BUNKER RAKES

The 1200A Bunker and Field Rake delivers power, speed, and great range in the field. Operators will notice a number of comfort and productivity improvements in the 1200A. These include 40 percent less steering effort, an adjustable high-back seat, standard power lift of the rear rake, and an improved braking system. John Deere/800-537-8233

For information, circle 085 or see www.oners.ims.ca/2908-085





INFIELD MACHINE

The Infield Pro is available with a 16 or 18-hp Vanguard engine and all the tools required to keep your skinned areas in shape. Patented three-wheel series/parallel traction drive gives you the control, and machine has 7 1/2-in. ground clearance. Attachments include the tooth rake, spring rake, weeder/cultivator, spring rake, 40-in. dozer blade, 58-in. spiker, debris blower, finish grader, and drag mat

Toro Company/800-348-2424 For information, circle 086 or see www.oners.ims.ca/2908-086

"IN-FIELDER"

Groomer machine features heavy-duty bolt on serrated grader blade; floating pulverizer reel with lubed pivots and leveling bar floating on sections to reduce skidding and bunching while turning. Reist Industries/519-669-1501 For information, circle 090 or see www.oners.ims.ca/2908-090

Here's a Nice New Dark Green That'll Show Up Nicely for the Games You Play



TIFWAY 419

THOMAY

Ideal for Soccer, Football, Baseball, Softball and Athletic Fields of All Stripes



For Detailed Information and a List of Licensed Growers Visit:

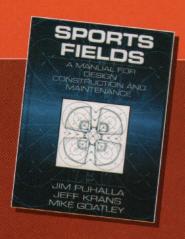
www.tifsport.com

Circle 140 on card or www.oners.ims.ca/2908-140

sportsturf machines



The Handbook of Technical Irrigation Information is designed to be used as a reference guide for all professionals whose livelihood takes them into the realm of irrigation. Contractors, architects, designers and engineers alike are now able to benefit from the wide spectrum of information that has been gathered from numerous sources into a single document between the covers of this handbook. on sale \$17!



This book is designed to provide a comprehensive technical reference source for those who are responsible for the design, construction, renovation, or maintenance of sports grounds. Each chapter illustrates a specific design element of all popular sports facilities, and explains how these elements are integrated in a successful project. on sale \$39!

BUSINESS MEDIA

(312) 846.4600 x41

Call now, quantities are limited!

TURF ROLLER

Tru-Turf Equipment has available a 1400-lb. sports turf roller. Units employ patented 3 offset roller principal and are fitted with three different spiking depths. Available as a 3-point linkage or tow behind model with a Vibrator attachment option. Tru-Turf Equipment/011-61-7-5594 7199 For information, circle 089 or see www.oners.ims.ca/2908-089



FIELD DRAGS

Beacon premium X-drags combine plastic lumber with hardened steel nails. The 3 x 2-ft. nail drag is ideal for scarifying baselines, cutouts and home plate areas. Also for daily nail dragging of infield skin topdressing layer. It can be pulled either width direction by changing the tow rope connection point. Fits between 3-ft. line and foul line down 1st baseline. Beacon Ballfields/800-747-5985

For information, circle 084 or see www.oners.ims.ca/2908-084

SMITHCO AFC

The Smithco Super Star AFC features a highly responsive hydraulic-drive system and hydraulic controls for all implements. The 16 and 18-hp gasoline engine is powerful, aircooled and quiet. New scarifier has exact depth control, and "step-through" chassis, tilt wheel and mid-back seat for operator comfort.

Smithco/610-688-4009 For information, circle 093 or see www.oners.ims.ca/2908-093

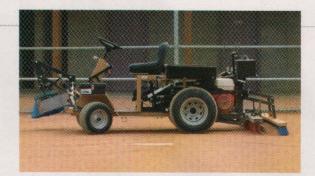


JAKE GROOMER

The restyled Jacobsen Groom Master golf bunker and sports field groomer comes with a choice of 19-hp Kubota

Diesel or 16-hp Briggs & Stratton V-Twin gasoline engine. The unit adapts to chores including bunker raking, sports infield grooming, finish grading, spiking, and turf grooming. An extra-tight turning radius and large, knobby-tread tires provide traction and agility. Jacobsen/888-922-8873 For information, circle 083 or see www.oners.ims.ca/2908-083





INFIELD GROOMERS

The Kromer AFM grooming system's multi-function unit can be equipped to take care of every infield need: spring-tined harrow, leveling blade, and finishing broom; ridge remover broom to eliminate the lip; spray boom for dust control; and dry line and paint liners. Kromer Company/800-373-0337 For information, circle 080 or see www.oners.ims.ca/2908-080

