



Agscent Breath can detect pregnancy in a cow as early as 16 days post-insemination. That's crucial for farmers with herds with hundreds of animals, as pinpointing precise delivery dates leads to better birth outcomes.

Breathalyzer Detects Early Cow Pregnancy

An entrepreneur in Australia has taken NASA technology and transformed it into a pregnancy test for cows that works by detecting compounds in cow's breath.

Bronwyn Darlington, a beef farmer from Carwoola Station, Australia, has a PhD in consumer psychology and behavioral economics. She founded Agscent to develop

high-tech solutions for agricultural problems. Breathomics (breath diagnosis) is a growing medical field for human diagnostics. Agscent is now applying the same technology to livestock. It has adapted what the International Space Station originally developed to work as an "electric nose" in space for detecting dangerous air contaminants to

Handy Tool Holders For Mowers And UTVs

Since Jim Hafendorfer was in his mid-20's and designed and built a 2-wheel sulky in his garage to track behind a commercial mower, he's been working at ways to make lawn care easier for professionals and homeowners. Three decades later, the sulky and other products fill a catalog for his business, Jungle Jim's Accessory Products, and include items handy for farmers, ranchers, and rural homeowners.

A couple of them caught our interest.

Backpack sprayers are popular for many uses like gardens, orchards, and landscaping. The Jungle Sprack holder adds to its versatility to mount on a trailer.

"The red frame is adjustable to fit any style of backpack sprayer," says Jennifer Hafendorfer, sales manager. With locking straps, it can also be secured to trucks, UTVs, enclosed trailers, and other equipment handy on the farm. It sells for \$100.

The Jungle Sheath is also handy to safely secure a chainsaw or hedge trimmer. Customers can add a padlock to the chain for extra security. The latest version has been enlarged to accommodate the sheath covering the bar and chain. It also sells for \$100.

Both are powder-coated and come with a 2-year weld warranty.

"We also have an open-door policy with customers," Hafendorfer says. She encourages people to contact her about any questions, problems, or ideas to improve things.

Jungle Jim's is in constant product

DIY Mosquito Catcher

We found this easy DIY overnight mosquito catcher from "Modern Milt" on Instagram.

He placed a screen on the air intake side of a running blower fan. To attract the mosquitoes, he put a small LED task/work light (similar to the DeWalt DCL 182 rechargeable task light) in front of the screen. He turned the lights off in the garage and returned 8 hrs. later to find the mosquitoes that had been buzzing around now stuck to the screen. He then vacuumed them up.

Watch the video on his Instagram page to see the catcher in action (www.instagram.com/p/CuaA32GABwH/).



Jungle Sprack holder allows a backpack sprayer to be mounted to most any vehicle on the farm.

development. They often design adapter brackets to make things fit to save the expense of buying a new holder. Check out the website for other products that hold gas cans, coolers, blowers, and storage systems for other tools. Dealers are located in many states, and products can be found on Amazon.

Contact: FARM SHOW Followup, Jungle Jim's Accessory Products, 550 O'Byrne Ave., Louisville, Ky. 40223 (ph 888-844-5467; www.junglejimsap.com).



detect pregnancy in cows.

The device, known as Agscent Breath, is placed over a cow's nose while being held in a cattle chute. It immediately begins analyzing her breath using nano-sensors to detect the chemical differences between pregnant and non-pregnant animals. Specifically, it measures the presence of volatile organic compounds (VOCs). Under the right conditions, users can get a result in just 15 seconds.

The standard practice for detecting bovine pregnancy requires an animal handler to insert their hand into the animal and manually feel for a fetus. This is time-consuming and dangerous, as an unexpected kick can lead to shoulder injuries. A breath test promises improved efficiency, reliability, and safety. It also makes it easier for livestock owners to choose which (non-pregnant) cows to

cull or plan out nutrient requirements for pregnant cows.

