



**Groundswell**

The Guide  
2021

WEDNESDAY 23<sup>RD</sup> - THURSDAY 24<sup>TH</sup> JUNE  
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## OPENING TIMES

Wednesday 23rd	Thursday 24th
8.00am - 6.00pm	8.00am - 6.00pm

The Earthworm Arms Bar, Cider Bar and a selection of independent food traders will be open late on Tuesday, Wednesday and Thursday evenings

## TICKETS

### PRICE:

Single Day £60

Both Days £95

Tickets must be purchased in advance through Red Box Tickets and prices are subject to VAT.

[www.groundswellag.com](http://www.groundswellag.com)

Bring your print-out name badge to be held in your lanyard to gain access.

## LOCATION

Groundswell takes place on a working no-till farm in North Hertfordshire, just off Junction 9 of the A1(M), near Baldock.

Stevenage train station is a 10 minute taxi ride away.

Luton and Stansted Airports are within 30 minutes drive.

The address of the show is

Lannock Manor Farm, Weston,  
Hertfordshire, SG4 7EE.

## LOCAL TAXI COMPANIES

ABC Stevenage:	01438 424 242
Stevenage Taxis:	01438 357 111
Gold Star Taxis:	01438 727 277
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Taxi Rank Location what3words:  
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## CONTACT US



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#GW21



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**Email:** [contact@groundswellag.com](mailto:contact@groundswellag.com) **Telephone:** +44 (0)1462 790219

Exhibitor Enquiries: Alex Cherry, Event Director [alex@groundswellag.com](mailto:alex@groundswellag.com)

Any Issues on Show Days please call Production on 07398 584 295

**COVID Policy and Social Distancing** - Groundswell will be adhering to the latest Government guidance in regard to social distancing. All structures on the new Groundswell site are marquees and tents which can have at least three sides open to allow decent air flow. Seating will be arranged appropriately inside seminar areas with wide walkways and plenty of space to help avoid bottlenecks. We ask attendees to be patient when trying to gain access into a tent if it has reached maximum capacity. Hand Sanitiser stations will be available throughout the showground. Delegates can share their contact info using a Scanning App which helps minimize contact. Unfortunately we will not be issuing reusable enamel mugs this year to avoid two way contact with food traders. Reusable Aluminium water bottles will be issued from the Affinity Water Stand. If any guests feel unwell on the day there is an ambulance on site and a COVID isolation area.

**Filming** - There will be various film crews video recording on site through the show. If you would prefer to not be included in any footage please contact Groundswell.

**Drones and Machinery** - There will be drones flying at the show and heavy machinery demonstrating. Please be aware of your surroundings at all times and apply necessary caution.

## FACILITIES

There is a large meadow car park (free) conveniently located next to the show for all attendees.

Cash - No cash machines on site.

Visit the Customer Services Tent for any help on the day

## FOOD AND DRINK

Food and refreshments are available throughout the day from a range of caterers.

The Earthworm Arms Bar will be serving drinks in the afternoon and throughout the evening.

## ACCOMMODATION

Information about local accommodation can be found at

[www.groundswellag.com/accommodation](http://www.groundswellag.com/accommodation)

**CAMPING** is available for a pitch fee of £10 per person, purchasable with ticket or at Registration Tent. Showers and facilities are provided.





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- **Rainfall simulator sessions**
- **Water themed discussion sessions in the  
conference tents**







# Welcome to Groundswell

Shaun Dowman, Affinity Water

do things differently to ensure we do not continue down a path of unsustainability that risks damaging the vital life supporting systems we all rely on. What better way to mark the easing of UK restrictions than Groundswell, an event that even before Covid-19 offered an antidote to the business-as-usual, offered hope, new ideas and an alternative vision of how we can farm and manage our landscapes. Now as we look to a post-covid world Groundswell is more important than ever. More than just a farming conference, Groundswell captures the systemic changes we need to make in many aspects of our lives to ensure we can live sustainable, happy, and healthy lives and pass on a legacy of nature recovery to future generations. Farming is at the heart of all our lives whether we live in town or country and soil is at the heart of farming. Protecting and restoring our soils is something we all have a stake in as we all benefit from healthy soils that protect

water and air quality, reduce flood risk, capture carbon and grow healthy nutritious food. The link between soil and water is obvious and as a water company we are proud and honoured to be headline sponsors of Groundswell 2021. Our thanks and praise must go to the Cherry family for organising this unique event and we hope you have an informative, inspirational, and enjoyable two days.



# Welcome to Weston everyone!

Paul Cherry, Groundswell Ag.

It was truly heart breaking to have to cancel the Groundswell Show last year and added to that the stress of having to start organising this year about six months behind where we would normally be, my son Alex and his team have had their work cut out and have done an amazing job. We're up and running, and most importantly, out in the field on a brand new site, with tons more space for exhibitors, drills and you, the delegates.

Back in 2016, when we started Groundswell, Regenerative Agriculture as a name was on the fringe, now it is on everyone's lips. I see it as a chance to really take the lead on showing the best of farming to an increasingly demanding and aware public. We can build natural fertility, we can store carbon, we can improve drinking water and by the way make our own businesses more resilient. I'm more excited by what I'm seeing in agriculture than I have been in the last 35 years, and I hope that you will find the huge variety of discussion and exhibits will reinvigorate your sense of purpose.

Thanks for coming. Here's to the end of zoom at least for a couple of days. The Earthworm Arms is open late from Tuesday through to Thursday. I can't wait to see you all in there!

Have a great time. Paul.





# Proud sponsors of Groundswell



## *What's in the yellow bag?*

Meet the team and find out more  
at our grass and herbal ley trial  
plots in the Demo Field.



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We are delighted to welcome you back to Lannock Manor Farm for Groundswell - the regenerative agriculture show and conference focused on no-till farming techniques, soil regeneration and mixed farming systems.

Groundswell presents practical ideas on how to farm in the new environmental and

We are welcoming to the seven stages 175 Speakers who you can read about on p51. The schedule and session summaries are available online and in a handy foldable print out.

Janet Hughes from Defra will be tackling the important topic of future agriculture policy,

Groundswell is trying to connect the dots more than ever between farmers and consumers and this year we're looking into different models for vertically integrating the supply chain. The momentum behind consumers and the demand for honest, real food appears to be insatiable.

Demonstrations are on both days with 15 manufacturers direct drilling into standing cover crop. Alongside the drills there are over 140 Exhibiting organisations (see p88). representing their services and products supporting regenerative agriculture.

We are very grateful to our Sponsors: Affinity Water as our Headline Partner who are successfully engaging with land managers in their catchment. Kings as the Cover Crop Partner who provide the seed for the drill demo's, NIAB as a trial partner and sponsoring the Seminar Tent, Barenbrug as Herbal Ley partner and Kellogg's Origins who are bringing a wealth of knowledge from their established farming group.

One of the most satisfying things about bringing everyone together for Groundswell is seeing people's faces light up when they realise

# The Fifth Annual Groundswell is upon us, at last!

Alex Cherry, Event Director

political climate while regenerating your core asset – the soil. We remain an independent event, featuring sessions, workshops and exhibitions from a wide range of innovative farming organisations and field-scale direct drill demonstrations from the leading manufacturers. The overriding theme is set by the 5 Principles of Regenerative Agriculture (read more on p31)

New for 2021 is the completely transformed showground with two new exhibitor and demo fields; all the sessions are taking place in pop-up venues dotted around the exhibitions. The keynote conference sessions and rainfall simulator demonstrations are taking place in a big top tent. The Earthworm Arms Bar area has evolved with live music taking place on the Wednesday evening and there's a dozen independent food traders serving everything from barbequed lamb to humus wraps made from wonky vegetables.

Sessions start at 10am on Wednesday and the conference closes at 6pm on Thursday: With over 100 sessions taking place over the two days, you will hear from a wide range of voices in regenerative agriculture. Be inspired by leading soil scientists and innovative farmers who are discussing how to build soil organic matter and make farming systems more resilient.

helping us to understand the Sustainable Farming Initiative and how DEFRA plan to make the delivery of public goods attractive on Wednesday at midday in the Big Top. The Secretary of State, The Rt Hon George Eustice is being interviewed by Baroness Rosie Boycott on Thursday at 11am whereby we expect to be further enlightened.

the potential for positive changes on their farms and the wider environment. Please enjoy yourselves and think twice about hugging people as we finally meet face to face again!





