SOLUBLE BIOSTIMULANT AND POLYACRYLAMIDE TACKIFIER

Specifically for the turfgrass industry, Plant Health Care Inc.

(PHC) offers Flexx Golf & Sports Turf Pre-mix, a dry, soluble biostimulant with beneficial rhizosphere bacteria for fast green-up and strong healthy

turf. Flexx contains organic biostimulants, water-soluble yucca extract (a natural surfactant), beneficial bacteria and a soluble micronutrient package designed specifically for turfgrass. Flexx is used for fast recovery from traffic stress and quick green-up of chlorotic turf. It's a great summer stress treatment. PHC also offers BioPam Tackifier for Hydromulching. Seed establishment is a cinch with this polyacrylamide tackifier plus root biostimulant. BioPam forms a water-absorbing crust that improves water penetration and retention, protects seeds from the sun, and maintains

cool soil temperatures. For fast, even germination, BioPam also contains PHC BioPak, a dry, soluble kelp/humate biostimulant with proprietary nitrogen-fixing and phosphorus-solubilizing bacteria, amino acids, B complex vitamins, sugars and growth factors that stimulate biological processes essential for root growth and development. BioPam costs approximately \$45 per acre and is easy to use, says the company.

800-421-9051 For information, circle 166





NATURAL, LIQUID, ORGANIC

Growth Products' Essential is a 100 percent natural liquid organic soil amendment and biostimulant designed to rejuvenate soil structure, stimulate root and plant growth, and provide a food source for microbial activity, says the company. University testing has demonstrated that it promotes better root growth than products containing IBA. Among Essential's active ingredients are 7 percent humic acid, cellulose fiber, kelp extract, mono/disaccharides, lignin and natural cytokinins. Essential is ideal for both foliar and soil applications. There is no risk of phytotoxicity or the tracking problems associated with granular products.

Many of the world's most renowned sporting facilities use Growth Products' liquids, including Yankee Stadium; Fenway Park; Dodger Stadium; the Orange Bowl in Miami; AFL Stadium in Melbourne, Australia; and Olympic Stadium in Tokyo. Growth Products Ltd. is a manufacturer of a patented biological fungicide, crystal-clear liquid fertilizers, chelated micronutrients and natural organics.

800-648-7626 For information, circle 165





NEW MEMBER SWEEPSTAKES!!

All New Members Joining Between October 1st and December 1, 2001, will be eligible for a drawing for a free registration to the STMA 13th Annual Conference & Exhibition, January 16-20, 2002 in Las Vegas, Nevada

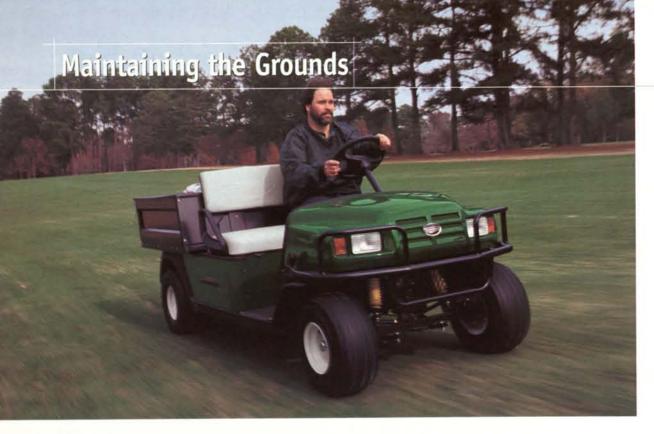
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Lighter on the turf and the Wallet

BY JIM GRIBBLE

ighter is better. That's the new mantra among manufacturers of major equipment for the turf industry. The trend began with mowers and over the past few years has begun to influence vehicle design.

Today's utility vehicles, large and small, are built for a lighter footprint and a softer ride. Those imperatives have led to development of an entirely new category of lightweight work vehicles that borrow engineering from their heavy-duty cousins and handle many of the same chores. They're great for moving people, equipment and small loads of material. Their lower cost per unit appeals particularly to operators purchasing large fleets or expanding existing ones.

All of the major manufacturers have targeted this niche, with several new products hitting the market within the past year. "There's been a shift toward these vehicles because, for what you used to spend per unit on heavy-duty vehicles, you can buy a larger fleet," says Larry Jones, vehicles product manager for Textron Golf, Turf & Specialty Products.

