“Nutriculture® maintains my course and my reputation.”

Forget that it's one of the toughest courses in the country or that many of the top players in the sport swing here in major tournaments — what you first notice about Crooked Stick is the turf.

The greens, the tees, the fairways...they're all green, full and rich — an appearance you would not have recognized here just a season before. "Last season, Crooked Stick underwent major construction," says Dave Riedman. "We added 16 greens, major bunker and depression work, new tees...everything. This season I told my distributor what I needed, what I wanted to do and what material I wanted to use. He recommended Plant Marvel's Nutriculture."

As superintendent of Crooked Stick Golf Course, Dave relies on Nutriculture's balanced and total nutrient feed plus its ability to tank mix with fungicides, herbicides and insecticides.

"Nutriculture is great to apply because spoon-feeding is all we do. It goes right where I want it and not outside the greens or in the lakes. Nutriculture makes fertilizing a whole lot easier and a whole lot quicker."

With Plant Marvel's 100% water soluble Nutriculture, you'll readily see deep color, swift green-up plus you get the control you need. To learn more about incorporating Nutriculture into your fertilizing program, contact your Plant Marvel distributor or write to us for our free professional guide to improved turf and our pamphlet on Spoon-feeding with Nutriculture.

Plant Marvel Laboratories, Incorporated, 317 East 16th Street, Chicago Heights, IL 60411, Telephone (312) 757-7500.