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# Networking with like minds

– Joel Williams

While I'm quite sure you all are rather elated to be finally back at Groundswell this year, I'm only wishing I could say the same. Truly disappointed not to be there but happy for you all and I'm keeping my fingers crossed for next year. I hope you've been able to find at least some kind of silver lining from the past year or so – perhaps the access to the many virtual conferences in far reaching places of the world or something closer to home with your family.

My personal silver lining has been the opportunity to finally finish my MSc, something I started 5 years ago but after a busy few years, I had to put it on hiatus. After some evolution, I ended up exploring motivations and barriers for adoption of intercropping among Canadian prairie farmers. As well as exploring a range of field level, practical considerations from the participant farmers, the project also considered how the political-economy and social-cultural factors might also be shaping these motivations and barriers. This meant hitting some of the broader literature on food systems, sustainability transitions and agroecology.

There are numerous avenues that I could mention on this, but I just want to pinpoint one recurring theme that this literature highlighted, which was the importance of participatory research – scientists and farmers

collaborating, co-conceiving research agendas and these often being farmer led. There is a swing toward this style of research among some academics and I would urge farmers to make a conscious effort to try engaging and be part of any such opportunities. I must point out this is not just top down, it's equally about farmers actively engaging bottom up with researchers. That said, I must give a shout out to the Innovative Farmers project who of course have been in this space for the past many years and leading the way on farmer-led, applied research in the UK. I'd encourage you all to spend some time perusing their website and engaging as much as possible with any of the projects/events that interest you.

One of the findings that came out of my MSc was the importance of farmer-to-farmer knowledge exchange in supporting the adoption of intercropping. Whether it was social media, WhatsApp groups, field days or conferences, a central thread to all of these, was the essentiality for farmers to talk to – and learn from – other, like minded farmers. This is not necessarily a unique finding; a good body of work would support the

importance of peer learning in the diffusion of innovations. However, what my participants also made clear is that it's not just about the knowledge exchange per se; what is also important is the social interactions – hallway or bar chat, networking discussions and the like. It was these moments that gave farmers the opportunity to digest and discuss technical content and translate toward the field-level practical application of innovative practices. This appeared to be a key factor that helped fill knowledge gaps which then led to greater confidence to try the innovative practice (intercropping in this instance but could equally apply to other practices).

Thus, I must give a second shout out to the Cherry's for hosting and curating such a wonderful event and bringing together this great space for sharing of ideas, innovations and these all-important social interactions. I would encourage you to make sure you use the time in between the lectures and workshops wisely and be sure to find time to chat to other farmers – it may well be the most important part of your learning.

Will hopefully see you next year, all the best for now.





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Humus is the buffer in the soil providing continuity.

**Feed the soil,  
feed the world!**





# Collaborative insight helps farmers adopt sustainable and practical solutions to aid soil health

## Kings

With natural capital assets and environmental policy top of the agenda, the focus on improving soils, reducing input costs, transitioning to the Environmental Land Management (ELM) scheme and adopting integrated, holistic strategies to support sustainable crop production has intensified beyond recognition.

Returning as Groundswell Cover Crop Partner

The importance of regenerative, resilient farming systems is garnering more interest than ever and Groundswell has without doubt cemented itself as a key event in the agricultural calendar. Kings is very proud to once again be the official Cover Crop Partner.

Long term, viable land management practices are key to the success and longevity of farm businesses and our advisors are at the centre of these conversations on farm. By bringing the core principles of integrated agri-environment projects together with the expertise of our colleagues at SOYL Precision and Frontier Agriculture's sustainable crop production team, we help farmers to implement features that bring both agronomic and environmental benefits at a whole-farm scale. Together we've created a sustainability model to support farmers and it covers seven focus areas: crop growth cycles, soil function, carbon management, regenerative agriculture, environmental

management, digital solutions and compliance.

Importantly, developing a sustainable farming system doesn't have to be done in isolation either. Government funding and wider support from the supply chain (water companies being a great example) now make it more practical for farmers to implement beneficial changes. With the Sustainable Farming Incentive recently confirmed and ELMs now approaching, opportunities are vast and our advisors can support with all aspects.

At Groundswell, visitors can tour our diverse range of demonstration plots comprising companion crops, stewardship options, living mulches and catch and cover crops. Our advisors will talk through the specialist mixtures as well as explore different root systems and their benefits by digging up a variety of plant species.

This year, we're also combining our knowledge with that of SOYL and Frontier's sustainable crop production team. Alongside the live demonstration plots, visitors will be able to look at real soil samples and health reports conducted on Lannock Manor Farm via Frontier's Soil Life service.

Shining the spotlight on soil health

Starting from the bottom up is crucial; soil quality is fundamental to the success of our



farming systems and vital for withstanding challenging weather events.

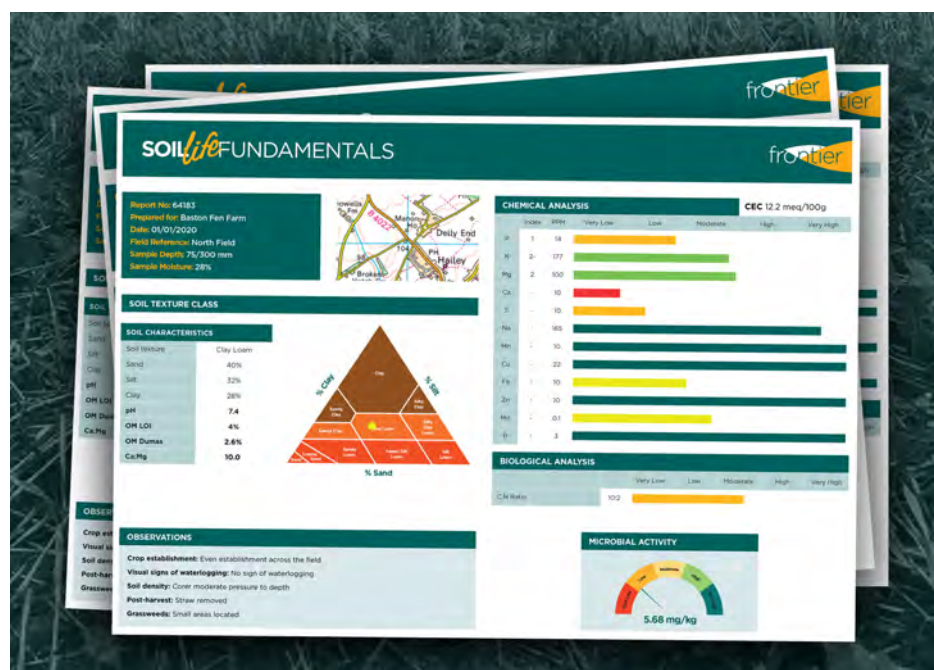
More farmers are keen to know what's really going on in their soils and it's with this knowledge that more informed decisions can be made. Through Frontier's Soil Life service, we're able to provide detailed analyses, trials insight and practical cover crop solutions which also meet farm policy, stewardship and environmental scheme requirements.

Plan, map and record your activity

With greater demand for sustainable practices, many farmers are facing the prospect of taking on different or entirely new environmental projects. This can feel daunting – it's one thing to carry out the work but quite another to effectively plan, monitor and record everything for compliance.

Featuring the precision mapping expertise of SOYL and available in Frontier's MyFarm platform, our online environment manager tool seamlessly integrates mainstream crop production and environmental data. Interactive map layers remove the need for extensive paperwork and intuitive planning features make it easy to take a holistic approach to sustainable farm management, with users able to plot stewardship agreements, monitor soil health and water quality, manage conservation areas, record natural capital, import photos and export plans.

Visit our team at Groundswell on 23rd and 24th June in the Demo Field.



## Kings Demonstration Plots

1. Living mulch
2. Berseem and fenugreek companion crop
3. Legume fallow
4. Balansa clover
5. Lifago buckwheat
6. Standard buckwheat
7. Summer Biofum
8. Summer Legume
9. Black oat/vetch
10. Summer Catch Crop
11. Contra oil radish
12. Bento oil radish
13. Defender oil radish
14. TerraFit brown mustard
15. Syngenta Green Headland Mix
16. Soil Vitality Mix
17. Soil Structure Mix
18. Power Mix 3
19. Super 10 Mix
20. Black oat/phacelia





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# Kellogg's ORIGINS



It was a chance encounter in 2012 that initially sowed the seed of the Kellogg's Origins programme. I was introduced to Richard Burkinshaw who, at the time, was Kellogg's European Environmental Manager. I distinctly remember Richard explaining that 80 percent of what Kellogg's buys each year has a root on it at some point, whether corn, rice, wheat, or packaging. Yet as a business they had a limited connection with where the raw material came from or how it was grown.

