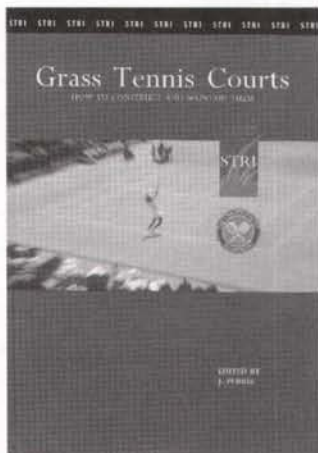


# Grass Tennis Courts

NEW BOOK TITLE FROM THE SPORTS TURF RESEARCH INSTITUTE

**S**TRI announces their latest title – *Grass Tennis Courts: How to Construct and Maintain Them*. Published in association with the All England Lawn Tennis Club, Wimbledon, this new title is the first book ever dedicated to the construction and maintenance of grass tennis courts for all levels of the game. It provides comprehensive coverage of modern scientifically based natural turf practices, showing how they can be applied in the production and management of a natural turf surface for tennis.

Eddie Seaward, Head Groundsman at Wimbledon, has made a major contribution to the book, producing one of the



sections and loaning a number of photographs for publication.

Published in hardcover, the book contains 155 pages divided into 20 chapters, plus bibliography and foreword by Roger Ambrose, Club Secretary, at Wimbledon. Produced in colour, it includes 70 photographs. Price £22.50 plus £5.00 post and packing (approximately \$60 CND),

the new title is available from STRI's specialist mail order book service - *Turfgrass Titles of the World* (<http://www.stri.co.uk>). ♦

*Editor's Note: The copy provided to the STA will be donated to and available for reference purposes in the GTI Library.*

## Turf News Brief

### NEW GROUP AIMING TO BOOST CRICKET'S PROFILE

CANADA AND THE United States are among 14 countries in the western hemisphere that will form a new cricket body aimed at promoting the game.

The Cricket Association of America will begin operating in March and feature 14 countries. The group also includes the Bahamas, Bermuda, Brazil, Argentina, Chile as well as entries from the West Indies.

Patrick Rousseau, chairman of the West Indies Cricket Board, said the new association will work with cricket organizations in Asia and Africa to im-

prove the game and increase its popularity in countries where cricket is not played.

Cricket, played with a passion in Britain and its former colonies, has been damaged the past year after Indian police uncovered a match-fixing scandal involving players from almost all the cricket-playing countries. ♦

— *Associated Press, The Kitchener-Waterloo Record, February 8, 2001*

**DEADLINE: APRIL 14**  
**Content for June issue**

## STA Membership Fees

Thank you to all members renewing in 2001! Invoices for membership fees will be mailed at the end of March and are due and payable on or before May 1<sup>st</sup>.

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.

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### STA OFFICE HOURS

Lee Huether is in the office from 9:00 a.m. to 2:00 p.m. Tuesday through Friday. The office phone number is (519) 763-9431. 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.

# In Memory of Jim Boyce

ASSOCIATION'S 1ST HONOURARY LIFE MEMBER

James (Jim) Boyce died on August 29. He graduated from the University of Toronto (OAC) in 1932 with his B.Sc.A. He worked for the next five years at the Central Experimental Farm in Ottawa as a graduate assistant in turfgrass and pasture research, then he moved on to the New Jersey Experimental Station as a research assistant in turfgrass management under Dr. H.B. Sprague.

Jim received his M.Sc. from Rutgers University in 1939 and returned to Ottawa where he directed the Canada Department of Agriculture plant introduction and turfgrass research programs until 1962. While with the Department, Jim was intimately associated with the development of such turfgrass varieties as Delta Kentucky bluegrass, Chieftain Canada bluegrass, Duraturf creeping red fescue, Norlea perennial ryegrass, and several forage type cultivars. In addition to the desirable features of mildew resistance in Delta and winter hardiness in Norlea, all cultivars produced by the Forage Crops Division had a common characteristic, high seed production.