For example, Textron has made improvements to the Jacobsen 1110 Hauler. Like all other Textron, it features two-stage air filtration that uses vortex technology to remove larger particles before they get to the primary air cleaner. "The two-stage system improves engine serviceability and longevity," Jones says.

Feature show

Manufacturers also are striving to improve comfort, convenience and ride to meet end-user needs. Some lightweight vehicles have sprung suspensions and constant-velocity transmissions. Walk-through operator stations allow egress from the right or left. Jones says you can also add an electric bed lift-something that used to be seen only on the larger vehicles.

The thinking that led to lightweight vehicles has driven many of the recent improvements in heavy-duty machines. Among buyers who emphasize long-term value and performance, demand for heavy-duty vehicles remains robust, thanks to a different set of virtues: ease of use, productivity, reliability, and durability. "They're great when you're shorthanded for labor and need to get the absolute most out of a machine," Jones said. "And you generally can count on them lasting many years. Some of our heavy-duty vehicles have been in service for decades and are still on the job."

For increased efficiency and long-term reliability, electronic fuel injection is now standard on most gasoline-powered, heavy-duty vehicles from Cushman. Also standard are automatic transmissions manufactured to automobile-industry standards. In emphasizing automatic over manual-shift models, the company took into account that most American cars are automatics. According to Jones, fewer young people are learning to drive manual-shift cars, and so they need special training to run manual-shift utility vehicles.

Peter Whurr, vice president of product management for Textron Golf and Turf, said the market continues to evolve. "We pay extremely close attention to feedback from end users," Whurr said. "Superintendents and groundskeepers, along with legislation, are driving the evolution in utility vehicle design."

This article was written by Jim Gribble of Nelson Schmidt, Milwaukee.

ULTRA-COMPACT BOBCAT SKID-STEER LOADER

Bobcat Company earlier this year introduced the new Bobcat® 463 ultracompact skid-steer loader. Nicknamed the Mini-Bob, the smallest model in the Bobcat loader line offers a 700-pound rated operating capacity (ROC) and the comfort and safety features of an operator cab, says the company.

Measuring just 3-ft. wide and 6-ft. tall, the 15.7-hp unit can power numerous attachments with its 10-gpm hydraulic flow and 2,450 (psi) hydraulic system pressure.

The ultra-compact 463 is a multiple-attachment carrier for tough jobs in tight spaces. It easily maneuvers through narrow doorways, aisles, alleys and gates. With travel speed of 6.2 mph, the loader covers job-site ground quickly, and at just 2,708 lbs., it is also easy to transport.

Advanced hydraulics enable the loader to operate the following attachments: angle brooms, augers, backhoes, breakers, industrial and utility buckets, dumping hoppers, landplanes, mini scrapers, pallet forks, snow blades, snow blowers, sweepers, tillers, utility blades and forks, and trenchers. For fast and secure attachment changes, the new two-lever Bob-Tach mounting system is standard equipment on the 463.

701-241-8700 For information, circle 182

MITHEO



SMITHCO'S RED RIDER

The Smithco Red Rider is ideal for transporting mowers, equipment, and people, says the manufacturer. It can accommodate up to six workers, and that space is low to the ground and accessible via an "easy load" tailgate design, says Smithco. The Red Rider can hit 10 mph with its 8-hp Kohler electric start engine, offers a choice of hitch options, and has a 1,000-lb. load capacity. **610-688-4009**

For more information, circle 191



POLARIS WORKMOBILES

Polaris Industries, whose rugged vehicles have led "The Way Out" for nearly 48 years, is blazing its way in to the outdoor power equipment market.

The company, known for its snowmobiles, ATVs, personal watercraft and Victory motorcycles, has launched its new Professional Series Workmobiles[™].

"We're currently establishing a dealer network that includes some of our existing Polaris dealers, as well as dealers of outdoor power," said Ron Bills, the recently appointed General Manager of Polaris's commercial division. "It's a distribution channel that's well established but new to us."

