

News, offers and updates.

Ben Burgess Connected News



Farming in 2021 with Precision Ag

PROFIT FROM INSIGHT

HARVEST 2020 ROUND UP

This farming year has been one of the most challenging we can remember, and I read an article recently that summed it up rather well. It was from a new modern farmer trying to make his name in our challenging industry - Mr Jeremy Clarkson "All God has done this year is thwart his attempts to successfully grow crops, throwing all his might into rain, drought and cold. He gave us the wettest autumn since 2000, the wettest February on record, the driest May on record and then, for good measure, the coldest July since 1988. He's fried my crops, frozen them, drowned them and then drowned them again."

With all the challenges the weather and Covid-19 brought to us this year, for Ben Burgess harvest came and went for us quickly and hassle free. Our combines performed very well, and we had no major failures across the group and parts supply from John Deere was, as usual, excellent. A big focus for us this year has been the collection of yield data and our Precision Ag team have managed to capture and create maps which cover over 121,000 hectares. With the new John Deere MyOperations app live, yield data has never been so accessible. We are noticing how valuable it is becoming to customers which is highlighted by the numerous conversations we have had this year over the variability in yield with soil types. Many people have used this data to amend or adjust their drilling plans to assist in maximizing next year's yields.

As we look forward we are keeping our fingers crossed for kinder weather and better drilling conditions this Autumn, and hope for a much better start to the 2021 farming year.

- Jimmy Lockhart, Aftermarket Solutions Director



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CASE STUDY

CHIVERS NEW S785 COMBINE

Testimonials by Alistair Farr and Timothy Clifton

Farm Facts

- Chivers Farms, Hardwick, Cambridgeshire is a Sentry managed farm.
- 1100ha 9m controlled traffic farm on heavy land.
- Equipment:
 - 2020 John Deere S785 with combine advisor package, auto maintain, harvest smart, active yield, terrain compensation, machine sync. Flex Draper 30ft header
 - 2019 6175R with automation activation was used on 20T chaser bin
 - 2019 John Deere 962i powspray sprayer with twin select and passive implement guidance
 - Quadtrac 550 using a John Deere AutoTrac controller.
 - Main implements are 9m Farmet cultivator, Simba cultipress and, 9m Pottinger drill.
 - All machines have BBRTK guidance and Ben Burgess Precision Ag support packages

"This was the farm's first year of running a John Deere combine and changing brands can always be a difficult decision when going into the unknown. However, we have been thoroughly impressed with the whole John Deere experience. Every extra has been added to the combine and the technology has worked out excellently for us, and has provided us with incremental gains in performance. Obviously it is a busy time on the farm but with the harvest data automatically collated in Operations Center, via wireless data transfer, I can quickly see on my phone what is going on with harvest and yields whilst I'm busy tied up elsewhere with other tasks. The Ben Burgess RTK signal has meant that I can be assured that the combine and chaser bin have kept exactly where their supposed to be. MachineSync enables the combine to control the chaser bin which has proved to be a great addition to the harvest season. The system controls the chaser bin automatically from the combine and as the combine speed adjusts, so does the chaser bin meaning no spilt grain which is very useful with inexperienced operators or in dusty conditions. Also the chaser is so big you cannot really tell where the back is, usually meaning the combine must slow down to fill all of the bin, this system has kept the combine running at optimum performance for every load"

Alistair Farr - Farm Manager



"I am very impressed with the performance of the machine and if it were not for our controlled traffic, I think we could have run a larger header. The 35ft Flex Draper has been phenomenal, I was harvesting peas with the header on the deck at 10k! it fed in beautifully, no way could that of been achieved with a standard header with lifters. MachineSync has been great, with me being able to position the bin where I want it rather than the operator filling the middle, or the thinking its 3m longer than it really is means I can keep harvesting at the combine's peak performance without worrying and watching the filling of the chaser whilst trying at the same time to watch the header. Also, around curves on the headland it always keeps the chaser the correct distance away from the combine. There has been no human error this year from unloading and no spillages!! The active yield has accurately recorded all the yields of all the fields, no time wasted in calibrating the mass flow sensor which, let's be honest, was probably only done a few times a season; this system weighs every load which is very important when working out the true cost of operations carried out. Harvest Smart has been great combined with Auto Maintain, this has kept the combine running at peak performance day and night. Once set it will keep grain loss and grain quality at those predetermined levels, adjust forward speed, sieve settings, fan speed, rotor speed and concave clearance all based on the cameras on the return elevator, clean grain elevator and loss monitors. It kept these throughout the changing conditions for the full duration of harvest, and I could virtually forget about the sample or losses as the system truly takes care of itself. I turned it off one day just to see what was occurring and was amazed on what the system did compared to having to manually adjust settings throughout the day. I ran the combine at around 0.8% loss as anything less can be inefficient due to cost of operation and the value of the grain. Although slightly sceptical at first on how these technologies would perform, I would not want to be without them now, they just made the long days less tiring.