Richard understood that if they were to take sustainability seriously, they needed to go beyond their own factory gates and really get to know the farmers who grow their raw materials, and then with humility and respect, look for ways in which Kellogg's could engage and help growers improve - not just their environmental impact - but also their long-term productivity (aka profitability).

This is how the Origin's programme was born. As we moved into 2013, we had designed the bare bones of a programme, but needed to engage with farmers to work-up the ideas in detail, and to find out what would be valuable in the field.

Working with two of Kellogg's millers at the time, we held farmer workshops to introduce our ideas. The meetings went really well, even when we explained that we wouldn't be paying a premium! Rather, we set out that the plan was to invest a considerable amount of money into activities that would help farmers improve, learn and potentially be more productive and sustainable.

Since these tentative beginnings, the Origin's programme has achieved a great deal. At its heart is a move towards regenerative farming practices, but with a recognition that modern techniques including the efficient use of inorganic fertiliser and plant protection products are an important part of the mix.

Over the years since, we:

- have planted the biggest cover crop trial in the UK (if not Europe), supported by NIAB, who designed and delivered the trial on our behalf;
- have worked closely with GWCT who provide environmental support and over the last couple of years have run a very exciting insect trial;

- have trialled the use of different amendments;
- are currently looking at ways in which we can improve nitrogen utilisation working with Map of Ag;
- are exploring the use of drones to support agronomic decisions with DroneAg;
- have carried out a net zero carbon assessment on a growers farm
- have held dozens of meetings and visited sites across the UK and abroad in our endless quest to learn and improve;
- have most importantly, created a group of farmers who respect, trust and share with each other – usually late into the night over beers.

Has Kellogg's been able to make a difference? Measuring change is challenging, but the answer is an emphatic yes. The best indicator of success is that those farmers who joined us all those years ago, are still with us today.

Now working with Dave Fitzgerald, Head of Responsible Sourcing Europe for Kellogg's, our emphasis is to share what we have learnt with our farmers across the UK and beyond, which is why we are so excited to be sponsoring Groundswell this year.

- Duncan Rawson, EFPF

*The Kellogg's Group will be represented on Wednesday in the Soil Tent "Going back to our Origins" with Clive Blacker and Hugh Martineau.*





# The debate between Conservation, Re-generative and Organic Agricultures

Dr. John N. Landers OBE, ZT pioneer in the Brazilian wet-dry savannah region (Cerrado) and tropics worldwide

For all farmers, social transfers for payment of environmental services (PES) to adopt new sustainable practices are amply justified by the notable reduction in real food prices over the last half century (Clay, 2016). In addition to this, the considerable positive off-farm impacts of Zero Tillage Conservation Agriculture (ZT/CA) on the environment (Landers et al., 2001, Landers & Freitas, 2001) doubly justify the argument for PES, which should be direct to farmers. Complementary investment in extension is required from either government or private sources. The First World Congress on Conservation Agriculture (VANDELPH AND BENITES, 2001) concluded that all sectors of society were responsible for conserving natural resources in proportion to their consumption and that PES should recompense farmers for ecosystem services. Neither has been effectively implemented. No free lunches. Consumers must pay to preserve. In fact, Clay (2016) indicated that true sustainability in agriculture could elevate the real price of food, using inclusive accounting.

## Present Situation

The greatest perceived challenge to expansion of ZT/CA and Organic Agriculture (OA) worldwide is a new package called “Re-generative Agriculture” (RA). This embodies at least two pillars of CA (Unilever, 2021) with additions ad hoc of various OA and other purportedly sustainable practices, according to the persuasion of the particular RA group protagonising this variant of ZT/CA. Let it be enunciated here: OA that practices soil cultivation to control weeds and prepare seedbeds, as amply demonstrated by Reicosky (2003), does not have enough positive carbon balance to be sustainable. But there is no all-embracing scientific definition for RA (Cusser, et al. 2020, FAO site 2021, Fassler, 2021)). Recently,

Unilever (2021) has enunciated four principles for RA, but there is no indicate of how to measure them. However, the term “re-generative” is far more expressive of what ZT (no-till-USA, plantio direto-Brazil or direct drilling-UK), the very foundation of CA, does for soil biology, structure and nutrient cycling. Hence the appeal of this new term to both ZT/CA and OA farmers wanting a “new look” to move on from existing concepts. Novelty appeal is no novelty. By the very fact of adopting RA, organic farmers begin to make the bridge to ZT/CA and now, with biological controls, rock meal fertilisers, composting and animal manures replacing chemicals, novel soil organism and non-legume inoculants, cover crops, laser, steam and electric shock weeders, ZT/CA farmers are moving in the direction of OA. With this confluence of sustainable practices there is an undeniable need to forge an amalgamation of these CA, RA and OA concepts. Like it, or not, the appeal of RA's apparently innovative concepts will not go away.

## A solution

The world does not need a plethora of competing concepts for agricultural sustainability. The BIG challenge is to convince the food industry and trader backers of the successful RA campaign to join forces with ZT/CA and OA adopters of ZT/CA principles under a new RA/CA/AO umbrella, putatively denominated “RCA” or Root-Friendly Agriculture. Inevitably, concessions will have to be made in developing an all-embracing and much-needed scientific definition for RCA, with different compartments for the different persuasions. This definition would be quantified by including a list of approved sustainable practices that would be according to a minimum score of a sustainability index (to be developed), employing minimum levels of erosion

control, carbon sequestration and nutrient efficiency, an aggregate all-farm groundwater ubiquity score (GUS) for pollution potential and an aggregate all-farm toxicity rating for all farm inputs (Landers et al. 2017), plus possible other indicators, if proven necessary. To assuage industry's perception of the excessive cost and complications of externally-verified formal certifications, CRA would be a self-declared group exercise, policed by random checks, with heavy fines and group exclusion for false declarations.

This would need the blessing of FAO and partners in the creation of CA, the European Conservation Agriculture Federation and other such CA, RA and AO farmer federations worldwide and, above all, leading players in the food industry and the grain trade. One is perforce talking about an international working group to develop this over, say, three years, followed by a world congress in order to achieve a broad alliance to promote the best sustainable practices that agriculture has ever seen, creating a de facto “Community of Sustainable Agriculture”. This might better be a “Bruntland Institute” under the UN aegis.

The strategy of joining forces has always been top in efforts for survival.

The debate between Conservation and the name Conservation Agriculture harks back to the SCS solution to erosion control after the Dust Bowl, with mechanical constructions (contour banks and drainage channels). This is now considerably overshadowed by crop residue management to cure the root cause of overland erosive flows. That is, adequate water infiltration rates in cultivated soil, which reduce eventual overland flows to an absolute and controllable minimum, even in exceptional rainfall events. There is the caveat that this may not work on high slopes which really should be planted to permanent crops, including zero tillage sugar cane.

Now, the perceived challenge to CA adoption worldwide is called “Regenerative Agriculture”, that sequesters CA principles, but rarely gives credit. But this is not new, by its creation, CA sequestered the already enshrined principles of direct drilling, direct planting, no-till and zero tillage agriculture (Phillips & Young, 1973 and IAPAR (1981). However, “re-generative” is a far better adjective to describe what zero tillage does for soil biology and structure and hence its immediate appeal as opposed to the staus quo term of “Conservation”. So why not do another reverse takeover and change the name of CA to CR or even



CRA, to not cause a total rupture in terminology.

This is a BIG challenge and implies convincing the financial backers of the RA campaign to appreciate the benefits of a good scientific definition and worldwide name backed by FAO and ECAF, as has CA. But, this would inevitably engender demands to incorporate other agricultural practices derived from the several forms of organic agriculture has now incorporated ad hoc the the various definitions of RA. The fact that organic farmers are taking to RA indicates a fundamental rejection of the plough. Soil cultivation was universally employed in organic agriculture to control weeds and toxic “organic inputs such as copper compounds for fungal control and nicotine to control insects (pyrthrum is far less toxic to humans). Now pest, disease and weed control have evolved in commercial agriculture to many forms acceptable to organic demands. There is thus a confluence of sustainable practices that are bringing organics and CA closer together and the most effective effort in this direction so far has come from RA, like it or not.

Worldwide sustainability in agriculture would best be served by a single sustainable concept called RCA.

