some clay on the ground, raking it out, and forgetting about it. Properly maintaining a mound is an art, and there are probably as many techniques as there are good groundskeepers.

Here are 11 points that will work for you:
1. If the mound is too soft, recondition it. You can recondition the entire mound, the front triangle, or just the landing area or wear spots around the pitching rubber.
2. Don’t use the same material on the mound and infield. What provides a well-draining and easily scarified infield won’t be firm enough for the mound. Use a firm clay mix.
3. The end result you are working to accomplish is for the entire mound to become one solid, integral unit of compacted clay without any loose layers within it. Otherwise the mound will continue to crack until properly compacted.
4. When conditioning a sandy mound for the first time, remove six inches from the area to be worked to ensure a good base that won’t push out from underneath.
5. Create a bonding layer by mixing at

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least 1/2 inch of clay mix into at least the top one inch of old base. If not mixed, the two materials may crack where they interface and the mound will be difficult to compact properly.

6. Wet and compact the clay mix in layers two inches thick on top of the bonding layer until you reach final grade. Use a heavy mound tamper, and slam it down! If you get the mix too wet, just add more dry material. Put a damp cloth over your tamper to prevent sticking, or tamp over a heavy plastic bag.

7. Get the right moisture content by moistening mound material in a wheelbarrow, bucket, or outside pile, so that when a handful is rolled into a ball, you can just barely push your thumb 1/4 inch into the ball. Cleats will be able to grab yet come off cleanly.

8. Scarify the top surface of the mound so that you have 1/4 inch of loose material over the very firm base.

9. For patching, sweep aside dry material, moisten wear spots, and tamp mound mix back in.

10. For a quicker-drying surface, the mound can be covered with 1/4 inch of calcined clay or sandy infield mix. Be careful not to dilute the mound mix when making repairs.

11. Properly locate and contour the mound. The top of the pitcher’s mound is exactly ten inches above home plate. The front of the pitching rubber is 60 feet, six inches from the apex (pointed end) of home plate. Drive a stake at the proper distance from home plate in line with second base and mark the correct elevation. This marks the front and top surface of the pitcher’s rubber.

The mound is constructed with a nine-foot radius from a point 18 inches in front of the rubber. A flat area around the rubber should extend six inches forward, 18 inches on both sides, and 12 to 24 inches behind the rubber. The mound is not cone-shaped with a peak in the center. Instead it has a flat top 64 inches wide and between 24 and 36 inches deep starting 12 inches behind the center of the mound. The slopes behind and to the side of the top are steeper than the slope in front.
JAPANESE TURFGRASS EXPERTS VISIT VIRGINIA TECH

Japanese delegation visiting Virginia Tech surrounds Dr. Yoshisuke Maki (front row center) and Dr. James McComas, president of the university, to his right.

Dr. Yoshisuke Make, past-president of the International Turfgrass Society, recently led a contingent of 30 Japanese turfgrass professionals on a visit to Virginia Tech in Blacksburg, VA. The Japanese group visited the school in order to observe up-to-date turfgrass research and Extension programs. The visitors included academics, industrialists, golf club owners, and golf club superintendents.

A seminar was given to the Japanese contingent by members of the Virginia Tech turfgrass program. Faculty members also visited with the group during a luncheon and dinner. In addition, the visitors spent a day visiting Michigan State University. Before heading back to Japan, the group attended the 61st Annual Golf Course Superintendents' Association meeting in Orlando, FL.

POITRAS APPOINTED MARKETING MANAGER

Steve Poitras

Steve Poitras has joined the staff of Seed Research of Oregon, Inc., in the new position of marketing manager. Poitras has a bachelor's degree in soil science from Montana State University and a master's degree in agronomy from Washington State University (WSU). His work includes research on seed production, weed control, and prevention of winter injury to golf course putting greens. He has taught weed science and turfgrass labs at WSU. In addition, he has nine years of golf course experience, three of those as a superintendent. He is a member of the Golf Course Superintendents Association of America.

Numerous papers authored by Poitras dealing with seed production and turf maintenance have been published. He has received several scholarships, including one from the Wyoming-Montana Golf Course Superintendents Association.

SKOGLEY HONORED

Dr. Richard Skogley, a former professor at the University of Rhode Island, was honored recently by Professional Turf and Landscape Conference, Inc., on the eve of its annual meeting in White Plains, NY.

