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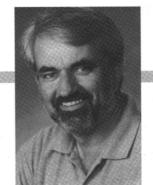
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Municipal Integrated Pest Management Accreditation

JOHN HOWARD, EXECUTIVE DIRECTOR, ONTARIO PARKS ASSOCIATION



According to Health Canada, "Integrated Pest Management (IPM) is a decision-making process that uses all necessary techniques to suppress pests effectively, economically, and in an environmentally sound manner to sustain healthy land-scapes." Integrated Pest Management was originally developed for agriculture, but has been successfully applied to almost every field where pest management is an issue.

n integrated approach will employ prevention techniques wherever possible to minimize the impact of pest problems, by altering, whenever possible, conditions that promote pest populations. Plant Health Care (PHC) is an integrated approach that incorporates all the best horticultural practices to ensure that the best plants are chosen and through proper planting and maintenance techniques, pests and their related effects are minimized.

Benefits

Interestingly, Ontario municipalities have reduced pesticide use by significant amounts over the last 10 to 15 years. Much of this reduction was accomplished through the implementation of IPM or PHC programs. The multiple, long-term solutions provided through IPM/PHC promotes the use of the latest techniques and materials. Pesticide reduction is also achieved and environmentally, the application of any compound, natural or synthetic, when it is not necessary can

upset the balance of nature. Pests have developed resistance to certain chemical compounds. IPM/PHC options reduce the chances of pesticide resistance and enable pest managers to control pests that have developed resistance through alternative products and measures. The decision making process that is an essential component of these programs is guided through the establishment of pest population thresholds. Using alternative strategies for pest control reduces pesticide applications.

Background

The horticulture industry, represented by numerous associations, agencies and organizations, recognized the need to formalize IPM/PHC principles and practices and are instituting the IPM Accreditation Program which will recognize IPM practitioners through a qualification program and adherence to a code of practice. The elements of the IPM Accreditation include adherence to the Code of Practice, which essentially is a list of guidelines established to describe what is expected of accredited companies or organizations and

creates a common ground approach.

Initially, this approach was seen as only a benefit to the commercial lawn care industry; however applications are recognized in other areas including structural pest control and on public lands. A municipal working group, facilitated by the Ontario Parks Association, has been meeting since last May to develop IPM accreditation for parks, forestry and other applications. Subtle differences in the approach to IPM between various sectors of the industry provide the working group with challenges as it investigates the opportunities IPM Accreditation will provide to the public sector. IPM Accreditation is seen as the most viable alternative for municipalities considering the creation of pesticide by-laws.

Participants

The Municipal IPM/PHC Working Group has endorsed a "parks and open space" specific "Code of Practice" to standardize the municipal approach to IPM and PHC. The working group, centred in the Golden Horseshoe area, has



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1184 PLAINS ROAD EAST, BURLINGTON, ON L7S 1W6 Burlington (905) 637-5216 Toronto (905) 338-2404 1-800-883-0761 • Fax: (905) 637-2009 • www.gcduke.com invited representatives from various cities, towns and organizations to participate. To date the following agencies are represented:

City of Burlington, City of Cambridge, City of Hamilton, City of Windsor, Town of Oakville, Town of Halton Hills, City of Mississauga, City of Toronto, City of Brampton, The Ontario Parks Commission, Parks and Recreation Ontario, International Society of Arboriculture, Guelph Turfgrass Institute, OMAF, Landscape Ontario and the Ontario Parks Association.

Working Group Objectives

The main objective of the Working Group is to promote a standard approach to IPM/PHC through the accreditation process. Representatives of the various agencies have been exploring and developing municipal IPM/PHC principles and practices and sharing their experiences and approaches in this area. Information on municipal IPM/PHC Accreditation has been distributed to provincial politicians,

seeking support for a provincial IPM/PHC Accreditation process. A province-wide approach to pest control issues is preferred, as opposed to a patchwork of inconsistent, and some say unenforceable, municipal by-laws.

Initiatives to Date

The Working Group has reviewed the industry's version of the Code of Practice and modified it to make it more applicable to parks, grounds and public space operations. Information on the existence and activities of the group has been communicated to various ministries within the provincial government, along with information on the benefits of IPM/PHC and the Accreditation Program. The group has also attempted to liaise with other organizations dealing with pest control related issues.