You can contact John via email: [j.n.landiers@gmail.com](mailto:j.n.landiers@gmail.com)

#### References

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#### GROUNDWELL BOOKSHOP

The Groundswell Bookstore is run in collaboration with David's which is an independent bookshop based locally in Letchworth Garden City. Search through the titles to find inspiration and read from the Authors, some of whom you might recognise from the stages of Groundswell. The online bookstore is also available all year round with titles relevant to Conservation Agriculture and regenerative systems. Visit us opposite the Big Top Stage or online <https://www.davids-bookshops.co.uk/groundswell-agriculture.aspx>





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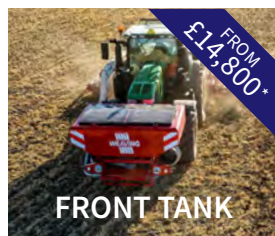
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# WEAVING THE GROWING BUSINESS

## Weaving “back in full force” for Groundswell with new machinery

Weaving Machinery are excited for their return to Groundswell, where they will demo some of the latest additions to their robust and innovative range of farmland equipment at affordable prices.



“We’re glad to be back doing what we’re best at: talking with farmers and helping them find a machine that’ll get the results they’re after,” says Simon Weaving. “All the machines we’ll be showing at Groundswell – some for the first time – are built to the same high quality and reliable standards our customers are used to, backed by a team who will make sure everything is delivered and set up to your requirements.”

### Drills

Weaving will be demonstrating three drills at Groundswell: the Sabre Drill, Fenix Grass Drill, and the GD Drill.

This will be the debut show for the new Sabre Drill, though it has already received a popular response from Weaving customers. Aimed at those who want to feel their way into low disturbance farming or as a backup drill for wet weather conditions, the Sabre Drill is a versatile all-rounder machine for stubble, cover crops, wheat, OSR, and more.

The Fenix Grass Drill is a new release aimed at the smaller farmer who wants to improve performance and stitch straight into grass using a 3-inch row and serrated disc. Coulters can be easily blocked off to use the drill for wheat, barley or oats. A full width press roller at the back ensures the ground is left in ideal condition for germination.

The 6m GD drill will also be shown, doing what it does best: drilling into cover crops and offering a low-cost and low-disturbance option that can be utilised on both cultivated and non-cultivated soils.

“It’s been a tough 18 months,” says Simon. “We’ve had two wet autumns in a row. These drills are built with those conditions in mind. Our customers have already seen the benefit, including the ability to lock moisture into spring crops for the dry summer, and better weed control due to reduced soil disturbance.”

### Static machines

Weaving will also be bringing a variety of static machines to Groundswell: the new Front Tank, the new Shortdisc, and the LD Top-Soiler.

The new Front Tank was designed according to customer requests, boasting better weight distribution and enhanced performance, including a sleek stainless steel double metering unit, higher output capabilities, a two-ton capacity, and extra “quality of life”

features like front row lights and built-in cameras to assist pulling out at junctions.

The new Shortdisc prioritises ease of use and is able to chop up trash at shallower depths due to its wavy disc design. With ring rollers that are able to handle any weather conditions without blockage and easily replaceable in the unlikely event of breakage, the Shortdisc can also be combined with Weaving’s multi-purpose Magnum Seeder for drilling cover crops while going over stubble.

The LD Top-Soiler has been specifically designed for no-till & min-till systems, with a heaving action that promotes the absolute lowest possible disturbance while aiding soil movement and air flow.

### Back in action

“We plan to return to Groundswell in full force,” adds Simon. “There are exciting times ahead and we’ve got some great equipment available, with new options for smaller farms.”

“We look forward to seeing you at Groundswell. Be sure to drop by. We’re proud to do everything we can to support British farmers in getting the most from their land.”

To see these machines in action and ask any questions, be sure to drop by the Weaving Machinery stand. .

### About Weaving

Weaving is a family run company founded in 1983. Its aim from the very beginning was to offer farmers the best quality farm machinery at affordable prices.

The company distributes farm machinery throughout the whole of the UK. The newest GD drill, as with all Weaving products, is made totally on site. From design, fabrication, construction and spraying, everything is done in-house, all at the Evesham headquarters

Below: The Weaving Sabre Drill





# Interview with Shaun Dowman, Agricultural Adviser

## How did you get to where you are today?

Nature has always fascinated me which led me to study for a degree in Environmental Biology. Attending lectures on soil biology had a big impact on me and I completed my dissertation research on earthworm ecology. Much of my career I have worked as an ecologist where I have specialised on the freshwater environment. This led me to work for Affinity Water as a catchment officer where soon after starting with the company a vacancy came up for an agricultural adviser. I am lucky in my role that I get to work with some inspirational farmers and have learnt a lot from them over the past 5 years. Attending Groundswell as headline sponsors has been a great experience for me and the whole team. What we learn here each year helps us understand the role soil health has to play for both farming but also the wider environment.

## Why is supporting Regenerative Agriculture so important to you?

Regenerative agriculture and resilient catchments go hand in hand. Biologically active soils rich in organic matter will hold more water, will have greater flood and drought resilience, will cause less water pollution by reducing run-off and can require less artificial inputs. For these reasons alone it makes sense for a water company to support regenerative agriculture and want more of it in their catchments. More fundamentally than this though food and water are the two keys things we all need to sustain ourselves. The food producing and water supply industries can help preserve and enhance many of the additional things we all need to thrive as people such as rich biodiverse landscapes, clean air, flood resilience, good nutritious

food and a stable climate by working together and treating our landscapes as one holistic system where the impacts of our land management decisions affect us all.

## Do you know how much land in your catchment is under no-till?

No, we haven't done a full analysis of the area of land under no-till in our catchments. Hertfordshire does seem to have a high concentration of no-till farmers and those practicing regenerative agriculture techniques. I'm not sure if that's down to soil types being particularly well suited or good local peer to peer networking with the likes of Groundswell enabling knowledge sharing? What's certain is that no-till farming offers huge potential benefits for catchments with increased infiltration, higher soil organic matter, reduced run-off leading to better water quality. So it's definitely something we'd like to see more of.

## Why are Cover Crops so important to a water company?

Quite simply cover crops capture residual nitrate in soils and reduce leaching to groundwater. Nitrate is difficult to remove from water for drinking water supply and can harm aquatic ecosystems. More cover crops mean less nitrate leaching. Cover crops also reduce soil erosion which can impact water, increase infiltration, capture carbon and be good for biodiversity, all things we want more of in our catchments.

## Do you have any interesting projects you can tell us about?

We are running a scheme where we are offering funding to farmers to grow cover crops in our target catchments. We use the on-line environmental trading platform



EnTrade to accept bids from farmers to grow cover crops who select from a predefined list of species which are known to perform well at capturing nitrate. The scheme has worked well with an estimated nearly 40 tonnes of nitrogen captured via cover cropping in our scheme area in 2020/21.

## How are you working with farmers and how do you see the future of water companies and their relationship with farmers?

We have a catchment team of knowledgeable local advisors who work with farmers in catchments where we abstract water for drinking water supply. Each catchment is different but in essence we want to encourage practices that reduce soil erosion, reduce pesticide and nutrient pollution and increase infiltration. I believe that water companies offer bespoke local solutions to local issues in catchments. Working alongside national initiatives such as Catchment Sensitive Farming we can compliment the funding, advice and support offered to farmers to work towards more sustainable landscapes.



# Affinity Water



### **How are you working with other water companies?**

Catchments and farm businesses often cross water company boundaries, so it makes absolute sense to work in collaboration with other water company catchment teams as we're broadly working towards the same end goals. We work with Cambridge Water on our Cover Crop funding scheme and Thames Water and South-East Water in the River Thames catchment. We also have a great national network of water company catchment management teams where we share ideas.

### **Where do you stand on beaver re-introduction in the UK?**

I have been working with the Spains Hall Estate on a water quality monitoring project around their beaver enclosure and I am blown away by how the beavers shape and manage ecosystems. What was an uninteresting straightened ditch running through a woodland that was dry most of the year apart from the occasional seasonal floods, is now a dynamic wetland ecosystem with sinuosity, habitat complexity and life. What is more, the beavers are providing a range of valuable services to society. They hold back the flood waters protecting the village of Finchingfield downstream but also settle out sediment rich waters and improve water quality. I only see benefits to the water environment from beavers but

acknowledge their full return is somewhat a controversial topic for some. I'd like to think that the overall benefit beavers provide to catchments will outweigh the potential negative effects which can hopefully be managed in a pragmatic and realistic way.

