Managing Seasonal Workers

Managing seasonal workers takes a distinct set of skills. Not only do you have the normal stresses involved with managing employees, but you also have the added stress of knowing that your employees will be with you for a short time and that you will have to rehire next season. This mass turnover means that every season you face the difficult tasks of recruiting and hiring quality staff; orienting and training them to become proficient very quickly; motivating staff to do the quality job that needs to be done; and providing compensation in a seasonal atmosphere.

Employers of seasonal staff face an uphill battle at the outset. They are forced to become very adept at recruiting the best employees for their less than ideal workplaces. By “less than ideal” I refer to the conditions of a seasonal workplace: temporary, part time jobs that are usually low paying and do not offer benefits.

Recruiting Employees

Recruiting refers to the process during which employers seek out possible new staff members. Several recruiting sources include: word-of-mouth, referrals, job boards, co-op programs, professional associations, job fairs, newspaper advertisements, and returning employees. The recruiting sources that an employer uses depends on several factors: time available, geographic location, funds available, the expertise and comfort level of the individual doing the hiring, sources available, and so on. For instance, an employer with a limited budget may not want to place an advertisement in a newspaper. Likewise, an employer not in a geographic location in proximity to universities or community colleges may not use job boards or co-op programs as a major source of recruits. If the positions that need to be filled have no direct ties to a professional association, that may eliminate professional associations as a potential source of recruits.

Screening Resumes

The next step is screening resumes to determine who you interview—a genuine skill. It is very easy to let the perfect candidate slip by during the resume screening process, so proceed very carefully. Focus on different aspects of the resume for different positions. For instance, if education is not important for the job, then don’t focus on the candidates’ education. Take your time! First sort the resumes you receive into three piles—yes, maybe, and no. Never go back to the no pile; you put the resumes in that pile for a reason. Start with the yes pile; if you still require candidates, cautiously move to the maybe pile.

Conducting Interviews

Now you are ready to conduct the interviews. It is important to fully understand the job for which you are hiring before you conduct an interview. The best way to do this is with a job profile. Write down and understand the importance of the following with respect to the job: experience (both direct and related), skills, knowledge, personality traits, attitude, and longevity in the position. The importance of each of these factors depends on the specific job.

Next determine the actual interview questions. The questions that you ask depend on several factors: the level of the position; what's important to the position; and what's important to the department and the company. Do not ask questions that are protected by the prohibited grounds of discrimination. These include race, religion, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, age, record of offences, marital status, family status, and...
Advertising Opportunities

IN THE SPORTS TURF INDUSTRY

The Sports Turf Association, based at the Guelph Turfgrass Institute in Guelph, Ontario, has been the leading professional sports turf association in the province since 1987. With a variety of advertising and marketing opportunities available throughout the year, there is no better venue to advertise your products and services than through the Sports Turf Association.

OCCURRAPHIES INCLUDE

- **Sports Turf Manager** quarterly newsletter. Published four times per year and distributed to STA members and subscribers. Because of its highly specific turf-related readership, the newsletter has proven to be a successful venue for industry advertisers. Call today for a copy of our ad rate sheet.

- **STA Membership Roster.** The “yellow pages” for the sports turf industry is updated and distributed annually to all STA members.

- **STA Annual Summer Field Day.** A variety of advertising opportunities exist from sponsoring speakers to equipment demos and indoor/outdoor displays.

- **Ontario Turfgrass Symposium.** The province’s premier turfgrass educational conference and tradeshow held annually in early January.

*Contact Lee at the STA office for more info.*

STA Membership Fees

Thank you to all members renewing in 2000! Invoices for membership fees will be mailed at the end of March and are due and payable on or before May 1st.

Please take a moment to verify your information as it appears on the memo accompanying your Membership Invoice. The Membership Roster is compiled from this information entered in our database. For questions with regard to your renewal, please contact Lee Huether at the STA office.

SPORTS TURF MANAGER

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328 Victoria Road South, Guelph, ON N1H 6H8
Tel: (519) 766-9431, Fax: (519) 766-1704
E-mail: sta@gti.uoguelph.ca
Web: www.uoguelph.ca/GTI/guest/sta.htm

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EDITOR
Michael Bladon

PUBLISHER
New Paradigm Communications
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Tel. (519) 371-6818, Fax: (519) 371-5789
E-mail: jblack@inetsonic.com

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STA OFFICE HOURS
Lee Huether is in the office from 9:00 a.m. to 2:00 p.m. Monday, Wednesday and Friday.
The office phone number is (519) 766-9431.
At other times, a message may be left on the voice mail system. Please include the vital information of name, telephone number with area code, and time of calling. The office may be reached at any time by faxing (519) 766-1704 or via e-mail.
STA Annual General Meeting
JANUARY 4-6, 2000, REGAL CONSTELLATION HOTEL, TORONTO

The Sports Turf Association AGM was held on January 4 at the OTS. Left: Bob Sheard presents Chris Mark (right) with a plaque honouring his five years as STA President (1994-1999). Below: STA Year 2000 Board of Directors. From left to right: Bob Sheard, Andrew Gaydon, Gord Dol, Roy Forfar, Rick Lane, Lee Huether (Executive Manager), Paul Turner, Chris Mark, Harold Van Gool and Bill Campbell. Absent: Jane Arnett-Rivers and Mike Bladon.

