

# LM REPORTS

YOUR GUIDE TO PRODUCT RESEARCH

## MAINTENANCE: MOWER ENGINES

### Schiller Grounds Care

BOB-CAT has reached its goal of 2011 EPA exhaust emission engine compliance throughout its mower line. This year, through advanced engine technology that includes new Kawasaki FX & FS Series engines as well as units that feature digital fuel injection and propane-power offerings, the line even more so will live up to its "green machine" designation. The new Predator-Pro 37hp DFI, with digital fuel injection, will provide an increase in fuel economy of up to 30% while significantly increasing engine performance through an Electronic Governor (E-Gov). Plus, the new LP-61 zero-turn riding mower features a 30hp Generac 990 propane engine that uses the same common liquid withdrawal propane tanks and technology that propane forklift trucks use. [BOBCATTurf.com](http://BOBCATTurf.com)



### Caterpillar

The C3.4B, C4.4 ACERT and C6.6 ACERT are three new additions to the Cat Tier 4 Interim/Stage IIIB technology industrial engine lineup. Ranging from 60 to 174hp, they are available with a wide choice of options that are suitable for compact and midrange equipment. Compared to existing Tier 3/Stage IIIA engines, these new engines produce fuel consumption improvements across the entire horsepower band. They will begin production and distribution prior to 2012, when Tier 4 Interim/Stage IIIB emissions standards take effect for this power category of engines. In addition, the C7.1 ACERT and C9.3 ACERT will be available prior to 2011, when Tier 4 Interim/Stage IIIB emissions standards take effect for this power category of engines. [Cat.com/industrial-oem](http://Cat.com/industrial-oem)

### John Deere Power Systems

JDPS introduces the generator drive power ratings for its entire lineup of Interim Tier 4 diesel engines. The new power ratings are the latest addition to its extensive lineup of standby and prime gen-set engines that meet emissions regulations around the world. In addition, John Deere will continue to offer a full lineup of reliable engines for use in standby applications, since emergency stationary applications are not required to use Interim Tier 4 engines with aftertreatment devices. For a full listing of engines and ratings, visit John Deere online today. [JohnDeere.com/jdpower](http://JohnDeere.com/jdpower)



### B<sub>3</sub>C Fuel Solutions LLC

Mechanic in a Bottle is designed to clean a fuel system and combustion chamber thoroughly and counteract the negative side effects of bio-fuels. The anticorrosive/metal deactivator cleans machine carburetors, revitalizes old fuel, and dissolves varnish and shellac safely. It improves octane, stabilizes fuel and provides upper cylinder lubricity. [MechanicInABottle.com](http://MechanicInABottle.com)

### Briggs & Stratton Commercial Power

Four new Vanguard single-cylinder engines, with gross horsepower ratings ranging from 5.5 to 10.0hp, feature the patent-pending TransportGuard system, an integrated switch that simultaneously shuts off the ignition and fuel. A high-mounted, canister-style air cleaner has 27% more filter area than several competitive units. An all-metal fuel tank reduces emissions, saves fuel and is mounted directly to the engine block — and the heat-treated PTO bearing races ensure long-lasting equipment performance. [VanguardEngines.com](http://VanguardEngines.com)





### Subaru

Two new models of electronic fuel injection engines — EH72 V-twin and EH72 UTV — are designed to reduce fuel consumption and emissions, while providing fast, easy starts in a wide range of ambient temperatures. The engines run on an open-loop system, which uses an electronic control unit. Using several different sensors that detect manifold pressure, ambient temperature and throttle position, the ECU constantly is relaying information to the injector, which then is able to deliver the proper air-to-fuel ratio. Allowing for differences in operating speed, applications and fuel type, the estimated fuel economy improvements are 11% to 25% better than a similar carbureted engine. *SubaruPower.com*

### Kohler

The Courage XTR-6 engine joins Kohler's line of walk-behind recoil and electric start engines. The 3.5-net-hp, vertical-shaft engine's Energy-Saver electric starter provides 30% more starts per battery charge and is 40% lighter than older models. It's also available with a 0.5 amp charging system. The overhead valve design provides efficient combustion and strong performance with minimal fuel consumption and emissions. A commercial-grade, cast-iron cylinder bore enhances engine life. All XT series engines also are equipped with a flywheel ball bearing, which protects the engine when operating at extreme angles. *Kohler.com*



