



New Products

► Introducing products, services for cattlemen; compiled by **Linda Robbins**, assistant editor

Programmable high-resolution interface

Iteris Inc. has released ClearPath Ag™ Select, an expanded application-programming interface (API) for iOS, Android and other computing platforms that provides access to high-resolution weather information and mapping visualization for real-time decision-making.

The new API is based on the company's ClearPath Ag cloud platform, which combines the power of big data and analytics with the seasoned experience of the company's in-house staff of growers, agronomists, meteorologists and data scientists.

Previously released APIs included historical weather data, weather forecasts, hail data, Nowcast, and a real-time virtual rain gauge. The new API incorporates those APIs and adds growing degree days and real-time access to high-resolution weather map tiles of current weather conditions, including composite radar, infrared radar and visible satellite, one- and 24-hour precipitation, temperature and wind speeds.

The new API provides high-resolution map visualizations of field-specific weather data up to a 1 × 1 kilometer area, with location-specific weather information derived from a targeted array of ag weather observation and forecasting platforms. Advanced data assimilation and modeling then delivers the high-resolution data for precision agriculture applications.

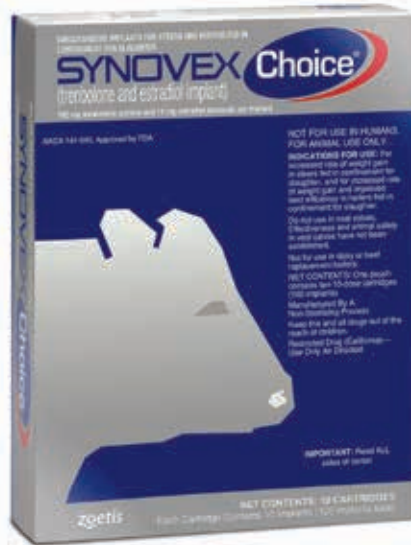
Once integrated into their information systems, the new API's comprehensive solution allows agribusiness field staff to use the power of the ClearPath Ag platform to understand the effects of weather on their customers' crops and the dynamic conditions in the field.

The company plans to introduce other products in the coming months that address soil condition modeling, weather-based field alerting and planting intelligence.

For more information call 1-888-329-4483 or visit www.iteris.com.

Implant approved for heifers

Zoetis has announced that Synovex Choice® has been approved for use in feedlot heifers. The implant helps increase average daily gain and improve feed efficiency in heifers, and it helps increase



gain in feedlot steers, according to the release.

For more than 12 years, the company says, the product has helped optimize weight gain in feedlot steers through the 10:1 ratio of trenbolone acetate (TBA) to estradiol-17B (E2). The U.S. Food and Drug Administration (FDA) approval for use in heifers means feedlot managers can use the same implant for all cattle.

The SX10 applicator — which can be used to administer all Synovex implant formulations — features an exclusive retractable needle that helps ensure consistent, accurate administration. Preventing crushed, bunched or dropped implants can help maximize the return of implanted cattle.

The product is the first beef cattle implant to face additional scrutiny by the FDA about its impact on the environment. Through research and in-depth environmental modeling, the company examined exposure to and the direct impact of TBA, estradiol benzoate and their metabolites. After reviewing the results of those studies, included as a supplement in the company's new animal drug application (NADA), the FDA concluded that Synovex Choice is not expected to have a significant impact on the environment, including waterways, air, plants or aquatic species, when used according to label directions.

The product is packaged in cartons of 100 implants (10 cartridges containing 10 doses each). To learn more visit www.synovex.com.

New mineral technology

ADM Alliance Nutrition has introduced its new Advanced Mineral Performance Technology™ (AMPT). Advanced mineral research and new technology delivers optimum amounts of minerals needed to complement forages to deliver best performance — all in a 4-ounce (oz.) daily feeding rate, according to the release.

A variety of products are available. For more information, log on at www.admani.com/AMPT, call toll-free 1-866-666-7626 or send an email to AN_BeefHelp@adm.com.