NEW STA MEMBERS

- Henry Kortekaas
  Henry Kortekaas & Associates Inc., Ajax

- Tim Callabert, Working Foreperson, Town of Markham

- Ken Bannerman
  Sports Turf Maintenance Crew Chief, City of Barrie

- James McGovern, Sales Manager, Hunter Industries Incorporated, Scituate, MA, USA

- Bill Hamilton, President
  Mountainview Turf Agronomics Ltd., Quyon, QC

Welcome to the STA.

PLEASE NOTE

The opinions expressed in articles published in *Sports Turf Manager* are those of the author and not necessarily those of the Sports Turf Association, unless otherwise indicated.

June issue content deadline
APRIL 14, 2000

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Sports Turf Manager • 3
HAPPY NEW MILLENNIUM AND CHEERS TO ALL MEMBERS! I WILL START BY INTRODUCING MYSELF. I AM JANE ARNETT-RIVERS, YOUR PRESIDENT FOR THE NEXT TWO YEARS.

I AM PRESENTLY WITH THE TOWN OF OAKVILLE AS SUPERVISOR OF PARKS. MY OBLIGATIONS RANGE FROM WASHROOMS, GARBAGE COLLECTION, HORTICULTURAL PLANTINGS AND PRUNING TO GRASS CUTTING AND OF COURSE, SPORTS FIELD MANAGEMENT.

WE HAVE A LARGE VARIETY OF FIELDS HERE IN OAKVILLE—LIT, IRRIGATED, SAND, SOIL, BASEBALL, FOOTBALL, SOCCER, ETC.—WITH THE HEAVIEST OF CLAYS AND THE LIGHTEST OF SANDS. WE HOLD MAJOR TOURNAMENTS AND HOST MORE THAN 16,000 PEOPLE PLAYING HOUSE LEAGUE AND REP BASEBALL AND SOCCER FOR A GRAND USAGE TOTAL OF 47,000 HOURS ON 125 SURFACES. CONSTANTLY, WE FACE MANAGEMENT CHALLENGES.

THIS BRINGS ME TO ONE OF MY GOALS AS PRESIDENT. MANY OF US FACE SIMILAR CHALLENGES IN OUR WORKPLACES. WHETHER THEY ARE ENVIRONMENTAL, BUDGET OR STAFFING, SOMEONE ELSE HAS LIKELY ALREADY SOLVED THE PROBLEM. WE NEED TO DISSEMINATE THIS INFORMATION. I WOULD LIKE TO ENCOURAGE OPEN DIALOGUE BETWEEN OUR BOARD AND MEMBERS. THE STA BOARD WHICH I HAVE SERVED ON FOR SIX YEARS IS MADE UP OF ESTABLISHED, EXPERIENCED EXPERTS CROSSING ALL ASPECTS OF THE TURF INDUSTRY FIELD. TO SIT AT OUR BOARD TABLE AND THROW OUT A QUESTION IS TO HAVE IT ANSWERED. I ENCOURAGE YOU TO USE THIS WEALTH OF EXPERTISE AS I DO. PLEASE CALL ME WITH QUERIES. I WOULD BE GLAD TO SHARE INFORMATION THAT I HAVE AND PUT YOU IN TOUCH WITH OTHERS TO HELP. AS AN ASSOCIATION, WE ARE ALL STRIVING FOR THE SAME GOAL OF BETTER, SAFER SPORTS TURF.

OVER THE PAST FIVE YEARS, CHRIS MARK HAS CAPTAINED US WITH DEDICATION AND COMMITMENT. MY NEW POSITION IS ALL THE MORE DAUNTING FOLLOWING HIM. THANK YOU, CHRIS. I AM SURE I WILL REFER TO YOU OFTEN AND HOPE TO CONTINUE THE SUCCESS AND RESPECTABILITY THAT YOU HAVE HELPED BRING TO THIS ELITE BOARD. I’D ALSO LIKE TO WELCOME BILL CAMPBELL, OUR NEWEST DIRECTOR. WE ARE LOOKING FORWARD TO WORKING WITH YOU!