### Plews/Edelmann

LubriMatic Green is a family of premium quality bio-based products that include a variety of spray lubricants, penetrants and greases. These lubricants are formulated from renewable, biodegradable vegetable oils and have four times the natural lubricity of most petroleum-based products. They are less likely than traditional lubricants to "thin down" at high temperatures, so they provide lower equipment operating temperatures. In addition, each product is made from U.S.-grown crops and does not have the harsh odor found in traditional lubricants. *LubriMaticGreen.com*

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**DESIGN/BUILD:**  
**PAVERS, EDGING  
 & RETAINING WALLS**

**Pine Hall Brick**

RainPave permeable clay pavers were used on Kings Court in Haddonfield, NJ. Designers were able to prevent standing water and flooding of businesses in the 11,000-sq.-ft. plaza, while keeping with the Colonial-era surroundings

using the Rumbled RainPave (a 2009 Brick in Architecture winner).  
*PineHallBrick.com*



**Redland Brick**

The Tuscan Collection Genuine Clay Pavers are the first-ever wood-molded genuine clay paver series to be available in 6x6- and 6x9-in. sizes, which allow for more sophisticated paving bonds and patterns. The pavers are currently available in four popular Rocky Ridge colors: King William, Rustique, Cumberland and Bayshore. *RedlandBrick.com*



**Vögele**

The design of the new tracked Super 700 allows a wide range of paving applications on most varied job sites. It's designed for minor to medium jobs such as backfilling trenches with asphalt, surfacing footpaths or cycle paths, or paving asphalt on traffic areas or small roads — as well as variety of

landscaping tasks. The AB 200 Extending Screed in V version (with vibrators in the basic screed and the extending units) is specially designed for use with the Super 700. As the electrically heated screed floats on the mix, the paver achieves optimal pre-compaction. *Vogele.info*



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### Willow Creek

The new LedgeStone wall system stacks up as very user-friendly landscaping solution available for building naturally rustic freestanding walls and columns. Available in the same rich color blends as Willow Creek's paving stones, LedgeStone walls are built with 4x8x12-in. weathered units dry-stacked on a standard 6-in. leveling pad of compacted crushed-rock base material. Units are secured using concrete adhesive. Neither frost footings nor mortar are required. The units are easily modified with a masonry saw and can be configured in a variety of wall patterns.

[WillowCreekPavingStones.com](http://WillowCreekPavingStones.com)



### Belgard Hardscapes

Celtik Wall is Belgard's modern interpretation of prehistoric Celt-stone. Celtik Wall 90 (pictured) refers to its 90mm size (3.5 in.). The series offers authentic stone elegance combined with today's durability, flexibility and ease of maintenance. Installation applications include encircling greenery, partitioning property and accenting light posts, among other uses. The units are available in a range of colors. [Belgard.biz](http://Belgard.biz)



### Unilock

The modern yet elegant look of new Richcliff adds a touch of class to any landscaping project. With a compressive strength rating of up to four times the strength of conventional poured concrete,

it's a virtually indestructible paver that will not split, crack or fade. Features include a MicroBevel edge, Reala surface design, StayClean Stain Resistance Technology, a non-slip surface and an AutoAlign system. Available in squares and small and large rectangles. Colors include Pebble Taupe and Dawn Mist (a mixture of which is pictured). [Unilock.com](http://Unilock.com)

*continued on page 29*

# "GREEN" is the New GREEN



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## LAWN CARE: COMBINATION CHEMICALS

### BASF Professional Turf & Ornamentals

Onetime herbicide is a soluble liquid formulation that controls more than 70 annual broadleaf and grassy weeds. Onetime combines liquid-quinclorac-based Drive XLR8 herbicide with MCP-P and dicamba, which provides fast entry into the plant, rainfastness in 30 minutes and more effective, consistent control of grassy and broadleaf weeds than other products. Onetime can be applied to both cool- and warm-season grasses, as well as tank-mixed with other commonly used products, including pendimethalin-based Pendulum herbicide, to enhance residual control. *BetterTurf.com*



