

Box Scraper Made From Junked Harrow

Wayne Beggs of Lincolnton, Ga., built a homemade box scraper for his tractor.

"To start off, all box scrapers are built the same, regardless of size," Beggs says. "You can't make adjustments, only raise or lower the scraper."

Beggs started by cutting a piece of angle iron off an old, junked harrow, 7 1/2 ft. long and 2 1/2 ft. by 2 ft.

"I drilled two 7/8-in. holes in the 2 1/2-ft. side, 5 in. center."

He bolted the angle-iron bracket to the inside of the drawbar, then used a large washer and a short pipe on the box scraper's hitch pins.

"I like the way it works, scraping the dirt from the side of the road back onto the road," he says. "It can be used on both sides of the tractor."



"I like the way it works, scraping the dirt from the side of the road back onto the road," says Beggs.

Contact: FARM SHOW Followup, Wayne Beggs, 3378 August Hwy., Lincolnton, Ga. 30817.



Single-pass grain harvesting and cover crop seeding using the CoverPro seeder.

Cover Crop Seeding From The Combine

Geringhoff is developing and testing a pneumatic cover crop precision seeder that attaches directly to its newer combine grain platforms. Built in conjunction with Kverneland, the CoverPro will place cover

crop seeds directly into stubble behind the platform. Harvesting and seeding can be completed in a single pass, saving time and eliminating trips across the field.

The CoverPro module uses two 450-lb.

Digital Tool For Pasture Management

Ranchers have never seen their grazing pastures as clearly as they can today with the RangeView digital platform from Envu Range and Pasture. Powered by satellite imagery and machine learning, the platform simplifies grazing management plans, tracks pasture health, and clarifies herbicide treatment decisions. Whether managing invasive brush or optimizing forage, the platform's real-time, data-driven approach saves time and effort, refining management strategies to deliver healthier soils and grasses, higher livestock production, and overall increased profits.

"RangeView helps producers create a grazing management plan that makes the most of your rangeland health and productivity while ensuring healthy weight gain for the herd with every rotation," says a company spokesperson.

A home dashboard provides centralized access to weather conditions, marketing data, and animal locations, supporting accurate decision-making.

RangeView uses Satelitycs' satellite imagery and machine learning to identify invasive species in pastures. Combining this data with Envu herbicides improves treatment plans, rangeland productivity and forage quality.



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A unique feature of the platform is Envu's commitment to environmental restoration. RangeView users who plan to apply certain Envu herbicides will see control of mesquite, huisache, cheatgrass and ventenata for 4 to 5 years when certain conditions are met.

Envu is offering a 45-day free trial to early sign-ups. Monthly subscriptions for the Grazing Management program start at \$10.

Contact: FARM SHOW Followup, RangeView Digital Platform, Envu Range and Pasture, 5000 CentreGreen Way, Cary, N.C. 27513 (ph 844-229-3721; rangeview.support@envu.com; www.rangeview.envu.us).

capacity seed hoppers mounted on the back of the header, one on each side of the combine feederhouse. Seed is fed through a hydraulically driven pneumatic distributor across spreader plates 1 1/2 in. apart. Air flow carries seed through tubes onto the ground, where it's raked by straight tines and then firmed into the ground with press wheels.

The system is designed to mount on new Gehringhoff 18 1/2 to 30-ft. headers, adding about 1,750 lbs. to the platform. Prototype testing was conducted in Germany in 2025, and design and testing work continue to ensure uniform seed placement at any header height.

The company says installing and removing the system takes about two hours. Full product details, specifications and prices will

be available after the company completes pre-introduction field testing in 2026.

A company spokesperson says the CoverPro is innovative and practical, representing a new approach to cover cropping. It gently works seed into the ground behind the header, capturing available moisture and better utilizing crop residue, thereby protecting the seedbed. Geringhoff says the system is ideal for large farms and custom contractors seeking higher equipment efficiency, lower costs and improved soil conservation.

Contact: FARM SHOW Followup, Geringhoff USA, 3405 Energy Dr., Saint Cloud, Minn. 56304 (ph 320-252-4633; info@geringhoff.com; www.geringhoff.com).

Soil Compaction Mapping In Real Time

Terraform Tillage plans to address yield-robbing compaction using real-time sensing. The five-year-old firm is best known for its SmartProbe System, which simplifies compaction mapping. The system includes a free SmartProbe app and a mounting kit (\$69.99) to attach a smartphone to a soil penetrometer.

"The app is simple," says Josh Jeske of Terraform Tillage. "You just manually type in the readings as you push the penetrometer into the soil. It creates real-time maps and reports of readings."

The SmartProbe system has gained significant popularity since its introduction in August 2023. Jeske reports that the free app has been downloaded by users in 36 countries and is used in agriculture and agroforestry, as well as in lawn and turf. He uses it to provide a tillage compaction mapping service in his home state of Iowa.

"We're seeing users in developing countries, as well as industrialized countries," says Jeske. "It's been used in large fields and by community gardens. We even had a user on a soccer field in Dubai."

Jeske is taking real-time compaction sensing to the next level. The soil entrepreneur has been developing a new system featuring a sensor placed in the coil spring housing of a tillage implement. It has the working name "Tillage Tuner."

"It took us about four years to get to a fully functional prototype," says Jeske. "We've

been testing it on our family farm, as well as on some other farms."

The Tillage Tuner delivers real-time soil compaction insights to the operator, enabling precise adjustments to tillage practices. The platform offers data logging, trend analysis and customized reporting.

He reports good results and interesting findings, triggering enhancements to the Tillage Tuner before it's even introduced.

"Soil texture and soil moisture have a really big impact on readings," says Jeske. "We're now working with a software developer to build out AI to pull in weather data for soil moisture and soil texture data, and combine it with the compaction data. From there, we can output a much stronger variable-rate tillage prescription."

He plans to have the new, smarter prototype ready for field testing this spring. He hopes to pilot the system in the fall, possibly with paying customers.

"There will be no acreage cap on how much it's used," says Jeske. "It could be used to



Readings are manually entered as the SmartProbe penetrometer is pushed into the soil, generating real-time maps and reports.

provide a service to others or just use it on the family farm."

One area he's particularly interested in is the impact of cover crops on soil compaction. Jeske has been working with Keith and Brian Berns of Green Cover (Vol. 44, No. 4) to evaluate more than 40 cover crop varieties.

"We're using the sensor to learn how cover crops can mellow out the soil at different levels," says Jeske. "I'll be sharing what we've learned at the No-Till Conference in July."



Tillage Tuner provides real-time soil compaction insights to the operator, enabling precise adjustments to tillage practices.

Jeske isn't done yet.

"We're working on sensing compaction at multiple depths in a single pass," he says. "The new system will be able to be mounted on a tillage implement or on the drawbar."

Contact: FARM SHOW Followup, TerraForm Tillage, 1707 21st St., Eldora, Iowa 50627 (ph 641-751-9200; jjeske@terraformtillage.com; www.terraformtillage.com).