I HOPE THAT EVERYONE HAS BEEN RE-ENERGIZED AND MOTIVATED AFTER ATTENDING THE OTS 2000. THANK YOU TO PAM CHARBONNEAU AND THE OTS CREW FOR ONCE AGAIN PUTTING ON WHAT I CONSIDER TO BE THE MOST UNIQUE THREE DAYS OF INFORMATION, EQUIPMENT AND NETWORKING OF THE YEAR. THANK YOU AS WELL TO BOB SHEARD FOR SUCCESSFULLY REPRESENTING THE SPORTS TURF ASSOCIATION ON THE OTS BOARD.

THIS YEAR’S OTS SHOWCASED THE DEBUT OF THE SPORTS TURF CHALLENGE. KUDOS TO MARIJE FRASER, JIM GALBRAITH AND DWAYNE McALLISTER FOR CAPTAINING THE TEAMS WHICH PARTICIPATED. IT WAS 30 MINUTES OF FAST AND FIERCE COMPETITION WITH THE WINNER NOT BEING REVEALED UNTIL THE LAST MINUTE OF FINAL JEOPARDY. CONGRATULATIONS OAKVILLE ON YOUR WIN. SEE YOU AGAIN NEXT YEAR WHEN I’M SURE CHALLENGERS WILL STEP UP TO TRY TO TAKE YOUR TROPHY. ANYONE WISHING TO PARTICIPATE NEXT YEAR, PLEASE CONTACT ME—IT WILL BE A LOT OF FUN. THANK YOU JOHN BLODAN FOR STEPPING IN, YOU DID ALEX TREVES PROUD!

I HAVE TO COMMEND MIKE BLODAN FOR TAKING ON EDITOR OF THE SPORTS TURF MANAGER FOR ANOTHER YEAR. YOU ALWAYS ENSURE WE PUT OUT AN INFORMATIVE AND CURRENT PUBLICATION. THANKS ALSO TO HAROLD VAN GOOL FOR ACCEPTING ANOTHER TERM AS TREASURER AND PAUL TURNER FOR WELCOMING THE NOMINATION OF VICE PRESIDENT. I KNOW I SPEAK FOR EVERYONE WHEN I SAY THIS ASSOCIATION WILL CONTINUE TO STRIVE TO SERVE OUR MEMBERS AND BRING YOU CURRENT INDUSTRY INFORMATION.

IN CLOSING, A SINCERE THANK YOU TO ALL WHO HAVE SUPPORTED OUR ASSOCIATION IN THE PAST. PLEASE PASS ON THE SPORTS TURF MANAGER TO YOUR CO-WORKERS—ESPECIALLY THOSE IN THE FIELD. TO THE STA BOARD AND MEMBERS, I LOOK FORWARD TO MY NEW POSITION AS PRESIDENT WITH EXCITEMENT!

—JANE ARNETT-RIVERS

MEET NEW BOARD MEMBER BILL CAMPBELL

Bill was born and raised on a dairy farm near Avonmore, Ontario (Cornwall area). His academic achievements include a BSA in Agronomy from the University of Guelph in 1955, a MSA in Soils from the University of Guelph in 1957 and a MBA from McMaster in 1971.

In the fall of 1958, Bill planted his first 20 acres of sod near Lynden, Ontario. He started harvesting sod full time in 1960, selling 143,000 square yards. Expansion followed with farms located near Valleyfield, Quebec; Youngstown, Ohio; Breslau, Ontario; Tilbury, Ontario; Ottawa, Ontario; Quebec City, Quebec; Cleveland, Ohio; and finally in 1980, Kissimmee, Florida, near Disney World. Bill is now retired, selling most of the farms to their various managers.

Bill’s family life includes his wife Dorothy, who he married in 1955, and their two children—Barbara born in 1960, a graduate of the University of Waterloo in Civil Engineering, and David born in 1962, a graduate of Ryerson Institute Theatre School.

We are pleased to welcome Bill and his wealth of expertise to the Board of Directors of the STA.

—excerpts FROM THE HORTICULTURAL HERALD
To rebuild or replace – that is the question! Determining if a motor is really in need of a rebuild can be a time consuming job as well as create down time on that particular piece of equipment. Simple checks before you make your decision are:

- Check spark as well as condition of the plug, does it foul, burn hot, etc.?
- Fuel: is the engine flooding or is no fuel at all getting to the piston?
- Engine oil: check for water in oil, fillings, contamination, cracks in the block.
- Compression test: this will help you determine the condition of piston and rings.
- Exhaust: does the engine push blue smoke?
- Vibration: is there a chance of major bearings needing to be replaced?