Following work with the government, Jim became self employed as a consulting agronomist. He developed correspondence courses for the University

of Guelph and taught at Algonquin College in Ottawa. From 1970-73, he was Executive Director of the Canadian Golf Superintendents Association and editor of "The Greenmaster." Jim was also Canadian director of the Musser International Turfgrass Foundation for several years. He was closely associated with Rothwell Seeds Limited and with its president Norman Rothwell. On behalf of Rothwell Seeds, he was responsible for securing licensing or registration for sale in Canada varieties such as Penneagle and Prominent creeping bentgrasses: Adelphi, Argyle Classic, Eclipse, Glade, Harmony, Midnight, Regent, Scenic and Welcome Kentucky bluegrasses; Ensylva creeping red fescue; Barfalla and Luster chewings fescue; and All Star and Pennant perennial ryegrasses.

Jim was a founding member of the Sports Turf Association. At the first meeting he stated, "This is an idea whose time has come." May he rest in peace. ♦

## PLEASE NOTE

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



## STA New Members

*Welcome to the STA*

### Mike Dunlop

Director of Parks & Recreation  
Town of Hanover, ON

### Greg Snaith

Area Manager, Turf Products  
Rain Bird International, Inc.  
Guelph, ON

### Jay Lavis

President, Lavis Turf Group  
London, ON

### Chris Bedini

District Supervisor  
City of Burlington, ON

### Ellen Armstrong

Landscape Maintenance Gardener  
City of Burlington, ON

### Jim Hamilton

Trades II Gardener  
City of Richmond, BC

### Rob Stephen

Landscape Horticulture Student  
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# The President's Desk

JANE ARNETT-RIVERS

I wish all our members the best the new year has to offer and hope March finds you all well. After what seemed like an extreme December, January certainly cooled its heels, at least in the snow department. Hopefully you were not caught by the early arrival of winter and were able to complete your fall clean ups and other "winter ready" details on your turf.

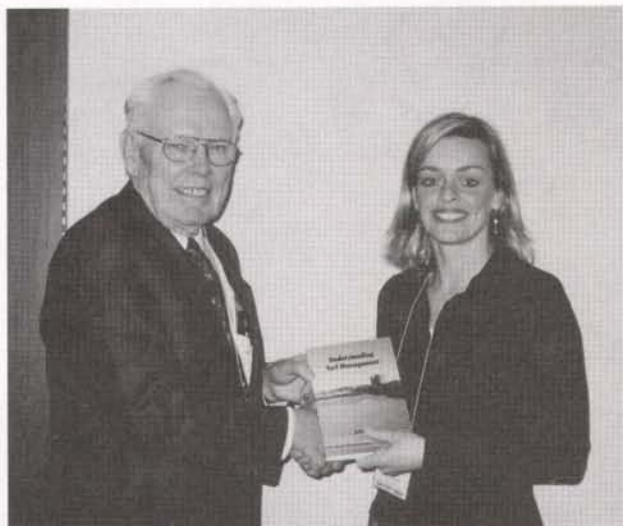
OTS 2001 was, as in years past, an information success. Michael Bladon, our editor, attended all sessions and will report in this issue of *Sports Turf Manager*. One of my favourites was the weather session. It is amazing how soon we forget past weather extremes. Thank you to Ursula Rodrigues and congratulations on your retirement, we wish you all the best. Good luck to Peggy Nagle as she continues at the helm.

Congratulations to the Jeopardy winners of 2001, the Southwestern Ontario Team of Mark Hagen, Kubota Canada Ltd., Jeff Cunningham, City of Mississauga and Ross Tucker, City of St. Thomas. The questions flew fast and furious with lots of laughs emanating from the audience. Thank you Michael Bladon for hosting and Andrew Gaydon for providing the light system.

Hot off the presses, Bob Sheard's book, *Understanding Turf Management* is now available (see the order form below). Thank you Bob for your dedication, and once again to the sponsors for enabling us to offer this text at an unbelievably low price.

Please take the time to read the Minutes of the Annual Meeting included with this issue. You will be impressed with the amount achieved by the Sports Turf Association last year. Included in these accomplishments is the new strategic plan, *A New Millennium - Toward 2003*. This document will be printed in the 2001 *Membership Roster*.

March will be a busy month for the Association. On March 6th, Pam Charbonneau, Gord Dol and myself will be participating in a joint ORFA/STA workshop in Sudbury and on the 28th in Clarington. Also in March, I will be participating in the Atlantic Turfgrass Conference in Halifax, Nova Scotia, on the 21st. For information on any of these



events, please contact Lee Huether at the STA office, telephone (519) 763-9431, email sta@gti.uoguelph.ca.