### **Are there any other species you would like to see more of in your catchment?**

Water quality and biodiversity are the two great indicators of the wider health of our landscapes and how we as a society are treating our land. Alongside good water quality I would like to see more biodiversity in our landscapes. Farming our soils well alongside allowing more space for nature should result in improvements in both. More hedgerows, grasslands, woodlands, heaths and wetlands in our landscapes alongside good regenerative farming offers the best route I believe to deliver both the ecosystem services and the food we all need. As for a particular species, the decline in the turtle dove over the past 50 years is sobering and where I live we're down to the last few pairs locally. I would love to think we can turn things around and reverse the decline and ensure that my children will experience this beautiful species and many others currently on the brink.

### **How do farmers get involved with their local water company?**

There's a whole range of great work being done by water company catchment advisors nationally, working with farmers to address local issues. Each company will have specific target areas offering local support and advice so its worth getting in touch. Best place to start is looking on your local water companies website which should have contact details for their catchment management team. Failing that local agronomists, the NFU or CSF will likely be aware of the local priorities of water companies. As for Affinity Water you can contact us via the e-mail address: [catchmentmanagement@affinitywater.co.uk](mailto:catchmentmanagement@affinitywater.co.uk)

### **What are you looking forward to at Groundswell?!**

Honestly, I'm just so pleased that its taking place this year. Given the year we've all had I'm really looking forward to catching up with people face to face and listening to talks in person not via Zoom. Groundswell is such a unique and positive event and the conversations you have are reason enough alone to attend. I normally come away with my head spinning with ideas and new bits of information that it takes me a day or two to come back down to earth. There's always great food to be had as well and you can't talk about groundswell without mentioning the Earthworm Arms.







# CHAP

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# Regen ag is a priority focus for AgriTech Innovation Centre

## CHAP Solutions

AGRI-TECH Innovation Centre, CHAP, builds networks of farmers, advisors, entrepreneurs, scientists and academics to understand industry priorities, develop innovative solutions, and translate them into the field to facilitate market adoption.

Recognising the industry's drive towards a more sustainable future, coupled with a need to actively address the Government's net-zero target, means a current area of focus for CHAP (Crop Health and Protection) is regenerative agriculture.

"The NFU set a goal of reaching net zero greenhouse gas emissions across the whole of agriculture in England and Wales by 2040, and although that might feel a way away, action needs to be taking place now," said CHAP Strategic Marketing Manager, Janine Heath.

"One area within farming that aligns perfectly with the net-zero agenda is the long-standing principle of regenerative agriculture. While confusion remains around a definition that quantifies the meaning of the term, by optimising the interventions made within farming and taking a more proactive approach to issues such as soil health, farmers can rest assured that they are indeed playing their part."

With many growers having adjusted their systems to farm more sustainably, CHAP is working with the sector to accelerate this further by building a business case for a solution that will help to demonstrate and measure the impact of regenerative agriculture.

The proposed solution, which CHAP will assist in developing, is a data-based tool that will provide predictive insight on a per field basis, enabling farmers to consider the potential outcomes of different regenerative agriculture practices, prior to adoption.

Janine added: "Through CHAP's collaborations with industry and academia, the lack of data and on-farm evidence was raised as a barrier to adoption, when it came to regen ag.

"We believe passionately that agri-tech has a role to play in plugging this gap and are

therefore working to develop a viable solution that can help mitigate some of those associated risks.

"There's also a chance that in the future, farmers may be asked to provide evidence to support the environmental credentials of their

Cranfield University. This allows precision control and monitoring of soil, water, crop and climate conditions under a range of tillage operations.

Also related to soil health is CHAP's field-scale precision equipment - machinery that enables farmers and researchers to trial and test strip-tillage approaches. This equipment, housed at Stockbridge Technology Centre, was utilised during a recent project that investigated best practice management of clover mulches to improve soil health and retain carbon.

Janine added: "Soil health plays a considerable role within regen ag and we are keen to build on our work in this area - providing the facilities, expertise and networks needed to drive the topic forward.



work. As we learn more about the ELM (Environmental Land Management) scheme, tools that support the adoption of regen ag through the provision of hard data could play an even more vital role."

Part of CHAP's wider mission is to work alongside partners to provide open access, state-of-the-art capabilities that support a sustainable future for food production.

One such capability is CHAP's Plant Phenotyping and Soil Health Facility at

"It's firmly on the Government's agenda, so we cannot afford to ignore it, it will only gain momentum. CHAP will continue to accelerate the innovation needed to help growers activate their soil health and wider sustainability goals."

For more information about CHAP, visit [www.chap-solutions.co.uk](http://www.chap-solutions.co.uk)

*Visit the CHAP Exhibition in the Pasture Field at Groundswell.*





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# Per Plant Action - weed zapping and soil health monitoring

Sam Watson Jones, co-founder, Small Robot Company

Introducing Tom, our first commercial robot. A big landmark for our small robots: we've now delivered Tom to commercial specification. A monitoring robot for Per Plant Farming, he's now entering service on UK farms, ready for ramp up of the service to more than 100 farms in 2023. Customers include the Lockerley Estate, where robots are a key part of its regenerative farming strategy, as well as Waitrose & Partners and the National Trust.

Come and see Tom in action on our stand - our first public robotics showcase, exclusively at Groundswell.

Tom will cover 20 hectares per day autonomously, collecting about 6 terabytes of data in an 8 hour shift, and detecting millions of data points per field. So for example, Tom collected 12.7 million plants in a single 6 hectare field, of which 250,000 were identified as weeds. He can distinguish plant details at submillimetre resolution. In future, Tom will also gather data from multiple sources, such as sensors and microphones for birdsong and pollinators, to assess soil health and biodiversity.

Today what Tom's delivering is a mapping service. With this we're looking to make yield predictions, measurement of herbicide

efficacy, and giving farmers the ability to take "no spray" decisions with confidence. We've also just started a project to be able to detect disease in wheat.

We're also currently conducting a pilot with Tom robot taking soil samples to assess and measure soil health. Robotic monitoring could provide accurate, repeatable carbon measurement at farm scale. This could be transformational in providing accurate carbon sequestration measurement to support UK farming's transition to Net Zero by 2040.

Our first service using Tom will be per plant weeding. A world-first, we demonstrated our new per plant weeding capabilities in technology demos at Lockerley in April. Working together, our Tom and Dick robots have now repeatedly identified weeds, and taken action to destroy them, with electrical 'lightning strikes', using no chemicals.

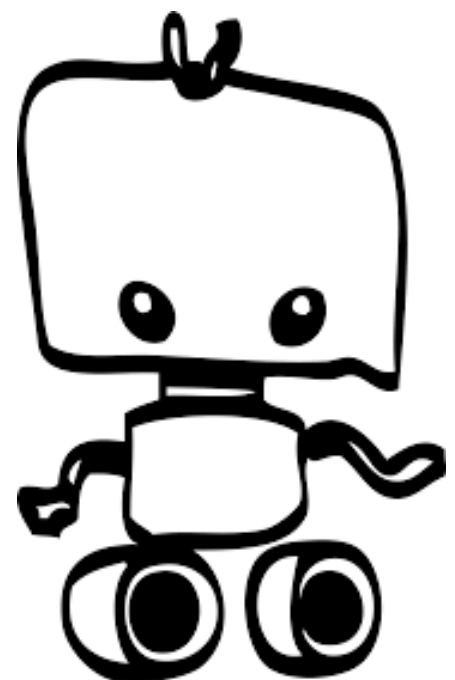
This is a major milestone in our mission to transform farming, both technologically and commercially. With up to 95% of chemicals wasted in the current farming system, this new non-chemical weeding technology will be significantly more nature-friendly and better for biodiversity. Importantly, farmers can decide which



weeds to treat - and which to leave untouched. Wilma, our artificial intelligence Advice Engine, devises a weed treatment plan at a threshold set by the farmer. We're starting on-farm pilots of the service this autumn.

The milestone we've hit is Per Plant Action - essentially, that we can now take action at the plant level. Using artificial intelligence and on board computer vision our robots can detect weeds in real time, and target the robotic arm onto those weeds. At that point we can do anything we want. We could have many different technologies bolted on - and the world's our oyster on that.

Come and see us on our stand to meet Tom, and find out more!





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# Groundswell benchmarking group

Gary Markham, Land Family Business

Regenerative agriculture can achieve similar financial results to traditional arable systems and benchmarking your business can help to manage the change

## Background

Farming is embarking on a period of change that most of the current generation of farmers have not experienced. Moving from the comfort of area payments which on average make up around 84% of income on arable farms in the Land Family Business (LFB) annual benchmark, to having to apply for specific funding for providing natural capital.

