



Autonomous Sprayers
GUSS · Herbicide GUSS





GUSS

Welcome to the future

GUSS sprayers solve the problems associated with spraying orchards, vineyards, and high-density orchards. Our self-driving sprayers make spraying faster, safer, and easier — row after row, field after field, day or night.

A solution to labor challenges

GUSS sprayers drive themselves. A single employee can monitor a combination of up to 8 GUSS machines at a time.

Enhanced safety

Eliminate human error, reduce exposure to materials being applied, and reduce need for PPE, shade, water, etc.



GUSS

Increased efficiency

Eliminate operator downtime and breaks, while increasing speed, consistency, and efficiency of application.

Ultimate precision

Precisely control application rates and sprayer speeds across entire fields and in variable terrain.

Autonomous technology

GUSS uses a combination of GPS, LiDAR, sensors, and software to guide GUSS sprayers safely and efficiently.

6' 4"



24'



8' 3" (standard option)
7' 6" (narrow option)
8' 4" (low impact option)

GUSS Specifications

GUSS uses proven, dependable parts that growers know and trust. Decades of experience in the spraying business allows us to choose designs and components that work.

Learn more at
our website:



Empty weight	11,660 lbs
Engine	John Deere 4.5L 173hp Stage V Diesel (Tier 3 available for export)
Fuel capacity	90 Gallon Fuel Cell (~13 to 14 hour run time)
Engine fan	Clean Fix Reversing Engine Fan
Drive type	4 Wheel Drive
Steering	4 Wheel Steering
Tires	380/85R24 (standard option)
	320/85R24 (narrow option)
	400/80R24 (low impact option)
Body	Stainless Steel Hood, Roof, Doors and Fan Housing
Material tank	600 Gallon Stainless Steel Tank
Fan	36" Direct Drive Breeza Fan
Pump	Myers 2 Stage Centrifugal Pump
Spray nozzles	32 Nozzle Spray Manifold with Individual Shutoffs

Learn more at
our website:





Herbicide GUSS



Herbicide GUSS

Spot spraying technology

Multiple weed detection sensors for precision spraying and minimal chemical usage.

Accommodates field conditions

Adjustable boom height and width with breakaway booms for various field conditions.

6' 4"



23' 6"



8' 4" Transport Width



15' - 19' Adjustable Width

Herbicide GUSS Specifications

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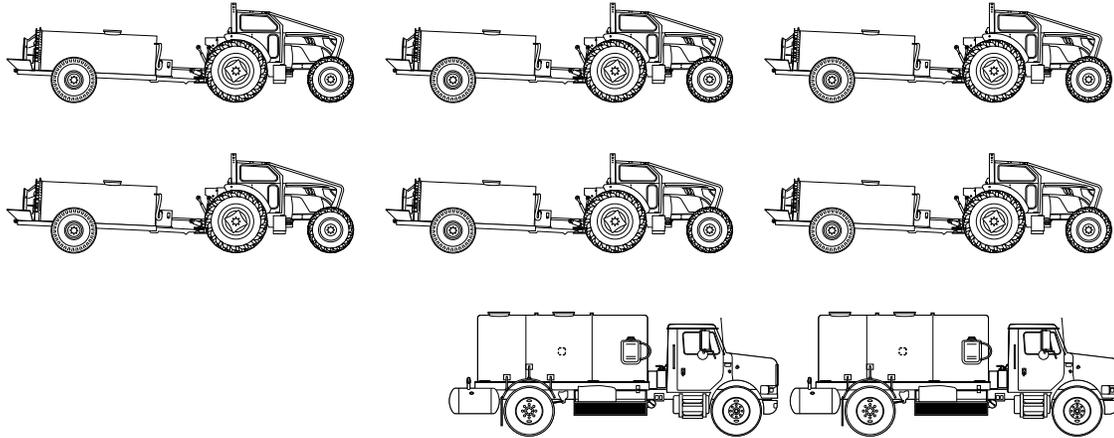