Skogley retired from the university after 35 years of service. He was an innovative researcher who contributed to the development of the turf industry.

Bill Renzetti, executive secretary of the conference, commented, "Legions of Dr. Skogley's students will forever be indebted to him for his unselfish commitment to their professional growth and for always being available when they called upon him for assistance. He never held back. Dick is a true professional, educator, humanitarian, research specialist, and above all, a nice person."
Baseball is generally not the first game that springs to mind when you think of sports in Canada. It's true that Canada does have two professional major league baseball teams, the Montreal Expos and the Toronto Blue Jays, and the hometown fans of those teams are as devoted as any. But hockey is the game that the country embraces above all others. Thousands of hockey rinks dot the towns, cities, and provinces of our northern neighbor. Children there often start playing hockey before they can lace their own skates.

But in London, Ontario, an industrial city located 60 miles north, and across Lake Erie, from Cleveland, OH, baseball's popularity rivals that found in any city in the United States. London, with a population of approximately 300,000, has 450 teams in its Sio Pitch softball league alone, and various baseball leagues are open to players of all ages.

In the winter, 325 teams in London brave snow and sub-freezing temperatures to play “Snow Ball.” A large, highly visible orange ball is used for the game, and rules are the same as those of Slo Pitch softball.

The field that hosts all these games is Labatt Park, winner of the 1989 Beam Clay Diamond of the Year Award in the Professional Division. Not coincidentally, 1989 was the same year that the AA affiliate of the Detroit Tigers, appropriately named the London Tigers, began calling this Canadian city home.

Field quality is what attracted the Tiger organization to Labatt Park, and the man charged with maintaining this outstanding, 112-year-old diamond is superintendent Mike Regan. He has cared for and nurtured the diamond since 1982.

Labatt Park was constructed in 1878, on “the forks” of the Thames River. The diamond’s outfield is close enough to the river’s edge for home run balls to land in the water.

The field was owned and operated by Labatt Canada Breweries until 1936, at which time it was donated along with $10,000 to the City of London. The donation was put to use in 1937 when the Thames overflowed its levy and wiped out the Labatt Park main grandstand.

Regan, 32, is a native of London. Like most boys in the London area, he grew up playing hockey and baseball, and he developed a love for both games, as well as an interest in their respective playing surfaces.

As a teenager attending Wheable Secondary School, Regan worked part-time helping to maintain hockey rinks. After graduating from Wheable, he earned his refrigeration license, a requirement in Canada for persons in charge of hockey rink maintenance. He worked for the City of London for several years, maintaining hockey rinks in the winter and swimming pools in the summer. When the position for a superintendent opened up at Labatt Park in 1982, Regan applied and was given the job.

“I didn’t have any education in turfgrass management,” he said. “But I had always been interested in the profession.”

Regan realized immediately that fascination alone would not enable him to maintain Labatt Park, and he read every article on turfgrass management he could find. An article in Sports Illustrated on George Toma was particularly inspirational to him.

In 1985, after “making all the mistakes there were to make,” Regan felt that he and...
Labatt Park

continued from page 25

Labatt Park were on the right course. But he wanted to supplement his hands-on learning with academic study. He enrolled in an independent study course in turfgrass management at Guelph University. "It's a correspondence course," he explained. "You have to be really disciplined to study this way. Most of my studying is done in the winter. I have a few years left to go, but I have accomplished the basic credits for the turfgrass management program."

His knowledge and experience were put to the test in the spring of 1988, when pythium blight attacked the field. At first, Regan didn't know exactly what he was up against. "We're unfamiliar with pythium in this area, because we've never had it before," he explained.

"Our pythium problem started near the visitors' dugout. At first, pythium looks similar to dollar spot and fusarium. They must have brought it in on their shoes. I think the hot, humid summers we've had over the past few years have also contributed to the problem," he said.

Although Regan had never encountered a pythium attack before, he suspected that he was about to. He contacted the superintendent of a local golf course, and the superintendent agreed. "A day later, my field was totally white," Regan said. "That's why pythium is also known as 'cottony' blight."

"Nobody up here stocked the chemicals we needed to treat it, but I managed to round some up. I used Terraneb, a chloronob, to treat it. Now we plan for it. Last year it showed up in June. This year it didn't show up until August," he stated.

Planning and preventative maintenance have played a major role in Regan's success at Labatt. He keeps scrupulous records of his pesticide, fungicide, and herbicide applications, as well as his maintenance procedures. "It's difficult to remember everything you did to a field from year to year," he explained. "That's why I keep records."