Nutriculture...The First Name In Water Soluble Fertilizer
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>City, State, Zip</th>
<th>Phone</th>
<th>Additional Information</th>
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<tbody>
<tr>
<td>Snapper Power Equipment</td>
<td>535 Macon Rd, McDonough GA 30253</td>
<td>McDonough, GA 30253</td>
<td>404-957-9141</td>
<td></td>
</tr>
<tr>
<td>Snowco Inc</td>
<td>4350 McKinley St, PO Box 12067, Omaha NE 68112</td>
<td>Omaha, NE 68112</td>
<td>402-453-2200</td>
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<tr>
<td>Solo Inc</td>
<td>5100 Chestnut Ave, Newport News VA 23605</td>
<td>Newport News, VA 23605</td>
<td>804-245-4228</td>
<td></td>
</tr>
<tr>
<td>Southern Mill Creek Products Co</td>
<td>5414 N 56 St, Tampa FL 33610</td>
<td>Tampa, FL 33610</td>
<td>813-626-2111</td>
<td></td>
</tr>
<tr>
<td>Spraying Devices Inc</td>
<td>PO Box 3107, Visalia CA 93278</td>
<td>Visalia, CA 93278</td>
<td>209-651-1306</td>
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<tr>
<td>Standard Golf Co</td>
<td>220 E Fourth St, PO Box 68, Cedar Falls IA 50613</td>
<td>Cedar Falls, IA 50613</td>
<td>319-266-2638</td>
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<tr>
<td>Stanley Hydraulic Tools</td>
<td>3810 SE Naef Rd, Milwaukie OR 97267</td>
<td>Milwaukie, OR 97267</td>
<td>503-659-5660</td>
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<tr>
<td>Sta-Rite Industries Inc</td>
<td>725 Ann St, Delavan WI 53115</td>
<td>Delavan, WI 53115</td>
<td>414-728-5551</td>
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<tr>
<td>Steiner Corp</td>
<td>930 Penn Ave, PO Box 85, Orrville OH 44667</td>
<td>Orrville, OH 44667</td>
<td>216-683-0055</td>
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<tr>
<td>Strong Enterprises Inc</td>
<td>14090 SW 144 Ave Rd, Miami FL 33186</td>
<td>Miami, FL 33186</td>
<td>305-235-0967</td>
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<tr>
<td>Sumitomo Corp of America</td>
<td>Machinery Dept, 345 Park Ave, New York NY 10154</td>
<td>New York, NY 10154</td>
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<tr>
<td>Supreme Corp</td>
<td>16500 CR 38, PO Box 463, Goshen IN 46526</td>
<td>Goshen, IN 46526</td>
<td>219-642-4888</td>
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<tr>
<td>Tanaka USA</td>
<td>22121 Crystal Creek Blvd SE, Bothell WA 98021</td>
<td>Bothell, WA 98021</td>
<td>206-481-2000</td>
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<tr>
<td>Taylor-Dunn</td>
<td>2114 W Ball Rd</td>
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<td></td>
<td></td>
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<tr>
<td>Anaheim CA 92804</td>
<td>714-956-4040</td>
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<tr>
<td>Tecumseh Products Co</td>
<td>900 North St, Grafton WI 53024</td>
<td>Grafton, WI 53024</td>
<td>414-377-2700</td>
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<tr>
<td>Teledyne Total Power</td>
<td>3409 Democrat Rd, Memphis TN 38118</td>
<td>Memphis, TN 38118</td>
<td>901-365-3600</td>
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<tr>
<td>Tennant Co</td>
<td>1111 Douglas Dr, PO Box 701, Minneapolis MN 55440</td>
<td>Minneapolis, MN 55440</td>
<td>612-540-1229</td>
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<tr>
<td>Terracare Products Co</td>
<td>Hwy 22 &amp; 33, Pardeeville WI 53954</td>
<td>Pardeeville, WI 53954</td>
<td>608-429-3402</td>
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<tr>
<td>Terrain Vehicles Inc</td>
<td>221 Mitchell Court, PO Box 418, Addison IL 60101</td>
<td>Addison, IL 60101</td>
<td>312-953-8747</td>
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</tr>
<tr>
<td>Toro Co</td>
<td>8111 Lyndale Ave S, Bloomington MN 55420</td>
<td>Bloomington, MN 55420</td>
<td>612-887-8805</td>
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<tr>
<td>Toro Co Irrigation Div</td>
<td>5825 Jasmine St, Riverside CA 92504</td>
<td>Riverside, CA 92504</td>
<td>714-688-9221</td>
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<tr>
<td>Trebor Corp</td>
<td>4045-A Jonesboro Rd, Forest Park GA 30050</td>
<td>Forest Park, GA 30050</td>
<td>404-366-0957</td>
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<tr>
<td>Trojan Battery Co</td>
<td>12380 Clark St, Santa Fe Springs CA 90670</td>
<td>Santa Fe Springs, CA 90670</td>
<td>213-946-8381</td>
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<tr>
<td>Tuflex Mfg Co</td>
<td>1406 SW Eighth St, Pompano Beach FL 33060</td>
<td>Pompano Beach, FL 33060</td>
<td>305-758-6402</td>
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<tr>
<td>Turfco Mfg Inc</td>
<td>3456 N Washington Ave, Minneapolis MN 55412</td>
<td>Minneapolis, MN 55412</td>
<td>612-595-0741</td>
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<tr>
<td>Turf Vac Corp</td>
<td>15701 Graham St</td>
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<td></td>
<td></td>
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<tr>
<td>Huntington Beach CA 92649</td>
<td>714-898-9382</td>
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<tr>
<td>Vermeer Mfg Co</td>
<td>New Sharon Rd, Box 200, Pella IA 50219</td>
<td>Pella, IA 50219</td>
<td>515-628-3141</td>
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<tr>
<td>Vicon Farm Machinery Inc</td>
<td>3741 Cook Blvd, PO Box 6313, Chesapeake VA 23323</td>
<td>Chesapeake, VA 23323</td>
<td>804-485-1600</td>
<td></td>
</tr>
<tr>
<td>Vrisimo Mfg Co</td>
<td>PO Box 699, Cores CA 95307</td>
<td>Cores, CA 95307</td>
<td>209-537-5746</td>
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<tr>
<td>Waldon Inc</td>
<td>201 W Oklahoma, Fairview OK 73737</td>
<td>Fairview, OK 73737</td>
<td>405-227-3711</td>
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<tr>
<td>Warren's Turf Nursery Inc</td>
<td>Cordelia &amp; Chadbourn Rd, PO Box 459, Suisun City CA 94585</td>
<td>Suisun City, CA 94585</td>
<td>707-422-5100</td>
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<tr>
<td>Weathermatic</td>
<td>3301 W Kingsley Rd, Garland TX 75041-2207</td>
<td>Garland, TX 75041-2207</td>
<td>214-278-6131</td>
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</tr>
<tr>
<td>Westendorf Mfg Co</td>
<td>Hwy 175, PO Box 29, Onawa IA 51040</td>
<td>Onawa, IA 51040</td>
<td>712-423-2762</td>
<td></td>
</tr>
<tr>
<td>Western Wood Structures Inc</td>
<td>PO Box 130, Tualatin OR 97062-0130</td>
<td>Tualatin, OR 97062-0130</td>
<td>503-692-6900</td>
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<tr>
<td>Westheffer Co</td>
<td>1235 N Third St, Lawrence KS 66044</td>
<td>Lawrence, KS 66044</td>
<td>913-843-1633</td>
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<tr>
<td>Wheel Horse Products Inc</td>
<td>515 W Ireland Rd, South Bend IN 46614</td>
<td>South Bend, IN 46614</td>
<td>219-291-3112</td>
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<tr>
<td>Wheel Spray Corp</td>
<td>PO Box 97, Delafield WI 53018</td>
<td>Delafield, WI 53018</td>
<td>414-646-8640</td>
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<tr>
<td>Wilbur-Ellis Co dba Rigo Co</td>
<td>See Rigo Co</td>
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<tr>
<td>Winco/Energx Corp</td>
<td>245 E Sixth St, St Paul MN 55101-1988</td>
<td>St Paul, MN 55101-1988</td>
<td>612-293-0740</td>
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<tr>
<td>* Advertiser. See Advertiser's Index</td>
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</tbody>
</table>
Melanie Reinhold Sawka with Excel Hustler Model 400