This will inevitably put farming business in financial strain as there will be a funding gap over the forthcoming few years

Farming has become very capital intensive. The economic production value of arable land is in the region of £4,000 per acre and the additional £4,000 to £6,000 has no bearing on the production capacity. Added to this is the increase in the capital cost of machinery over the past few years to over £300 per acre

Many farmers have quite correctly attempted to expand as a means of dealing with these pressures however expanding acres has normally meant tendering for contract farming agreements and on average a loss of between £40 to £60 per acre is made on the additional land

All of this results in arable farming, producing commodity crops, not being a viable business. The margin from arable farming before BPS

and income from other enterprises has been (£2) per acre over the past 2 years in the LFB benchmarking survey

Change is inevitable – but managing the change is where the difficulty comes. One of the best tools to monitor the change and provide achievable targets is to benchmark against farming businesses that have already made these changes

## Groundswell Benchmarking Group

LFB have now been benchmarking a group of regenerative agriculture farming businesses for the 17 to 20 harvests – to identify if regenerative agricultural production systems can be financially viable.

Some of the key findings for the regenerative systems are

The average output per acre is 25% lower

Variable costs are 24% lower

Gross margin 28% lower

Labour and machinery costs are 30% lower

This results in an average margin very similar for both systems of production. However the range of results within the Group is wide with the top performers achieving results well above conventional top 25% group

In addition to margins there are savings in working capital of around £148 per acre which can have a large impact on a farming business



## Machinery Capital per Tonne

The main driver of lack of profitability in arable farms are the machinery costs and in particular depreciation which represents the capital per acre

We have therefore developed a key indicator of machinery capital per tonne

Groundswell group average £74

LFB conventional system £91

The difference has been around £20 to £30 per tonne over the past 4 harvests

## So, what does all this mean?

Firstly current traditional 'yield is king' philosophy does not work

Secondly expanding acres is not feasible by using traditional contract farming structures

Thirdly benchmarking data from 4 harvests proves that there is a different approach that is economically viable.

*Gary Markham will be talking on both days at Groundswell, going into more detail with the benchmarking figures and discussing what we can learn.*

## The Groundswell Show 2021 is supporting "Farming on Crutches"

Over the last 12 months this small group – members of the Sierra Leone Amputee Sports Association – has established with their own hands this ten-acre farm based on permaculture and agro-ecological principles.

They now want to train others to do the same – starting with their fellow amputees, then encouraging schoolchildren before helping able-bodied farmers to move away from the chemical treadmill and engage with nature.

At the time of writing the Groundswell community has already raised over £600, all money will go directly to support the group. Donations can be made at Groundswell at the Pasture Fed Livestock Association Stand.





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# Pasture-Fed Livestock Association

The Pasture-Fed Livestock Association (PFLA) is a strong and diverse community of farmers, butchers, academics and consumers, which champions the regenerative role of ruminant grazing animals. The organisation celebrated ten years since it was incorporated as a Community Interest Company (CIC) in March 2021.

It costs just £100/year to become a member. Everyone is welcome and joining up is easy on the website - [pastureforlife.org](http://pastureforlife.org). All farmers can join, not just those operating a purely forage-based system.

There are currently 700 members – mainly farmers, many of whom are working towards feeding their cattle and sheep just on forage. This has several benefits – it is kinder to the animals, regenerates wildlife above and below ground, captures carbon, helps reduce

damaging effects of flooding and/or drought, reduces reliance on fossil-fuel dependent imported feeds, whilst at the same time producing delicious, tasty, healthy food for humans to eat.

Certified farmers can use the 'Pasture for Life' logo in their promotional material. Consumers know that when they see this mark, the animals the meat and dairy has come from have only ever eaten a diverse mixture of grasses, herbs and clovers.

Regional PFLA membership groups are springing up across the country. Members are also investigating the latest pasture-fed research, working with like-minded organisations looking at financial support post-Brexit, and lobbying for stronger point-of-sale labelling for 100% grass-fed meat and dairy. Despite all this, the Association retains



its friendly community feel and much knowledge sharing goes on.

*Find the Pasture-Fed Livestock Association stand in the Pasture Field at Groundswell and don't miss the inspiring sessions each day featuring members and associates. All of the meat and dairy at Groundswell served by members or certified by Pasture-for-Life.*



## Three Options for Farmers

Go up into the land beyond the plough  
where a sheep's worst enemy  
is other sheep, where the Beltie herd  
roams as free as the jawbone walls  
that map the centuries on Yorkshire's Dales  
allow. Yes, here. Go here. The land  
loses its man-made maps without animals,  
without people huddling through a cold winter,  
learning how to fail and fail better  
together, dreaming of a landscape  
that lives in symbiosis  
with money and with love.

Or go down into the Southern valleys  
to unblock drains that bleed brown  
when the rains come heavy, to stop  
the very best of the fields from running off  
to make war with cars and roads.  
Go out and sing with the corncrakes at dusk  
in the spaces you have made for them,  
sacred in their stillness,  
in the deceptive silence of abundant growth.

Or, perhaps, go into the towns and cities  
laden with produce and stories,  
your tongues ripe with carefully  
disguised science, the bare  
bone facts dressed in the muscle  
of myth and memory.

Too much fact runs off busy people  
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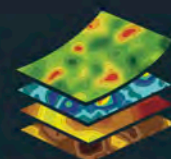
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TerraMap



# Leading the way for the Wensum

Lizzie Emmett, Upper Wensum Cluster Farm Group Advisor



Through my work running and advising the Wensum Farmers Group in Norfolk – one of the most successful farmer collaborations in the country – I truly believe that collaborative working is key to farm business success.

Totally farmer-led and farmer-funded, the Wensum Farmers Group brings 27 farmers together covering a 10,000ha mosaic of different habitats. Steered by the farmer members, we have set our collective priorities of water quality and biodiversity.

The River Wensum is the most precious chalk aquifer, the life blood running through our landscape. But it's deteriorating. A lack of factual understanding as to which sector is responsible for what (sewage/industry/farming) and an organisational bias against the farming sector, producing our own data has been invaluable. Based on usual modelling, we are listed as contributing up to 30% of phosphate losses into the river. This has never sat right with me. By purchasing our own water testing equipment, my ambition has been to measure the Wensum water quality to better understand what impact our farm businesses are having on water quality and what we can do to make a positive difference. From the land drains to the ditches, to the roads and out of sewage treatment works, I am building a picture of the water quality when we, as farmers, are stewards of it. And surprise, surprise – the picture is actually quite good.

Data means power and also signposts improvements to make. My role is to create



and maintain the momentum for change and join the dots between in-field practice and river water quality.

Since I started in 2018, our group has developed from a community dynamic that had a few group meetings per year talking about habitat improvements to becoming a leading organisation gathering data on catchment and farm scale water quality, restoring some of the most unique habitats in the UK and having the power to influence policy decisions.

As well as influencing future policy, my job is building trust with my farmers, something I believe to be integral to success. No long-term

benefits come without it. Whether its walking along hedges which we plan to lay the following year, choosing a new turtle dove feeding site or planning the next pond restoration hoping for rare aquatic species, this quality time is what achieves quality results.

My Wensum Farmers often tell me of the tremendous value of employing a pinnacle trusted person who is able to liaise with outside organisations, look after CS agreements, search for funding opportunities or lead ELM test & trials.

Sometimes people say to me "you're so lucky that your farmers are motivated". But actually, the Wensum Farmers have adapted/improved/aimed higher because of this group. I have a handful of farmers who were not interested in conservation when I started. Only the bottom line was their main concern. However, after being encouraged to dabble in pond restoration, have a hand in hedge laying and incorporate cover crops, they are jumping at the next opportunities.

Real, long lasting change, on the ground, at a catchment scale: whether you're interested in soil, water, biodiversity or even just securing the future of your farm businesses – that's the glorious beauty of farm groups – they tailor to any fit and they encourage all types of positive, long term development.

Stronger, together.





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# What is Regenerative Agriculture?

John Cherry, Groundswell Agriculture

Regenerative Agriculture is quite simple: it is any form of farming, ie the production of food or fibre, which at the same time improves the environment. This primarily means regenerating the soil. It's a direction of travel, not an absolute.

For millennia, farmers have taken healthy soils and ploughed them and planted into the clean, exposed surface. For some years, their crops would grow well as there would be little competition from weeds and there would be plenty of freely available nutrients, but after a few years of this, the soil would lose health; crop yields would plummet so that the farmers were forced to rest and/or feed their land. The ancient Romans and good farmers ever since have had to do this but nonetheless, over time, poor farming has resulted in soils becoming so unhealthy that they've eventually been blown or washed away: the Land of Milk and Honey that Moses led his people to, or the North African bread basket that fed the Roman Empire are both now deserts. The dust-storms in the last hundred years in America show this is still going on.