When you read this, hopefully spring will be on the horizon and your thoughts will be on turf! ♦

President Jane Arnett-Rivers presents Dr. Bob Sheard, STA Director and author of *Understanding Turf Management*, with the first copy of his book (at the STA Annual General Meeting, January). Please see order form below for purchase details or contact Lee Huether at the STA office.

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# Websites for Weather

TERRY GILLESPIE, LAND RESOURCE SCIENCE, UNIVERSITY OF GUELPH



If you use your web browser to search for the word "weather," you will find hundreds of sites

listed. So the few sites I've chosen for discussion in this article will just get you started. There are many additional links to follow from these sites, and I encourage you to keep on weather surfin' and have fun!

I've divided my suggested sites into three groups. The first group called "Outlooks and Past Information," includes sites that cover time scales that are one week or longer into the future or the past. The second group I have labelled "Forecasts," and these sites cover just a few days into the future. Finally, I'll suggest a beautifully illustrated "Learning Site" if weather turns you on and you would like to know more about how it works!

## Outlooks and Past Information

Start by browsing [www.cmc.ec.gc.ca](http://www.cmc.ec.gc.ca).

1. Click on **Forecasts: Charts and Bulletins**, then scroll down the next page to

near the bottom of the page, and click on **Monthly**. Here you will find a map of the forecast temperatures for the next 30 days (updated on the 1st and 15th of the month). The map is divided into three categories: Above Normal, Near Normal, and Below Normal. The interpretation of these categories is as follows.

The past data from the same month over each of the past 30 years is divided into three groups; the warmest one-third, the middle one-third, and the coolest one-third. If the forecast map says "Above Normal," it means the temperatures are expected to be like one of the past years in the warmest one-third. Or said another way, forecast temperatures are expected to be warmer than any of the past years that landed in the middle one-third. Similarly, a "Near Normal" forecast means temperatures are expected to be like the middle one-third of past years, or a "Below Normal" forecast suggests an upcoming month like one of the previous coolest one-third. In item 2, below, I'll show you where to get an idea of what

temperatures actually occurred in the warmest, middle and coolest thirds in the past.

2. Go back to the bottom of the previous page (click the Back button of your browser) and click on **Seasonal** instead of Monthly. This will open a page that gives you the option of a **Temperature Anomaly** map or a **Precipitation Anomaly** map. These maps are divided into three equal categories of "Above," "Normal" and "Below" corresponding to the warmest or wettest, middle, and coolest or driest thirds of about the past 30 years, just as for the monthly temperature forecast described above in item 1. You can look at the current seasonal forecast, or forecasts for future seasons.

To get an idea of what the past temperature or precipitation values looked like in the top, middle and lower thirds, go to [www.msc-smc.ec.gc.ca/ccrm/bulletin/archive.htm](http://www.msc-smc.ec.gc.ca/ccrm/bulletin/archive.htm). This site will lead us to the seasonal temperatures and precipitation values over about the last 50 years in



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ranked order. These lists don't quite match the 30 year periods that the upper, middle and lower

thirds are based on and they are for Canada as a whole, but if you break this list into thirds (groups of 18 years) you will get a good idea of what Above, Normal, and Below mean. Once you get to the archive site, do the following:

- in the table, click on the most recent past season of interest (e.g. Winter 1999/2000) if you are interested in winter season data.
- in the first paragraph on the page that comes up, click on **winter temperature departure tables**.
- below the new table that appears, click on **Full Period**. Now you will see the ranked data for the past 53 years.

3. Interested in **Climate Normals**? For a list of stations and what weather variables are observed, go to: [www.cmc.ec.gc.ca/climate/normals/eprovndx.htm](http://www.cmc.ec.gc.ca/climate/normals/eprovndx.htm). Click on the province of interest. Click on the new page, then click on the station of interest.

### Weather Forecasts

Here we start by going to the most popular Environment Canada site: [weather.ec.gc.ca](http://weather.ec.gc.ca).

4. When you arrive at the home page for the weather site, click on **Current Conditions and Local Forecasts**. Then on the next page, click on your province of choice and a list of cities will appear. Click on your city of choice. This will get you to weather forecasts that go out to the 5th day into the future and are frequently updated.

5. Go back to the home page for the weather site and you can get a quick overview of the weather at the other places in Canada by clicking on the **National Forecast Map**. This map shows the major pressure systems and fronts (borders between mild/warm, cool/cold air masses). Maps like this are used by meteorologists to prepare the forecasts seen in item 4 above, and you can look to the west of your location on this map to see what might be coming down the pipe in the next few days.