I would mark this combine 10/10 if asked, genuinely!!"

Timothy Clifton - Assitant Manager, Combine and Spray Operator

Thank you to Alistair Farr, Timothy Clifton and Glenn Norman of Chivers Farm.

GEN 4 DISPLAY 20-2 SOFTWARE UPDATE

The latest John Deere display technology is available with 20-2 software. Here are just some of the new features available:

- The system will no longer automatically re-enable turn predictor based on certain operator actions (for example, operator out of seat, power cycle, etc). From the Guidance Application Advanced Settings page, use the toggle button to enable or disable turn predictor. When turn predictor is enabled, the turn predictor icon appears on the map which can be used to access Turn Predictor Settings and turn off turn predictor using the toggle button. The turn predictor symbol is not displayed on the map when turned off.
- Layout Manager now allows creation, editing, importing and exporting of multiple run page sets on Generation 4 displays. In addition, multiple shortcut bars can also be created. When a run page set is created or edited, the operator can select which shortcut bar they want to use with the run page set. This allows an operator to customize and save run page sets and shortcut bars for specific field operations. The active run page set can be changed by selecting the green title bar on the top of any run page.
- Load totals can now be customized to show specific values that an operator would like to see during harvest. If more than three values are available to be displayed, then an operator can choose which values they would like to be shown. An operator can select the edit columns button to customize the displayed values. If three or fewer values are available to be displayed, the edit columns button will not be shown, and all available values will be displayed.

Connected machine? You can now download the new software remotely!

Learn more about the Gen 4 display, watch demos and learn tips and tricks on our Ben Burgess YouTube channel: youtube.co.uk/benburgess

MANDATORY STARFIRE UPDATES

As John Deere continues to develop new technology, StarFire™ Network changes were necessary to support the addition of new satellite constellations and additional enhancements. This required the introduction of a new signal.

StarFire™ 6000 and StarFire™ 3000 receivers must be updated to the 20-2 software update to continue operating on the new signal. Update all receivers prior to February 1, 2021 to avoid any interruption in function.

StarFire™ ITC receivers will not function on the new signal beginning February 1, 2021 but will continue to operate in WAAS, EGNOS, or Non-Diff (depending on location) until approximately 2026

JD CONNECT MOBILE APP

FREE OF CHARGE

JD Connect utilises an Apple® iPad® tablet in the cab and helps the operator work with confidence.

The app is compatible with John Deere planters that are equipped with a wireless data server, as well as John Deere sprayers and combines equipped with a 4600 CommandCenter™ display.

May updates include:

- Avoid costly downtime with flag proximity notifications
- Ability to view the location of other machines in the organization
- Ability to view tillage layers in Past Data when using the Dual Mapping feature
- More details for single product and tank mix layers
- Connect Mobile now compatible with 30 Series Sprayers equipped with a 4640 Universal



MYJOHNDEERE FOR CROP ANALYSIS

After field work is done, Operations Center provides the possibility to create some very useful agronomic reports, these can be generated in the MyOperations app and in Operations Center.

How this can help you...

- Increase ability to evaluate operational profitability
- Efficiently manage product inventory
- Enable simpler government regulatory reporting
- Export information to a spreadsheet program for sorting and additional analysis

The variety of reports available can be used to communicate the right information to the right stakeholders...

