



BROADWATER
— SYSTEMS GROUP —

Architecting Operational Advantage.

GRAIN, HAY & IRRIGATION

Wake Up Knowing Your Pivots Ran.

Pivot motors fail at the worst possible time. End-guns get stuck. Pressure faults stop a pass mid-circle and nobody knows for hours. Hay cuttings get rained on because the producer was relying on a forecast for the next county over. BSG deploys industrial-grade sensors that watch your operation continuously and tell you what needs attention — in time to do something about it.

The Problem We Solve

Producers running grain, hay, and irrigated row crops face the same cycle every season:

- A pivot motor fails on the third hottest day in July. The replacement is back-ordered. You lose a pass on your most water-sensitive crop.
- Driving the section road every morning to confirm that yes, all six pivots are running, and no, that one over the hill that has acted up all summer didn't shut off again overnight.
- Cutting hay based on a regional weather forecast that's accurate within 30 miles, when your specific field gets a different weather pattern off the Big Belts.
- Legacy pivots from the 1980s and 90s that still work mechanically but have no telemetry — retrofitting them through the manufacturer means buying their proprietary hardware at premium prices.
- Greenhouse starter operations losing \$5,000 worth of plants in a shoulder-season heat-stress event because a heater ran with a fan left on, and nobody knew until morning.

What BSG Deploys

Sensors targeted at the failure modes you actually deal with:

- Pivot motor health monitoring. Vibration and temperature sensors on motor housings detect early-stage bearing wear, gearbox issues, and overheating before catastrophic failure. Get a heads-up two weeks out instead of a phone call from the field hand at 4 AM.
- End-gun status, position, run/stop, and pressure-fault detection. BSG retrofits legacy pivots with sensors that report what the original control panel never did — without forcing you onto a proprietary platform.
- Pivot tire monitoring for those wheels that are always going flat. Catch low pressure before the pivot starts rutting your field.
- Field-specific weather stations. Real-time temperature, humidity, wind, and rainfall data from your fields, not the regional forecast. Time hay cuttings to your conditions.
- Greenhouse environmental monitoring. Temperature, humidity, soil conditions — with configurable alerts that fire when a heater overheats your starters or a freeze threatens your propagation.
- Grain bin temperature and moisture monitoring. Early detection of spoilage hot spots before they cost you a load.
- Soil moisture stations. Inform irrigation decisions based on what your soil actually has, not what the irrigation schedule says.

What It Tells You

- Live status on every pivot, every weather station, every grain bin. One screen, every asset, real time.
- Alerts routed to the right person automatically. SMS to the field hand, escalation to the operator if not acknowledged. No more crossed wires about who's checking what.
- Equipment performance baselines over time. The system learns what "normal" looks like for each pivot motor, each field weather pattern, each grain bin — and tells you when something drifts.
- Historical reporting. Document irrigation hours, environmental conditions during critical growth windows, equipment runtime for warranty claims.
- Map-based site visualization. Every pivot, every field, every sensor pinned to its real-world location.

Investment Range

Ag pricing is per-asset where it makes sense and per-site for whole-operation deployments. Transparent. Real numbers.

Deployment	Typical Install	Monthly Service
Per legacy pivot (monitoring only)	\$1,800 – \$2,800	\$79 – \$149
Per pivot enhanced (motor health, end-gun, position, pressure)	\$3,500 – \$5,500	\$149 – \$249
Field weather station (hay producers, dryland)	\$2,500 – \$4,000	\$79 – \$149
Ranch-wide deployment (multiple pivots + fields + grain bins)	\$12,000 – \$25,000+	Custom quote

Per-pivot installs include sensors, mounting hardware, gateway capacity allocation, commissioning, and operator training. ReinCloud, FieldNet, and similar OEM monitoring solutions typically run \$50–\$150 per pivot per month with dealer-mediated install pricing. BSG offers transparent pricing and works with your existing legacy pivots — no new control panel required. Travel within 50 miles of Townsend included; distance surcharge may apply beyond.

What You Keep

- Pivots that don't blow up. Predictive motor failure detection means scheduled repairs, not field emergencies during peak irrigation.
 - Cuttings that don't get rained on. Field-specific weather data means timing decisions based on your conditions, not the next valley over.
 - Legacy pivots brought into the modern era. Monitor and alert on equipment built before telemetry existed — without buying a new control panel.
 - Greenhouse losses prevented. The \$5,000 you don't lose to one heat-stress event pays for the system several times over.
 - Less windshield time. Operators stop driving the section road every morning to verify what the system already knows.
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Schedule a Site Walk-through

BSG site visits are no-pressure. We come out, walk your operation, listen to where the pain is, and tell you honestly what monitoring would help and what it would cost. If the answer is no, we'll tell you that too.

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