Today, Agscent Breath can detect pregnancy in a cow as early as 16 days post-insemination.

For now, the company estimates that each test would cost between \$2.50 to \$4.50, depending on the size of the herd. The goal is to make it part of the standard diagnostic tool kit of a livestock vet but also to simplify the technology to the point that anyone can take and interpret a reading.

Agscent Air is currently being tested on cattle operations throughout Australia. The device is scheduled to go to market by mid-2024.

Contact: FARM SHOW Followup, Agscent, 1644 Platte Street, Suite 400, Denver, Colo. 80202 (www.agscent.com).

Save Time And Labor With A Harvest Bucket

After 15 years of research and development, Phil Miller of Philip Harvest Products recently introduced a harvest bucket designed to cut down on labor costs and harvesting time. While the main focus during development was on harvesting sweet and sour cherries, it's also marketed to growers of coffee beans, plums, prunes, blueberries, nuts, and more.

The Philip Bucket is worn with a custom-made shoulder harness. The harness, which helps support the body evenly, has three stainless steel "D" rings that attach to the bucket. Carbon fiber rods extend out and support the canopy. The worker uses a Sawzall and hook attachment to shake fruit off the branches, down the canopy, and into the bucket in seconds. The sliding doors at each end allow the worker to easily remove the yield without removing the bucket.

The 29-in. by 13 1/2-in. by 8-in. 16-qt. capacity bucket can be purchased alone for \$79, plus S&H. The 3-pt. harness is available separately for \$39, plus S&H. The bucket and harness weigh just over 5 lbs. The bucket can also be purchased in a



Philip Bucket is worn with a custom-made shoulder harness. The harness, which helps support the body evenly, has three stainless steel "D" rings that attach to the bucket.

bundle, which includes an umbrella, hook harvester, and 3-pt. harness for \$439, plus S&H. The umbrella with six support rods weighs just over 2 1/2 lbs.

The harvest bucket products are manufactured in the U.S.

Contact: FARM SHOW Followup, Philip Harvest Products, Phil and Lynn Miller (ph Phil: 231-631-9149 or Lynn: 231-631-9150; sales@philup.net; www.philup.net).

Milk Tester Works In Real Time

Imagine being able to instantly test your milk, learn vital statistics, and possibly have the ability to prevent diseases before they occur. That's what the inventors behind MilKey, from Labby, Inc., intend to accomplish with the company's real-time milk testing kit.

Labby CEO Julia Somerdin says the company can measure just a single drop of milk to determine butterfat, protein, and somatic cell content. Labby's technology, created by two MIT alumni, uses light scattering, absorption, and fluorescence to determine the composition of tested milk.

Labby says testing can be done with a hand-held device that shows readings on the go, or with equipment that connects to milking units for totally automated testing. Either method allows farmers to test milk frequently and easily.

Both the hand-held and inline products interface with Labby's proprietary app and cloud software. Somerdin says that when the sensor detects flow from a cow being milked, the milk quality data is determined, and the results are uploaded to the cloud. The app dashboard gives the operator a comprehensive overview of test results right on the phone. Labby uses AI technology to analyze inputs and provide the data, which producers can use as trend analysis to manage herd health and identify possible health risk patterns in advance.

Labby is working to detect bovine



Labby, Inc. is producing handheld and inline automatic milk quality testing equipment that uploads data so producers can view results on a smartphone app.

mastitis, which can reduce profits for even the largest producers. With traditional monthly testing kits, producers often have a significant wait time before results are obtained. Labby is hoping to break that mold and offer producers instant results so infected cows can be treated sooner.

"Our goal was to bring lab-testing technology to the farms," Somerdin says. After a few impressive on-farm trials Labby received support from Dairy Farmers of America and began building more kits.

Contact: FARM SHOW Followup, Labby, 700 Massachusetts Ave., 3rd floor, Cambridge, Mass. 02139 (hello@labbyinc.com).