6. Return again to the home page for the weather site and click on **Canadian Radar** (or **RADAR images** at the bottom left of the page). Here you find you can choose various regions across Canada, and within each region you can choose a **composite image of all stations** or the individual station that suits your location best. This will give you a recent still image of precipitation in the region and allows you to spot whether a band of precipitation is about to arrive or depart your location. It's usually helpful to view the radar image with the map from item 5 in mind because the precipitation is often associated with low pressure regions or weather fronts.

7. Back to the home page and click on **Satellite Imagery**. Again you can choose your region of interest, and you can choose **10.70 micros** or **Visible**. The 10.70 micron image is taken with a camera that "sees" heat radiation (infra-red radiation) of much longer wavelengths than we can detect with our eyes. There is a scale along the left hand side of an image that shows colours corresponding to the temperatures at various places across the image (be alert – the colours may be reversed, so blue is warmer than red). Cloud tops will be cooler than the ground, so this image lets us spot areas of cloud during day or night. The visible image will show cloud during the daytime only, of course. At night the visible image will just be black.

The satellite page also allows you to download **animations** which play the last 48 images in a loop. This is a great way to see the progress of weather systems across the country.

Let's now leave the Environment Canada site and go to the mother lode of weather information sites.

8. Who knows why someone at the city of Sarnia would set this up, but go to: [www.sarnia.com/weather](http://www.sarnia.com/weather).

Clicking on the various entries in the tables on this page will take you to a smorgasbord of weather information, including some of the sites we have already visited above. A couple of my favorites are:

- click on **Radar** (second item, second row). I like the "loops" that are listed in the left hand column of the radar table that come up. These allow you to see the progress of areas and lines of precipita-

tion and plan short term activities accordingly. Just scroll past the commercials at the top of the page that comes up, wait a bit until all the images load, and then the loop will start to play.

- go back to the Sarnia weather home page and click on **Satellite**, then try the **USA Sat loop** (last entry, top row) to see another version of an animated satellite series.

There is lots and lots more weather stuff to explore at this site!

### Learning Site

If cruising the Sarnia weather site wets your appetite to learn more about how the weather works, [ww2010.atmos.uiuc.edu](http://ww2010.atmos.uiuc.edu) is a beautifully illustrated site to visit.

9. Click on **Online Guides** along the left hand side of this home page and you'll arrive at a menu of learning modules that includes Meteorology, Remote Sensing from Satellites, Interpretation of Weather Maps, and Projects (for spouses who are teachers or science fairs for your kids).

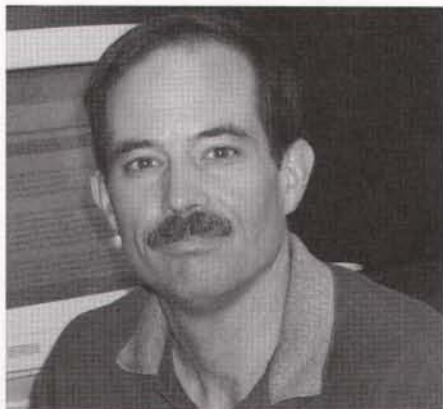
10. Click on **Current Weather** on the left side of the home page, then try **Surface Products**. This leads to a page with many choices of beautifully illustrated surface weather maps. I like the **Sea Level Pressure with Temperature** and **Sea Level Pressure with I-R Satellite** maps that combine the pressure pattern with the temperature and cloud patterns. Or you can click on **Satellite** from the Current Weather page and see a variety of satellite images. The surface and satellite images can be animated by clicking the **Animate**, then **Play** buttons at the bottom of the image that comes up.

These pages have suggested only a few of the many, many weather-related sites that are on the internet. From these sites (especially the Sarnia weather site) there are lots of links to explore. Mark Twain once said, "If you don't like the weather, just wait awhile." Now all you have to do is left-click!