Empty weight	12,460 lbs
Engine	John Deere 4.5L 74hp Stage V Diesel (no DEF)
Fuel capacity	90 Gallon Fuel Cell (~13 to 14 hour run time)
Engine fan	Clean Fix Reversing Engine Fan
Drive type	4 Wheel Drive
Steering	4 Wheel Steering
Tires	380/85R24 (standard option)
	320/85R24 (narrow option)
	400/80R24 (low impact option)
Body	Stainless Steel Hood, Roof and Doors
Material tank	600 Gallon Stainless Steel Tank
Pump	Hydraulic Drive Centrifugal Water Pump
Spot spraying technology	Multiple Precision Weed Detection Sensors
Booms	Adjustable Booms for Various Field Conditions

Learn more at
our website:

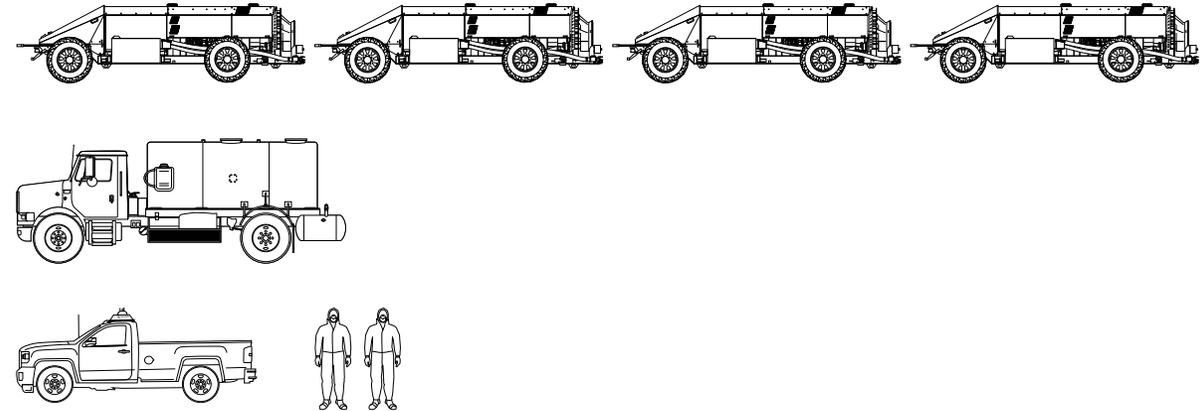


Conventional



- 6 conventional tractors
- 6 conventional sprayers
- 2 nurse trucks
- 8 workers with PPE

GUSS



- 4 GUSS sprayers
- 1 nurse truck
- 1 pickup with GUSS supervisor laptop
- 2 workers with PPE

Case study: GUSS sprayers at medium scales

At medium scales, GUSS sprayer benefits are readily apparent. As the above illustration demonstrates, GUSS sprayers require growers to purchase, utilize, and maintain fewer pieces of equipment — which immediately reduces overhead. Additionally, GUSS sprayers eliminate pain points traditionally