- MyOperations Analyze tab export allows you to filter and sort your view of data points for an operation type for a specific crop and year, its available for seeding/planting, application, harvest and tillage
- MyOperations field reports at the field and operation/event level from the Map tab in MyOperations, you can also add an operator name and license to the report

EXACT APPLY

John Deere's exclusive ExactApply intelligent nozzle gives maximum versatility

The ExactApply nozzle system from John Deere combines the benefits of Pulse Width Modulation (PWM) spraying with automated nozzle switching to give you maximum versatility from your sprayer. PWM with ExactApply breaks the fixed relationship between Application Rate and Pressure, allowing you to set the droplet size for maximum coverage or drift reduction, while still operating at widely variable spraying speeds. Pulsing the nozzles On and Off up to 30 times a second (30hz) ExactApply quickly adjusts the duration of the pulses (aka Duty Cycle) to maintain highly accurate application rate control, while switching every nozzle individually to reduce overlaps or misses to the absolute minimum. To help prevent grass weed problems in corners or when turning around obstacles, Turn Compensation adjusts the output on every nozzle individually, ensuring perfect application across the whole boom. ExactApply also provides fingertip selection between two nozzles which allows rapid switching between coarse and fine nozzles, or between conventional and liquid fertilizer nozzles, for increased productivity through the season. ExactApply is both designed and manufactured by John Deere.



New R700i trailed sprayer - small size, big features

Compact sprayers with Premium features: that's the new R700i-series from John Deere. Based around the extremely reliable 700-series platform, with tank sizes of 3200-litres and 4000-litres, and with booms from 18 to 30m wide, the R700i brings new levels of productivity and accuracy to farms up to 500ha (1200ac). The PowrSpray solution system, leveraged from John Deere's self-propelled models, offers filling speeds up to 600l/min for a fast turnaround, plus the unique Active Pause function allowing relaxed chemical induction without a race against the filling tank. A new Solution Command panel and waterproof display show volumes in the solution and clean water tanks to +/-1% accuracy while allowing full sprayer control of filling, automated agitation, or multi-cycle rinsing, from the ground. In the field, the lightning-fast Direct Rate control of the 750l/min spraying pump delivers a proven 98%+ application rate accuracy, almost eliminating over and underdosing. For the ultimate in precise application, a John Deere designed and engineered Individual Nozzle Control system accurately switches each nozzle in turn, preventing overlaps or skips, while also allowing advanced practices like spot spraying. In the cab, a re-engineered Multi-function controller works in conjunction with a John Deere display to offer you real Green on Green benefits including automated documentation, map-based spraying and even frustration-saving automation of the smooth proportional steering system when reversing into corners. The new R700i sprayers from John Deere prove that good things can come in small packages.

Words by Mark James, crop protection specialist for John Deere UK.

GATEKEEPER UPDATES

Importing John Deere Gen 4 As-Applied Data

In the July 20 update, we delivered integration with the John Deere Gen 4 Controllers to import both Forage Harvesting and Yield Harvesting data. The ability to import As-Applied data operation types (actual work such as Spraying, Spreading, Drilling and Tillage operations) is included in this update.

MyJohnDeere API Improvements

In addition to the Gen 4 work, a number of changes have been made to the way that John Deere data is imported as follows; John Deere data can be imported direct from MyJohnDeere. Data from all generations of device can be stored in MyJohnDeere. Now, when data is downloaded, only the appropriate data type is downloaded for each Device, eg Gen 3 or Gen 4.

The Download window can now source and display all available files of that device type that are present on the MyJohnDeere account rather than the last 10 files available. Data downloaded from MyJohnDeere will be automatically archived within your MyJohnDeere account and prevented from being re-downloaded and duplicated in Gatekeeper.

Device Import Improvements

It is now possible to set a default machine width for all devices. This is necessary in the event of the width being missing or incorrect in the import file as width is required for import to be successful. This option is found in the Device tab of the selected device. Gatekeeper can now handle 1024 sections of data (previously limited to 64), ensuring that it is fully capable of importing nozzle controlled sprayer data.

'Farming for the future'

NEW PRODUCT HUMMINGBIRD SATELLITE IMAGERY

Who are Hummingbird?

Hummingbird Technologies is a British remote sensing and artificial intelligence business. Using drone and satellite technology along with their own machine learning algorithms, Hummingbird provides growers and agronomists with a suite of crop specific insights to inform management decisions and deliver actionable insights directly to the field.

