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drive wheels to hug the ground. While a foot-operated differential lock kicks in still greater traction. And rest assured, when it comes to cutting performance, you've found mecca. The F735's 20.5-hp diesel engine has plenty of torque to cut through thick and thin. Enough to drive heavy-duty 48- and 54-inch decks, all the way up to the new (and unique) John Deere 60-inch-high-lift, seven-gauge stamped steel deck. Interested? Visit your local John Deere dealer (call 1-800-537-8233 to find one near you). See why John Deere has been an oasis of good ideas for the past 162 years.



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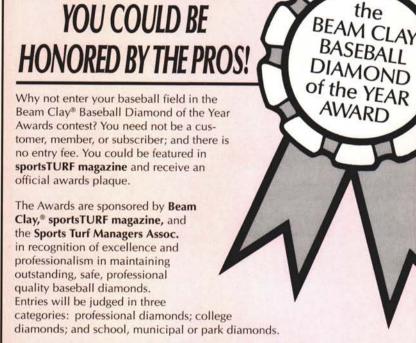
"Unfortunately, insects are an ongoing problem, since both fire ants and mole crickets thrive here. The lighted fields seem to act like a magnet for mole crickets. We follow an aggressive IPM program for these pests."

### Maintenance scheduling

The crew uses slice and core aeration as needed. They perform each up to three times a year. "We drag the cores back into the outfield turf and pick them up in the infield," says Chapman. "With our field profile, we need to balance stability and compaction. We'll bring the field almost to the saturation point and use the one-ton roller on the infield when conditions warrant it."

The crew overseeds the field's bermudagrass with a perennial ryegrass blend in late October or early November. The ryegrass starts phasing out in late March or early April. Reidy says, "The south Florida heat makes the transition

the



#### Send the information below to enter:

- 1. Age of baseball diamond (year of installation).
- 2. Geographic location (city and state).
- 3. Description of maintenance program.
- 4. Operating budget for baseball diamond.
- 5. Irrigation. None Manual Automatic
- 6. Total number of maintenance staff for field.
- 7. Does baseball field have lighting for night games?
- 8. Number of events on baseball diamond per year.
- 9. Types and number of events on diamond other than baseball.
- 10. How many months during the year is the field used?
- 11. Why do you think this field is one of the best?
- 12. IMPORTANT: Send two copies of entry and two identical sets of color photos.

Deadline for entries: Entries must be postmarked no later than October 30. Selection of winners will be made by the Awards Committee of Four Major League Head Groundskeepers.

Mail entries to: **Beam Clay Awards Kelsey Park** Great Meadows, NJ 07838





Call 1 (800) 817-1889 use Fast Fax #1150599 and/or Circle 115 on Inquiry Card



Courtesy: STMA

back virtually trouble-free, with only a short period of uneven die out.

"The turf generally is mowed to a oneinch height, though they'll sometimes cut the infield down to 3/4 inch. A triplex reel mower is used in the outfield, and occasionally in the infield in a time crunch. Generally, a walk-behind reel mower is used for the infield.

"Mowing frequency is matched to turf growth. The crew gives Field #1 special attention, creating patterns, and whenever possible, double or triple mowing to get a more professional look."

#### **Field improvements**

Since the complex opened, the crew has installed Moundmaster bricks in front of the mound and in the batter's box to ease maintenance burdens.

They've also topped the infield clay with a layer of crimson stone. The bricklike composite improves aesthetics, helps absorb water, and eases maintenance requirements. Most importantly, it meets with player approval.

The crew has also used a coarse form of crimson stone on the warning track to cut maintenance there.

#### **Field use**

As a public facility, field use is extensive. More than 30 leagues play on the field over the course of the year. The field use schedule spans 10 months, and includes up to 400 games.

The fields are only closed to the public during August and January. This time is reserved for intensive maintenance procedures and special projects. It also brings a well-deserved rest for a #1 field that works as hard as its maintenance staff.

Bob Tracinski is business communications manager for John Deere in Raleigh, NC. He is public relations co-chair for the National STMA.