The Municipal Working Group is investigating the development and production of an IPM/PHC information brochure as a vehicle to disseminate information on the latest pest management

techniques and practices. A "Municipal IPM/PHC Tool Kit" is also being considered to provide answers to commonly asked questions. Members are researching available case studies on IPM/PHC applications from municipalities across the province to determine past successes and challenges.

Future Direction

The Working Group is gradually expanding and eventually would like to like to include participation from across the province. The continued promotion of IPM/PHC through education, communication and accreditation is important in assisting municipalities with IPM/PHC programs.

The Working Group will continue to supply input into the IPM/PHC Accreditation process via various organizations represented on the IPM Council. A very important activity will be the continued sharing of information on the latest science-based methods, products and alternatives for pest management. •





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Intelligent irrigation is about applying the right amount of water at the right time based on plant water requirements. Over-irrigation can be just as detrimental to the health of plant material as is under-irrigation. The key is to schedule irrigation to match the water required by the turf, otherwise called the evapotranspiration rate of the turf.

hat is evapotranspiration (ET)? Simply defined, it is the sum of both the evaporation of moisture from the surface of the soil and the transpiration of moisture from the foliage or leaf of a plant. The main weather factors contributing to a high ET are temperature, humidity, wind speed and solar radiation. ET varies throughout the day and irrigation should be applied during the early morning when the weather factors contribute to a lower ET.

Water budgeting takes into account changing ET rates throughout the week and month (Figure 1). Every irrigation controller should be specified to include a "water budget" feature which allows the irrigation manager to quickly adjust all run times with one macro setting. Adjusting the run times to correspond to the changing ET is a must for water savings and healthy turf. Leaving the same run time throughout the season simply means that water is applied unnecessarily.

On a very hot summer day, the ET for sports field turf can rise as high as 35 mm (1.4 inches) per week. On a standard soccer field this equates to about 238 mega litres (63,000 gallons) per week. Saving even a conservative 20% of this amount is worth the gain in water costs.

Checklist

In the sidebar to the right is a quick checklist to see how well your irrigation system measures up to the typical standards endorsed by the irrigation industry.

Results

If you scored a ten, congratulations! Your sports field should become an industry standard and given honourable mention in the next irrigation article in Sports Turf Manager. A score of seven or more means you are well on your way to setting irrigation standards. A score below six means it is time to hire an irrigation specialist.

An irrigation specialist is trained to identify maximum irrigation efficiencies, thus assisting in the development of a healthy sports turf while preserving a valuable water resource. At the end of the day, every drop counts. •

About the author. Gregory Snaith, P.Eng., C.I.D. is an Irrigation Consultant with Creative Irrigation Solutions Inc. Greg can be reached at 519-465-0278 (cell), 888-654-3637 (toll free) or via email at gsnaith@creativeirrigation.on.ca.

IRRIGATION CHECKLIST

- 1. Rain or moisture sensor (turns system off during a rain)
- 2. Controller has "Water Budget" feature (0-200 per cent adjustment)
- 3. Irrigate during the night or early morning (when ET is lowest)
- 4. Head to head coverage (rotors throw water to next rotor)
- 5. Rotors operate at designed water pressure
- 6. Nozzle sizes are conducive to match precipitation rates
- 7. Improved efficiency sprinkler nozzles (provides uniform coverage)
- 8. Rotor zones run parallel with playing field (better management
- 9. Hired an irrigation certified water auditor to make recommendations
- 10. Controller is compatible for upgrade to Central Control

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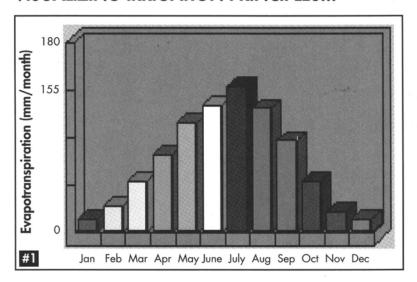


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VISUALIZING IRRIGATION PRINCIPLES...