The Workmobiles include the All-Surface Loader[™], the Utility Task Vehicle[™], the ATV Pro and the Professional Series generators and pumps. **763-542-0500**

For information, circle 181

Maintaining the Grounds



NEW BRIGGS & STRATTON ENGINE FOR HAND-HELDS

Briggs & Stratton has introduced its FourceTM 4cycle engine for strong trimmers and other outdoor, hand-held applications. The 4-cycle technology offers easier starting and maintenance, more power, and cleaner operation than 2-cycle engines, says the company.

A patent pending lube system allows the 4-cycle technology on hand-helds; it provides 360-degree intermittent operation and 270-degree continuous operation, so important for hand-held equipment. The company says exhaust emissions are reduced 70 percent compared to typical 2-cycle engines.

414-259-5333 For information, circle 184

PROFESSIONAL SOD CUTTER

The Turfco Direct KisCutter is simple, durable, and easy to use, says the manufacturer. The lightest sod cutter on the market, KisCutter makes loading and unloading easier because its handle transforms for lifting and hauling, as low as less than 32 inches.

Simple operation; squeeze the throttle and off you go; release

it and the 140-lb. unit stops. A centrifugal clutch, friction drive to the wheels and variable throttle make starts and stops and corners easy, says Turfco. **800-679-8201**

For information, circle 185



TORO'S WORKMAN® 1100

The Toro Co.'s new Workman 1100 (12 hp) offers improved traction and ride provided by a unique Active In-Frame[™] suspension, which allows all vehicle tires to

remain on the ground and to twist easier over rough terrain. The Workman 1100 is the second of Toro's mid-duty vehicles and combined with the Workman 2100 (16 hp) the duo are the most powerful mid-duty vehicles in their class, says Toro.

Additional features include corrosion and dent resistant hood and bed, multiple integrated storage areas, and a 12-hp pedal start Kohler® Command Pro™ engine. Floatation tires come standard on the Workman and it offers the highest payload capacity of its class. 952-888-8801

For more information, circle 189



ALL-PURPOSE CRAWLER MACHINE

ASV Inc. (All Season Vehicles) has introduced its RC•30 all-surface loader, which the company says weights 3,000 lbs. but impacts the earth with a ground pressure no more than that of a 5-year-old child, because of the unit's patented rubber track undercarriage. ASV is an affiliate of Caterpillar.

ASV spent 2 years developing the RC•30, which they say is a machine that is small and maneuverable yet driven by a seated operator, and powerful and stable yet gentle to turf. The unit's weight is transferred to the ground through 24 wheeled contact points on the inside of the rubber tracks. 800-346-5954

For information, circle 183



YAMAHA'S G21A

This utility vehicle sports a 357 cc engine with increased hp of 11.4, which allows you to haul up to 800 lbs. in its cargo box. Users benefit ergonomically from a redesigned seat, 6-ply tires, and a heavy-duty rear suspension that smooths out the ride.

The G21-A also features a low gear ratio transmission for hill-climbing as well as front and rear mechanical brakes. 866-747-4027

For more information, circle 186

E-Z-GO'S WORKHORSE 1200 LX

The Workhorse 1200 LX is a multi-purpose utility vehicle designed to handle a wide variety of grounds maintenance tasks reliably. A gasoline-powered unit, the Workhorse LX features a 13-cubic-ft. cargo bed, a 1,200-lb. payload capacity and an 11-hp, 350-cc overhead cam engine. Other features include a cargo bed liner, a truck-like cowl made of unbreakable RIM plastic with steel rear body panels, differential scuff guards, tubular front bumpers, and Halogen headlights.

800-241-5855 For more information, circle 187





Circle 122 on Inquiry Card

Maintaining the Grounds



CLUB CAR'S CARRYALL 2 PLUS

This unit sports a 351cc, 11-hp gasoline, key-start engine that can do 18 mph and hauls up to 1.200 lbs. total vehicle load. Durability. Versatility. Power. Club Car vehicles make a wide range of chores easier to perform in less time because of their durability, versatility, and power, says the manufacturer. They can haul practically anything, from lumber and piping to plants and shrubs. The lightweight aluminum construction enables users to work in rugged sites while not damaging turf.