A healthy soil is a fabulously complex ecosystem, comprising countless billions of microscopic organisms all working away in their own little niches, feasting on each other and sugars exuded from the roots of growing plants. The whole system is ultimately fuelled by growing plants, whilst at the same time the system helps the plants grow.

We've all got so used to our soils being as they are, that it is hard to imagine how much better they could be. I suspect that there isn't any soil in this part of the world that couldn't be improved in some way so there is scope for every acre in the country to be regenerated. Compare a spadeful of soil from an arable field to the soil under some permanent pasture on the other side of the hedge, or if you don't have permanent pasture, then compare with the undisturbed ground under the hedge. There you'll see lovely dark, crumbly, sweet smelling soil, crawling with worms and life. That's what your arable land could be like.

In the past we accepted that soils got worse as we farmed. Now we know that they don't have to. If we mimic a permanent pasture whilst growing annual crops, we can start to reverse the degradation. This gives us five principles to follow:

## 1. Don't disturb the soil.

Soil supports a complex network of worm-holes, fungal hyphae and a labyrinth of microscopic air pockets surrounded by aggregates of soil particles. Disturbing this, by ploughing or heavy doses of fertiliser or sprays will set the system back.

## 2. Keep the soil surface covered.

The impact of rain drops or burning rays of sun or frost can all harm the soil. A duvet of growing crops, or stubble residues, will protect it.

## 3. Keep living roots in the soil.

In an arable rotation there will be times when this is hard to do but living roots in the soil are vital for feeding the creatures at the base of the soil food web; the bacteria and fungi that provide food for the protozoa, arthropods and higher creatures further up the chain. They also keep mycorrhizal fungi alive and thriving and these symbionts are vital for nourishing most plants and will thus provide a free fertilising and watering service for crops.

## 4. Grow a diverse range of crops.

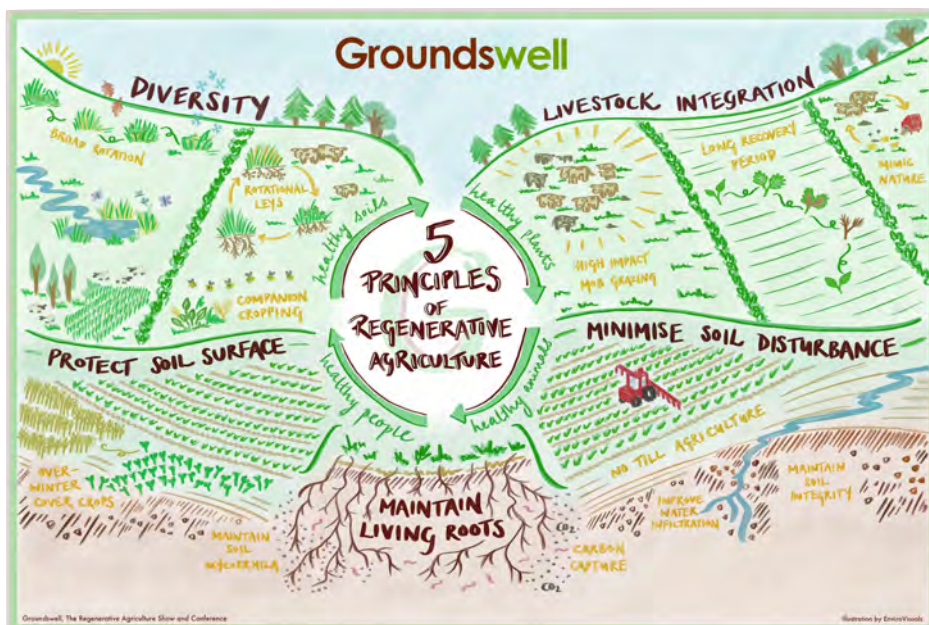
Ideally at the same time, like in a meadow. Monocultures do not happen in nature and our soil creatures thrive on variety. Companion cropping (two crops are grown at once and separated after harvest) can be successful. Cover cropping, (growing a crop which is not taken to harvest but helps protect and feed the soil) will also have the happy effect of capturing sunlight and feeding that energy to the subterranean world, at a time when traditionally the land would have been bare.

## 5. Bring grazing animals back to the land.

This is more than a nod to the permanent pasture analogy, it allows arable farmers to rest their land for one, two or more years and then graze multispecies leys. These leys are great in themselves for feeding the soil and when you add the benefit of mob-grazed livestock, it supercharges the impact on the soil.

If you are starting with a permanent pasture, as is nearly 70% of agricultural land in the UK, you might think that you're already regenerating. However, in the name of improvement, a lot of this land has been ploughed up and reseeded or heavily fertilised and poorly grazed. Instigating a holistically managed grazing regime will transform the soil and the pasture that it grows. A surprising amount of grazing land is actually monocultural, regularly disturbed and is poorly covered. In the wetter and hillier parts of the country this is often enough to cause increased erosion and flooding.

No-one is really sure how good we can make our soils, nay-sayers will tell you, for instance, that there is a limit to how much Carbon soils can sequester. That could be true if soils were only operating in the top six inches, whereas we've seen topsoils getting deeper and deeper as time goes on, meaning a greater sponge to hold rainwater and for the roots and fungal mycelium to operate in, and making ever more room for safe long-term Carbon storage. Regenerative farming isn't just good for farmers, it is really the only way, if performed across the globe, that humanity can have any hope of living on a pleasant planet.





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# Dung Beetles – the Farmers' Friend

## Dung Beetles for Farmers



How often do you really look at your livestock poo? Only when you accidentally step in it and get it on your boot? An unusual question...but have you ever stopped to open up a dung pat and take a look at what is actually living inside it?

An individual Dung pat is a microcosm of life with a myriad of small creatures from flies to beetles, spiders to earthworms and tiny springtails. If you look at the beetles, you will notice most of them are moving quite fast; these are predator beetles looking for prey. The slower ones are the ones we are interested, in these are the dung beetles.



### Dwellers, Tunnellers and Rollers

When most people think of dung beetles they think of those huge scarabs rolling elephant dung across an African plain. We don't have elephants in the British Isles, so you won't find any of these Rollers in your fields. We do however, have roughly 60 species of native dung beetle and they provide huge benefits for ecosystems and your farming system.

Identifying dung beetles to species level can be difficult and usually requires a microscope and a dung beetle expert, but it is easier to classify them into the two groups that are found in the British Isles:

**Dwellers:** those that live in the dung and **Tunnellers,** who live under it.

### Ecosystem Engineers

Dung beetles are key ecosystem service providers on pasture where dung is present. They deliver many benefits to farmers including increasing soil nutrients and reducing pasture fouling. They also improve soil structure whilst reducing parasites and pest flies.

### They Need Your Help

It is not all good news though, as research shows an alarming decline in dung beetles. The three main reasons behind this are considered to be the use of anthelmintics (especially with worming treatments), soil disturbance and the disappearance of livestock due to changes in land use.

There are thankfully, practical steps farmers can take to help these incredible beetles and reap the benefits they provide.

In particular, anthelmintics can have a major impact on the breeding cycle of dung beetles so by targeting their use, dung beetles can benefit, along with your pocket! Follow a 3-step approach to managing parasitic worms in livestock:

### Prevent

### Assess

### Treat

Prevention is always better than cure and there are many ways to reduce the risk of parasitic worms. For example, did you know plants with anthelmintic properties, including chicory, sainfoin and birdsfoot trefoil are a great natural parasite control?

Assess your worm burden before treating by doing Faecal Worm Egg Counts and then if you need to, treat animals individually and weigh before treatment to avoid over/underdosing.



For more information on dung beetles, and what you can do to help them please visit our stand or [www.dungbeetlesforfarmers.co.uk](http://www.dungbeetlesforfarmers.co.uk)

Dung Beetles for Farmers is an information website set up by entomologists, farmers and a vet. The team give up their time and expertise to promote the benefits of dung beetles in a grazing ecosystem as well as inform farmers and vets of pragmatic steps they can take to protect them.

*Follow us on all the usual social media platforms @DungBeetleFarms*





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\* Based on our 2019 customer survey of users converting from conventional plough based systems.