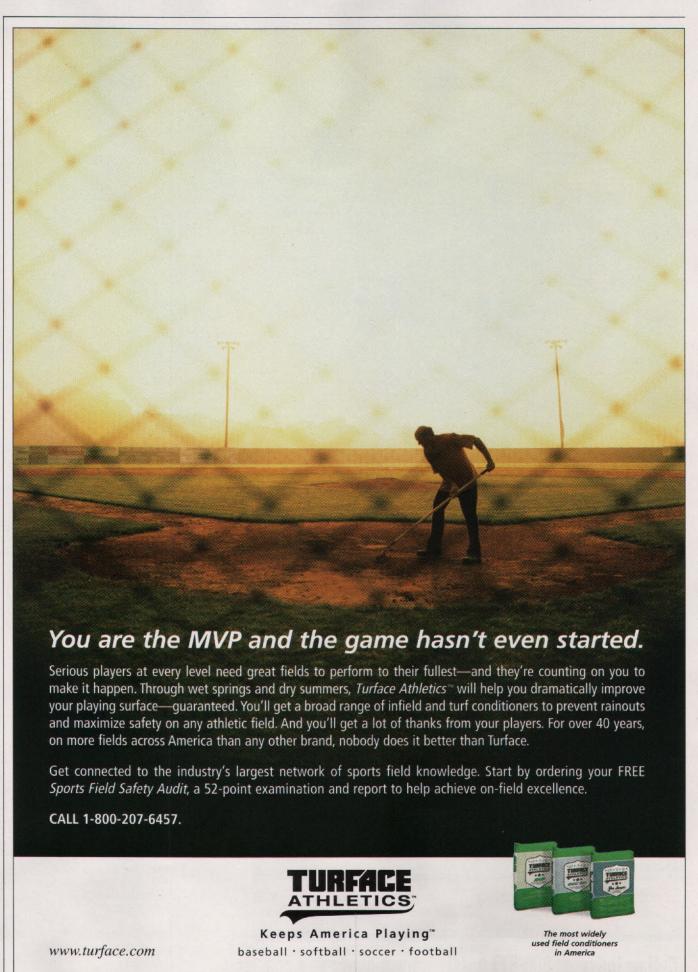
GROUNDS PLANE

plane is pull-type machine that can level, grade, and groom all in one operation. It with positioner, and a finish-ing broom. Three sizes avail-able, your choice of WINDS/309-465-7655 For information, circle 091 or see www.oners.ims.ca/2908-091

MID-SIZE WALK-BEHIND

The Yazoo/Kees Kutter is a mid-size walk-behind features 7gauge side skirts and a "rolled" front edge. Transmission is Peerless 5-speed 700 Series with speeds up to 6 mph and assisted reverse and 9-spline output shaft. Engine options are Kawasaki or Kohler, in 32, 36, and 48-in. decks. Yazoo/Kees/877-368-8873 For information, circle 096 or see www.oners.ims.ca/2908-096





CLAY SURFACE/INFIELD GROOMER

up, level, and comb clay surface infields. GreensGroomer WorldWide, Inc/888-298-8852 For information, circle 095 or see www.oners.ims.ca/2908-095



BOB-CAT CLASSIC

The Bob-Cat Classic is an updated gear-drive walk-behind mower available with a 15-hp Briggs & Stratton ELS or a 15-hp Kohler Command Pro engine, and either a 36 or 48 in. side discharge, fixed-mount mowing deck. Features include a unitized engine and cutting deck and electric clutch with single deck drive belts.

Jacobsen/888-922-8873 For information, circle 077 or see www.oners.ims.ca/2908-200

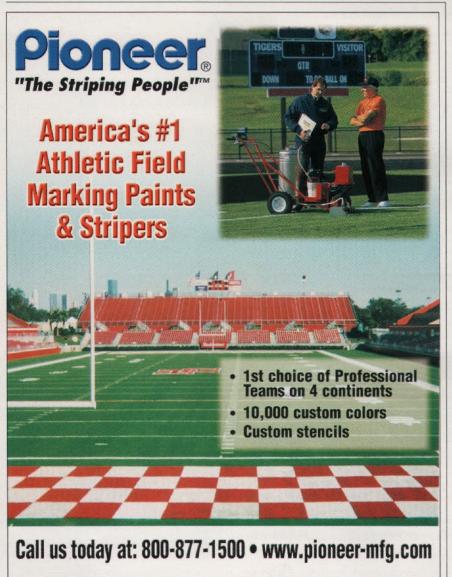
POWER RAKE

BlueBird's PR22 power rake has a modular platform that can be configured to a lawn comber, seeder, or power BlueBird/800-808-2473 For information, circle 097 or see www.oners.ims.ca/2908-097