Smart Investment

"No question about it, the switch to Excel Hustler has been a very positive move."


And, what brand of turf equipment does she buy and use? "We have used Excel Hustler products exclusively for the past three years, and we are very pleased," says Melanie. "We currently operate 12 Hustler units in our two locations; a combination of Model 295s and the new Model 400s with the big Ford engines...Hustler offers us great dependability and maneuverability."

That's the Hustler story of "Productive Innovation", made possible by Hustler's dual-hydrostatic drive concept with twin-lever steering and true zero-degree turning radius. You can even mow square corners without wasted motion.

"The Hi-Lift" BAC-VAC™ which we use on the Model 400s is just excellent," Melanie points out. "It's especially great for spring and fall cleanup jobs."

What about other mower brands? "We tried the others in the past, but now we use Hustler exclusively," says Melanie. "I have no reason to try anything else again, the mechanics are happy, the operators are happy, so why change!"

Why not visit your dealer soon and put a Hustler to work for you. Or, call toll free for more information.

1-800-835-3260
In Kansas 1-316-327-4911

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Excel Industries, Inc.
Box 7000
Hesston, KS 67062-2097

Hustler Tough
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Equipment Companies
continued

Telex: 29-0740 ENERGY STP
Fax: 612-292-0851

Woods Div Hesston Corp
Hwy 2 S
PO Box 1000
Oregon IL 61061
815-732-2141

Woodstream Corp
69 N Locust St
Lititz PA 17543
717-626-2125

Yamaha
6555 Katella Ave
Cypress CA 90630
714-761-7304
800-447-4700

Yard Vac Products Inc
3849 E Ventura
Fresno CA 93702
209-251-7125

Yazoo Mfg Co
3650 Bay St
Jackson MS 39216
601-366-6421

3. Chemicals
This section is broken down by chemical product with companies providing that chemical listed below.
Products common name (in parentheses) and brand names are listed on the line following the company name.

Absorbefacient (Aquatic)
Aquashade Inc
(dyes) Aquashade
Nalco Chemical Co
Nalco 2151, Nalquatic, Nalco-Trol, Nalco-Trol II, Sta-Put

Adjuvant/Carrier
Arborchem Products Co
(Proprietary) Basal Oil, Clean Cut Plus, Pine, Clean Cut, Clean Cut Plus Citrus

Bactericide
J J Maugot Co
(Streptomycin) Inject-A-Mycin “S”

Chevron Chemical Co
(Alkylarylpolyoxyethylene, glycols, free fatty acids, isopropanol) Ortho X-77

W A Cleary Chemical Co
Super Wet, Super Wet 15G
Cumberland Intl Corp
Ag-Chem Activator
Fermenta Plant Protection Co
(Fatty amine ethoxylate) Frigate
Fermone Chemicals Inc
(Protein feeding stimulant) Entice
Leffingwell
(Non-ionic surfactants) Activate, Super Savol; (NPK, secondary & micronutrients) Sorba-Spray; Sorbacide

LESCO Inc
LESCO Spreader Sticker, LESCO-WET
Nature’s Touch
(Plant/microbial by-products, enzymes) Nutra-Aid
PBI-Gordon Corp
(Petroleum oil-paraffin base, surfactant blend) Adjumer
Precision Laboratories Inc
Compliment, Balance, Pen-A-Trate, Chem-Stik
Rigo Co
(Paraffin base petroleum oil, polyol fatty acid esters) Red-Top Mor-Act
Southern Mill Creek Products Co
(Polyvinyl polymer) Nalco-Trol
UAP Special Products Inc
Activator 90

Algaecide
Applied Biochemists Inc
(Copper-Ethanolamine Complex) Cutrine-Plus, Cutrine-Plus Granular, Swintrine-Plus
Ciba Geigy Corp
(Simazine) Aquazine
Great Lakes Biochemical Co
(Cheated Copper) Alginmycin PhL-C; (tabletied Cheated Copper) Slow Release Alginmycin PhL-C
LESCO Inc
(Elemental copper) Lescocide-Plus

