FARMTECH



PRODUCT GUIDE

From data to decisions.

Everything your farm needs in one place: the soil under it, the weeds and rocks on it, and the platform that ties it together.

FARMDEFENDER

VERSION 1.0 | REVISED 2026-11-02



Doug Weist, President & CEO, FarmTech Solutions

WHO WE ARE

Built by people who farm.

FarmTech started on a farm in Montana, and that's still where we test. We run this gear on our own ground. If it doesn't work for us, we don't sell it.

Our own team builds the hardware, the software and the wiring, and support comes straight from the people who built it.

Three products built to work as one.

FarmIQ™

THE PLATFORM

All your farm data in, every prescription back out.

FarmDefender™

THE EYES

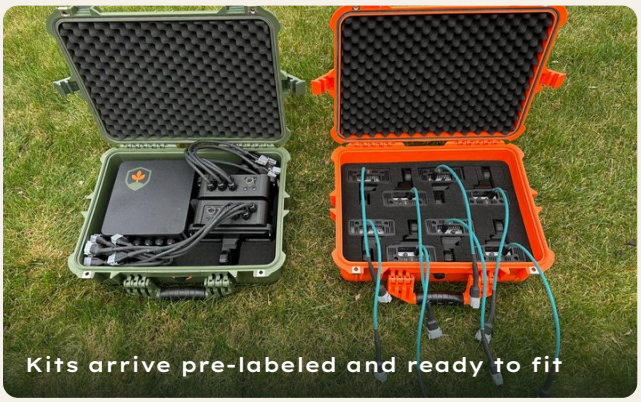
Cameras on your machine. Spot spray weeds. Map rocks at seeding.

SoilOptix

THE GROUND TRUTH

Soil maps at the resolution your equipment can act on.

Up to 90%	0	10 ft	$0
LESS HERBICIDE*	EXTRA PASSES FOR ROCKS	SOIL MAP RESOLUTION	PER-ACRE FEES ON KITS



Kits arrive pre-labeled and ready to fit

Direct from Montana

- One price per kit, what you see is what you pay
- Built and tested in Choteau before it ships
- You install it, and we commission it
- Every price is on the last page

*On fallow and pre-emergence passes. Results depend on weed pressure.

FARMIQ™, THE PLATFORM

All your farm data in. Every prescription back out.

Soil, satellite, machine, weed and weather data on one login, turned into maps and prescriptions your equipment reads.

Soil RX
Variable-rate prescriptions from your soil data, ready for the first pass of the season.

Crop RX
In-season variable-rate nitrogen, liquid or dry, plus pre-harvest weed maps.

Satellite monitoring
NDVI, NDRE and soil moisture all season, with crop-health alerts.

Spray and Tell
Tank mixes, label-verified rates and exact gallons per field, recorded while you work.

Long-term yield maps
Up to 14 years of history, built into relative yield maps for every field.

Machine data
Seeding, yield and as-applied maps from your equipment become your baseline.

Weed intelligence
FarmDefender detections become next season's spot-spray prescription.

Rock Map and Rock Picker
Every mapped rock on one map, with a phone route to each one for the whole crew.

Drone mapping
Fly your own drone or hire our pilot. Maps land in FarmIQ, in files your equipment reads.

FSA reporting
Acreage and crop insurance reports built from your as-applied data.

FarmLink
LTE or Starlink in the cab, and RTK corrections from a base on your place.

FarmTag
An NFC tag on every machine for the service log, filters and checklists.

Works with what you run
John Deere, CNH, Trimble, Topcon and Raven.

Your data stays yours
We don't sell it, aggregate it or share it. Take it with you any time.

$500 a year per farm
Not per machine. A free tier covers long-term yield potential maps and weather.



FARMDEFENDER™ ROCK

Map your rocks at seeding. Pick them before harvest.