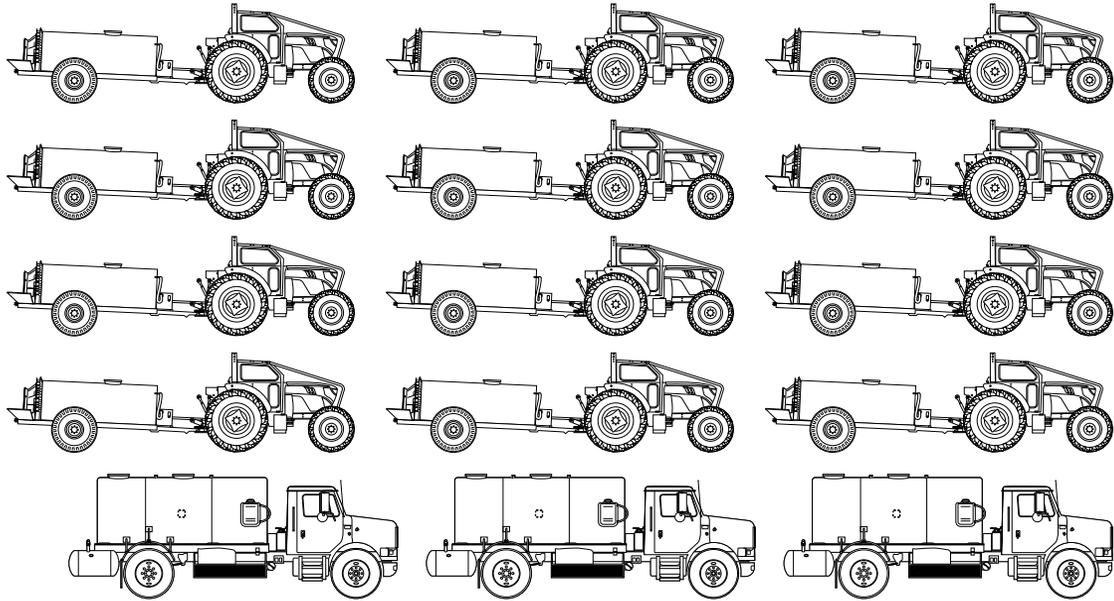
associated with laborers: lack of dependability, breaks and downtime, human error, supplying workers with PPE/shade/water, and labor inspections. By letting GUSS sprayers drive themselves, farmers can simplify operations, increase efficiency, and reduce dependence on unreliable laborers.

Best of all, a GUSS sprayer pays for itself. Most GUSS operators see ROI in one to three years.

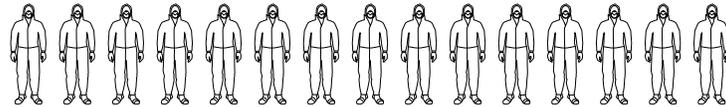
Let us show you how you can operationalize the benefits of GUSS:



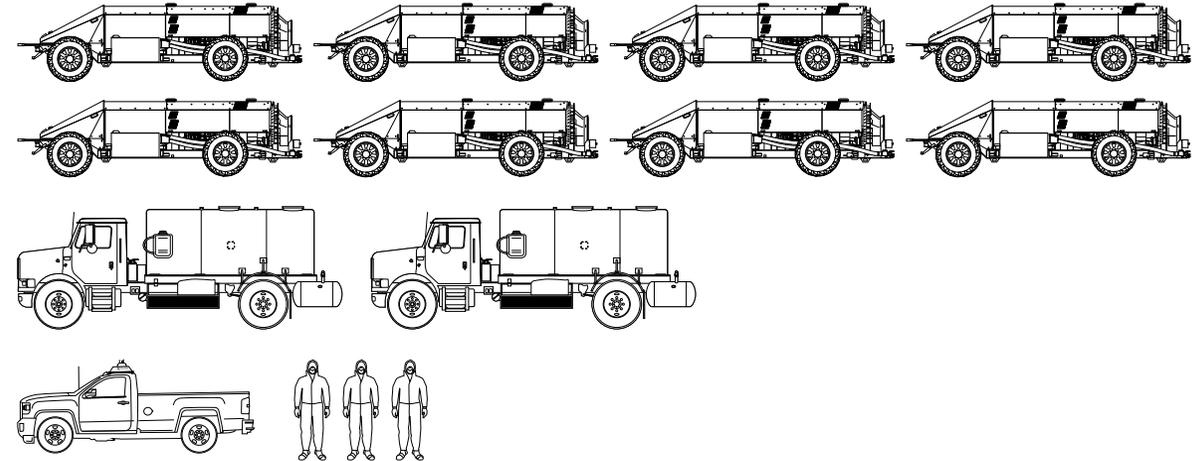
Conventional



12 conventional tractors
12 conventional sprayers
3 nurse trucks
15 workers with PPE