If you discover some exciting new weather site, or new uses for the weather information you find, I'd be delighted to hear from you. Send me a message at [tgillesp@lrs.uoguelph.ca](mailto:tgillesp@lrs.uoguelph.ca). Happy weather surfen'! ♦

# Guidelines for Using NTEP Trial Data

KEVIN MORRIS, EXECUTIVE DIRECTOR, NATIONAL TURFGRASS EVALUATION PROGRAM



The National Turfgrass Evaluation Program (NTEP) was initiated in 1980 to coordinate uni-

form evaluation trials of turfgrass varieties and promising selections in the United States and Canada. "Official" tests are conducted at universities with most states evaluating at least one NTEP test. On-site tests, a cooperative effort between NTEP, GCSAA and USGA, assess varieties on golf courses. Since its inception, NTEP has collected information on more than 50 turfgrass characteristics from over 1,000 experimental and commercial varieties encompassing 17 turfgrass species. Annual progress reports containing data collected the previous year are released for each species tested. A final report containing all data collected is produced at the end of the testing period. These progress reports are available by becoming an NTEP member (a \$30 annual membership fee is required) and also on our website - visit <http://www.ntep.org>.

## The First Step

The number of experimental and commercial varieties in NTEP tests has increased greatly in the last few years (the current national perennial ryegrass test has 134 entries) making decisions about varieties more difficult for consumers. So to utilize the NTEP information most effectively, it is important to know how to correctly interpret the progress reports. Final reports are helpful because they contain four to five years of data from a completed trial. Data from the first year

of a trial mainly reflects performance during establishment and early maturity.

There are tables available for this interpretation process which give facts on soil type and pH, levels of soil phosphorous and potassium, whether the test was conducted in sun or shade, the amount of nitrogen and irrigation applied and the mowing height. For golf course on-site tests, more detail is provided such as date and rate of pesticide applications, cultivation practices used and fertilization rates, products and timing. Make sure the test locations you review are managed in a similar manner as your site. For example, data from a Kentucky bluegrass test mowed at one inch and irrigated to prevent any stress would be of little value to you if your site is a non-irrigated rough.

Another table will indicate locations and data collected. This is especially helpful for monthly quality as some locations may collect data for only three to four months in a year. Then this data presented for that location is not representative of a varieties' performance for an entire growing season. The "LSD Value" (Least Significant Difference), is a statistical tool used to determine if the difference in varieties is real or just happened by chance.

## Turfgrass Quality Information

Turfgrass quality ratings are the most used and abused of all turfgrass data. They are collected monthly and are an overall visual evaluation of each grass. Quality ratings contain all the factors that affect the quality of a turf stand and include genetic colour, density, percent ground cover, disease and insect injury, heat and drought tolerance and uniformity. Depending on your location, you should be checking the test site closest to you geographically that has similar climatic conditions. If maintained in a

similar way to your site, this data will be the most meaningful for your situation.

Percent Living Ground Cover ratings are normally gathered at several locations during the spring, summer or fall seasons. They are designed to express damage caused by insects, disease, drought, etc. These ratings are useful to determine the survival of turfgrasses through various stress periods and how well the grass recovered in the fall. Certain diseases such as leafspot, red thread, dollar spot and brown patch occur quite frequently and uniformly in test plots. It is advisable therefore to track the varieties' response to diseases over several years even though there may not be any data or indication in your geographic area. Many diseases occur infrequently or not at all in test plots. They do not distribute themselves uniformly across the test area, so it is difficult to estimate accurately either resistance or susceptibility.

## Seeing for Yourself

NTEP tests are shown at field days in many states each year. This is a good opportunity to see first hand variety differences and discuss these with turfgrass researchers. ♦

*Editor's Note: The GTI has had an NTEP trial on 134 entries of perennial ryegrass since 1999 and a Kentucky bluegrass NTEP trial in 2000 of 173 entries. If you have questions, Kevin Morris may be reached at NTEP, BARC-West, Bldg. 001, Room 245, Beltsville, Maryland 20705, phone 301-504-5125, fax 301-504-5167, email [kmorris@ntep.org](mailto:kmorris@ntep.org), website [www.ntep.org](http://www.ntep.org).*



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# Turfgrass Introduced to Russia

ANDREW GAYDON, VANDEN BUSSCHE IRRIGATION AND EQUIPMENT, REPORTS ON HIS RECENT VISIT

**I**t is sometimes not easy to appreciate what we have here in Canada until one goes to other corners of the world to see how others live.

I have traveled to various interesting places in the world to experience horticulture and agriculture, but none have intrigued me as much as my trip to Russia last September. I was given outstanding VIP treatment by the warm and generous people who were associated with a company based in Moscow called Russki Gazzoni.