Antitranspirant
Aquatrols Corp of America Inc
(Wax emulsion) Folicate
W A Cleary Chemical Co
Clearspray
Jonathan Green Inc
(Wax emulsion concentrate) Folicate
Green Pro Services
(Anidesicant) Vita Coat
International Reeforestation Suppliers
Wilt Pruf, Folicoate
Nature’s Touch
(Anidesicant) Leaf Cote Clear
PBI-Gordon Corp
(Polyethylenes/Polyterpines) Transfilm
Precision Laboratories Inc
Preserve
Wilt-Pruf Products Inc
Wilt-Pruf

Colorant
Arborchem Products Co
(Proprietary) Bullseye
W A Cleary Chemical Co
Greenzit, Super Greenzit, Super Greenzit C
Jonathan Green Inc
(blue dye) Dyon; (green pigment) Greenzit
LESCO Inc
(Blue indicator dye) LESCO Tracker
Mallinckrodt Inc
Turf Colorant, Auragreen, Vitalon

Defoamer
Applied Biochemists Inc
(Silicone emulsion) Foamtrine
Arborchem Products Co
(Dimethylisiloxane) Arborchem
W A Cleary Chemical Co
(Dimethylisiloxane) Cleary’s Finn Corp
Foam Chek
Great Lakes Biochemical Co
(Silicone emulsion) Foam Out
Jonathan Green Inc
(Silicone) LESCO Defoamer
Moyer Chemical Co
Anti-Foam, Foam Fighter
Precision Laboratories Inc
Knockdown, Control
Rigo Co
(Silicone) Red-Top No-Foam

Drift Retardant
Arborchem Products Co
(Acrylic Polymer) Arborchem 38-F
Jonathan Green Inc
(Polymer) Exhalt 800
Nalco Chemical Co
Nalco-Trol, Nalco-Trol II, Nalquatic
Nature’s Touch
(Polyvinyl polymer) Sta-Put
Nepera Inc
(Polyacrylates) Vitorra 800
Southern Mill Creek Products Co
(Polyvinyl polymer) Nalco-Trol; (Polyacrylamide copolymer) Nalco-Trol II

Fertilizer, Tree
Creative Sales Inc
(Iron) Medicap FE; (Manganese) Medicap MN; (Zinc) Medicap ZN; (N-P-K, Fe, Mn & Zn) Medicap MD
Doggett Corp
(NPK slow release) XL-Injecto Feed, Evergreen Special, Root Pusher
Estech Branded Fertilizers
(Isobutylidene Diurea) Woodace
Jonathan Green Inc
16-32-16
Green Pro Services
(NPK, Humus, Micronutrients) Vita Tree & Shrub

* Advertiser. See Advertiser's Index
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Louisville, KY 40202
1-800-654-0349 or
502/582-1672

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Circle No. 130 on Reader Inquiry Card

SEPTEMBER 1987/LANDSCAPE MANAGEMENT 75
Continued...:

Hawkeye Chemical Co
Formolene
LaRoche Industries Inc
(NPK) Vertagreen
Lebanon Chemical Corp
Lebanon, Turfmaster
Leffingwell
Vitatone Stabilized, Vitatone Sorba-Spray, Nutra-Phos, Nutra-Spray
LESCO Inc
LESCO 16-10-9 Tree Stakes, LESCO 8-10-10 "Hi" Trace Element Tree Stakes, LESCO Arbor Green
J J Mauget Co
(Chelated Ag Minerals & NPK) Stemix; (Sulfates & Nitrates) Inject-A-Min Fe-Zn, Inject-A-Min Mn
MCI AgSystems
(Triamino-triazine) Nitrazine 66N
Moyer & Son Inc
(Nitrogen, Phosphorus, Potash, Micronutrients) Rootflo, Arborflo
Moyer Chemical Co
Superblend 20-9-9, Container Spec 21-7-7
Nature's Touch
(Primary, secondary micronutrients) Strengthen & Renew, Green Magic; (Organic micronutrients, plant/microbial by-products, enzymes) Vita Feed, Relief
NOR-AM Chemical Co
(Ureaform) Nitroform
PBI-Gordon Corp
(Liquid-Iron & Sulphur, Urea) Ferrimec (Precessed cow slurry) Bov-a-Mura
Plant Marvel Laboratories Inc
(Bent special 28-8-18, Bermuda special 25-5-20) Plant Marvel Nutriculture Formula
Rhone Poulenc-Chipco Group
(Micronutrients) Microgreen
Ringer Corp
(Organics & microorganisms) Tree Booster
Sierra Chemical Co
Agriform
Fertilizer, Turf
J & L Adikes Inc
(Urea-Form, Sulfur Coated Urea) Gro-Well
Andersons Lawn Fertilizer Div
(Team, Balan, Dacthal) Tee Time, Custom Mix
Arcadian Corp
(Triazine Nitrogen) N-Sure
WA Cleary Chemical Co
(Ureaform type) Fluf 18-0-0, Fluf 16-2-4, Fluf 10-0-10
Doggett Corp
(NPK quick release) Turf Special 28-7-14; (NPK slow release) Slow Release Turf Special 34-4-7
Estech Branched Fertilizers
(Isobutyldene Diurea) Par Ex Garfield Williamson Inc
(SCU, UF, natural organic) Proform Jonathan Green Inc
25-5-5, 25-5-15, 19-4-4, 29-3-5, 27-3-7, 20-4-4, 32-5-7, 10-25-25, 38-0-0
Green Pro Services
(NPK) Vita Grow; (Secondary & Micronutrients) Vita Green