1-800-258-2227 For more information, circle 190

JOHN DEERE'S TURF GATOR

The John Deere Turf Gator is designed for quiet operation, a larger cargo bed and faster speeds (maximum speed 18 mph). It is equipped with a 44- x 49- x 9-in. cargo bed with a 500-lb. payload capacity. Noise levels on the Turf Gator have been reduced through: an engine and exhaust system that are isolated from the frame and chassis; a new large volume muffler designed to reduce noise; new barriers and sound absorbers; and the ground speed governor and starter generator. And marks on turf are minimized due to the vehicle's low ground pressure and a low center of gravity. 800-537-8233

For more information, circle 188



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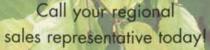
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STMA in Action

Lawnmower Man Open sets new mark

B irdies, bogies, and beverages replaced reels, rotaries, and rakes on July 24 at West Woods Golf Club in Arvada, CO. The 6th annual Lawnmower Man Open (LMO), a fund-raising golf tournament sponsored by the Colorado Sports Turf Managers Association, began with an 8:00 am shotgun start on a beautiful mile-high day. With two foursomes per hole, the field was full with hackers, duffers, and choppers, all competing for the coveted honor of winning the LMO.

Supported by more than 30 hole-sponsors contributing \$100 each, and with companies like Graff Turf Farm contributing \$1,000 for individual tee prizes and Ewing Irrigation Products donating two round-trip vacations (for 2) to the Phoenix Open in January, this year's tournament attracted 144 golfers and raised more than \$4,000 for the chapter's scholarship fund, a record LMO amount.

This year's tournament again featured the popular modified scramble format that has been a staple for the LMO. Each hole has 3 teammates playing a scramble, while the fourth teammate plays their own ball. Both scores are counted for a team total.

"This tournament couldn't even begin to be successful without the support of everyone who participates in this event," said tournament director By Hanson. "When we first started this tournament 6 years ago, we were lucky to get 40 players. Each year it has grown and improved to the level that we experienced this year. I no longer have to beg, borrow, and plead for participation or support. Now, people call me and ask what they can do to help."

The tournament's 36 teams were divided into four flights that competed for more than \$3000 in prize money. Prize money was awarded to the top five teams in each flight, making a majority of the players very happy to win prize money. "If you didn't

cash, you had a really, really bad day," said Hanson.

Disappointment started the day when it was announced that the automobile giveaway for a closest to the pin on the par 3 8th hole had to be cancelled due to the fact that the car broke down on its way to the course. The 50-mile trip from Greeley was just too much for this year's prize, a 1991 Dodge Colt with engine problems, making this annual event a casualty for the day. Usually, either the car is given away for the best golf shot of the day, or a player can get out of the competition by paying a \$5 fee.

However, the betting hole, the 180-yard par 3 twelfth hole was a huge moneymaker for the tournament. Teased with the offer of doubling your bet if you hit your ball inside the 30-foot circle, golf course maintenance mismarked the hole by only painting a 10-foot circle around the hole. This game of fair chance from 180 yards turned into a huge profit maker for the scholarship fund.

Combined with the usual long drive contest for both men and women, closest to the pin for ladies on the par 3 #6 hole, mulligan sales, and the banquet raffle, this tourney offered lots of action and fun.

The banquet raffle, hustled by Jeffco Stadium staff members Dave Rulli and Phil McQuade, proved to be the biggest event of the day. Raffle tickets were sold for such items as golf equipment, rounds of golf, autographed memorabilia, sports stuff, dinners, hotel stays, hats, shirts, game tickets, etc. Enough was raised from just the raffle to pay for everyone's lunch!

"It felt good to tear up someone else's turf for a change," quipped Invesco Field at Mile High's turf manager, Ross Kurcab, CSFM.

STMA Chapter News

Northern California Chapter of the Sports Turf Managers Association: The NorCal STMA's annual Fall Continuing Education Seminar will be held in November. More details will be announced soon. For information on the Nor-Cal Chapter, or pending events, call Janet Gift at 530-758-4200.

Tennessee Valley Sports Turf Managers Association (TVSTMA): The Tennessee Valley Chapter is planning a November 20 meeting at the Tennessee Titans Field in Nashville. Registration begins at 8:00 AM. The featured speaker for this event is Floyd Reese, General Manager of the Titans. The meeting will include a tour of the practice facility. For information on the TVSTMA Chapter, or upcoming events, call Bill Marbet, Southern Athletic Fields, Inc., at 931-380-0023 or 800-837-8062.

