

Operator Aid System (OAS)

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The operator aid system was developed to monitor bug vacuum and spray rig operational factors, including but not limited to tractor speed, implement height, airspeed of the vacuum fan, and the nozzle pressure of a spray rig. The system also incorporates LED indicator lights that are installed on the tractor to assist drivers in maintaining the recommended operating parameters. Preliminary results indicate that this system can be beneficial in enhancing the efficacy of the bug vacuum for eliminating Lygus bugs and spray rig coverage and uniformity. An infographic of how OAS can be used on farm is shown in below (Fig. 1).

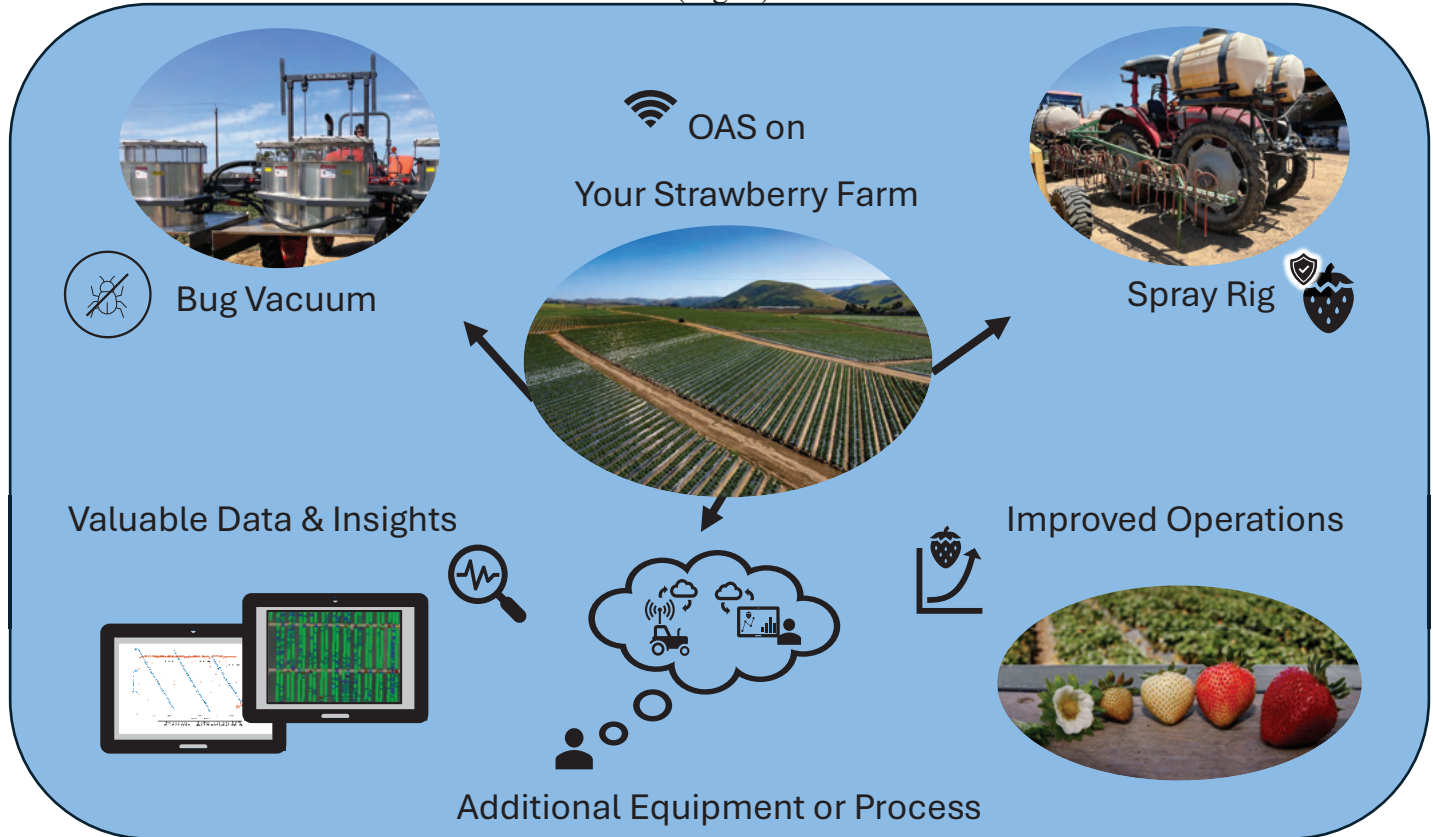


Figure 1. Infographic of a farm utilizing OAS's to monitor bug vacuums and spray rigs to improve pest and disease management.

An example of a spray rig OAS is shown below (Fig. 2).

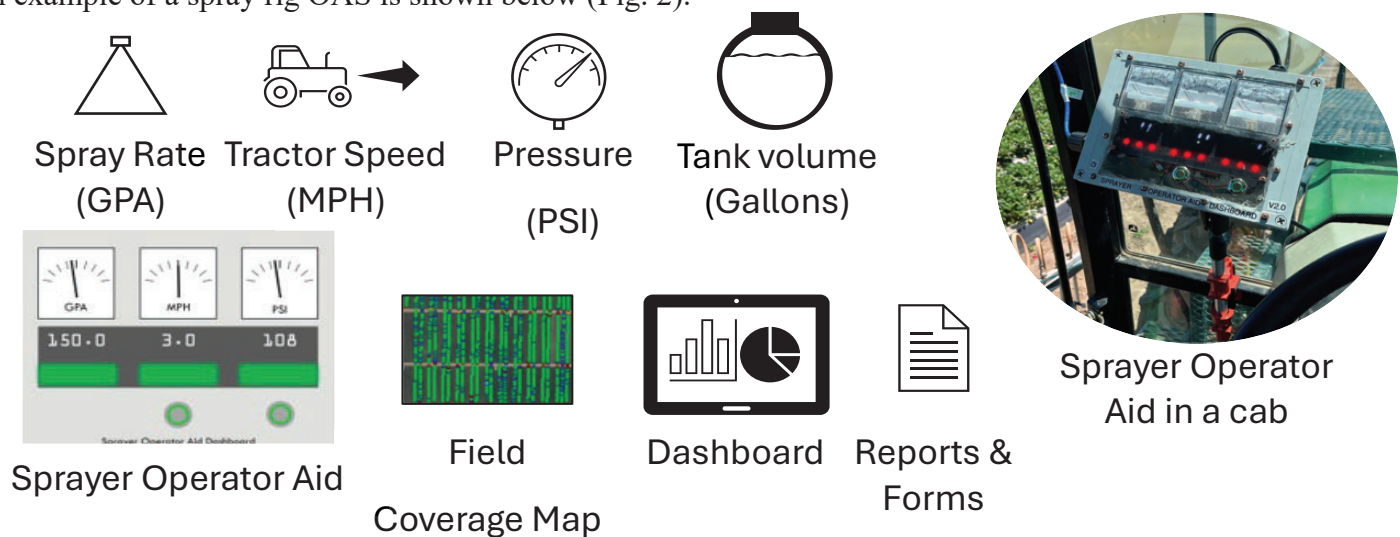


Figure 2. The spray rig OAS (shown in the rightmost image) provides monitoring for your spray operations. Spray application parameters are displayed on gauges and indicators. Afterwards, a report is generated showing spray coverage on a field map.