0	Any	10 mph	Phone
EXTRA PASSES	BAR WIDTH	WORKING SPEED	ROCK PICKER APP

WHY IT MATTERS

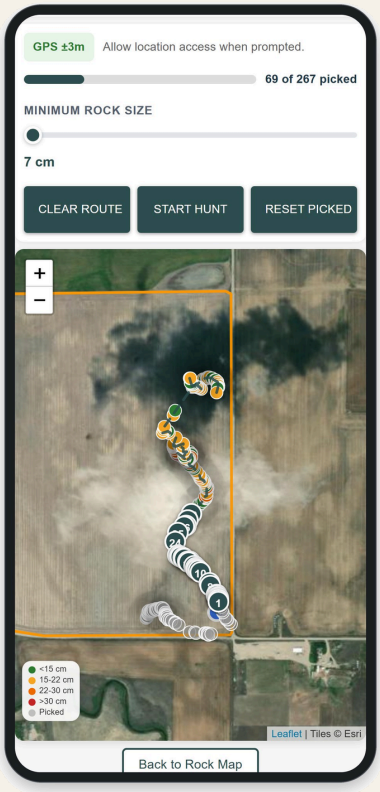
Rocks cost you twice.

A rock in the header hits at the worst possible time, in the narrowest window of your year. Then there are the days spent hunting rocks by eye, driving ground that was already clean.

FarmDefender Rock turns the pass you're already making into the survey. Your crew goes straight to the rocks that matter, right behind the seeder, while the ground is still bare.

HOW IT WORKS

1. **Seed or rip.** Cameras on the bar log each rock's size and GPS position.
2. **Set your size.** Filter the map to the rocks that matter to you.
3. **Pick from a phone.** Hit Picked and it's off everyone's list.
4. **Harvest clean.** A picked rock never meets the header.



The Rock Picker routes the crew from rock to rock on any phone.

FITS WHAT YOU RUN

Seeders and rippers, any width.



Live on a ripper in Saskatchewan, fall 2026



On an 84-ft seeder since May 2026



On the screen you already have

Rock kits run on your tractor's ISOBUS display, showing the count, size setting, GPS and cameras. Add a tablet in the cab for the live map. It keeps working with no internet, and maps upload when you're connected.

SIZES

Pick your bar.

20 ft	40 ft	60 ft	80 ft
6.1 M BAR	12.2 M BAR	18.3 M BAR	24.4 M BAR
2 cameras	4 cameras	5 cameras	7 cameras
$12,150	$18,450	$21,600	$27,900

Kit prices, US dollars. Rock kits assume cameras mounted 3 m (about 10 ft) or higher, and a lower mount needs more cameras. Any other width is priced the same way.

IN THE KIT

- Central Hub
- Depth cameras
- Labeled cables and GPS antenna
- Power kit off the implement plug

YOU SUPPLY

- Tablet or phone for the live map
- Internet for map uploads
- Camera mounts: we work out the positions with you



FARMDEFENDER™ WEED

Stop spraying dirt.

Up to 90%	1	10 mph	Any
LESS HERBICIDE*	NOZZLE AT A TIME	WORKING SPEED	BOOM WIDTH

WHY IT MATTERS

Chemical is your biggest controllable cost.

On fallow and pre-emergence passes, most of what you spray lands on bare ground. FarmDefender gives your sprayer eyes, so it hits the weeds and leaves the rest dry.

The same chemical budget goes further, and you finish with a record of every pass.

HOW IT WORKS

1. **Cameras watch the ground.** They scan across the boom as you drive.
2. **AI finds the weeds.** It spots green on brown, right on the boom.
3. **Only the right nozzle fires.** Everything else stays dry.
4. **Every pass is mapped.** See what you saved in FarmIQ.

What changes on your farm

Less chemical bought

On mostly bare ground, most of the tank is still full when you're done.

A record of every pass

Every weed and nozzle activation, mapped by GPS in FarmIQ.

The sprayer you already own

Cameras go on your boom and work with your PWM nozzle control.

*On fallow and pre-emergence passes. Results depend on weed pressure.



YOUR SPRAYER. NOW IT CAN SEE.

Fits the boom you own.

In the cab

See every pass on your tablet or phone: green where it sprayed, grey where it skipped bare ground. Rate and pressure are a tap away.

Day and night

The decision happens on the boom, with no cloud involved. Add boom lights and keep going after dark, at up to 10 mph.

SIZES

Pick your boom.

22 ft	60 ft	90 ft	100 ft	120 ft	132 ft
FD-22	FD-60	FD-90	FD-100	FD-120	FD-132
2 cameras	5 cameras	7 cameras	9 cameras	11 cameras	12 cameras
$22,050	$36,450	$45,450	$54,450	$65,700	$70,200

Kit prices, US dollars. Any other boom width is priced the same way. Up to 90% less herbicide on fallow and pre-emergence passes; results depend on weed pressure.