Chemical management for farmers

Inventor Ethan Eck, with the help of farm product innovators Ralph Lagergren and Mark Underwood are bringing to the market the patented Chem-Blade and Chem-Blade ES (enclosed system).

These systems are designed to open and empty a chemical jug in a half second, and then rinse that jug and prepare it for recycling by shredding, all in less than a minute. After conducting surveys with farmers, Lagergren and Eck found that up to 95% of farmers simply don't have time to rinse or recycle jugs of chemicals, even though all farmers know jugs are supposed to be properly rinsed with water and destroyed. Chem-Blade was developed to address that industry-wide problem in an efficient and effective manner.

The newest Chem-Blade ES provides sharp blades in a sealed enclosure that cut open and empty a chemical jug in about a half-second, followed by an effective, complete rinse of the jug inside and out with the uniquely designed built-in spray nozzles.

The whole cycle takes less than a minute compared to the several minutes it takes to do the exact process manually. The time saved eliminates the current bottleneck in chemical loading and will allow an operator to spray approximately 25 to 45 additional acres per day, depending on the amount of jugs used. The ES system can be used as an eductor on sprayers, as an inductor at supply stations, or integrated into an existing loading system.

From a safety perspective, because the new system is fully sealed and enclosed, the operator is protected from chemical fumes and splash. The product is currently in the process of being licensed to large manufacturers at an opportune time as the EPA looks at strengthening 20-year-old



John Deere 6R Series tractor for 2015

standards for chemical handling aimed at protecting farm workers.

To see the new ES unit in action visit <http://youtu.be/Jldm9yqFF4E>. For more information visit www.chemblade.com.

Enhanced capabilities for tractors

John Deere has made improvements to its 6D and 6R Series tractors for 2015. The four 6D Series Tractors (6105D, 6115D, 6130D and 6140D) come with two new transmissions to provide more speeds within each working range. The new transmission options will allow operators to shift on the fly to match changing field conditions and keep engine RPMs constant for power takeoff (PTO)-driven equipment such as rotary cutters and balers.

Improvements to the 6R Series include adding five extra horsepower (hp) to the current 6R models (6170R, 6190R and 6210R) to create three new higher hp models — 6175R, 6195R and 6215R. The higher-spec machines feature Final Tier-4-compliant engines with Intelligent Power Management, which automatically provides up to a 40 hp boost when the load calls for it, especially during transport and with PTO-driven implements.

Other enhancements include a new hydraulic valve stack with up to six selective control valves (SCVs) for increased hydraulic capabilities; improved visibility to rear SCVs; new remote rear couplers to make it easier to attach and detach implements; and the popular IVT transmission with

new overdrive that maintains transport speeds at lower RPMs to reduce fuel costs and noise.

Inside the cab, operators will notice a new CommandARM™ with a standard 7-inch (in.) (10-in. optional) Generation 4 CommandCenter™ touch-screen display consistent with that used in the 7R and 8R models.

A 30° right-hand swivel seat has also been added to increase operator comfort, especially when using rear implements.

For more information visit a local dealer or www.johndeere.com.

Enhanced utility tractors

John Deere has made changes to its high-spec 5M model lineup, popular with rural property owners, farmers and ranchers, turf-maintenance customers, and governmental agencies. The changes impact the complete range of 5M Utility Tractors, ranging from

75- to 115-hp. The 3-cylinder 5075M model will have John Deere's diesel oxidation catalyst (DOC) and diesel particulate filter (DPF) solution with no diesel exhaust fluid (DEF) required. The 5075M will also feature modern styling with chrome headlight bezels, a full range of isolated open operator stations and cabs, and new factory-installed options such as front fenders and cab fender extensions.

The 4-cylinder 5Ms (5085M, 5100M, 5115M) will have a DOC/SCR (selective catalytic reduction) solution using DEF to meet Final Tier 4 emissions standards. They also feature a compact cooling package and a new, low sloping hood that will improve efficiency in loader applications. The 4.5-liter PowerTech™ engines are designed with an increased power bulge of up to 4% and a 30% torque rise for improved performance under load.