Face it, motors won’t run forever. No matter how well maintained an engine, rebuilding or replacing is inevitable. The question is: which to do?

Once you have determined that your motor in question is in need of major repairs, one of the toughest questions a technician has is to rebuild or purchase a new motor.

One has to look at things such as the cost of parts to rebuild, the labour costs involved to rebuild, and if your facility has the tools to assist your rebuilding efforts so that it may be done properly.

If your technician has to send the engine out to a qualified shop for rebuilding, then check the credentials of the shop – talk to other customers to see if they are satisfied with the shop’s quality of work.

Can the particular piece of equipment in question afford to be down for a couple of weeks or is it essential for daily maintenance practices such as a greens mower?

Check past maintenance records and the age of the piece of equipment. It may not even be worth putting any further money towards repairs. All of these aspects have to be considered before the technician can make a final decision.

Initially, it could be more costly to purchase a new motor, but the convenience of having the motor delivered and installed within a couple of days can be far more valuable, as well as keeping any valuable parts off.

Does the new motor come with a warranty?

The purchase of a new motor can simplify your decision and eliminate any inconvenience of a lengthy downtime.

If the technician keeps records and does regular maintenance checks, the piece of equipment in question could be scheduled for rebuilding in the off-season.

Whatever the final decision the equipment technician has to make, many of the above questions and checks should help him/her arrive at the right conclusion.

— The Turf Line News, Volume 156, February/March 2000
When so many organizations are having to do more with less, it is no wonder that employees react with trepidation when their managers talk about delegation. It is tough for employees to get excited about taking on new tasks when they are already working as hard as they can. And it’s doubly difficult when these new tasks are added and no old ones are ever taken away.

In the face of such resistance, managers often stop delegating. However, they need to realize that delegation itself is not the problem. Done properly, it can be not only an ideal tool for training employees, but also the key to making room in a manager’s overloaded schedule.

NOTE! It’s not fair to keep piling work on to your star employees and expect them to be enthusiastic about it.

It is important to understand what delegation is and what it isn’t. It is not simple task assignment, or dumping or getting rid of unpopular tasks. Rather, delegation is taking a task from a manager’s job description and teaching it to an employee. Managers would choose delegation as an option when they need more time for other work, when they want to develop an employee’s potential, or when tasks need to be restructured to accommodate a new project.

So why do managers remain ambivalent about delegation in spite of the obvious advantages? One reason is poor planning. Too often, managers get so swamped with tasks and projects that they wait until the last minute to acknowledge that they need help to meet deadlines. With thinly veiled calm, they approach a subordinate and dump a nearly impossible task on his or her desk. Since they are overloaded and haven’t time to explain the job, they leave it with a pile of hastily scrawled notes and hope for the best. No wonder they leave employees running scared.

Another reason for the ambivalence is ego involvement. Sometimes the climb up the organizational ladder has been such hard work that a manager has a tough time letting go of tasks that seem too important for a subordinate to handle. The manager’s sense of value comes from having certain responsibilities they want to believe can’t be dealt with by anyone else. These managers don’t realize that if their department can’t run without them, they are not doing their job.

Another reason is fear of mistakes. There is a significant amount of risk any time people are left on their own to learn something new. The major fear for managers is that the employee will really botch the job and that they’ll be left to clean up the mess or, worse still, provide explanations or make apologies.

It can be a real leap of faith to trust an employee to do the job as well as you can.

Finally, there is fear of intruding. This is particularly prevalent in organizations that have been significantly affected by downsizing. When employees are struggling just to keep up with their current workload, the last thing managers want to do is add more pressure. Instead, they suffer in silence, wanting to give more responsibility but fearing to ask the necessary questions about how a task might fit into a subordinate’s schedule.

Although the obstacles to delegating effectively can seem insurmountable, learning to be an expert at it is really a matter of observing a few simple rules.

Take your time. Delegate only when you have time to teach the employee has time to learn. Allocate time in your schedule to have a sit-down, face-to-face meeting with the subordinate to whom you are delegating. Give clear and accurate instructions, and allow time for their questions, comments and concerns. Time invested at the early stages will pay off in the long run by reducing misunderstood directions.

Delegate in bite-size pieces. Do not try to overload the employee with information during the first session. As a general rule, delegate the job 20% at a time. When the employee can perform 80% of the task unsupervised, it’s time to delegate the whole job and let it go.

Watch your language. Try to avoid phrases like “Could you do me a favour” or “I really hate to ask but ....” This is called personalizing and apologizing, and it tends to backfire by giving the employee the impression that this is above and beyond the call of duty. Make sure you tell the employee what you are delegating, when it needs to be done, and how you want it completed, and why you chose him or her.