VERTICUTTER

The Goossen VertiCutter (VC-60) is a PTO-powered pull-type verticutter built for professional verticutting and detaching. The powerful chain drive system can handle the toughest environments. The patented skidplate height control system handles contours very well and maintains a controllable work depth from 0 to 1 in. Goossen at Harper Industries 800-835-1042 For information, circle 094 or see www.oners.ims.ca/2908-094





TURF VACUUM

The TV60H PTO-powered

hydraulic drive turf vacuum is designed specifically for sports field applications and golf course renovation. Features include a 7-cu.yd. hopper, 25-in. diameter blower with replaceable poly liner, and a hydraulic hopper dump and latch system. All controls from operator's seat. Goossen/800-835-1042

For information, circle 074 or see www.oners.ims.ca/2908-201



slope level bar allows for easy grading, surface break-up, or landscaping. Optional Finishing Brush shown. Broyhill/800-228-1003 x34 For information, circle 081 or see www.oners.ims.ca/2908-081



KUBOTA UV

Kubota introduces the RTV900, available in four configurations with a wide variety of accessories. Combining Kubota diesel engineering technology and a perfectly matched Kubota transmission, this utility vehicle offers power, strength and stability, with all the operator and passenger comforts you could ask for. Kubota Tractor Corp/888-458-2682 For information, circle 092 or see www.oners.ims.ca/2908-092

BEDSHAPER

The Little Wonder BedShaper is available as a frontmount attachment for both Grasshopper and Walker mowers to make short work of even the largest edging, bed shaping, and trenching projects. BedShaper is ideal for the con-



Princess 77 Helps New Mexico State Develop a Strong Field for Their Team



Following their first undefeated season at home, the New Mexico State University Aggies were looking to start the 2003 football season with their second consecutive home opening win. However, the players weren't the only people preparing for the upcoming season. The responsibility of having the field ready for play by the first snap of the ball fell on the shoulders of Bud Jones and the New Mexico State Grounds Crew.

Removal of the existing ryegrass revealed an 85 - 90% loss of Tifway (419) on the playing field. Renovation of the field using Princess 77 hybrid bermudagrass from seed solved the problem. 50 days later, the field was pronounced to be "at full density and in excellent condition." According the the grounds crew, Princess 77 held up "remarkably well" to the traffic of the first game.

Available in seed and sod.





*Response of Bermudagrasses and Zoysiagrasses to Applied Water Using a Linear Gradient Irrigation Design, Sean Reynolds, 2000, Master's Thesis

Circle 144 on card or www.oners.ims.ca/2908-144

sportsturf machines



UTILITY WORK MACHINE

Bobcat Company has introduced its 5600 Toolcat Utility Work Machine equipped with a 44-hp Kubota diesel engine and combined all-wheel steer and 4-wheel drive in one machine. This combination gives it the ability to go through tough ground conditions.

Bobcat Company/701-241-8700 For information, circle 081 or see www.oners.ims.ca/2908-190



BE A CROWD PLEASER!

When it comes to pleasing fans, nothing beats a great game played on real turf maintained to perfection, Anderson's Professional Turf™ (APT) products help you get the cheers you deserve when the teams hit the field.

Our line up of all-star products - over fifty different formulas - has been developed to offer you maximum flexibility in toppling turf care challenges and to assure your ability to attain optimum results. From the infield out and goal to goal, APT products help you keep your turf healthy and hearty under the most demanding of game conditions. And if insects or weeds attempt to get in on the action, we can help you

give them the boot with our undefeated special teams of control products.

For nearly 40 years, The Andersons has been refining the art and science of producing turf-specific fertilizers, pest control products and fertilizer/pest control combination products. And we've never been more fired up about serving your needs. We want you to see those Turf Heads in the stands get up to give you a standing "0"!



about The Andersons complete line of Professional Turf products call toll free, 1-800-225-2639.

ONS • For a free selection guide and more information

INFIELD SPECIALTY

Fieldmaster Infield Groomer is a 3-point hitch or drag College World Series, National 1996 Olympics. Fieldmaster/800-728-3581

For information, circle 082 or see www.oners.ims.ca/2908-082



NEW ZT MOWER

The EverRide Warrior zero turn radius mower from Auburn Consolidated Industries, the original equipment manufacturer for Kubota, Honda, John Deere, Case New Holland and others. Features include 7-gauge tunnel deck with 149 sq. in. of discharge area; frame laser-cut from Grade 50 steel; and hydrostat system with top-mounted cooling fans. Auburn Consolidated Industries

402-274-8600

For information, circle 082 or see www.oners.ims.ca/2908-191

TORO SPRAYER

to the seals or pump. The Toro Co./800-803-8676

For information, circle 099 or see www.oners.ims.ca/2908-192



Synthetic Turf Groomer with GreensSlicer® Spring Tine Rake.