GUSS



8 GUSS sprayers
2 nurse trucks
1 pickup with GUSS supervisor laptop
3 workers with PPE

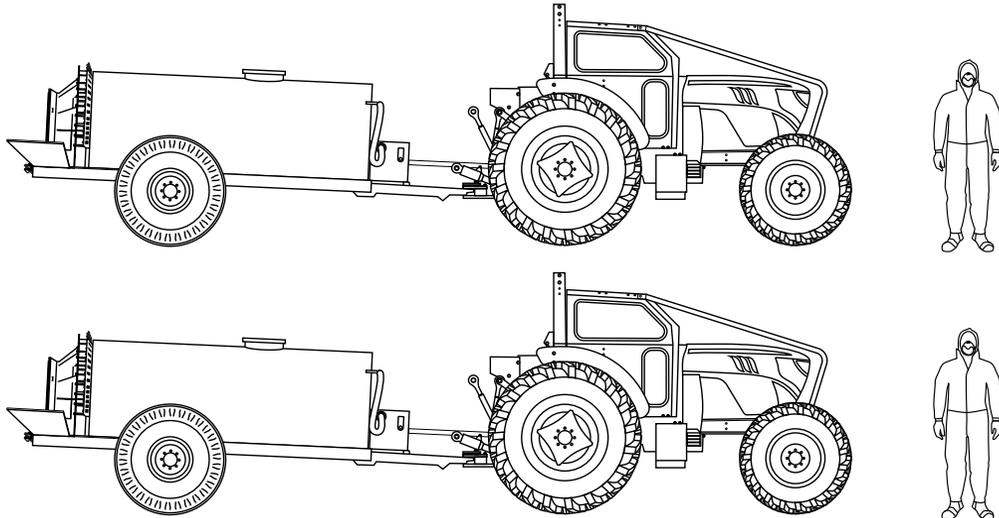
Case study: GUSS sprayers at larger scales

Spraying a large amount of acreage with traditional sprayers requires a lot of equipment — and a large labor force to operate it. Instead of focusing on farming, growers are forced to contend with labor-associated headaches (worker dependability, human error, PPE, shade, water, and labor

inspections). GUSS and Herbicide GUSS spray orchards with fewer pieces of equipment (cutting down on overhead) while reducing the need for traditional laborers. At nearly every turn, GUSS sprayers are a better orchard spraying solution for large-scale growers.

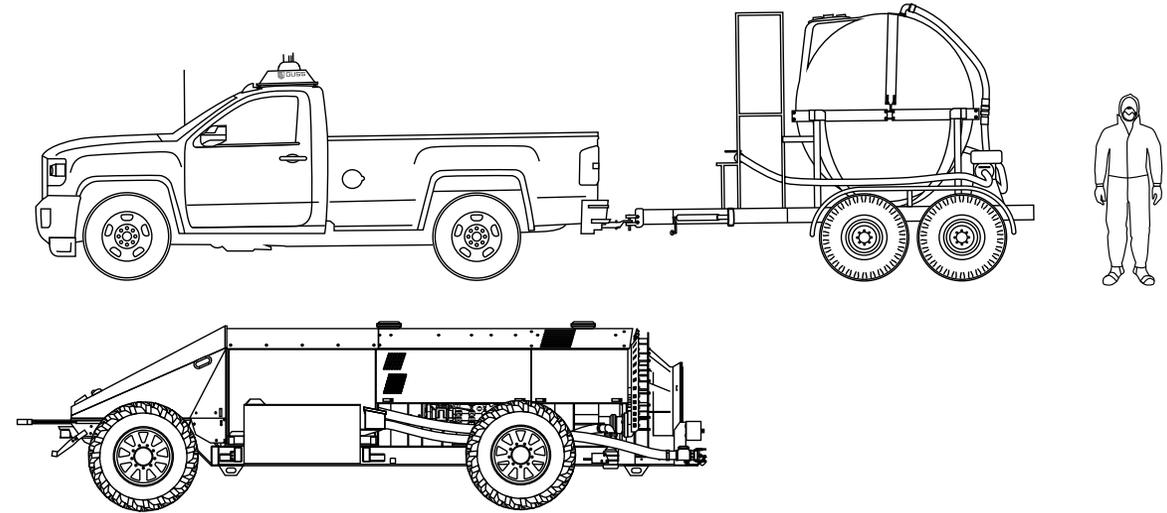
Let us show you how you
can operationalize the
benefits of GUSS:

Conventional



- 2 conventional tractors
- 2 conventional sprayers
- 2 workers with PPE
- Sprayers mix and fill at pump

GUSS



- 1 GUSS sprayer
- 1 pickup with laptop towing nurse trailer
- 1 worker with PPE

Case study: GUSS sprayer at small scales

Even at smaller scales, a GUSS sprayer makes good sense. A single employee can double his acreage everyday using a GUSS sprayer. How so? While the GUSS sprayer is out spraying, the operator is free to drive his pickup with a nurse tank attached behind him to the pump to mix more materials.

When full, he can return to the field and wait for the GUSS sprayer to stop for a refill — all while monitoring the GUSS sprayer on his laptop computer. When the GUSS sprayer is empty, he refills its tank and sends it on its way. A typical 45 minute downtime to refill is now reduced to just 3 minutes, and GUSS is on its way again!

Let us show you how you
can operationalize the
benefits of GUSS:



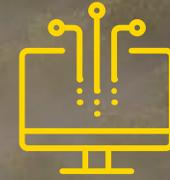
Map fields

Building a field map is a fast and easy process that can be done in the office. Then, complete the process with a quick on-farm visual check to “ground truth” the map. That’s it. The map can be saved and used for the life of the orchard.



Configure sprayers

GUSS sprayers must then be configured for the application they are to perform. Determine which spray nozzles to use and then configure GUSS’s software to set vehicle speed, engine RPM, pump pressure, material flow rate, and rows per refill.



Assign routes

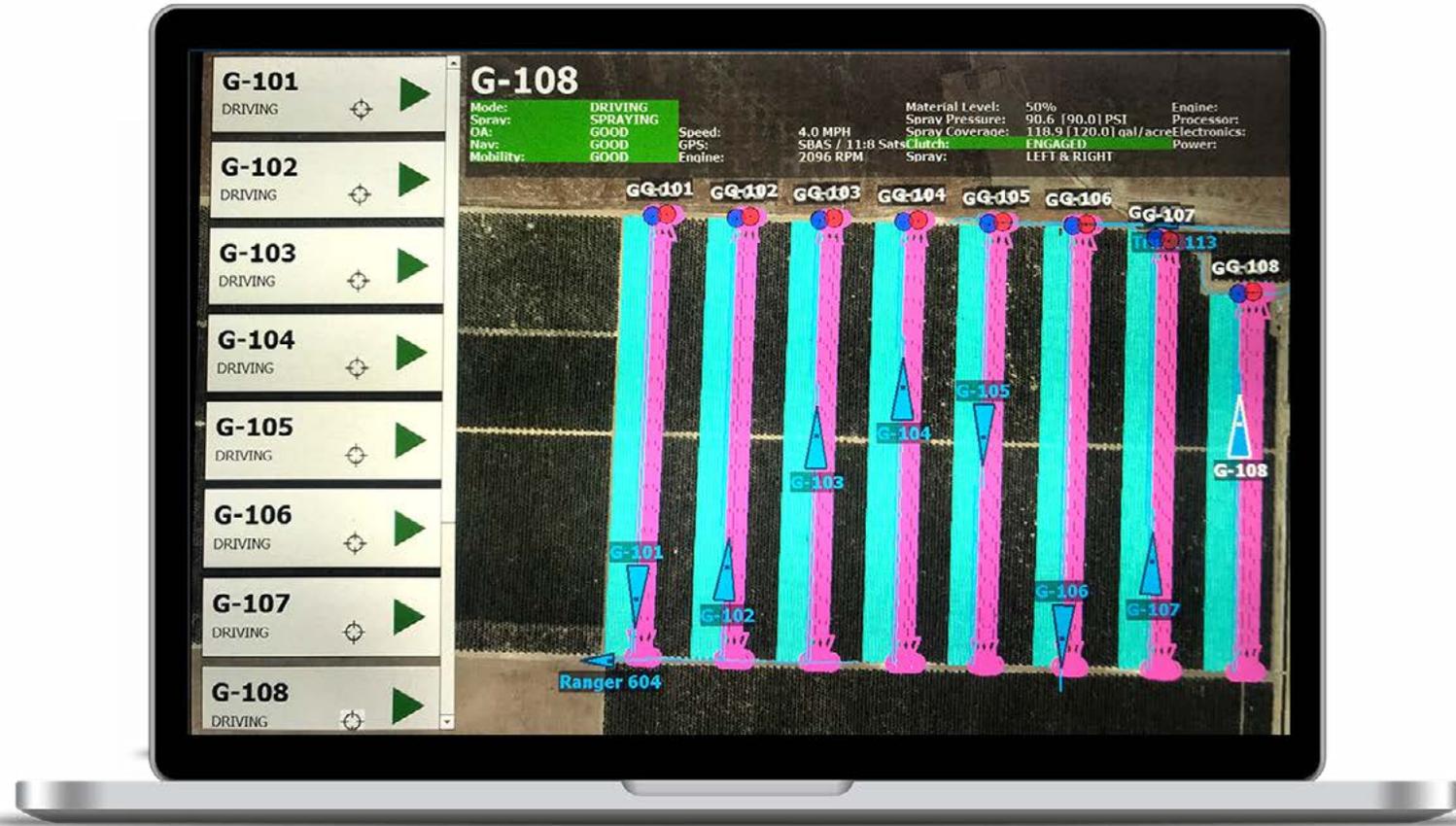
Lastly, assign a route to each sprayer to identify which rows it will spray. GUSS’s user interface includes a route generator tool to make this process fast and fail-safe.