Growth Products
18-2-8
Hawkeye Chemical Co
Formolene
LaRoche Industries Inc
(Diazinon, Dursban, Team, Balan, Ronstar, Trimene, NPK) Vertagreen
Lebanon Chemical Corp
Lebanon, Country Club, Greenskeeper, Lebanon Pro, Lebanon Custom, Green Gold, Turfmaster
Leffingwell
Vitatone Stabilized, Vitatone Sorba-Spray
LESCO Inc
(Multiple types and blends) LESCO
MCI AgSystems
(Triamino-triazine) Nitrazine 66N Milwaukee Metropolitan Sewerage District
(6-2-0 Natural Organic) Milorganite
Moyer & Son Inc
(Nitrogen, Phosphorus, Potash, Micronutrients) Turflo; Profit Blend
Moyer Chemical Co
Garden 16-6-8, Superblend 20-9-9
Nature’s Touch
(Primary, secondary micronutrients) Strength & Renew, Green Magic; (Organic micronutrients, plant/microbial by-products, enzymes) Vita Feed, Relief
NOR-AM Chemical Co
(Ureaform) Nitroform
O M Scott & Sons Co
(Methylene Urea Nitrogen, SREF Nitrogen, SREF Blend) ProTurf
Sierra Chemical Co
Agriform, Osmocote Southern Mill Creek Products Co
(20-5-20 w/minors) Plant Marvel Nutriculture Formula
UAP Special Products Inc
UAP Turf
Warren’s Turf Nursery Inc
(SCU, IBDU, Dicamba, MCP) Warren’s Turf Professionals

Fungicide, Tree
Ciba Geigy Corp
(Liquid-Iron & Sulphur, Urea) Ferrimec (Precessed cow slurry) Bov-a-Mura
Plant Marvel Laboratories Inc
(Bent special 28-8-18, Bermuda special 25-5-20) Plant Marvel Nutriculture Formula
Rhone Poulenc-Chipco Group
(Micronutrients) Microgreen
Ringer Corp
(Organics & microorganisms) Turf Restore
O M Scott & Sons Co
(Methylene Urea Nitrogen, SREF Nitrogen, SREF Blend) ProTurf
Sierra Chemical Co
Agriform, Osmocote Southern Mill Creek Products Co
(20-5-20 w/minors) Plant Marvel Nutriculture Formula
UAP Special Products Inc
UAP Turf
Warren’s Turf Nursery Inc
(SCU, IBDU, Dicamba, MCP) Warren’s Turf Professionals

Without Wilt-Pruf
Against drought, windburn, air pollution, salt spray damage and transplant shock. Plus it’s biodegradable and organic. It’s the perfect remedy for the winter. Or any season. Protects against moisture loss year round.

Circle No. 169 on Reader Inquiry Card

With Wilt-Pruf
P.O. Box 4280, Greenwich, CT 06830-0280. 203/531-4740

®

®

®
## Nourish Your Turf With NITROFORM®

Nourishing your turf with NITROFORM® assures better root development and healthier turf by providing six important benefits.