Following the fall of Communism, many entrepreneurs came out of the woodwork to do their bit for Mother Russia as well as gain profit for themselves. This type of redevelopment and direction in society takes time and now after 10-12 years, changes are fast, furious and dramatic.

One area of change and improving opportunities is a landscape company called Russki Gazzoni who have developed from their small beginnings as a garden maintenance company into a large landscape company with 800 acres of sod production and tree nurseries.

The driving force in this company is Roman Zhardanovsky, who has many connections with Ontario, including initially, some very sound advice from Gerry Brouwer, the "king" of the sod growing and harvesting industry. Brouwer's knowledge of all aspects of sod production and his reputation for creative solutions to any challenge related to sod production has made him internationally sought after.

Before Russki Gazzoni, sod has never been seen in Russia. With the many newly "wealthy" building beautiful houses in the country subdivisions, sod is becoming a very popular need for their gardens.

The large sod growing acreage meant irrigation was essential and Vanden Bussche Irrigation was asked to advise on the irrigation for the sod production, as the existing irrigation equipment from the old regime was in total disrepair.

With all this good advice from Ontario, which has very similar weather throughout the seasons as Moscow, many acres



Marc Vanden Bussche speaks to Russian sod farm managers through an interpreter.

of Kentucky bluegrass/fescue ryegrass blends grew well and was an encouraging sign that the company was on the right course.

With good advertising and connections in government (an essential ingredient in modern Russian business), Russki Gazzoni started to receive inquiries for the sodding of government projects. Especially parks – which are high profile areas in Moscow – gardens, sports fields, roadside embankments, and one golf course. It was noticeable in Moscow and the outside city areas that most gardens are very poorly maintained, other than those in rich residential properties. We never saw a mowed lawn. In fact, in all the time that we were in Russia, we never saw a lawnmower, of any size or type. In general, homes have no lawns or landscaping. Front and rear yards are rough, ungraded, full of weeds, with native grasses and trees.

Russki Gazzoni has found it necessary to buy all their machinery and equipment from Canada, including large volume topsoil screeners, tree spades, diggers, backhoes, tractors and all irrigation equipment including drip irrigation for their shade trees that are in storage ready for landscaping.

To organize and perform a simple job in Moscow, is usually a full day's opera-

tion. The traffic around Moscow has to be experienced to be believed – many roads have enormous potholes and everybody drives as fast as their vehicle can possibly go. There are many new luxury cars, Mercedes Benz, Audi, BMW, Jeeps, etc., and many rusting Eastern Bloc vehicles from the "old era" but very little in-between. For transportation, many ordinary folk rely on old smoky buses, which are constantly breaking down, but most walk and walk and walk. It was very noticeable, especially in the city, that people are thin (because of their exercise and hard work) and obviously have some self pride as most men and women were dressed in clean fashionable clothes.

Everywhere one looks there are signs of change – new methods and equipment have entered the country. Many large warehouse-type buildings are under construction, ready to house the new era. Most of this new development is centred in or around Moscow and therefore has become a magnet for the very poor and unemployed people from rural country areas. For this reason, Moscow has 17 million people and is growing very fast.

An associate company of Russki Gazzoni has 100 acres under glass equipped with modern irrigation and automated fertilizing feed systems. In these greenhouses, they grow the vegetables for

Macdonald's in Russia. We learned that an ordinary hardworking man or woman may save for a month to take their family out for a very special meal at Macdonald's!

When we had the good fortune to visit the countryside many hours drive outside of Moscow, we were amazed at the vastness of the area which was all weeds. A federation owns all the farm land in Russia. Russians own shares in the land. The land cannot be purchased, it can only be leased. Farms of 6,000 to 10,000 acres are common. Most have nothing – no equipment, no seed, no money and no skills, therefore no development. A good knowledge of farming practices seems to be lacking. They continue to do things the old way and are reluctant to change. If the Eastern Bloc ever started farming like western farmers, they could out produce European farms and dominate the market by sheer acreage alone.

In the city centres of Moscow and St. Petersburg, the two main cities in western Russia, it is a very different world. The architecture and historical buildings, statues and artwork are absolutely spectacular.



Ruski Gazzoni's nursery operation – features all Canadian design and equipment.