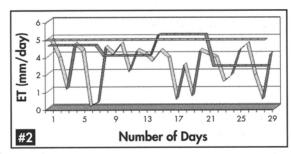


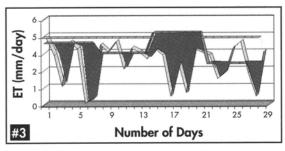


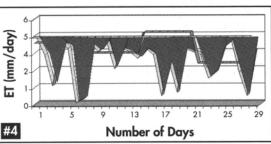
Graph #2. The top line indicates amount of irrigation water added with monthly adjustment. The middle line indicates a weekly adjustment corresponding to weather. The bottom line indicates actual daily ET rates.

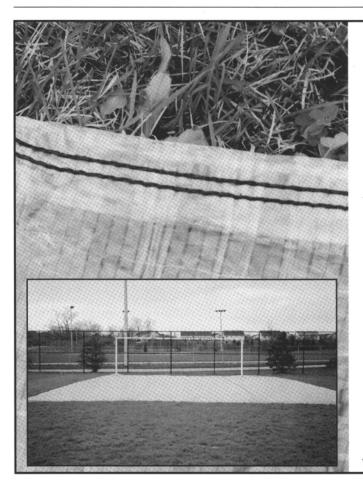
Graph #3 indicates the amount of overwatering with weekly adjustments.

Graph #4 indicates the amount of overwatering with monthly adjustments.









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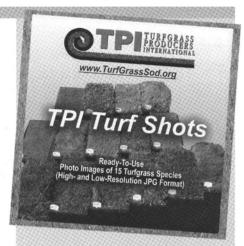
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Fescue: Blue					Big Horn	
Fescue: Creeping Red	Aruba	Boreal Jasper	Aruba Fenway Franklin	Boreal Jasper Creeper #1 Jasper II	Badger Rose Boreal Seabreeze Florentine Shademaster II	Franklin Florentine
Fescue: Chewings	Sandpiper	Bridgeport Silhouette	Jamestown II Southport	Common Victory Victory II	Banner III Shadow II Cascade Tiffany Sandpiper	Sandpiper Wilma
Fescue: Hard	Heron Rescue 911	Serra	Ecostar Rescue 911	Spartan	Aurora Gold Ridu Discovery Serra Osprey	Brigade Heron
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Bentgrass: Creeping	18th Green Penncross Bengal Penneagle L-93 Pennlinks Penn A-4 Pennway Penn G-6 Providence	L-93 Penn A-4 Penncross Penneagle Pennlinks Trueline	Dominant Plus L-93 Penncross Penn A-4 Penneagle Penn G-6 Pennlinks Penn Trio Providence Coated Penncross T-1	Aggressor Penncross Cato Penneagle Mariner Pennlinks National Pennway Penn G-1 Providence	Penn A-1 Penncross Penn A-2 Penneagle Penn A-4 Pennlinks Penn G-2 Seaside II	A-4 Penncross Brighton Penneagle 18th Green Pennlinks G-6 Pennway L-93 Providence SR1020
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Poa compressa	Canada Blue	Canada Blue	Canada Blue Reubens	Canada Blue	Canada Blue Reubens	Canada Blue
Weeping alkali	Fults Salty	Fults Salty			Fults Salty	Fults Salty
			4			

Turf Seeding Rates

The following are seeding rates per 100 m² for specific species of grass seeds: 1) Creeping Bentgrass, 0.5-1.0 kg; 2) Kentucky Bluegrass, 1.0-2.0 kg; 3) Perennial Ryegrass, 2.0-4.0 kg; 4) Fine Fescue, 1.0-3.0 kg; and 5) Tall Fescue, 2.0-3.0 kg. (Source: OMAFRA Turfgrass Management Recommendations, 2000)