Fast, Efficient Grooming of all filled synthetic sports fields!

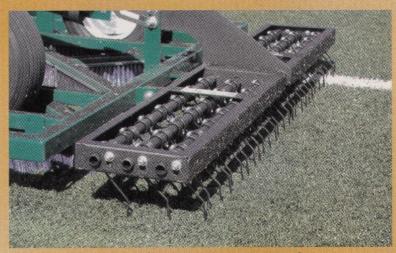


FEATURES and BENEFITS

- Synthetic Sports Turf Groomer works with all fill material currently used, in both wet and dry conditions.
- Patented brush design lifts turf fibers leaving them in a plush, upright position. Brushes move fill to low spots or depressions left after play.
- Synthetic Super Duty Blue Brushes retain their original shape, resist wear, and will not rot.
- GreensSlicer Spring Tine Rake consists of 3 rows of 28 tines spaced 7/8 inch apart for thorough coverage.
- Each row of tines may be adjusted to the desired level of aggressiveness.
- The GreensSlicer combs through the fill material, relieving compaction and assuring a soft, level playing surface.

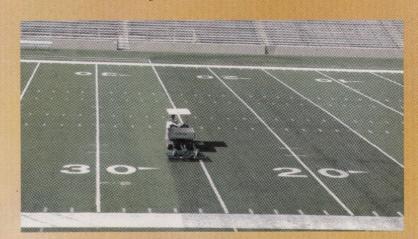


Synthetic Super Duty Blue Brushes
Resist wear and will not deteriorate from moisture.



GreensSlicer Spring Tine Rake 3 rows of 28 tines.





Call for additional information on our line of Synthetic Turf, Natural Turf, and Clay surface Groomers

888-298-8852 Fax 317-298-8852

www.greensgroomer.com

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BY ERROL WIRASINGHE, PH.D.

5 STEPS TO MAKING BETTER DECISIONS

urf managers are required to make crucial decisions.

Unfortunately, the more information and the more choices we have, the more difficult decision-making is. When it comes to decision-making, common sense and experience are vital tools; however, they alone are not enough.

Before you make another decision, fine-tune your decision making process with the following steps:

1. Study the problem and define your objective

We often believe that we have a good idea of the problem at hand (the decision to make), but understanding the problem is not the same as understanding the objective. As you review the problem and decide your course of action, you need to determine what your ultimate goal is. By looking at the big picture, you

can devise an unambiguous objective and make your decision easier.

In order to uncover your objective, ask yourself the following questions:

- * What is the problem?
- * Is this a problem?
- * Why is a solution required?
- * Who is affected?
- * How does it manifest?
- * When did it first manifest?
- * What are the consequences?
- * Is it a transient or recurring problem?
- * Under what conditions does it occur?
- * Are there obvious causes?
- * Is a solution worth the cost/effort?

2. Identify all relevant factors that impact your problem

The criteria relating to your decision are all the circumstances that could be contributing to the problem. As you consider your criteria, pay attention to two main issues. The first is to select the most appropriate criteria. This is vital to making the best decision; too often decision-makers take a light-hearted view of this step and pay a very dear price later on. Too many or too few factors will compromise your decision.

Contrary to popular belief, all identified factors do not have the same significance or importance. Thus, the second issue is to determine how important each criterion is (assign weights) compared to the others. Since your final decision will depend heavily on the relative value you place on your factors, the weights you assign to each should truly represent your desires. Of course you can do this using common sense and experience, but that defeats the purpose. I recommend the "pairwise" comparison technique, which consists of comparing the criteria against each other, in pairs. This process will also help you identify prerequisites, obligatory criteria and desirable criteria.

3. Creatively identify all available options or solutions

After identifying criteria, list all your available options, from the ones that seem the most logical to those that seem ridiculous. Remember, you're not deciding at this point; you're simply listing your possibilities, so write down everything you can think of. Whatever you do, do not jump to conclusions and think, "My options are obvious." Don't limit your options. List and analyze everything.

4. Gather information pertaining to your options and include any new factors you may have discovered

Begin by looking at each of your proposed solutions and develop the pros and cons as they apply to each. Be descriptive in each of your pro/con judgments. Depending on the pros and cons you list, you may have to gather additional information. If so, question the information being provided to you. Questions to ask include:

- * Is the source of the information credible?
- * Is the source/person reliable?
- * Does the provider have a conflict of interest?
- * Will the information be valid for the period under consideration?