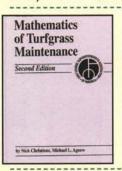




## Feature of the Month: Maintain It Easy(Keep It Safe),

by Grounds Maintenance Services Learn from hundreds of instructional photos featuring all aspects of softball field groundskeeping. Explains: Lip reduction; setting of multiple bases and pitching plates; dragging equipment and pat-

terns; base line options; unique complex ideas; dugout design; batting cage and hitting station; layout; water removal and much more. Unique field ideas from across the country. 4023 \$37.00



### The Mathematics of Turfgrass Maintenance, 2nd edition,

by Nick Christians and Michael L. Agnew,

This book provides you with basic mathematical principles of budgeting, fertilizer and pesticide application, the ordering of top-dressing, irrigation, and many other parts of golf course operations. 149 pgs. 4149 \$34.95

Superintendent's Handbook of Financial Management

### Superintendent's Handbook of Financial Management, by Raymond Schmidgall,

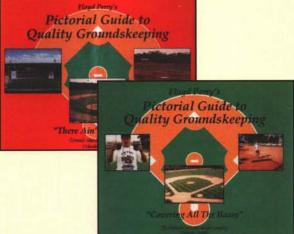
Written specifically for golf course superintendents, managers and owners. Official certification textbook of the Golf Course Superintendents Association of America. The book presents useful methods and techniques for understanding and using income statements, balance sheets, accounting procedures, financial statements, operating budgets, capital budgets, record keeping and much more. 150 pages. 4006 \$34.95



by Floyd Perry,

#### Destructive Turfgrass Insects: Biology, Diagnosis, and Control, by Daniel A. Potter,

This book has the answers you need to control white grubs, mole crickets, fire ants, and other pests. Stinging and biting insects such as yellow jackets and ticks are included, as well as nuisance wildlife such as moles raccoons, and more. Covers the biology, diagnosis, and control of virtually all of the insects and mites that attack warm and cool season turfarasses. Over 250 full color photographs. 400 pgs. 4150 \$65.00



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Book Two, " There Ain't No Rules ",(108 pgs.) covers Football, Soccer, Softball, Little League, Minor League, College and High School Facilities. Also covers Curbside Appeal; Tricks of the Trade, New Ideas for Easy Maintenance; Professional Research from Higher Learning Centers and much more.

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4022 - Pictorial Guides to Quality Groundskeeping 2 book set. \$69.90

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<b>INSTRUCTIONS FOR</b> Insect pests of turf are listed below, in the left column. To find the control produ with the list of chemical products in the right column. All numbers are inclusive. In the chart of chemical products, chemical names are given first, followed by t ucts that require commercial state pesticide application licenses to apply. Not a species have varied tolerances. For full information on insect control, consult either labels of the individual cher specific questions, you should consult your county extension agent (turf) and/o	Insert pests of turf