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medium (2-5 mm) Ryegrasses (Lollum) L. perenne Perennial 200,000 to 0.4 to 1.0 0.5 to 1.5 8.5 - 10 300,000 3.0 to 7.0 medium medium seeded excellent 5 to 12 medium 5 to 7 punch medium 4 to 7 98-89 poog poob poor fast poor n/a poor NO. fair 230,000 to 250,000 200,000 to 300,000 coarse (3-7 mm) L. multiforum 0.4 to 1.0 6.0 to 7.0 excellent .5 to 2.5 medium 7 to 10 seeded 7 to 14 medium medium 5 to 7 punch poor 98-89 > 10 poor poor poor poor n/a poor fast fine (0.5 to 1.5 mm) coarse (5-10 mm) F. arundinacea bunch (some w/weak rhizomes 0.3 to 0.75 medium medium medium medium 6 to 10 seeded excellent 10 to 14 4.7 to 8.5 1.7 to 3.0 7 to 14 medium poog 98-89 > 10 pood poog good 14-21 poor poor fast WO Fescues (Festuca) Fine or Sheep low-medium 530,000 5.0 to 6.0 2.0 to 2.5 3 to 4.5 10 to 21 0 to 0.5 F. ovina excellent medium medium seeded medium 7 - 8.5 punch medium 59-77 medium poog good good No poor poor WO 409,000 to 430,000 fine (0.5-1.5 mm) creeping rhizomes Fine or Red F. rubra spp. slow-medium 0.2 to 0.5 5.5 to 6.5 .0 to 2.5 medium 10 to 21 7 - 8.5 medium medium medium medium seeded excellen 4 to 6 29-77 good good poob pood MO n/a 8 fair fair fine (1-4 mm) P. trivialis 2.5 million 0.5 to 1.0 Rough 3.0 to 7.0 0.5 to 1.0 medium stolons medium nedium excellent pepees 10 to 21 medium 98-69 5 to 7 1 to 2 >10 poog poor poor good high poor fast poor 9 ΜO W n/a Bluegrasses (Poa) 1.3 to 1.8 million med. (2-4 mm) P. pratensis strong rhizomes ooor-medium ooor-medium seeded/vegetatir Kentucky 6.0 to 7.0 0.5 to 3.0 0.4 to 1.0 medium medium medium excellent medium medium medium medium poog 2 to 3 medium 8 to 21 5 to 7 good good 59-86 <u>^</u> fast 161 n/a bunch or stolons med. (2-3 mm) 0.5 to 1.0 P. annua 5.5 to 6.5 0.2 to 1.0 excellent medium Annual seeded 1 to 3 > 10 68-89 high high poor poor poor poor poor fast MO n/a \ N A. palustris/A. stolonifera Bentgrasses (Agrostis) seeded/vegetative nedium (2-3 mm) creeping stolons poor-medium 0.5 to 1.4 7.5 million 5.5 to 6.5 0.3 to 0.7 0.75 to 2 medium medium excellent 29-86 7 to 14 1 to 3 pood > 10 poog high high high poor poor poor fast n/a 5.5 to 9 million med. (1-3 mm) A. tenuis 5.5 to 6.7 0.4 to 0.8 0.5 to 1.0 Colonial 0.75 to 2 medium nedium nedium nedium 1 to 3 medium seeded 7 to 14 medium punch medium 59-86 good poor poor poor fast n/a high fair Evapotranspiration rate (ET) (mm d⁻¹) Cultivated varieties(cultivars) as of 2001 Optimum temp. for germination (F°) Cultural (maintenance) intensity Pounds of Seed/1,000 sq. ft. **Environmental Adaptation** Nitrogen (lbs/1000/month) Mowing frequency (days) **Cultural Requirements** Recruperative potential Killing Temperature (F°) Polystand compatibility Cutting height (inches) Establishment method Submersion tolerance Need for Dethatching **Turf Grasses** Days to first mowing Moisture / irrigation Drought resistance Establishment rate Days to germinate Shade adaptation **Establishment** Wear tolerance Heat hardiness Cold hardiness Seeds / pound Salt tolerance Sod formation **Growth habit** Description Leaf texture Growth rate 핆

Note: It is important to understand that the "ratings" are based on the average of averages within a species and that a particular characteristic of one variety within a species may be higher or lower than the same characteristic for a variety of a different species. This chart should only be used as a basic guideline and beginning point when selecting turfgrass for a specific purpose or site.



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