- * Is the problem serious enough to merit further verification of information?
- * Is the information relevant to the objective under consideration?
- * Beware of eyewitness accounts or "I heard this from a reliable source." Seek definitive proof wherever possible. Often during the information-gathering phase, you will identify new criteria that you need to consider. Add these to your original

list. Finally, do not cut corners as you evaluate your options, especially if a bad decision is likely to have serious consequences.

5. Rank your options and make your decision

With your solutions spelled out on paper and the pros and cons of each listed, you can analyze your options and identify the best route to take. Use the pairwise technique, to rank your options: consider one criterion at a time, and then compare each candidate against the others, in pairs, and assign points. Once you have exhausted all criteria and candidates, multiply the points assigned to each candidate with the corresponding criteria weights to determine its rank. Once you make your final decision, based on the information you have uncovered, do not second-guess it. It is your decision and you need to develop faith in it and be in harmony with it.

As you execute your decision, keep in mind the timing of your decision. For example, if you decide to approach your supervisor for a favor, you would intuitively wait for a moment when he/she is not under pressure and is in a good mood. Yet, when it comes to implementing a well-thought-out strategy, many people completely forget how critical timing is. They become emotionally attached to the decision and try to execute it immedi-

It is also important to be aware that what is urgent might not necessarily be what is important. Urgency is time related; it requires immediate action. Importance is driven by values. If ignored, important items could turn into urgent items.

Just because today's world is complicated doesn't mean that decision-making must be complicated too. Take a systematic approach to all your daily decisions to ease the stress and frustration decisionmaking brings on. The optimum decision depends on how you assign weights to the criteria, and how you assign points to the candidates.

By following the process discussed above, you'll make more reliable and consistent decisions that positively affect your company's growth and profitability.

Dr. Errol Wirasinghe is the author of "The Art of Making Decisions-Expanding Common Sense & Experience." For more information go to www.XpertUS.com.





NEED H VOLUNTERS

ften during the busiest times, we wish that there were a few more hands around to help with some of the tasks or chores that need done. Volunteers might be the answer to your needs. However, efficient and effective volunteers do not just fall from the sky. It takes planning and management to have volunteers that do not consume all of your time, and who stay consistent with your goals and mission.

First you must understand why people volunteer. Some want to help build a better community; others want to give something back to their community. Recognition is what drives some; others want to have the feeling that they have personally achieved a task, or have perhaps brought about social change. Yet others volunteer just because someone asked them to, or to help out a friend, or show support for a given cause. In the end it doesn't matter if they meet the goals that they have for themselves and the organization.

On the other side, volunteer complaints include: not being called back, not being available at the needed time, not being given anything to do when they show up, feeling "in the way," being forced to fund-raise only, never being thanked, and not receiving enough guidance.

You need to manage your volunteers so that they don't have these thoughts.

Designing a work plan for volunteers' needs to be done carefully and with some forethought. Simply allowing people to do as they please will not only frustrate you to the "doing it yourself would be easier" mentality, but also people will begin to shy away from helping productively.

There are countless places and organizations for people to volunteer their time. You want to make each volunteer experience as positive as possible, so people will return time after time to lend a hand. To help make your volunteers' experiences a success, give them clear, concise and meaningful work. Explain your expectations and provide them with the proper training and tools to do the job. Have a training day to show volunteers what you want and how you want it done. Do not give them work that you would not do yourself. Be organized and prepared. Nothing will kill the passion of a volunteer faster than if they arrive and find staff ill prepared for the event. This is a bit like having a friend ask you to help them move, and when you show up to help, you end up packing boxes before you can load them in the truck.

Have job descriptions and always have a to-do list for volunteers. Job descriptions help you and the volunteer better understand what you want them to do. Having a to-do list will help you answer quickly that unexpected call asking "Is there something I can do to help?" You always want to have a task for this volunteer, saying "no" will only delay the question in the future.

Give volunteers meaningful work that can be accomplished in the time that they have. Do not give them more than they can handle. Know your volunteers and their abilities. If they have one hour a week to volunteer, do not give them 10 hours of work and expect them to complete it. Allow them to complete a job and then express your appreciation for the work they completed.

Communicate with your volunteers. Do not limit communications to only what needs to be done and always say "thanks." Always be timely and return calls or emails.

Another great way to recognize volunteers is by feeding them. During a workday serve lunch, or have a recognition dinner for them at the end of the year or season. Communication needs to be a two-way street. Volunteers should feel free to talk to