IN THE KIT

- Central Hub
- Weed cameras with on-board AI
- Labeled cables and GPS antenna
- Power kit

YOU SUPPLY

- PWM nozzle control: CapstanAg PinPoint III or ARAG FlowTron
- Boom mount kit
- Tablet or phone in the cab

Green-on-green: FarmDefender classifies what it sees, and that's what leads to green-on-green. It's a limited release today, trained per crop.

SOILOPTIX, THE GROUND TRUTH

Know your soil, 10 feet at a time.

A 10-by-10-foot soil map built from about 335 scan points per acre, turned into variable-rate prescriptions your equipment reads. We run the whole job.

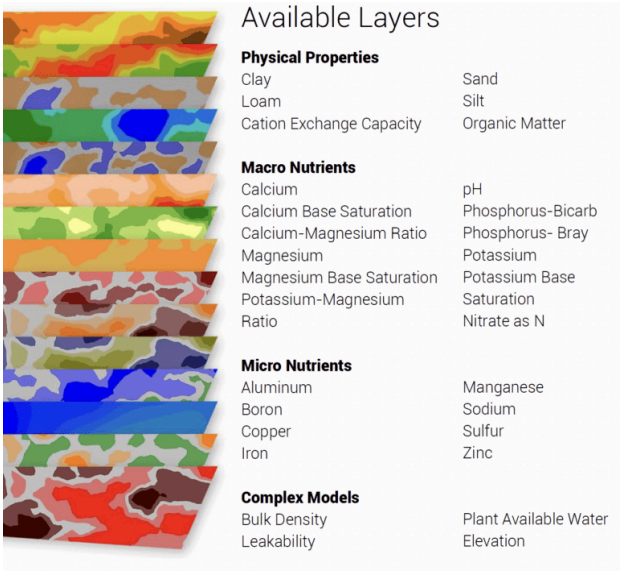
10 ft	~335	5	$12.50
MAP RESOLUTION	SCAN POINTS PER ACRE	CROP SEASONS PER SCAN	PER ACRE

HOW IT WORKS

1. **We scan your fields.** The scanner reads natural gamma radiation across every acre and tells us where to sample.
2. **We build your maps.** Scan data becomes 10-by-10-foot nutrient maps in FarmIQ.
3. **You get a plan.** Variable-rate prescriptions for seed, fertilizer and amendments, built from your actual soil.

What you walk away with

- High-resolution nutrient maps
- Prescription files for your controller
- A Soil Health Summary after every job
- All your raw data, in FarmIQ



Nutrients, organic matter, pH, EC, CEC and texture, layer by layer.

Scan almost any time

Only big snow drifts or ice stop a scan, and frozen ground is fine. Crop/fallow fields get scanned on the fallow, and irrigated or recropped fields right behind the combines. Prescriptions come as PDF, shapefile and ISOXML for John Deere, Case IH, New Holland, Ag Leader, Trimble, Raven and Topcon.

WATCH THE CROP

Eyes on the crop, from space and the air.

These run through FarmIQ, beside your soil maps and machine data.

In-season nitrogen

$3.00/acre

2026 program

Satellite nitrogen status by field, all season, at 5-meter resolution. Catch a deficiency while you can still fix it.

Satellite imagery

$0.25/ac

per season

NDVI, NDRE and soil moisture, with crop-health alerts. Add a calibrated nitrogen alert for $50 a sample.

Crop RX

$0.25–$2.50/ac

by map

In-season variable-rate nitrogen, liquid or dry, plus pre-harvest weed maps.

What the 2025 Montana trial showed

Half the nitrogen

Satellite-guided strips took 80 lb N/acre against 160 lb standard.

Comparable yield

Both treatments yielded comparable grain, and protein stayed above the 11.5% discount line.

$57 an acre saved

80 lb saved at $0.75/lb, less $3/acre monitoring. One trial; your results will vary.

DRONES

Fly it yourself, or hire our pilot.

FarmIQ drone mapping

$1.50/ac

Fly your own Mavic 3M and upload. We process it within hours, into weed Rx and other maps.