Florida Chapter #1: The Florida Chapter will hold a meeting in the Village of Pinecrest on December 5. For information on the Florida Chapter, or pending activities, call John Mascaro at 954-341-3115.

Colorado Sports Turf Managers Association: The Colorado Chapter will participate in the RMRTA 48th Turf Conference and Trade Show to held in December 5 - 7, 2001, in Denver, Colorado. For information on the Colorado Chapter, or upcoming activities, visit the Chapter's website—www.CSTMA.org—or call the CSTMA Chapter Hotline at 303-346-8954.

Midwest Chapter STMA: The Midwest Chapter will again participate in the annual North Central Turf Expo at Pheasant Run Resort in December in conjunction with the Illinois Turf Foundation and the Illinois Landscape Contractors Association. For information on the Midwest Chapter, or pending activities, call The Chapter Hotline at 847-622-3517.

Ohio Sports Turf Managers Association (OSTMA): The OSTMA 4th Annual meeting and awards breakfast will be held at the Columbus Convention Center from 7:30 am to 8:30 am on December 5th in conjunction with the December 3 - 6, 2001, Ohio Turfgrass Foundation Conference. Featured will be a special Sports Turf Track and vendor displays with products for the sports turf manager. For information on the OSTMA Chapter, or upcoming events, call OSTMA Headquarters at 740-452-4541 or Boyd Montgomery at 419-885-1982; or visit the chapter's website at www.glstma.org.

STMA Chapter News

Minnesota Chapter STMA: The Minnesota Chapter will participate in the Minnesota Turf And Grounds Foundation Educational Conference & Trade Show to be held at the Minneapolis Convention Center on December 4 - 6, 2001. For information on the Minnesota Chapter, or upcoming events, contact Ron Unger, Director of Parks & Recreation, City of Kasson, at tel. 507-634-4165 or e-mail: ParkNRec@CityofKasson.com.

Sports Turf Managers Association of Arizona: The Arizona Chapter will participate with the City of Yuma Parks and Recreation to present the 9th Annual Sports Turf Field Day and Equipment Show on December 7, 2001. The day's activities include presentations by guest speakers, seminars and the opportunity to view vendor displays. The 6th Annual "Sports Turf" Golf Tournament will be held December 6. For more information on these events, contact Larry Munoz, City of Yuma Parks and Recreation, at e-mail: Larry.Munoz@CI.Yuma.az.us or tel. 520-329-2824. For information on the chapter, contact Bill Murphy, Recreation and Facilities Manager, City of Scottsdale Park, at e-mail: bmurphy@ci.scottsdale.az.us or tel. 480-312-7954.

Sports Field Managers Association of New Jersey: This Chapter will be conducting athletic field educational courses in conjunction with the New Jersey Turfgrass Association Annual EXPO in Atlantic City, December 11 to 13, 2001. The day-long athletic field sessions will be presented on December 13. For information, call Jim Gavigan, Lesco, at 732-248-8979; or call Eleanora Murfitt, Director, Township of Clinton Parks & Recreation Department, at 908-735-5999.

North Texas Sports Turf Managers Association: The North Texas Chapter will participate in the Texas Turfgrass Association Institute & Trade Show to be held December 17-19, 2001, in Fort Worth, Texas. For information on the North Texas Chapter, or pending activities, call Kayla McAfee at 972-234-6584 or Rene Asprion at 972-647-3393, or visit the website at www.ntstma.org.

South Texas Sports Turf Managers Association: The South Texas Chapter will participate in the Texas Turfgrass Association Institute & Trade Show to be held December 17-19, 2001, in Fort Worth. The chapter will be hosting a lunch on December 18. For information on the chapter, or upcoming events, call Tom McAfee, Nelson Wolff Municipal Stadium, San Antonio, at 210-207-3754.

Nebraska Sports Turf Managers Association: The Nebraska Chapter will participate in the 2002 Nebraska Turfgrass Conference to be held January 7 - 9, 2002, at the Holiday Inn Central in Omaha, Nebraska. For information on the Nebraska Chapter, or upcoming events, call Gregg Bostelman, City of Grand Island, at 308-385-5426.