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>Consistent 38% nitrogen.</td>
</tr>
<tr>
<td>2</td>
<td>Sustained, predictable release by soil bacteria to provide nitrogen when needed most by roots and vegetative parts.</td>
</tr>
<tr>
<td>3</td>
<td>Provides organic nitrogen and carbon to enhance bacterial activity, even in sandy soils.</td>
</tr>
<tr>
<td>4</td>
<td>Non-burning to turf, trees, or ornamentals when used as directed.</td>
</tr>
<tr>
<td>5</td>
<td>Environmentally sound... resists leaching, even in porous soils.</td>
</tr>
<tr>
<td>6</td>
<td>Fewer applications a year are required.</td>
</tr>
</tbody>
</table>

For a complete information kit on nourishing and protecting your turf, join the NOR-AM Turf Management Program. Write to the Communications Department, NOR-AM Chemical Company, 3509 Silverside Road, P.O. Box 7495, Wilmington, DE 19803.

NITROFORM® is available as BLUE CHIP® or GRAY CHIP™ for dry application, or as POWDER BLUE® or POWDER GRAY™ for liquid application.

---

**NOR-AM CHEMICAL COMPANY**
3509 Silverside Road, P.O. Box 7495
Wilmington, DE 19803

**IMPORTANT:** Please remember always to read and follow carefully all label directions when applying any chemical.
Fungicide, Turf

J & L Adikes Inc
(Dyrene, Benomyl) Gro-Well
Ciba Geigy Corp
(Meta-Laxyl) Subdue
W A Cleary Chemical Co
(Cadmium Chloride) Caddy; (PMAS) PMAS 10%; (Thiram) Spotrete 75WDG;
(Thiophanate methyl) 3336-WP, 3336-F
Elanco Products Co
(Flurprimidole) Cutless

Growth Regulator

Arborchem Products Co
(Paclobutrazol) Clipper; (NAA, ethyl ester) Sprout Gard; (Metsulfuron Methyl) Escort;
(Chlorsulfuron) Telar
Chevron Chemical Co
(Uniconozole) Ortho Prunit
Elanco Products Co

Herbicides, Aquatic

Applied Biochemists Inc
(Diquat Dibromide) Weedtrine-D; (2,4-D Ester granular) Weedtrine II
Chevron Chemical Co
(Diquat Dibromide) Diquat Herbicide-H/A
Elanco Products Co
(Fluridone) Sonar
Jonathan Green Inc
(Diquat) Diquat; (dye) Aqua-Shade
Monsanto Co
(Glyphosate, Isopropylamine Salt Of) Rodeo
Riverdale Chemical Co
(2,4-D) 2,4-D Granules, Weedestroy AM-40
Southern Mill Creek Products Co
(2,4-D Amine)

Herbicides, Nonselective

J & L Adikes Inc
(Pramitol & 2,4-D) Gro-Well
American Cyanamid Agricultural Div
Arsenal
Arborchem Products Co
(Glyphosate) Roundup; (Bromacil) Clearway;
(Bromacil/Diuron) Arbonharm Four Plus Four; (Diuron) Arbonharm Four Percent Diuron
Chevron Chemical Co
(Diquat Dibromide) Diquat Herbicide-H/A
Elanco Products Co
(Tebuthiuron) Spike

Herbicides, Postemergence

J & L Adikes Inc
(Trimec, AMA, DSMA, 2,4-D) Gro-Well
Andersons Lawn Fertilizer Div
Chlorflurenol) Break-Thru
Arborchem Products Co
(Triclopyr) Garlon 4, Garlon 3A; (Picloram) Tordon 101; Arsenal
BASF Corp Chemicals Div
(Diquat) Diquat; (dye) Aqua-Shade

Impact of Climate Change on Agriculture: A Global Overview

The impact of climate change on agriculture is multifaceted and depends on various factors such as geographical location, crop type, and farming practices. Changes in temperature and precipitation patterns can affect crop yields, disease incidence, pest pressure, and soil fertility. For instance, increased temperatures can lead to earlier planting dates and a shorter growing season, potentially reducing yields. Additionally, warmer temperatures can also increase the rate of nutrient mineralization, which can affect the balance of nutrients in the soil, leading to nutrient imbalances.

Changes in precipitation patterns, on the other hand, can lead to drought conditions or excessive moisture, both of which can negatively impact crop growth and yield. For example, drought stress can reduce stomatal conductance, limiting water uptake and photosynthesis, while excessive moisture can lead to disease development and reduce crop yields due to increased fungal and bacterial infection.

Moreover, climate change can also affect the distribution and activity of pests and diseases, which can further exacerbate yield losses. For instance, warming temperatures can allow pests and diseases to expand their ranges into new areas, where they may previously have been absent, leading to increased pest pressure and disease incidence.

To address these challenges, farmers and agricultural practitioners are implementing various adaptation strategies, including the selection of crop varieties with improved heat and drought tolerance, the adoption of precision agriculture techniques to optimize resource use, and the implementation of integrated pest and disease management practices to reduce the impact of pests and diseases.