Drone pilot hire

$250/hour

Our certified pilots fly it and process it, and the maps land in FarmIQ.

INSIDE FARMIQ

Keep it connected. Keep it running.

FarmLink

Quoted

month to month

Broadband where you farm, and RTK from your own base.

- LTE or Starlink, matched to your coverage
- ±2.5 cm NTRIP RTK to any receiver with NTRIP input
- Consoles, laptops and cameras share the link
- Pay for the months your machines run

FarmTag

$10 a year

per machine with a motor. $5 for everything else

Tap the tag and the whole service history is there.

- Service log and maintenance reminders
- Filters matched to the shelf
- Daily checklists from any phone
- No app install, no per-scan fees

NOZZLE CONTROL

The hands behind the eyes.

FarmDefender Weed drives PWM nozzle control, nozzle by nozzle. We work with CapstanAg PinPoint III and ARAG FlowTron, and quote them for your boom.

GETTING STARTED

1

Tell us your machine, its width and how high the cameras can mount.

2

We lay out the cameras and quote your kit.

3

We build and test it in Choteau, about 4 weeks from order.

4

You fit it from our pre-labeled kit and guide, and we commission it.



PRICE LIST

Everything on one page.

FarmDefender Weed kits		
FD-22 UTV	6.6 m, 2 cameras	**$22,050**
FD-60	18.3 m, 5 cameras	**$36,450**
FD-90	27.4 m, 7 cameras	**$45,450**
FD-100	30.5 m, 9 cameras	**$54,450**
FD-120	36.6 m, 11 cameras	**$65,700**
FD-132	40.2 m, 12 cameras	**$70,200**

FarmDefender Rock kits		
Rock 20 ft bar	6.1 m, 2 cameras	**$12,150**
Rock 40 ft bar	12.2 m, 4 cameras	**$18,450**
Rock 60 ft bar	18.3 m, 5 cameras	**$21,600**
Rock 80 ft bar	24.4 m, 7 cameras	**$27,900**

Options		
Mapping kit	Control unit + 2 cameras. Upgrades into a full system	**$9,000**
Boom mount kit	SprayFlex and Marflex. Other booms quoted	**$1,500**
Starlink Mini + cab tablet kit	Optional, for connectivity in the cab	**$1,500**
Green-on-green crop model	Per crop. Fallow and pre-emergence detection is included	**$10,000**
FarmTag, machines with a motor	Per machine, per year	**$10**
FarmTag, everything else	Implements, trailers, tanks and bins, per year	**$5**

FarmIQ, soil, crop and drone services		
FarmIQ	Every year after the first, per farm	**$500**
SoilOptix scanning and sampling	Scan plus lab samples as a 10-ft map, good for five crop seasons	**$12.50/ac**
Soil RX, per nutrient	Unlimited variable-rate prescriptions each season	**$0.50/ac**
Soil RX, all maps	No combine yield data needed	**$2.50/ac**
Seasonal satellite imagery	NDVI, NDRE and soil moisture all season, with crop-health alerts	**$0.25/ac**
Nitrogen status alert	A farm-wide nitrogen map calibrated with lab tissue samples	**$50/sample**
Crop RX	In-season variable-rate nitrogen, plus pre-harvest weed maps	**$0.25–$2.50/ac**
Drone mapping	Fly your own Mavic 3M, upload, and get Rx maps in hours	**$1.50/ac**
Drone pilot hire	Our certified pilots fly and process it for you	**$250/hour**
FSA acreage and crop insurance reporting	Built from your as-applied data and field boundaries	**$0.25/ac**
In-season nitrogen monitoring	All-season monitoring and 5-meter nitrogen status maps	**$3.00/acre**
FarmLink, CapstanAg, ARAG FlowTron	Quoted for your operation	**Quoted**
FarmBoss	Your season against benchmarks	**Coming soon**

US dollars. Kit prices include the first season of FarmIQ, and never a per-acre fee. Kits ex-works Choteau, before freight, taxes and install. No Starlink or tablet in the kit. Prices subject to change. Current prices: farmtech.us/pricing.

Tell us your loudest problem.

Call or text **(406) 271-6400** | support@farmtech.us | farmtech.us

MADE IN MONTANA USA