Setup

GUSS sprayers’ navigation system is so easy to set up and use that most growers can be up and running in just a few hours. Initial setup follows an easy 3-step process. GUSS was designed to be operated by existing on-farm personnel.

Learn more at
our website:





Monitoring

A single operator can monitor a combination of up to 8 GUSS machines at a time from the comfort and safety of a pickup truck using a laptop computer. GUSS's user interface provides operators with important sprayer information (position, spray

rate, speed, etc.) in real time. In the event that an issue is detected on board a GUSS sprayer, the interface automatically sends both visual and audible alerts to the operator, directing his attention to the exact problem so

he can take quick corrective action and get back up and running.

Learn more at
our website:



GUSS has had a major impact on my farm by allowing me to do more with less. We get more acres done every shift due to less stopped and downtime. My dependency on labor and all the challenges that come along with it has greatly decreased. In my opinion, GUSS autonomous sprayers are the only way to go moving forward.

— Mike Carr
Five Star Farms





Made in the USA

GUSS sprayers were developed in the heart of California's Central Valley, which is home to much of the world's high value orchard crops such as almonds, pistachios, walnuts, citrus, and stone fruit. Each GUSS sprayer is proudly crafted by hand at our state-of-the-art manufacturing facility in Kingsburg, California.

Order your GUSS
sprayers today:





Dave Crinklaw – GUSS Founder
Gary Thompson – Marketing & Sales Manager, GUSS
Chase Schapansky – Engineering Manager, GUSS

About GUSS

GUSS Founder Dave Crinklaw formed his commercial spray business, Crinklaw Farm Services (CFS) in 1982, earning a strong reputation among California and Arizona growers for quality, service, and integrity. GUSS was developed to address common pain points in CFS's orchard spraying business and continues this long history of innovation.

GUSS Automation, LLC was launched to manufacture and sell GUSS machines, giving growers access to advanced technology that improves efficiency, precision, and safety. Our team is made up of ag industry veterans dedicated to bringing innovative solutions to the field.

In 2025, John Deere acquired GUSS Automation, marking a major step forward in autonomous agriculture and future technology development.



GUSS

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Order yours today

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