### Dow AgroSciences

LockUp specialty herbicide offers post-emergence control of dandelion and other key broadleaf weeds in turf such as white clover, kyllinga, English lawn daisy, chickweed and lespedeza. It provides activity at extremely low use rates (0.02 to 0.06 lb. of its active ingredient, penoxsulam), and is available for professional use on

cool- and warm-season turf. New granular formulations of LockUp on fertilizer are currently available in the North

from Lebanon Seaboard and John Deere Landscapes, with more formulators and distributors to be named in the near future. ProScape with LockUp (penoxsulam + dicamba + 2,4-D) is available through Lebanon Seaboard. John Deere Landscapes currently markets LockUp Extra (penoxsulam + dicamba) and LockUp Extra 2 (penoxsulam + dicamba + 2,4-D). [DowAgro.com/turf/prod/lockup.htm](http://DowAgro.com/turf/prod/lockup.htm)



### Bayer Environmental Science

Armada fungicide is a pre-mixed product containing two active ingredients, triadimefon and trifloxystrobin, for a broader spectrum of activity against most turf diseases of importance in lawns — and more convenience. It is designed specifically for lawn and landscape professionals and offers 30-day control of two major turfgrass diseases: brown patch and dollar spot. It also controls gray leaf spot, anthracnose, various leaf spots, red thread, southern blight and summer patch, among other turf diseases. It offers good compatibility for tank mixing with foliar fertilizers or insecticides. *BackedByBayer.com*



### FMC Professional Solutions

New Talstar XTRA granular insecticide combines the residual of Talstar with the speed of a new active ingredient, zeta-cypermethrin. The patent-pending formulation quickly disrupts the insect's nervous system, with a residual that lasts for at least four months. The unique, dense sand granule enables the product to penetrate mulch and thatch to reach many surface-feeding pests, yet appear invisible because of its small size. Talstar XTRA granular insecticide is labeled for use against most ants, (including fire ants), chinch bugs, fleas, ticks, mole crickets, crane flies and many other lawn pests. It's available in 25-lb. bags, which can cover more than 60 fire ant mounds (nearly 11,000 sq. ft.). *FMCProSolutions.com*

## BETTER RESULTS



## 4-Speed™ XT Saves Contracts

### APPLICATION RATE:

1.3 oz/1,000 sf of 4-Speed XT plus spreader-sticker (1 oz/gallon finished spray)

### APPLICATION EQUIPMENT:

LT Rich Z-Sprayer, 1/3 gal spray tips

### TIMING:

July 13, 2009

### SUMMARY:

"This was not ideal herbicide application timing for ground ivy control, but we still had great results on it and all the other weeds on the 4-Speed XT label. As a result, we saved several contracts. We'll be using a lot more 4-Speed XT and other Nufarm products in the future."

# 4-SPEED™ XT

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### IRRIGATION: TRENCHING & EXCAVATING



#### Volvo

The EW230C wheeled excavator is designed for heavier lift operations such as pipe laying and hard digging thanks to a new, more robust platform. When fitted with a standard counterweight, the rear axle weight remains below 12 tonnes — making it approved for road travel between sites. The EW230C is powered by a Volvo D6E EHE3 diesel engine, developing 125 kW/168hp net at 1,900 rpm. A choice of 18.7-ft. mono or optional articulated two-piece boom is available, while Volvo's automatic lubrication system not only ensures correct lubrication, but also reduces lubricant use by 50%. [Volvo.com/constructionequipment](http://Volvo.com/constructionequipment)

#### Case Construction Equipment

The Klac Quick Coupler System is available for seven Case compact and minimum swing radius excavators. The system features automatic locking that is visible from the cab, as well as a



secondary safety-locking feature. The system also maintains Case specifications regarding tip radius, minimizing the breakout force

impact. The quick coupler supports a full range of attachments, from buckets to rippers to hydraulic hammers. The coupler is available for all models of compact excavators — CX17B, CX27B, CX31B, CX36B and CX50B — and minimum swing radius excavator models CX75 and CX80. [CaseCE.com](http://CaseCE.com)