Servicing of the cooling system has never been easier with a slide-out condenser, sliding oil cooler, tiltable charge air cooler, and removable radiator screen. Optional LED work lights provide brighter lighting for working late in the day or early in the morning.

All 5M models can be matched with a wide variety of John Deere and Frontier implements to make them even more

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John Deere 5075M Tractor

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Vermeer 605N Baler



John Deere 645FD Hydraflex™ Draper S-Series Combine

versatile. For more information visit a local dealer or www.johndeere.com/ag.

Balers for hay, forage and cornstalks

Vermeer Corp. has introduced a new series of round balers that includes two models designed for high-capacity hay and forage production, and an additional two models specially designed for the rigors of cornstalk baling. The 604/605N balers and 604/605N Cornstalk Special balers deliver the strength, productivity and operating convenience of the company's classic Super M technology — but with added capability and enhanced performance.

600N series balers are equipped with five-bar pickups, a Direct Crop Feed system that enables the forage crop to be fed directly to the bottom drum and bale-starting chamber, the patented dual-stage belt-tightening system that reduces the chamber size by 50% and allows the hay to turn quicker. An optional net wrap system is also available. These are all features carried over from the Super M series.

New features include an optional pickup clutch that automatically stops the pickup when the desired bale size is reached, lessening

inadvertent overfill of the bale chamber and helping to protect the rollers, bearings and belts. Toolless gauge wheel adjustments make it easy to adjust pickup height. The new E-Link Pro display coupled with optional scale kit and moisture sensors provides convenient access to bale weight and moisture readings. In addition, an optional auto-lube greasing system provides automatic lubrication to critical bearings at user-defined intervals.

For more information visit www2.vermeer.com/vermeer/NA/en/N/industries/agriculture.

Process and distribute material up to 100 feet

Vermeer Corp. has introduced a new bale processor that gives operators the ability to process and distribute forage materials consistently and accurately at long range. The aptly named Catapult CPX9000 bale processor can accurately reach distances up to 100 feet (ft.), making it ideal for applications where height and distance challenges are present.

The new machine gives operators the ability to process round or square bales,

adjust throw distance (60 to 100 ft.) and control how the crop is distributed by changing the angle of the spout.

An automatic bale-feed system controls bale feed rate for smooth, steady feeding, all without operator management. Direct feed from a dual fan air-circulation system provides consistent material flow from

the tub to the spout, reducing inconsistent material flow common with non-direct feed systems.

Operators have the ability to process round or square bales, make quick spout adjustments with hydraulic controls, and adjust throw distances on the go, demonstrating the versatility, efficiency and ease of operation of the new machine, according to the release.

For more information visit www.vermeer.com.

Improvements and new draper platform

John Deere has added several new features to its popular S-Series Combines and introduces the performance-enhancing 645FD Hydraflex™ Draper to help producers improve harvesting performance and efficiency for soybeans, rice and small-grain crops.

Active hydraulic concave isolation design — the first of its type in the industry, according to the release — reduces concave noise while processing uneven crop flow. The hydraulic system eliminates shear bolts and eyebolts, which removes both the expense and downtime that occur when a bolt breaks.

Next, the new PlatformTilt (fore/aft) feeder house enables the operator to ensure proper cutter bar positioning under changing terrain and ground conditions, without leaving the cab. When harvesting corn or soybeans, this feature alone can increase harvest efficiency throughout the day.

Finally, longer augers mean smoother unloading on the go. The 26-ft. folding auger reduces overhang at the end of the machine to simplify transport and storage. The new 28.5-ft. unloading auger option is 2½ ft. longer than any auger now on the market, according to the release, to more easily accommodate unloading on the go



Vermeer Catapult CPX9000 bale processor

NEW PRODUCTS



John Deere 2730 Combination Ripper

with wider platforms and grain-cart tractors equipped with duals.