Add on a task only when you can subtract one too. It’s not fair to keep piling work on to your star employees and expect them to be enthusiastic about it. During your initial meeting with employees when delegating, estimate the amount of time the new task will add to their workweek and let them pass an equally weighted task on to someone else. This will allow them to make room for the new job, and it will give another employee an opportunity to learn something new. If you work in a very small office, you might trade tasks with subordinates to give them a chance to take on a new responsibility. They will have time to learn and you will have a chance to get acquainted with other office operations again.

Be available. It is rarely advisable to stand over employees’ shoulders while they are working, but it is absolutely appropriate to be accessible when they have
questions. Even better, encourage them to come to you for direction frequently. You obviously don’t want them to wait for your approval to make every move, but frequent check-ins will make both of you much more comfortable in the long run.

Delegate recurring tasks. Employees are much more likely to improve their performance if they have several opportunities to do the same job. When a one-time-only task is delegated, what is learned will be easily forgotten. What gets repeated gets remembered, so choose things that the employee will be responsible for daily, weekly or monthly.

It’s not always easy to keep people learning and growing in organizations today. With some planning and attention to detail, though, delegation can be a management skill that helps employees to develop and gets the job done too. ♦

As sports turf managers, you will have many different sports fields to manage with a range of rootzones. Using the same management techniques on these different rootzones could lead to disaster. This article outlines the major differences involved in managing a soil-based versus a sand-based field.

Managing compaction: soil vs. sand

One way to manage compaction on a soil-based field is to control traffic. This can be achieved by having a practice field so that the field used for scheduled games receives less compaction. Proper irrigation management is a must. Avoid light, infrequent irrigation. You must be careful, however, if the turf roots are restricted to the top 0-5 cm. Due to compaction, you may need to water more frequently so that the portion of the soil that contains roots does not dry out.

A sports turf manager’s major tool to fight compaction is soil cultivation. There are many different soil cultivation techniques which can help a compacted field. These include: solid tine coring, hollow tine coring, drilling, slicing, spiking and high pressure water cultivation. Core cultivation has many benefits. It increases water filtration, increases soil aeration and increases root penetration. The increase in root penetration is very evident when you cut into an aeration hole. The newly formed white roots stand out. One drawback of core aeration on heavy textured soils is the soil on the walls of the soil core become more compacted for a period of time after core cultivation. There is also the risk on heavier soils of forming a cultivation pan. This is a compacted layer of soil at the depth of the cultivation tines. On soil-based fields, core aeration of some form or cultivation is recommended at least twice per season.

Managing irrigation: soil vs. sand

Soil texture has a major influence on irrigation management and this is often the area that causes the sports turf manager the most trouble. Sand-based rootzones have poor water holding capacity because only half of the pore space will hold water and the other half will be filled with air. They do, however, have deeper roots than a soil-based field. On a soil-based field, there are many more micropores and usually much more water is held in the rootzone. There are two confounding factors however. The water in a soil-based field may be so tightly held by the soil that it is not available to the plant. Also, soil-based fields tend to have shallow roots, so the roots may not be able to get all the water in the soil. In the end, both rootzones may require the same amount of water at the same frequency, but generally the sand-based rootzone will require water more frequently than the soil.

Water infiltration is often a problem on soil-based fields. They may not be able to absorb the amount of water delivered during one irrigation cycle. To get around this, a shorter cycle can be used and cycled twice at each irrigation. On the other hand, sand-based rootzones, if they do dry out, can become hydrophobic and at this point, are very difficult to almost impossible to re-wet.

Managing fertility: soil vs. sand

Cation exchange capacity (CEC) is a relative measure of the soil’s potential fertility. The magnitude of the CEC depends on soil texture, types of minerals in the soil and the amount of organic matter. Sand has a very low CEC and soils have a high CEC (see Table 1). Because of sand’s lower potential fertility, it will require a greater amount of fertilizer than a soil-based field. This is especially true during establishment where up to 1 pound of nitrogen per 1,000 square feet may be required each week until turf is established.

<table>
<thead>
<tr>
<th>Table 1: Typical CECs</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL TYPE</td>
</tr>
<tr>
<td>Sandy</td>
</tr>
<tr>
<td>Loam</td>
</tr>
<tr>
<td>Clay</td>
</tr>
<tr>
<td>Muck</td>
</tr>
</tbody>
</table>

*centimoles/kg

With sand fields, there is also a greater potential for fertilizer to leach. It is important on sand rootzones to use a slow release form of fertilizer to minimize leaching and apply less fertilizer more often. Sand rootzones, especially during establishment, have very few microbes in them. It is important at this stage not to use a fertilizer that relies on microbes to release nitrogen. Sand-based fields are generally lower in phosphorus than soil-based fields. Potash is more likely to leach from a sand-based field and they are more likely to require micronutrients than a soil-based field.