#### Toro

Boasting a 26hp Kawasaki engine, the new TRX-26 combines the power of a ride-on trencher with the maneuverability and control of a walk-behind. The patented Toro Dingo TX-style control system makes it easy to control. It eliminates the "jerk" steering required with handlebar control steering, allowing for smoother, more precise trenching. Three simple controls operate all traction and trenching functions. With zero-turn capability and ground pressure as low as 4.1 psi, the TRX-26 has the ability to access confined spaces without damaging existing turf. [Toro.com/trx](http://Toro.com/trx)



#### Extend Manufacturing

The new line of TMX Trowable Mini-Excavators features a quick-on and quick-off hitch system for use behind a standard half-ton pick-up, van or light-duty tow vehicle. No trailer is needed, and no commercial driver's license is required — making it the ideal option for

small contractors. Lockout drive hubs enable towing at highway speeds of 55 mph. And unlike conventional mini-excavators, TMX units eliminate tracks by using zero-turn technology. The drive tires are designed for mud terrain, ensuring performance and traction in demanding applications. Featuring a highly efficient orbital motor with tapered roller bearings on the output shaft, the wheel motors allow plenty of durability for tough loads. [TMX-Excavator.com](http://TMX-Excavator.com)



## Bobcat

As a new M-Series model in the 6-ton weight class, the E60 features a completely new design that increases the comfort of the operator and the durability of the machine, while decreasing the frequency needed for some preventive maintenance tasks. Everything about the new excavator has been created to help keep operators working longer, including a spacious cab and a top-of-the-line seat to keep operators comfortable, and polymer shims to decrease wear on the lateral pins. The operator can adjust the seat nine ways, including moving or angling the armrests, joysticks and lumbar support. A number of attachments are available to make the machine suitable for several tasks. [Bobcat.com/excavators](http://Bobcat.com/excavators)

## Cub Cadet Yanmar



Built on a large chassis to accommodate a wide array of attachments, including a front loader with a universal quick-attach bucket, backhoe and three-point implements, the new Ex450 compact tractor can be used for everything from cutting grass to backhoe trenching and excavation. The unit is powered by a four-cylinder, liquid-cooled, 45-hp direct-injection Yanmar diesel engine. Other features include the Synchro Shuttle, a 9x9 transmission and fully hydraulic power steering. [CubCadetYanmar.com](http://CubCadetYanmar.com)

## Ditch Witch

The new 30hp XT855 is a compact, multi-function machine that features an excavator with a 260-degree swing, plus a tool carrier that can drive as many as 70 compact utility attachments. It offers a lift capacity of up to 1,080 lb. when equipped with optional extension legs. The excavator end features a 260-degree operating radius, enabling the machine to offset dig. The operator can dig against a footing, wall or fence, and dig trenches without having to move the machine. Zero-radius turning and 50-in. width help the XT855 maneuver in tight spots. [DitchWitch.com](http://DitchWitch.com)

# Z-SPRAY VS. the COMPETITION

	Z-SPRAY	Competitor A	Competitor B
True Zero Turn Maneuverability	✓		
By-Pass Agitation	✓		
All Stainless Steel Chassis	✓		
220 LB Hopper Capacity	✓		
Optional Auxiliary Tank	✓		
50' Hose Reel for Spot Spraying	✓		
G.P.S. Speedometer	✓		
8 m.p.h Transport Speed	✓		
3 Section Independent Boom	✓		
Hydraulic Drive Hopper	✓		
3' to 25' Variable Spread Width	✓		
4.0 GPM Pump	✓		
Standard 18 Gallon Spray Capacity	✓		
Up to 1 Gallon per 1000 capacity	✓		
Air Injection Low Drift Nozzles	✓		
16" Front Tires	✓		
20" Rear Tires	✓		
16 HP Electric Start Engine	✓		
Locking Caster System	✓		
5 Gallon Gas Tank	✓		
Z-Max & Intermediate	✓		
50 on Z-Max	✓		
not applicable		not applicable	not applicable














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