His treatment of European chafer grubs with Dursban is a perfect case in point. A common pest in the London area, the insect attacks the plant's root system. Symptoms appear similar to those of drought. "After the grubs are established, you can pull the turf out of the ground like a toupee off someone's head!"

Regan continued, "I attribute our chafer grub problem to our lights and our location, right on the river. In the evening, when you turn on the lights for a game, you attract the adult specimens from around the river. As soon as you turn off the lights, they head for the ground. Fortunately, they have an annual life cycle, so it's easy, by keeping accurate records, to treat them in a preventative fashion. I always know when to expect them, and I know when I last sprayed for them."

"To fully understand the importance of planning to Regan's field maintenance procedures, one need only look at his high-use turf program for 1988-1989. During its six-month playing season, Labatt Park hosts approximately 165 assorted baseball games. "We never have any 'windows' in the baseball schedule," Regan commented. "That's one of the toughest parts of maintaining this field."

In July 1988, the Tigers decided to base their AA affiliate in London. Their season was scheduled to begin in the spring of 1989. The park itself needed renovations, including new light poles and bleachers, which increased the seating capacity from 2,000 to 5,500. The renovation projects, which began in the fall and were mostly completed in the spring, had to be finished before April 6, 1989. The Tigers' home opener was scheduled for that day.

The diamond, which had attracted the Tigers to London in the first place, could not be neglected while the changes to the park were being made. Bob Neska, director of recreation for the City of London who is responsible for the city's recreational areas and their budgets, directed much of the renovation to the park itself, Regan kept the field in top shape.

Regan, his supervisor, Jim Blaxall, and Neska work closely together. "Mike goes to Jim when he needs something, and then they come to me," said Neska. "My hat's off to Mike. To his credit, he's built the field up over the past number of years, and it is exceptional."

Regan is equally complimentary toward Neska. "He's the man who's really helped me the most, especially when I've needed equipment," said Regan. "He spent all his time here during renovations. When I needed someone to make a decision, he was there."

The fertilizing program for Labatt Park in 1988-1989 began in November with a dormant application of C.I.L. Fairway 25-4-10, with 50 percent S.C.U. at one pound per 1,000 square feet. Regan applied the same fertilizer in May and June at .75 pound per 1,000 square feet.

On the same day in November that he put down his first fertilizer treatment, Regan applied Scotts Fluid Fungicide 2 with Quintozene 9-x-20 kg., for the prevention of snow mold.

Topdressing of the infield and home plate area was performed on September 6, using a 50/50, loam-sand mix at one cubic yard per 1,000 square feet. During the next two days, Regan overseeded with Yorktown turf type perennial ryegrass, using a Jacobsen Slit Overseeder. He applied the seed, 400 pounds in all, in two directions.

The entire field is mowed to a height of 1.25 inches. The outfield is mowed five times per week, with a Jacobsen Tri-King Triplex with five-blade reels, in two directions to achieve a striping effect. The infield is mowed daily. Regan uses a walk-behind rotary mower, he said, because it reduces the effects of compaction.

Regan's concern about the effects of compaction on the turf and player safety extends beyond using a lightweight mower for infield mowing. "Outside of nutrition and irrigation, I believe that aerification is the most important thing you can do for the turf," he said. "It promotes a good root structure and nutrient uptake, and relieves compaction."

During the 1989 Labatt Park playing season, the field was aerified after every Tiger home stand, which translated to approximately once a month. Both the outfield and the infield were aerified in two directions on each occasion, and the plugs were dragged into the field. Regan used a Ryan Tow Aerator on the outfield. For the infield, he used a Toro Greens Aerator. When pythium blight appeared, Regan stopped aeration practices until it was under control, to avoid spreading the disease.

The turf is irrigated at a rate of 1.5 inches of water every five days. Irrigation is entirely manual. There are six quick-coupler valves in the outfield, one in the infield, one hand
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valve on the first base side of the infield, and another on the third base side of the infield.

Labatt Park was constructed on an existing flood plain. The infield is sloped at a one percent grade away from home plate, so drainage is not a problem, even during the heavy summer rains. Drainage tiles have also been installed in front of both dugouts.

Regan pays as much attention to the skinned portions of the field as he does to the turf. During the season, he uses Turfase and sand to dry damp spots, and in the fall he rototills them into the skinned areas.