are listed below, in the left column. To find the control products that are labeled for a specific pest, match the numbers following the insect with the list of chemical products in the right column. All numbers are inclusive. In the chart of chemical products, chemical names are given first, followed by trade names in parentheses. <b>Boldface names</b> indicate "Restricted Use" products that require commercial state pesticide application licenses to apply. Not all insecticides are labeled for every state, and different established grass species have varied tolerances. For full information on insect control, consult either labels of the individual chemicals service departments of the respective manufacturers. For full information on insect control, consult either labels of the individual chemical service departments of the respective manufacturers. For specific questions, you should consult your county extension agent (turf) and/or your state office of pesticide programs or environmental quality.
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For full information on insect control, consult either lab specific questions, you should consult your county extremely extremely and consult your county extremely extremely and consult your county extremely extremely and consult your county extremely extr	abels of the individual chemicals or technical service departments of the respective manufacturers. For extension agent (turf) and/or your state office of pesticide programs or environmental quality.
INSECT CONTROL OPTIONS	KEY TO CONTROL PRODUCTS
Aphid 1, 3, 4, 5, 10, 22, 23, 24, 25 Armworm 1 3-8 10 18 21-24 27	(Hestricted Use Pesticides in <b>boldrace</b> ) 1 = acephate (Acephate Pro 75; Orthene Turf, Tree and Ornamental; Pinpoint; Velocity)
ass mite	a = benarocarp (Turcam) 3 = bifenthrin (Talstar)
	4 = carbaryl (Carbaryl, Cutworm and Cricket Bait, Grubtox, Insecticide V, Fluid Insecticide,
ass Aetenius	5 = chlo
Chinch bug 1-8, 10, 12, 13, 17, 21, 22, 25, 26 Clover mite 3 6 7 10 11 22	
•	and Ornamental Insecticide, One-Sect IV, Vos-Ban III)
ground beetle	7 = chlorpyritios + DUVI (Dichloron, IRC-III, Lo-Ban, L.O. Sect, Non-Scents, No Prisoners
Earwig 1-10, 17, 22, 24-26	L.Ó.)
European chafer 4	8 = cyfluthrin (Tempo)
yworm	9 = cypermethrin (Cynoff, Demon TC)
Fire ant 1-5, 8-10, 15, 19, 21, 22, 25	10 = diazinon (Diazinon, Evici, Lawn and Gargen Insecticide, Nnox Out) 11 - dicofol (Kalthana)
rass mite	12 = ethion (Ethion)
	13 = ethoprop (Mocap)
setle	14 = fenamiphos (Nemacur)
6	15 = fenoxycarb (Award)
	10 = Ilpronii (Unipco Unoice)
Hyperodes weevil 4-8, 10, 13, 18, 20-23, 25, 26 Jananese heetle 1 2-5 8 22 23 25 26	18
	19 = hydramethylnon (Amdro, Siege)
	20 = imidacioprid (Menit) 21 = isofennhos (Offanol: Insecticide IV)
t	25, 26, 28 22
Nematode 13, 14	23
scale	24
orm	3, 25-28 25 = permetririn (Astro, Uragnet, Flee, Permetririn Turr and Ornamental, Perm-X) 26 = pyrethrin (Exciter)
White grub 2, 4-7, 10, 13, 17, 18, 20-23, 25, 26	28 = trich
winter grain mite 5	Trichlorfon, White Grub and Sod Webworm Insecticide, White Grub Control)