What do they do?

Hummingbird analysis and application plans allows users to;

- Inform better and earlier decision making
- Optimise inputs eg. chemicals, fertilizer, seed
- Protect and increase yields
- Improve efficiency and sustainability through targeted applications



The platform and satellite imagery also enables users to rank fields on a leaderboard system and benchmark fields to compare their performance over the season. Hummingbird now has an API link with John Deere Operations Center enabling application plans to be sent seamlessly from the Hummingbird platform into your account and into the equipment making that application via your JD Link.

PRE-EMERGENCE HERBICIDE TOOLS

Identify areas of high weed pressure within a field. Target applications reducing product spend and environmental impact.

VARIABLE RATE SEED

Using historical NDVI analysis of fields to assess success of crop establishment and crop performance to inform seed rates, creating an even homogeneous crop.

GREEN AREA INDEX MAPPING

Accurately measure the Green Area Index of OSR crops to tailor autumn and spring PGR requirements and Nitrogen inputs for optimum canopy and maximum yield.

VARIABLE RATE NITROGEN PLANS

Target Nitrogen applications according to crop biomass to maximise input efficiency

PRODUCT OFFER

VARIABLE RATE SEED £14/HA INCLUDING WEEKLY ROLLING SATELLITE IMAGERY THROUGHOUT THE SEASON, LEADERBOARD & COMPARE FIELDS.

FOR MORE INFORMATION PLEASE CONTACT YOUR PRECISION AG CONSULTANT OR CONTACT HUMMINGBIRD QUOTING 'BEN BURGESS VR SEED'.

GREENTRONICS RITEYIELD MAPPING FOR ROOT CROP HARVESTERS

"If you can't measure it, you can't manage it."

High value vegetable and root crops require the best of management. To measure the results of short and long term management decisions yield data is essential. The RiteYield system is specifically designed for root crop and vegetable harvesters. RiteYield technology from Greentronics makes it possible to install an affordable weighing system in nearly any harvester with a conveyor belt.

To calculate yield data, the weight of the crop is measured as it passes over sensors in the conveyor. Yield data is combined with GPS data to create a complete yield map.

The RiteYield system is designed with the installer and end-user in mind. It includes just a few components so installation and set-up can be completed in a short time. With a few calibration steps and a connection to a GPS receiver, the system is ready to collect yield data. Data is stored on internal memory in CSV format and is easily copied to the on-board USB flash drive for transfer to other devices. Data may be emailed to Greentronics for diagnostics service whenever questions arise about calibrations or performance. Integration with the John Deere Displays gives operators the ability to view yield and coverage maps in real time. Once fields are complete the field data can be wirelessly sent to MyJohnDeere with the use of a John Deere MTG and a JDLink Connect subscription.

Want to know more? Get in touch with your Precision Ag Consultant today!



DISEASE CONTROL

MAKE BETTER, DATA-DRIVEN DECISIONS

THIS AUTUMN WITH METOS

Improve your disease control in winter cereals this season, with disease monitoring technology from Metos.

Metos weather stations and sensors collect climatic data in the field and assess the conditions against the likelihood of common crop diseases. You will be able to see the level of risk to your crop on the interactive FieldClimate dashboard. Disease models are available for a huge number of crops, including all common cereals, roots, vegetables, fruit and turf.

By only applying fungicides when there is a high risk of disease incidence, you can save time and costs.

The field-level data from Metos stations, including hyper-local weather forecast, is all available on your smartphone through the FieldClimate app, or online, and you can access it through the John Deere Operations Center.

METOS[®] UK



Talk to your Ben Burgess Precision Ag Consultant or call Carl Pitelen on 07770 581 408 to discuss the range of Metos stations and sensors that could help you make better-informed decisions on disease control and a whole lot more!

HAVE YOU ENGAGED YOUR HECTARES?

What is an engaged hectare?

Hectares are termed "Engaged Hectares" when a layer of operational data is recorded by your compatible displays and transferred into MyJohnDeere. This then allows you, the grower, instant access to your field data and performance and assists in making timely decisions for your following crop season, field records and traceability.