Soil-based fields will require less fertilizer, less often than sand. This is especially true on compacted fields where the addition of excess nitrogen decreases rooting and weakens the turf plants. Fertilizers that rely on microbial degradation are suitable for soil-based rootzones. In general, there is very little nutrient leaching from a soil-based field.

Thatch management: soil vs. sand

Thatch accumulates when the turf growth is greater than the soil’s microbes ability to break down thatch. On sandy soils where there are fewer microbes, there is a greater tendency for thatch to form.
Thatch management on sand-based fields is usually accomplished with a topdressing that is the same as the rootzone. To manage thatch on a sand field, the topdressing frequency and amount must match the turf growth so that there is no excess accumulation of thatch. On soil-based fields, thatch management is accomplished through core aeration. The greatest tool is core cultivation in conjunction with soil replacement — removing cores and replacing them with a proper sandy loam soil.

As you can see, sand and soil fields are very different beasts, requiring different management practices which are summarized in Table 2. Hopefully, the information here will help you better understand what is happening below the turf and help you better manage the fields you have whether they are sand, soil or a combination of both.

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Table 2: Comparison of Management Practices

<table>
<thead>
<tr>
<th>Soil-based Fields</th>
<th>Sand-based Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mgmt. Practice: Compaction Control</strong></td>
<td><strong>Mgmt. Practice: Thatch Control</strong></td>
</tr>
<tr>
<td>- traffic control (practice field vs. regular field)</td>
<td>- less prone to thatch because of high microbial population</td>
</tr>
<tr>
<td>- keep traffic off when wet</td>
<td>- can have hollow tine cultivation and topdressing frequency 2x per year</td>
</tr>
<tr>
<td>- soil cultivation by hollow tine aeration, solid tine, slicing, spiking, drilling and high pressure water</td>
<td>- more prone to thatch build-up because of low soil microbial population</td>
</tr>
<tr>
<td>- hollow tine cultivation followed by soil replacement</td>
<td>- light topdressing only for thatch control recommended every 2-3 weeks</td>
</tr>
<tr>
<td>- frequency 2x per year</td>
<td></td>
</tr>
<tr>
<td>- more frequent on high traffic areas</td>
<td></td>
</tr>
<tr>
<td>- shallow cultivation and deep cultivation needed</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Mgmt. Practice: Irrigation Control</strong></th>
<th><strong>Mgmt. Practice: Fertility Management</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>- good water holding capacity</td>
<td>- low cation exchange capacity</td>
</tr>
<tr>
<td>- poor water infiltration rates - may have to cycle irrigation to get a sufficient amount</td>
<td>- requires more nitrogen (4.0 kg/100 m²), especially at establishment</td>
</tr>
<tr>
<td>- prone to localized dry spots</td>
<td>- more frequent applications necessary (6-8 times per year)</td>
</tr>
<tr>
<td>- requires less frequent irrigation but can have very shallow roots</td>
<td>- phosphorous and potash easily leached</td>
</tr>
<tr>
<td>- should monitor soil moisture visually (soil probe)</td>
<td>- water soluble fertilizer and quick release fertilizers not recommended</td>
</tr>
</tbody>
</table>

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Weather Facts

*Climate vs. Weather*

Canadians have an obsession with the weather. Today every country has a government department which forecasts weather and warns the populace of approaching storms, floods or drought. Whenever man has accomplished accurate weather forecasting, it has been achieved only because he has understood all the elements of weather.

A clear differentiation should be made between weather and climate. Weather refers to successive changes in atmospheric conditions such as wind, rain or frost in a given locality. Rainy weather is rainy only as long as it keeps raining. Climate is the average weather conditions of a region over a month, season, or year. The average is found by keeping daily records for many years. It has been proven that where records have been kept for about 50 years, the average for any season or month will accurately represent the kind of weather to be expected there during a corresponding season or month. The unit of measurement of climate, however, is what happens daily with the weather.

The elements responsible for our weather are: 1) the sun and its rays, or solar radiation; 2) the air covering the earth, or the atmosphere; 3) water vapour in the air, or humidity; 4) dust in the air; and 5) the shape, surface, and rotation of the earth.

Other less significant factors or influences are the heat given out from the centre of the earth, the moon's gravitation, and on a local level, forest fires and factory smoke or emissions.

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*Summarized by M. Bladon*

WASHINGTON - Don't throw away the lawnmower yet, but scientists have found a way to stunt the growth of grass and other plants and keep them greener longer by tinkering with a single gene.