The historical artifacts are rapidly being restored everywhere with all kinds of different donated monies coming from the East and West. The whole world appreciates Russia's history both before and after the 1917 revolution.

With all this western influence and publicity dominating Russian society, people

are learning and changing the way they live. Every week, new improvements are brought in and being implemented. Hardworking, forward thinking and hungry for success, companies like Ruski Gazzoni are the driving force in Russia today and the capitalist economies of the world are all eager to help that progress. ♦

# For perfect diamonds

## Edge it & Groom it



With its adjustable guide shoe, the Bannerman **Diamond Edger** is surprisingly easy-to-use. Its three-inch blade depth and reversible, 20-inch concave disc work together to quickly eliminate ridging. Debris is spiraled into the infield for fast and easy clean-up.

The **Diamond-Master**® (pictured) and **Ballpark-6**® groomers will give your community ball diamonds a surface just like the professional teams demand, and reduce the time, effort and labour required to do the job.

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# Grass Seeds

AVAILABLE FROM MAJOR SEED COMPANIES IN ONTARIO

The Sports Turf Association strongly recommends to athletic field managers that they use only improved cultivars that have been tested and found superior under local conditions.

SPECIES	SUPPLIER						
	Bishop		EroGreen	Ontario		Pickseed	Speare
<b>Kentucky Blue</b>	Abby Ascot Award Bluemoon Freedom II Goldrush Impact Liberator Minnfine NuGlade Odyssey	Rambo Rugby II Shamrock Total Eclipse	Apollo Arcadia Award Baronie Denim Gnome NuGlade P-105 Shamrock Total Eclipse Viva	Award Caliber Liberator NuBlue NuStar Rambo Shamrock		Alpine America Banff Bronco Crest Indigo Limousine Marquis Quantum Leap Touchdown	Award Bluechip Goldrush Jewel Liberator Minnfine NuBlue NuGlade Odyssey Rambo Shamrock Total Eclipse
<b>Ryegrass</b>	Academy Accent Archer Elf Top Hat		Affinity Catalina Pinnacle Premier II	Academy Accent Divine Elf Player Spectacular Top Gun		Cutter Edge Express Fiesta II Futura 3000 Lowgrow	Academy Accent Archer Blackhawk Elf Top Hat
<b>Fescue: Creeping Red</b>	Florentine		Boreal Franklin Salem	Fenway Florentine Salem		Boreal Jasper Perneille	Franklin Florentine
<b>Fescue: Chewings</b>	Sandpiper Southport		Bridgeport Southport Tiffany	Jamestown II Sandpiper Southport	Wilma	Victory II	Sandpiper Wilma
<b>Fescue: Hard</b>	Brigade		Bornito Warwick	Heron Rescue 911 Warwick		Spartan	Brigade Heron
<b>Fescue: Sheeps</b>	MX86		Barok	MX86AE			Azure MX86
<b>Fescue: Tall</b>	Arid III Pedestal		Bonsai Vegas	Arid III Excalibur	Millenium Pedestal	Crossfire Mini Mustang Mustang II	Shortstop II Team Jr. Arid III Millennium Monarch Pedestal
<b>Bentgrass: Colonial</b>	Highland		Highland	Highland		Exeter Highland	Highland
<b>Bentgrass: Creeping</b>	18 <sup>th</sup> Green L-93 Penn A-4 Penn G-6 Penncross Penneagle Pennlinks	Pennway Providence SR1020	L-93 Penn A-4 Penn G-6 Penncross Penneagle Pennlinks Trueline	Dominant Plus 18 <sup>th</sup> Green L-93 Penn A-4 Penn G-6 Penn Trio Coated Penncross	Penncross Penneagle Pennlinks Pennway Providence SR1020	Aggressor Cato Mariner National Penncross Penneagle Pennlinks	A-4 Brighton 18 <sup>th</sup> Green G-6 L-93
<b>Poa trivialis</b>	Winterstar		Cypress	Fuzzy Sabre	Sunup Winterstar	Colt	Sunup Winterstar
<b>Poa supina</b>			Supranova				
<b>Poa compressa</b>	Canada Blue		Canada Blue	Canada Blue	Reubens		Canada Blue
<b>Weeping alkali</b>	Fults Salty		Fults Salty				Fults Salty

## Turf Seeding Rates

The following are seeding rates per 100 m<sup>2</sup> 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: OMFRA Turfgrass Management Recommendations, 2000)