	WEEDS AND THEIR CHEMICAL CONTROLS	HEMICAL CO	ONTROLS
Weeds are listed in tw weed (in the "Control to weed (in the "Control to chemical that is labele in the chart of chemica "Restricted Use" produ lished grass species h For full information on cific questions, you sh	<b>INSTRUCTIONS FOR USING THIS SECTION</b> Weeds are listed in two categories, "Broadleaf" and "Grassy." To find the control products that are labeled for a specific weed, match the numbers following the weed (in the "Control Options" column) with the list of chemical products on page 27. In the lists of broadleaf and grassy weeds, <b>boldface numbers</b> indicate a chemical products that is labeled for pre-emergence control. No boldface indicates post-emergence control. All numbers are inclusive. In the chart of chemical products that require commercial state pesticide application licenses to apply. Not all herbicides are labeled for every state, and different established grass species have varied tolerances. For full information on weed control, consult either labels of the individual chemicals or technical service departments of the respective manufacturers. For specific questions, you should consult your county extension agent (turf) and/or your state of pesticide programs or environmental quality.	<b>USING THIS SECTION</b> products that are labeled a 27. In the lists of broadle mergence control. All num st, followed by trade nami nses to apply. Not all hert als or technical service do state office of pesticide p	or a specific weed, match the numbers following the af and grassy weeds, <b>boldface numbers</b> indicate a bers are inclusive. Is in parentheses. <b>Boldface names</b> indicate icides are labeled for every state, and different estab- icides are labeled for every state, and different estab- partments of the respective manufacturers. For spe- rograms or environmental quality.
BROADLEAF WEEDS	CONTROL OPTIONS	BROADLEAF WEEDS	CONTROL OPTIONS
Bindweed Black medic	8, 14-18, 23, 25, 36, <b>37</b> , 38-42, 59 15, 17-23, 25, 36, <b>37</b> , 38-42, 59, 60	Oxalis (woodsorrel) Parslav-niart	5, 50, 53, 54 2, 15, 23, 28, 36, 41, 45, 58
Carpetweed	4, 14-16, 23, 24, 25, 37-41, 45, 49, 50, 53, 54, 58	Pennycress	9, 14, 15, 25, 38, 40
Chickweed	2, 4, 11, 14-25, 28-30, 36-42, 45, 46, 49, 53, 54, 55, 58, 60	Pennywort Plantain	14-17, 19, 21, 36, <b>37</b> , 39-42 11. 14-23. 25. <b>37</b> -42. 59. 60
Chicory	14-18, 20-23, 25, 39-41, 59	Purslane	2, 4, 7, 8, 11, 14-22, 24-25, 28, 30, 37-42, 49, 53, 54,
Clover	11, 14-23, 25, 30, <b>30</b> , <b>36</b> , <b>37</b> , 38-42, 45, <b>53</b> , <b>58</b> , 59, 60	C	0 7 0 11 11 00 05 07 10 17 10 50 50 00
Cocklebur	2, 2, 7-9, 14, 15, 17, 18, 23, 25, 36-41, 60	Shonardenurso	2, /-9, 11, 14-22, 25, 3/-42, 4/, 49, 58, 59, 50 2, 4, 6, 7, 6, 11, 14, 18, 20, 22, 25, 28, 27, 41, 45, 40
Dandelion	11, 14-23, 25, 36, 37, 38-42, 59, 60	oliepaluspulse	5, 4, 9, 7, 9, 11, 14-10, 20-22, 29, 20, 37-41, 49, 49,
English daisy	15-17, 19, 21, 25, 39-41, 60	Sorrel	15-22, 25, 36, 37, 39-41, 55, 60
Evening primroses	8, 15, 17, 25, 36, <b>36, 53</b> 14, 15, 38, 40	Speedwell	2, 8, 11, 15-24, 28, 37, 39-42, 45, 50, 53, 54, 58 2 4 5 15-25 28, 37, 45 45 49 50 53 54 59 60
Ground ivy	14-23, 25, 39-42, 59, 60	Spurweed	2, 23, 39-41, 45, 58, 60
Groundsel	4, 9, 11, 16, 37, 49, 58	Stinkweed	14, 15, 38
Hairy bittercress	28, 36, 37, 49 14-22, 39-41	Thistle Valvatlaaf	2, 7, 8, 9, 11, 14-18, 20, 25, <b>37</b> -42, 59, 60 2 <b>4</b> 7-9 11 14 18 25, <b>37</b> 39 40 <b>49 53</b>
Henbit	2, 4, 6, 11, 14-18, 20-23, 25, 28, 36, 37, 39-42, 45, 49,	Veronica	15, 37, 39-41
	53, 54, 58, 60	Vetch	2, 14, 15, 17, 23, 25, 38, 40, 41, 59, 60
Knotweed	2, /-9, 14-18, 25, 37-41 2, 4, 9, 11, 14-23, 25, 37-42, 45, 49, 53, 54	Violet Virginia buttonweed	11, 15, 17, 23, 36, 40, 41, 59, 60 2. 36. <b>50</b>
Kudzu		Wild aster	14-17, 22, 37, 39-41
Lambsquarters	2, 6-9 11, 14-25, 37-42, 49, 50, 53, 54, 58, 59, 60	Wild buckwheat	2, 7-9, 14, 15, 25, 60
Lawn burweed	16, 36, 53, 58	Wild carrot	<b>4</b> , 11, 14-18, 20-23, 25, <b>37</b> -41, 59, 60
Lespedeza	15, 16, 18, 20, 23, 28, 39, 41, 59, 60	Wild garlic	11, 14-23, 25, 36, 39-41
Mallows	4, 11, 14-23, 25, 37, 39-41, 49, 60 2 4 7-9 11 14-18 23 25 37-41 45 49 55 60	Viid onion Yarrow	11, 14, 16-22, 25, 36, 39-41 11, 15-23, 25, 39-42
Nettles	14, 15, 18, 25, 37-40, 50	Yellow woodsorrel	2, 4, 5, 15-23, 25, 28, 29, 37, 39-41, 46, 49, 50, 53, 54,
			58, 60