He described his daily maintenance procedures for Labatt Park’s skinned areas. “First we fill in low or worn areas with a redbrick soil, and we drag the basepaths with a steel drag mat to make them level and smooth. Then we brush the edges of the grass with a stiff bristle broom to remove any infield material that has accumulated there and can cause lips.”

Regan continued, “We hand-rake the edges of the infield, and apply water to keep the infield from drying out and becoming hard. If necessary, we water again before batting practice, and we always water the infield and drag it before a game.”

The worn areas around the plate and mound areas are also rebuilt, groomed, and swept. Then they are dampened, allowed to dry so that they are still moist but not sticky, and covered until batting practice or game time.

All things being equal, the daily maintenance procedures and overall cultural practices at Labatt Park are enough to keep anyone working 80-hour weeks. But all things were not equal in London during the fall of 1988 and the spring of 1989—the wet fall of 1988 was responsible for the saturated loam was replaced with a sand/topsoil mix. Local sod farms, experiencing the same saturation problems in their own fields, could not use heavy equipment to harvest sod. Regan finally found a grower in the area who would provide him with 1,000 yards of hand-cut sod.

The wet fall of 1988 was responsible for the saturated soil conditions and the need to replace the entire warning track. “We had to re-sod the infield area around home plate, which had been used for Slo Pitch softball,” explained Regan. “We had to start the job in the fall, so we scurried around to get the sod and installed it. And it rained all fall.

“In the spring, when the frost started coming out of the ground, the resodded area became a bog—you could sink up to your ankles in it. With all the rain we had in the fall, the root system didn’t have a chance to get established before the frost came out,” he said.

The entire resodded area had to be completely excavated, using a skid steer loader. The saturated loam was replaced with a sand/topsoil mix. Local sod farms, experiencing the same saturation problems in their own fields, could not use heavy equipment to harvest sod. Regan finally found a grower in the area who would provide him with 1,000 yards of hand-cut sod.

The wet fall of 1988 was responsible for another renovation problem in the spring of 1989. Three weeks before the Tigers season was scheduled to begin, the new light poles arrived. To set these 110-foot concrete poles, which would replace the existing 55-foot poles, an 80-ton crane had to be brought onto the field’s warning track. The crane sank three feet into the saturated, rapidly defrosting soil.

“We had to replace the entire warning track,” stated Regan. “Once we got that in order, we were ready to go.”

Weather in London can be problematic in general. The area receives approximately 36 inches of snow annually. Lake Erie is located approximately 25 miles to the southeast, and Lake Huron is approximately 25 miles to the northwest of the city. The result is an abundance of icy “lake effects” blizzards in the winter, and tornados in the summer.

“We can have the coldest, most raw winters, and then turn around and have the hottest, most humid summers,” Regan admitted. “Summer temperatures during the day can get up to 95 degrees, with 95 percent humidity.

“But I’ve only passed out once on the field,” he added.

Regan stays in close touch with the London Weather Office during the season, especially in the summer. “I send them tickets to ball games,” he said. “Some days, when it looks like it may rain, I may be on the phone with them every ten minutes. With the Tigers and their schedule, it’s very important to avoid rainouts.”

To keep the infield dry during the summer months, Regan avoids creating lips on the edges of the turf, which can not only lead to puddles that do collect on the infield, but also use a tarp to cover the infield. The few shallow puddles that do collect on the infield he dries using sand and Turfase.

“You have to be careful about exactly when you put down the tarp,” Regan warned. “That’s why I stay in constant touch with the Weather Office. If you put the tarp down when it’s sunny in anticipation of rain, you can burn the grass. But you can’t wait to put it down until a thunderstorm hits, because by then it’s too windy.”

After spring training in Lakeland, FL, the London Tigers will begin their season on the road. Their first home game at Labatt Park is scheduled for April 20, which is two weeks later than their first game at the field in 1989. As for Regan, he certainly won’t squander the “extra” 14 days he has to prepare the field for Canada’s only AA professional affiliate. Labatt Park, the 1989 Beam Clay Diamond of the Year in the Professional Division, will be ready for 1990. "I take a lot of pride in what I do," he said. "And I get a lot of acknowledgement for it." "The players have nothing but good comments about the field," added Neska. "Getting ready for a professional team was an exciting learning experience for all of us. Everybody involved cooperated to get the job done, and the ballpark is a real part of the city."