In conclusion, the impact of climate change on agriculture is complex and requires a multifaceted approach to adaptation. While it presents significant challenges, it also offers opportunities for innovative and sustainable agricultural practices that can help mitigate the impacts of climate change and ensure food security for future generations.

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Mobay Corp
Bayleton 25 Turf & Ornamental Fungicide
Rhone Poulenc-Chipco Group (Iprodione) Chipco 26019

Gustafson Inc
Elanco Products Co
(Mobay) Chipco 26019

LESCO Inc
(Mobay) Tersan 1991 DF; (Mancozeb) Tersan LSR

Ringer Corp
(Bacterial type) Turf Restore

Safer Inc

O M Scott & Sons Co
(Triadimefon; PMA & Thiram; PCNB;
Thiophanate methyl & Iprodione;
Chloroneb; Thiophanate-methyl;
Iprodione; Metalaxyl; Thiophanate-

methyl & Iprodione; Triadimefon & Metalaxyl) ProTurf
Southern Mill Creek Products Co
(Captan, Terrachlor, Thiram) TTC;
(Thiram) 75
UAP Special Products Inc
(PCNB) UAP PCNB

Jonathan Green Inc
(Glyphosate) Round-up; (Tebuthiuron) Spike 5%G
LESCO Inc
(Sodium metaborate tetrahydrate, sodium chlorate, bromacil) Lescobar
Monsanto Co
(Glyphosate, Isopropylamine Salt Of) Roundup
PBI-Gordon Corp
(Dichlobenil) Nordas 10-G, Barrier 50-W;
(Prometon) 2,4-D, Vegemec
Riverdale Chemical Co
(Sodium Chlorate) Killssal; (Bromacil & Diuron) Granular Vegetation Killer

Herbicides, Postemergence

J & L Adikes Inc
(Trimec, AMA, DSMA, 2,4-D) Gro-Well
Andersons Lawn Fertilizer Div
Chlorflurenol) Break-Thru
Arborchem Products Co
(Triclopyr) Garlon 4, Garlon 3A; (Picloram) Tordon 101; Arsenal
BASF Corp Chemicals Div
(Diquat) Diquat; (dye) Aqua-Shade

Landscape Management, September 1987
NOW, THE FIRST NAME IN FUNGICIDES IS THE LAST WORD IN CONVENIENCE.

INTRODUCING NEW CHIPCO® 26019 FLO.

Thousands of golf course superintendents have discovered one important fact. You just can't beat Chipco 26019 fungicide for controlling turf diseases. And now you can get all the advantages of Chipco 26019 wettable powder in a convenient flowable formulation. New Chipco 26019 FLO.

Like the wettable powder, new Chipco 26019 FLO offers unsurpassed protection against major turf diseases, including Helminthosporium Leaf Spot and Melting Out, Dollar Spot, Brown Patch, Fusarium Blight, Red Thread, Fusarium Patch, plus Gray and Pink Snow Molds.

Chipco 26019 FLO also delivers the same long-lasting residual control. In fact, both Chipco 26019 formulations protect your turf for up to 28 days.

With Chipco 26019, you also get the added benefits of convenience, no phototoxicity, pesticide compatibility, low toxicity and no corrosiveness.

Wettable Powder or new FLO, it's easy to see why Chipco 26019 is the Number 1 name in turf disease control.

Rhone-Poulenc Inc., CHIPCO Department, P.O. Box 125, Monmouth Junction, NJ 08852.

Rhone-Poulenc

CHIPCO® 26019

FUNGICIDE

Please read label carefully and use only as directed. CHIPCO® is a registered trademark of Rhone-Poulenc Inc.
The Advanced System for

**Billy Goat**'s TR Truck Loader System is a complete lawn maintenance system that makes fall leaf cleanup easy. Call us today and find out how your lawn service crew can use these four pieces of equipment to clean up in record time.