The gene regulates production of a steroid hormone that causes plants to grow, much the same way similar steroids work in animals. They have now succeeded in manipulating the gene to create dwarf versions of standard plant species, according to research published in the journal Proceedings of the National Academy of Sciences.

A tobacco plant that would normally grow to 1.8 metres tall was engineered to mature at 30.5 centimetres by scientists at the Salk Institute for Biological Studies in San Diego. The same technique worked with the Arabidopsis plant, a member of the mustard family that likes tobacco, is frequently used in genetic studies.

"It very much parallels the steroids in football players. Plants buff up on it," Joanne Chory, the Salk study's senior researcher, said of the newly manipulated plant gene. "If you do something ... so it isn't expressed, you get these little dwarfy guys."

The dwarf versions are identical to the standard plants in every way but size, she said.

Plant breeders have long searched for ways to slow the growth of grass to reduce maintenance on golf courses, as well as lawns and parks. But conventional breeding by cross-pollinating different varieties is far more time consuming and less exacting than engineering specific genes.

Golf courses are sprayed with chemicals to slow growth, but they still must be mowed frequently.

The plants the Salk Institute scientists used in their study are more similar to trees, so there may be difficulties in getting the technology to work with grass, said Andy Hamblin, a turf geneticist at the University of Illinois. But it is only a matter of time before scientists develop grass that only needs to be mowed once or twice a year, he said.

Conventional varieties of grass take an average of 13 years to develop, and the latest breeds have only reduced mowings by only one or two times a year, he said.

Gene-engineered grass also raises environmental questions. Dwarf plants could cross-pollinate with standard plants and stunt the growth of their offspring, Hamblin said.

Governments would have to approve any new varieties of grass and could limit their use to avoid such problems. Hamblin said the approval process for a biotech grass could take several years.

As for its safety, the researchers said there would be no danger to children or animals from eating the grass, since it is essentially the same as conventional grass.

Chory said scientists expect eventually to be able to pinpoint and alter other genes that control the growth of leaves and flowers, enabling them to regulate the appearance of an entire plant. •

— Associated Press, The Record, December 21, 1999
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Turf Related Injuries

Liability insurance rates are on the increase as expensive settlements, generous awards by juries, and far reaching court decisions have made the liability insurance business very risky. But, in recent years, an unexpected attitudinal change has occurred within our society. We are placing increased emphasis on filing grievance claims for all manner of harm—actual or alleged. These include personal injury from use of equipment on lawns and from application of materials such as fertilizers and pesticides. In addition, user injury claims related to groundwater pollution and malpractice by lawn applicators that is thought to cause injury to plants or animals in the vicinity of lawn treatment are on the increase. Lawsuits are becoming a popular means of bringing about settlements either in or out of court. Liability insurance rates are on the increase as expensive settlements, generous awards by juries, and far reaching court decisions have made the liability insurance business very risky. To stem multibillion dollar losses, companies are cancelling thousands of commercial liability policies or hiking premiums in mind-boggling increments.

In most landscape horticultural ventures, increases in insurance costs are not likely to be met through increased price of products and services. Expendable income may well cease to be used for lawns as costs continue to rise. Government regulations on product safety and on small business operations are also costly and have the potential for elevating prices of goods and services above levels considered reasonable by the gardening public.

From the foregoing, it would seem that the equipment and chemicals used in lawn care must be extremely hazardous. This is not the case—as evidenced by both public and private research. However, two important limitations in this area are worthy of recognition. First, proper and safe use of all equipment and chemicals is essential. It is most difficult to protect people who cannot read or who simply do not read instructions from injuring themselves and/or others. Those involved in Cooperative Extension and consulting can attest to all measure of horror stories fundamentally grounded in mistakes made because of failure to read and understand directions on safe and effective product use. Second, we must recognize the great diversity in physiological chemistry among all plants and animals. The fact that a very high percentage of a population may not have adverse effects from a small amount of a particular pesticide does not mean that there could not be a highly sensitive individual out there who could be seriously injured by it. This biological variation and uncertainty dictates that by in large in low population areas, the chances of encountering hypersensitivity are less than in high population urban areas. Crowding of people increases the likelihood of creating irritants in the environment that are hazardous to someone’s health.

Thus, in a relatively few instances, turf related injuries may be real and this is regrettable for those so inconvenienced. This inconvenience is not different from that recognized by others who experience sensitivities to varying aspects of our physical and psychic well being. It’s part of a world never intended to be ideal for all people but eminently well suited for most. Lawns and gardens help make this a better place to live than could ever be had without them.

