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CRINKLAW FARM SERVICES INC. AND CFS, LP UNVEIL THE FIRST UNMANNED AGRICULTURAL ORCHARD SPRAYER

FRESNO, Calif. (November 13, 2017) – Crinklaw Farm Services Inc. and CFS, LP are proud to introduce GUSS (Global Unmanned Spray System), the only robotic agricultural orchard sprayer offering precision application with the touch of a button. GUSS is fully automated, providing targeted, pinpoint application of pesticides and fertilizers more efficiently and safer than can be accomplished with manned equipment.

As the most advanced agricultural spraying system on the market, GUSS is equipped with a 173-HP Cummins diesel engine, a 600-gallon water tank, and a state-of-the-art electronics system. A combination of GPS, lasers, and other vehicle sensors provide GUSS’s guidance which safely drives the vehicle through the orchard rows. The unmanned sprayer integrates GPS field mapping with automation software to deliver precision application at the most consistent rate and speed possible.

GUSS’s innovative electronics system offers redundant safety features. The cutting-edge software creates custom field maps with built-in safety borders to ensure that GUSS stays on track. GUSS has obstacle detection laser sensors that cause an automatic shutdown when an obstacle is detected. The front bumper is touch sensitive and shuts the vehicle down if pressed. With front and rear steering, GUSS is surprisingly mobile with a 17-foot turning radius allowing uninterrupted pass after pass and eliminating unnecessary downtime. GUSS’s streamlined design allows it to navigate narrow orchard rows without damaging the crop.

GUSS’s comprehensive software allows for more accurate tracking of product application and produces detailed compliance reports for regulatory entities. The electronic tracking system eliminates over-spraying, minimizes waste, provides increased food safety, and allows growers to analyze product usage.

GUSS was designed to maximize application efficiency and accuracy on mid to large-scale farming operations consisting of almond, pistachio, walnut, citrus, and stone fruit trees.

Dave Crinklaw, CEO of CFS, LP stated, “Everybody is living with technology. GUSS takes that technology to the next level. Our vision is to have fleets of these machines in orchards with the grower being able to monitor exactly what is being put on in a very safe, precise manner. It’s never been done like this before.” GUSS will make its debut in February 2018 at the 2018 World Ag Expo at the International Agri-Center in Tulare, California.

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Founded in 1982, CFS, LP has built a respectable reputation based on the highest ethical, conscientious business standards; qualified, experienced staff; and reliable, efficient equipment, satisfying customer’s needs while enhancing growers’ earnings. CFS, LP offers diverse agribusiness services that are provided throughout the Central San Joaquin Valley. CFS, LP is a versatile, innovative organization that provides services ranging from full service commercial pesticide, herbicide, and fertilizer application for trees and vines to mechanical grape harvesting, machine vineyard pruning and soil amendment spreading.