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**Herbicides, Preemergence**

<table>
<thead>
<tr>
<th>Company</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nature's Touch</td>
<td>(2,4-D + MCP) D-Weeder 4X</td>
</tr>
<tr>
<td>NOR-AM Chemical Co</td>
<td>(Ethofumesate) Prograss</td>
</tr>
<tr>
<td>PBI-Gordon Corp</td>
<td>(Esters of 2,4-D &amp; 2,4-DP + Dicamba) Trimec; (Dichlobenil) Dyclome 4-G, Norsac 4-G</td>
</tr>
<tr>
<td>Rhone Poulenc-Chipco Group</td>
<td>(2,4-D, MCP) Chipco Turf Kleen; (Bromoxygenil) Chipco Bucrilt; (Asulam) Asulox</td>
</tr>
<tr>
<td>Riverdale Chemical Co</td>
<td>(2,4-D, Mecoprop &amp; Dichlorprop) Weede destroy Trime; (MCPA, Mecoprop &amp; Dichlorprop) Triamin II; (2,4-D) Weede destroy AM-40</td>
</tr>
<tr>
<td>O M Scott &amp; Sons Co</td>
<td>(2,4-D, MCP &amp; Dicamba; Atrazine; Dicamba) ProTurf</td>
</tr>
<tr>
<td>Southern Mill Creek Products Co</td>
<td>(2,4-D Amine)</td>
</tr>
<tr>
<td>UAP Special Products Inc</td>
<td>(2,4-D, dicamba, MCP) Mec-Amine - D, (2,4-D) Four Power Plus</td>
</tr>
<tr>
<td>J &amp; L Adikes Inc</td>
<td>(Tupersan, Balan, Team, Dacthal) Gro-Well</td>
</tr>
<tr>
<td>Arborchem Products Co</td>
<td>(Sulfometuron) Oust; (Diuron &amp; Bromacil) Krovar I; (Oryzlan) Surflan AS; (Pendimethalin) Stomp</td>
</tr>
<tr>
<td>Ciba Geigy Corp</td>
<td>(Metalchlor) Pennant</td>
</tr>
<tr>
<td>Elanco Products Co</td>
<td>(Oryzalin) Surflax; (Isoxaben) Encore; (Benefin) Balan; (Trifluralin) Treflan; (Oryzalin, Benefin) XL; (Benefin, Trifluralin) Team</td>
</tr>
<tr>
<td>Fermenta Plant Protection Co</td>
<td>(DCPA) Dacthal, Dacthal W-75</td>
</tr>
<tr>
<td>Jonathan Green Inc</td>
<td>(Benefin Balan; (Bensulide) Betasan; (Oxadiazon) Ronstar; (Tetrachloroterphthalate) Dacthal; (Dichlobenil) Dyclome; (Oryzalin) Surflan; (Benefin, Trifluralin) Team; (Trifluralin) Treflan</td>
</tr>
<tr>
<td>LaRoche Industries Inc</td>
<td>(Team, Balan, Surflan, Ronstar)</td>
</tr>
<tr>
<td>Lebanon Chemical Corp</td>
<td>(Benefin) Greenskeeper, Country Club, Turfmaster, Green Gold; (Bensulide) Lebanon, Country Club; (DCPA) Beirut, Lebanon, Country Club; (Oxadiazon) Country Club; (Benefin &amp; Trifluralin) Country Club, Green Gold; (Trifluralin) Lebanon, Green Gold; (Sidurion) Greenskeeper, Green Gold</td>
</tr>
<tr>
<td>LESCO Inc</td>
<td>(Pendimethalin) LESCO PRE-M 60DG; (Bensulide) Lescosan 4E, Lescosan 7G; (DCPA) LESCO Dacthal 5G; (Benefin) LESCO 2.5 Benefin; (Napropamide) LESCO Devrinol 5G</td>
</tr>
<tr>
<td>O M Scott &amp; Sons Co</td>
<td>(Pendamethalin; Siduron; Bensulide; Bensulide &amp; Oxadiazon) ProTurf</td>
</tr>
<tr>
<td>UAP Special Products Inc</td>
<td>(Bensulide) Betasan 4E; (DCPA) Dacthal WDG; (Pendimethalin 60 WDG)</td>
</tr>
</tbody>
</table>

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**Insecticides, Tree**

<table>
<thead>
<tr>
<th>Company</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>J &amp; L Adikes Inc</td>
<td>(Sevin, Malathion, Methoxychlor) Gro-Well</td>
</tr>
<tr>
<td>Chevron Chemical Co</td>
<td>(Acephate) Orthene 75S</td>
</tr>
<tr>
<td>Ciba Geigy Corp</td>
<td>(Acephate) Dithion D2Z</td>
</tr>
<tr>
<td>Creative Sales Inc</td>
<td>(Acephate) Acecap 97</td>
</tr>
<tr>
<td>Kincaid Enterprises Inc</td>
<td>(Methoxychlor) KE Marlake 50</td>
</tr>
</tbody>
</table>

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**The suction sweeper is used for sweeping up leaves in outlying areas, away from the truck.**

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**Use the backpack blower to remove debris from shrubs and hard-to-reach areas.**