—Lawn Institute Special Topic Sheets, Better Lawn and Turf Institute, 1991
STA News Bulletin

STA Director Paul Turner and Lee Huether (Executive Manager) in front of the Sports Turf Association display at the OTS, January 2000.

PLEASE NOTE: Minutes of meetings of the Board of Directors are available on a by request basis. If you would like to be added to the distribution list, please advise Lee Huether, Executive Manager, indicating whether you wish to receive them by mail or e-mail.

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--- Dan Almond, March '99 STM

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Staff Training and Motivation

Once you’ve hired your staff, it’s time to orient and train them. This is a crucial step for seasonal staff. Seasonal staff have a very short period of time in which to become proficient in their new jobs. Take a golf course for example: you hire part-time greenskeepers once the course is open in the spring because you have no work, nor a labour budget, prior to the course opening. However, once the course is open, it’s full speed ahead with respect to having the course ready for play and routine maintenance. This leaves little time to train your new staff how to do the job properly.

Remember that training is continuous; it need not stop after the initial orientation. In fact, it shouldn’t. Nothing acts as a motivator more than on-going training. Not only does it ensure that staff are very aware of what needs to be done and the proper way to do it, but also it sends a very powerful message that you feel they are worth your time, effort, and money even though they will be leaving you at the end of the season. This, in turn, will help to create a productive staff.

Remember that training is continuous; it need not stop after the initial orientation. In fact, it shouldn’t.

There are several motivating ideas that you can utilize to keep your seasonal employees happy and productive. These include one-on-one discussions, incentives, compensation, and staff surveys. The most obvious, and common, of these is compensation. It’s no surprise to employers that people work for money. However, most businesses, including golf and country clubs, do not have unlimited budgets. This means that there are usually other jobs available that pay the same or more than the jobs you have to offer. Therefore, you need to differentiate yourself using other motivators. For instance, one-on-one discussions can be very beneficial. These can be quick, informal discussions with each of your employees throughout the season. This invites open communication and a comfortable rapport between manager and employee. Also, they can help to prevent disciplinary problems by preventing or stopping them before they become serious. The benefits of open communication alone can be tremendous.

Incentives are an obvious way to keep employees happy and productive. There are several things an employer can do that do not cost a lot of money, or take up much of your time. Something like providing employees with an employee handbook makes them feel valued, as well as answering many questions and allowing employees the opportunity to fully understand what your organization stands for and what is expected of them. Also, simple employee outings such as golf tournaments, staff baseball games, picnics, bowling, lunch, and birthday cards go a long way in creating a staff that work well together and feel secure in their jobs. This, in turn, creates a staff that are motivated to do their best for you.

Another idea is a confidential staff survey. Not only does this allow staff an anonymous method of giving their ideas and complaints, it can tell you an enormous amount about what your staff feel you are doing well and what they believe needs improvement. Remember, anything you can do to positively distinguish your workplace from another will assist you in maintaining productive and happy seasonal employees.

For more information regarding managing seasonal workers, or any other human resources training and development issues, please contact Rhonda Gordon, owner of Gordon Consulting, at (519) 823-1088. Gordon Consulting specializes in advising the golf club and private club industries. Rhonda has also been a Human Resources Manager for over eight years — first at retail giant Woolworth Canada in Toronto, and currently at the prestigious Westmount Golf and Country Club in Kitchener. Rhonda is also an instructor at Conestoga College in Kitchener.

March 7 & 14
University of Guelph, Office of Open Learning Pesticide Applicators' Certification Exam Preparation Course, Guelph Turfgrass Institute, Guelph, ON. Call: (519) 767-5000

March 8 & 9
Ontario Parks Association 44th Annual Educational Seminar Protecting Tomorrow Today Explorations 2000 Trade Show (March 8), Toronto, ON Call: (416) 426-7157

March 22-26
Canada Blooms, Toronto, ON Call: (800) 730-1020

April 7-9
Ontario Amateur Softball Association Annual Convention, Midland, ON Call Bea Weber at (519) 824-8061

April 30 - May 5
Ontario Recreation Facilities Association Inc. 45th Annual Professional Development Program Corporate Exhibition & Marketplace (May 3), University of Guelph, Guelph, ON. Call: (416) 426-7062

July 11, 12 or 13
3rd Annual Solving Turf Problems University of Guelph, Guelph, ON. Call Marilyn Dykstra at (519) 767-6258 or Pam Charbonneau at (519) 824-4120 ext. 2597

August 16
Sports Turf Association 13th Annual Field Day Guelph Turfgrass Institute, Guelph, ON Call: (519) 763-9431

August 22
Guelph Turfgrass Institute Research Field Day & Summer Turf Workshops, Guelph, ON Call: (519) 767-5009