The 645FD Hydraflex Draper also enables operators to maximize their time in the field.

The 45-ft. operating width — an increase of 5 ft. — means more ground can be covered in fewer passes. The wide center feed section and the 35% greater slip-clutch capacity maximize draper performance.

Shorter, streamlined end dividers reduce trampling losses, while an increase in reel finger strength improves both durability and performance.

For more information contact a local dealer or visit www.johndeere.com/ag.

Wider, one-pass tillage tool

John Deere has introduced the 2730 Combination Ripper, a primary tillage tool that sizes and buries residue in the fall, which then prepares for one-pass secondary tillage in the spring.

The combination of 26-in. disks, individually mounted or in a gang configuration, and ripper shanks offer improved residue flow. Other leveling attachments are available to meet preferred field finish needs.

The overall result is an improved tillage tool that delivers more than 40% productivity over previous models, according to the release.

Other major features of the 2730 designed to improve efficiency and field performance include four operational areas integrated into one system — front

disks, ripper shanks, closing disks, and leveling attachments; improved residue management; preferred, consistent field finish across the entire width of the machine; superior residue flow; fully-fractured compaction layers throughout the entire soil profile; wider, true-working widths; and 26-in. blades.

The 2730 is available in 14-ft. and 18-ft. rigid frame models and folding 18-ft., 22-ft. and 26-ft. models that provide narrow transport dimensions. The unit features what the company says is the industry's largest frame and hydraulic down pressure control that allows the operator to easily control clod size and field finish from the cab. A significant reduction in downtime also contributes to productivity. The 2730 has substantially fewer grease points than competitive model machines.

For more information contact a local dealer or visit www.johndeere.com/ag.

Small-grain seeding flexibility

New, as optional equipment for 2015, John Deere has introduced the 1910 Air Cart, available with SectionCommand technology. Ryan Jardon, product manager for John Deere seeding, says company results show that customers can save as much as 6% on seed and fertilizer costs each year.

SectionCommand, the sectional control technology for the 1910 carts, reduces seed and fertilizer input costs by minimizing overlaps and skips. (The exact amount of

savings depends on field shape, field size and setup of section control software.) It is just one of many features designed to meet the changing needs of small-grain producers.

Ten different air cart models and configurations, with either two or three tanks and total capacities ranging from 250 to 550 bushels (bu.), are available. Fertilizer can be applied through the same chute as the seed or separately. Liquid center tanks are available on the 340- or 430-bu.-tank models. Tanks are a semi-translucent plastic, making them lightweight and corrosion resistant. There are six tow-behind sizes available and four tow-between options.

New for 2015, all 350-, 430- and 550-bushel carts now have a wirelessly controlled hydraulic conveyance system for easy maneuvering of the seed during fill and unload. Customers have the option to choose between an auger or conveyor system. A wide range of front and rear tire options are available to maximize flotation and performance.

For more information visit a local dealer or www.johndeere.com/ag.



Books & Looks

The American Association of Bovine Practitioners (AABP) has created *Castration and Dehorning Guidelines* for general guidelines for the castration and dehorning of beef and dairy cattle. The guidelines are meant to assist veterinarians and their clients in enhancing the welfare of cattle on beef and dairy farms by providing information on how best to approach dehorning and castration of calves.

The guidelines discuss age at castration and dehorning, proper chemical or manual restraint, different methods used to castrate and dehorn, and anesthesia and pain relief. Nigel Cook of the University of Wisconsin and AABP past president, stresses that these are guidelines only, not legislation. Cook says veterinarians should be leaders in providing the practices that are most appropriate on any farm or ranch.

Use of anesthetics or pain mitigation may include extra-label drug use as provided for in the Animal Medicinal Drug Use Clarification Act, and their use should be based on the judgment of the farm's veterinarian of record with a veterinarian-client-patient relationship (VCPR).

See the guidelines at http://aabp.org/about/AABP_Guidelines.asp.



John Deere 1910 Air Cart