Harvest data such as yield and moisture information generated by combines and foragers along with constituent data from foragers also constitute Engaged Hectares. In addition, now with the Greentronics RiteYield we get can Engaged Hectares for root crops by the generation of yield maps.

Engaged Hectares also include seeding application records, as applied data and also location of different varieties within a field. Spraying and fertilizer application records as applied maps for traceability, product applied and record keeping for compliance. Recordings of tillage operations give field coverage, elevation maps as well as speed or fuel maps (depending on display type).

How can they help you?

All data is valuable to you for crop growth over the season, with the ability to compare application data to yield data you can affirm your agronomic decisions and make adjustments where necessary.

Key benefits include:

- Heatmaps provide a visual to **variations of performance** within the crop
- Watch harvest from your phone with **real time** yield data from your combine (\$700 only)
- **Compliance and traceability** is made easy with automatic data recording
- Its much easier to manage something that has been measured, **tweak operations by learning from your results**

BENEFITTING FROM TECHNOLOGY

Testimonial by Jimmy Shorten - Norfolk Contractor

A J Shorten Ltd has been a family business since 1969. Originally a haulage company, the business expanded and focused on agricultural haulage before becoming agricultural contractors in 2016. James and Ajay Shorten now run the business and specialise in lime, fertiliser and muck spreading.

James explains why he chooses Ben Burgess and the benefits of technology.

"We have been customers of Ben Burgess since 2017 and have always received excellent service. Two of the main reasons we chose to purchase equipment from Ben Burgess was the technology available, plus the proactive product support recommended to me by a neighbouring farmer. Carl Pitelen, Tom Cooper and Mark Cann are always easily contactable if we have a query and their knowledge around the tractors, spreaders and guidance technology can't be faulted. Whenever we purchase a new machine, they install it for us and show us anything that's changed, then call us after a few days to make sure everything is working as it should. Recently we had a couple of minor issues, in the first instance one of the BB team came out to us that same day and in the next instance it was next morning. In both cases they quickly got us back up and running, which is really important to us."

James is keen on capturing application data in MyJohnDeere as it provides a reference point and a wealth of great information to his contracting customers. His customers are pleased with the work he does but now get the added value of being able to see cost savings in for example fertiliser.



Talk to your Precision Ag consultant about how engaged hectares can help you!

Having run competitive machines with John Deere guidance relatively successfully, James made the decision to buy a John Deere so that everything worked seamlessly together. Also, the ability to have a loader ready tractor ordered from the factory saved him time and money, plus it ensured the machine's warranty was straight-forward.

By owning a 6215R, James and Ajay are signed up to the John Deere Fuel Guarantee scheme which allows the BB Precision Ag team to monitor fuel usage in transport and working mode. This information enables them to regularly provide Shortens advice on how they can work more efficiently. In approximately a year's time James and Ajay will learn if this advice, coupled with their BB optimised tractors, will entitle them to a pay back from John Deere. Best of luck guys!!



YOUR TRACTOR KNOWS

GET CONNECTED NOW - CONTACT US TODAY!



REMOTE MACHINE MONITORING

John Deere Connected Support™ is ready to help you and your dealer to monitor machine condition and proactively fix issues, keeping you running.



WIRELESS DATA TRANSFER

Easily transfer collected machine and documentation data from the display to the Operations Center via wireless data transfer, and have only one, error-free set of data to work with.*



MACHINE PERFORMANCE MONITORING

Visualize and compare machine performance data across your John Deere fleet. Live machine data indicates the performance of the machine and allows machine optimization.

* Requires a telematics module with JDLink CONNECT subscription

INTRODUCING BARRY

THE NEWEST MEMBER OF THE BEN BURGESS PRECISION AG TEAM



Earlier this year the Norwich Precision Ag department was joined by Barry Johnson. Barry has many years of experience working on farms both at managerial and hands on level. He also has controlled a large farm workshop and worked in a sales role with one of our neighboring dealers. His extensive knowledge in farm machinery and operation coupled with his in depth knowledge around technology further strengthens our commitment to providing unrivaled customer care and support.

**JOHN DEERE'S TRACTOR FUEL GUARANTEE -
GUARANTEED FUEL ECONOMY OR YOUR MONEY BACK!**

Contact your Ben Burgess Precision Ag consultant today for more information.

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Field + Transport