Wisconsin Sports Turf Managers Association: WSTMA will participate in the Wisconsin Turfgrass and Greenscape EXPO to be held at the Marriott, Madison West, January 8 to 10, 2002. For more information on the Wisconsin Chapter, or other pending events, call Richard Miller at 608-756-1150.

Iowa Sports Turf Managers Association: The Iowa Chapter will participate in the 68th Iowa Turfgrass Conference & Trade Show to be held January 28 - 30, 2002, at the Polk County Convention Complex in Des Moines, Iowa. The Sports Turf Workshop is scheduled for 8:30 am to 4:00 pm on January 28. On the program are: Mike Andresen, CSFM, presenting "Budget & Record Keeping; Kevin Vos, CSFM, on Reducing Soccer Field Wear; Ted Thorn, Julie Smith, Ken Hanawalt, and Dr. Dave Minner presenting Construction Case Studies,

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and Dr. Tony Koski presenting Soil Testing & Interpretation and Tips for Healthy Roots. The Tuesday afternoon Sports Turf session includes: Dr. Joe Vargas on Disease Management and Thatch Control; Bob Campbell, CSFM, with a Show and Tell presentation and the ISTMA Annual Meeting. The Wednesday morning Sports Turf Session includes: Bob Campbell, CSFM, presenting Survival Tips for Groundskeepers; Nick Gow on Low Budget Renovation; and representatives from KCCI-TV8 on

Living with Mother

Nature. For information on the Iowa Chapter, or upcoming activities, contact Lori Westrum of The Turf Office at tel. 515-232-8222, or fax 515-232-8228, or e-mail: Lori@iowaturfgrass.org.

Mid-Atlantic Athletic Field Managers Organization (MAFMO Chapter STMA): The MAFMO Chapter will participate in the Maryland Turfgrass 2002 Conference and Trade Show to be held January 29 - 30, 2002, at the Baltimore Convention Center in downtown Baltimore, Maryland. For information on the MAFMO Chapter, or pending activities, call the Hotline at 410-290-5652.

Keystone Athletic Field Managers Organization (KAFMO/STMA): The Sixth Annual KAFMO/PRPS Athletic Field Conference will be held on February 15, 2002. For information on the KAFMO/STMA Chapter, the golf outing or other upcoming events, contact Dan Douglas, Reading Phillies Baseball Club, at tel. 610-375-8469, ext. 212; or e-mail to: kafmo@aol.com.

Gateway Chapter Sports Turf Managers Association: For information on the Gateway Chapter, or upcoming events, call Jim Anthony, Saint Louis University, St. Louis, MO, at 314-977-2956.

Indiana Chapter: For information on the Indiana Chapter, or pending activities, call Terry Updike, B & B Fertilizer, at 219-356-8424.

Michigan Sports Turf Managers Association (MiSTMA): For information on the Chapter or other pending events, call Rick Jurries, West Ottawa Public Schools, at 616-738-6974, or go to www.mistma.org to visit the chapter's new website.

MO-KAN Sports Turf Managers Association: For information on the MO-KAN STMA Chapter, or upcoming events, call Trevor Vance at 816-504-4271; Gary Custis at 816-460-6215; or Jody Gill at 913-239-4121.

Southern California Chapter: For information on the Southern California Chapter, or pending activities, call Ron Kirkpatrick at 858-453-1755.

Virginia Sports Turf Managers Association: For information on the Virginia Chapter, or upcoming events, contact: Chapter Vice President, Randy Buchanan, County of Henrico Recreation and Parks, via e-mail: buc06@co.henrico.va.us or at tel. 804-261-8213.

CHAPTERS ON THE GROW

Las Vegas: With the STMA Annual Conference & Exhibition headed for Las Vegas January 16-20, 2002, plans for the formation of a Las Vegas Chapter also are moving forward. For more information on the developing chapter, please contact Rod Smith, Grounds Manager/Cashman Center at e-mail: rms@lvcva.com or at tel. 702-386-7140.

New York: A chapter is forming in Central New York. The group will meet at 10:30 a.m. on the third Wednesday of each month at the National Soccer Hall of Fame. For more information, contact Kevin Meredith, National Soccer Hall of Fame, at e-mail: Kevin@wpe.com or at tel. 607-432-2953.