GRASSY WEEDS CONTROL OPTIONS	GRASSY WEEDS CO	CONTROL OPTIONS
Annual bluegrass 2, <b>2-6</b> , <b>24</b> , 27, <b>28</b> , <b>30</b> , 36, <b>37</b> , <b>44</b> ,	45, <b>48</b> , <b>49</b> , <b>50</b> , <b>53-55</b> , Fall panicum	4, 6, 24, 31, 32, 49, 50, 53, 54, 56, 58 5 4 7 74 79 20 34 37 37 46 40 50 53 54 56 57 58
Annual ryegrass 4, 6, 11, 49, 56 Bahiarrase 20, 46, 56	grass	1, <b>3-6</b> , 12, 22, 24, 26, 28, 31, 32, <b>37</b> , 45, 46, <b>48</b> , <b>49</b> , 50, <b>51</b> , 53, 53, 54, 56, 57, 58, 56, 57, 58, 56, 57, 58, 56, 57, 58, 56, 57, 58, 58, 58, 58, 58, 58, 58, 58, 58, 58
ass ass	Johnsongrass Nutsedae	<b>4, 24</b> , 31, 32, <b>49, 53, 54</b> , 56 7. 8. 12, 22, 29, <b>30</b> , 35, 38, 40, <b>44</b> , 46
	ass ryegrass	55, 56 11, 36, <b>36</b> , 55
ass 46 1, <b>2-6</b> , 12	37, 44, 46, 48-51, 53, Tall fescue	32, 55, 56 11, 36, <b>36</b> , 56
54, 56, 57, 58 Dallisgrass 12, 22, 29, 46	Wild oats 2,	31, 32, <b>33, 34</b> , 56 2, 4, 49, 56
KEY TO CONTROL PRODUCTS	Weed Killer, Three-Way Selective, Brush-Cut,	Ester II, Turf Weeder)
(Restricted Use Pesticides in <b>boldface</b> )	Brush Whacker, Granular Broadleaf Weed Killer, HS-130 MecAmine D SNS-2000 Strike 3	41 = MCPA + triclopyr + dicamba (Cool Power, Horsepower)
1 = asulam (Asulox) 2 = atrazine (Atrazine)		42 = mecoprop/MCPP (Certi-CM, Chemweed 265,
3 = benefin (Balan)	21 = 2,4-D + MCPP + dichlorprop (Broadleaf Granular Horbioide Three Wey Ester Discolve Triamine	HS-167, Milpro 360, MCPP-4 Amine, MCPP-4K,
4 = benefin + oryzalin (XL)	Jet-Spray 3-Way Weed Control)	43 = methyl bromide (Brom-O-Gas, Terr-O-Gas, MB-
6 = bensulide (Bensumec, Pre-San, Betasan,	11	98, MBC)
Weedgrass Preventer)	23 = 2,4-D + tricniopyr (basamid, 1urrion II Amine) 24 = DCPA (Dacthal, Super Dacthal 686, Turf &	44 = metolachior (Pennant) 45 = metribuzin (Sencor 75)
<ul> <li>/ = Dentazon (basagran, Lescogran, Nutgrass Nihilator)</li> </ul>		46 = MSMA (MSMA, Crabgrass Killer, Daconate,
8 = bentazon + atrazine (Prompt)	Herbicide) 25 - dicamba (Vanciuish K-O-G Weed Control)	VIEXAR 530, SUMMER CRADICIDE, SUPER CRADGRASS Killer Weed Hoe 120 Herhicide 912 Herhicide)
9 = bromoxynil (Buctril)	1 11	47 = MSMA + cacodylic acid (Broadside, Monside)
10 = cacooylic acid (monitar) 11 = chlorsulfuron (TFC)	11	48 = napropamide (Ornamental Herbicide 5G)
12 = calcium acid methanearsonate (CGK-89, HS-	210) 28 = dithiopyr (Dimension)	49 = oryzalin (surrian, weed stopper) 50 = oxadiazon (Ronstar)
140) 13 = number not used		51 = oxadiazon + bensulide (Goosegrass/Crabgrass
14 = 2,4-D (Dymec, Weedone LV4)	30 = ethotumesate (Prograss) 31 - fenovanno (Acclaim Extra)	Control) 53 = nendamethalin (Pendulum Pre-M Turf
15 = 2,4-D + chlorpyralid + dlcamba (Millennium Ultra) 16 = 2,4-D + dicamba (Four Power Plus, 1 awn Weed	1 11	
Killer, Triple D Lawn Weed Killer, 81 Selective	33 = glufosinate-ammonium (Finale) 34 = n/whosate /Hoedown_Onick Claim_Trailblazer	Weedgrass Control) 54 = prodiamine (Barricade)
Weedkiller) 17 = 2.4-D + dichlorprop (Fluid Broadleaf Weed	Ň	55 = pronamide (Kerb)
Control, Weedone DPC Ester, Weedone Amine)	35 = halosulfuron (Manage) 36 = imazaguin (Image)	56 = sethoxydim (Grass Getter, Vantage) 57 = siduron (Craborass Control. Craborass Preventer
18 = 2,4-U + dichlorprop + dicamba (Super Trimec, Brushmaster)	37 = isoxaben (Gallery)	and Weed Killer, Tupersan, Super Tupersan)
19 = 2,4-D + MCPP (2D Amine + 2 MCPP, 2 Plus 2,	38 = MCPA (MCPA-4 Amine) 39 = MCPA + MCPP + dicamba (Trimec Encore, Hat	58 = simazine (Princep, Simazine, Sim-Trol, Wynstar) 59 = triclopyr (Turflon Ester)
20 = 2,4-D + MCPP + dicamba (Bentgrass Selective	Trick, Tri-Power) 40 = MCPA + MCPP + dichlorprop (Triamine II, Tri-	60 = triclopyr + clopyralid (Confront)





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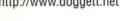


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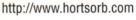
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