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# mzuri

FUTURE PROOF FARMING



# New Miscanthus finance and end-user offtake agreements assist UK decarbonisation

Sophie Wilesmith, Terravesta



In an industry first, farmers considering planting the carbon negative crop Miscanthus can now benefit from a finance package to cover virtually all upfront costs for crop establishment, as well as new direct, long-term offtake agreements with end-users, with 10–15-year index-linked annual returns.

The new opportunity has been launched to help support the growing need to decarbonise the UK economy with bio-based solutions, and if planting of perennial crops such as Miscanthus is accelerated quickly, to at least 30,000 hectares per year by 2035, this increase could sequester 2 MtCO<sub>2</sub>e by 2035 and over 6 MtCO<sub>2</sub>e by 2050.

Oxbury Bank is working in partnership with Miscanthus specialist, Terravesta, to deliver the new finance package, which is supporting farmers to plant and establish the crop. "One of the main barriers to entry for Miscanthus growing is the upfront cost of planting. Our finance package with Terravesta ensures a quick release of funds to help farmers to grow

a sustainable business. The loan structure allows farmers to pay interest only for up to two years while the crop is establishing and then pay back the capital over an extended period of time when the crop is producing an economic return," says Nick Evans, managing director of Oxbury Bank.

"Agriculture is changing, and it's important that farmers have access to finance and capital for their low carbon initiatives and sustainable growth plans, like Miscanthus," says Mr Evans.

Under the new contract, Terravesta will supply its Performance Hybrids, planting equipment and agronomy throughout the crop's life, ensuring successful crop establishment by committing to a minimum number of plants emerging under its new planting promise.

"Our current rhizome-based variety Terravesta Athena™ delivers higher yields than the commercially available Miscanthus giganteus,

a calorific value increase of 8%, resulting in 180% increase in energy per hectare (megajoules) and significant ash content reduction, all of which benefits the end-user considerably," explains Alex Robinson Terravesta's chief operating officer.

"Terravesta Athena™ generally takes its first harvest in year two and reaches maturity faster than Miscanthus giganteus, and some of our growers are reporting a first harvest of eight tonnes per hectare, going onto a mature yield of between 10–17 tonnes per hectare depending on the soil type.

"The beauty of this new package is that growers have a direct contract with renewable energy power plants, which enables Terravesta to provide a finance package and allows us to focus on crop establishment in the UK at a much greater scale to support our net zero targets," adds Mr Robinson.

To learn more visit: [www.terravesta.com/terravesta-assured-biomass](http://www.terravesta.com/terravesta-assured-biomass).








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Today, we devote all our expertise, skills and innovation to protect the soil in your fields. We help farmers to optimise operating costs, particularly through fuel savings, and to improve crop yields, while reducing soil compression and compaction.

The diversity of activities in the agricultural

Newport and another site in the USA in conjunction with the University of Illinois.

Paula Misiewicz PhD AMIAgrE, Senior Lecturer in Soil and Water Management, Harper Adams University, says: "The results showed quite clearly that Michelin Ultraflex Technology tyres can help farmers to significantly reduce compaction and, in the process, boost their yields by 4 per cent in comparison to standard tyres."

Prof. Richard Godwin, Visiting Professor,

Ultraflex Technology tyres over a standard tyre would be paid off within 12 months.

"Our analysis found that the payback period is about a year. And so effectively, once you have paid for your tyres in year one, you've recovered your investment, and typically farmers would be running those tyres for another five years or more," adds Godwin.

Michelin's Ultraflex Technology allows farmers to run their machinery at lower than standard tyre pressures, protecting the health of the soil by reducing the incidence of rut formation and ground compaction. As a result, air and water can penetrate the earth more freely, leading to improved soil conditions for maximum crop response.

Designed to cover the entire crop growing cycle, the full line-up of Ultraflex Technology tyres available in the UK and Ireland includes AxioBib, AxioBib 2, EvoBib, XeoBib and YieldBib tyres for tractors, CereXBib and CereXBib 2 tyres for combines and forage harvesters, FloatXBib for self-propelled spreaders, SprayBib fitments for high-clearance sprayers, plus TrailXBib and CargoXBib High Flotation tyres for trailers.

*For more information, visit [business.michelin.co.uk](http://business.michelin.co.uk)*

## Maximum Performance for More Than a Century

### Michelin Agriculture

world requires us to respond to challenges across the board, from the independent farmer to polyculture or livestock rearing activities, from cereal production to agricultural contractors. Whatever area of the industry you may operate in, we strive to bring you the best solution and ensure you are operating the right agricultural tyre, of the right size, on your machinery – helping to improve performance, service life, traction and comfort.

Whether it's a tractor, trailer, combine harvester, spreader, sprayer or trailer – we have the tyre to meet your requirements. And the impact of fitting the right rubber to the right application should not be underestimated.

A recent in-depth study from Harper Adams University into the impact of traffic and tillage on soil compaction found agricultural machinery running low pressure Michelin Ultraflex Technology tyres could boost farmers' yields by 4 per cent.

The University conducted the research for nine-years, utilising one site at its campus in

Harper Adams University, says: "Whilst that improvement might seem small, when you think of it globally, it goes a very long way to help feed the world."

The study also found that any increase in the initial outlay for farmers purchasing Michelin





# FGS Organics - Sustainable solutions in agriculture



Offering a sustainable solution to agriculture, FGS Organics work with long term partners to provide a range of renewable fertilisers which can be applied to land. Products include digestate, manure, slurries, compost and paper by products. An increasingly popular option is Digestate, either from commercial AD plants or on farm AD plants. This nutrient-rich liquid biofertiliser has high available crop nutrients and is an excellent alternative to artificial fertilisers. Haulage

is undertaken using a range of vehicles including articulated tankers, walking floor trailers, rigid tippers and specialist low loaders. For the application of products FGS Organics use a range of modern, high-tech application methods including self-propelled or trailed trailing shoe applicators, umbilical trailing hose and trailed shallow disc injectors, all operated by trained, competent operators.

FGS Organics' FACTS qualified advisors are committed to the responsible application of products to land. We provide a comprehensive service, identifying the correct product to suit all crop requirements and farming systems, completing all necessary documentation, risk assessments, maps, and logistics to ensure the smooth delivery of the material to the farm.

## Sustainable solutions to enhance soil health & productivity



**Offering an alternative to artificial fertilisers, FGS Organics supply and spread the following renewable products to land:**

- Digestate/biofertiliser
- Livestock & poultry manure & slurries
- Paper industry by products
- Compost

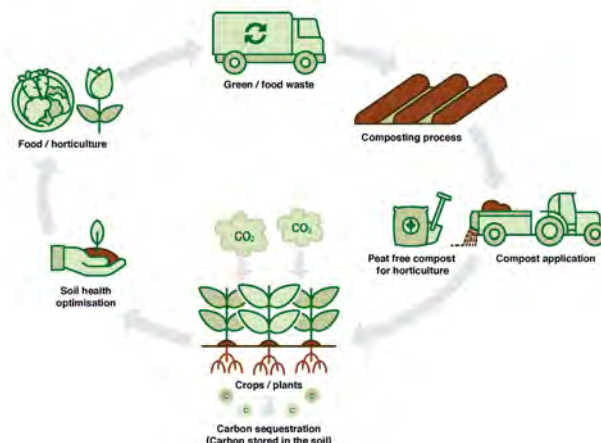
**We offer advice, undertake all compliance, arrange delivery, storage and application.**

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# Compost – restores soil health and aids carbon capture



Soil health is core to our business and is something we are passionate about promoting and improving. Andy Sibley, Director of Envar Composting comments that “compost can be hugely beneficial to soil, helping to optimise soil health and aid carbon sequestration.”

“Compost provides a slow release of major and micro-nutrients, improves soil structure and rooting potential. It increases moisture

retention and soil drainage and is a good source of organic matter.”

“Peat free compost also provides an environmentally friendly alternative to peat. Extracting peat from peat bogs damages the peat bog habitat and releases the carbon stored in the bog into the atmosphere. Composting provides a safe and sustainable way to process green and food wastes, creating a natural, peat free compost which is applied to soil to optimise soil health.”

Our diagram shows how Envar recycles food, green and specific organic waste collected by local authorities and industry from homes and businesses across the UK and processes it to produce high quality certified compost. The compost is put to good use by a range of end-users including farmers, commercial gardeners, house builders, horticulturalists and viticulturalists. The compost helps to optimise soil health and aids the capture of carbon in the soil.

## Producing compost to enhance soil health



**Envar recycles food and green waste and processes it to produce high quality compost which is put to good use by a range of end-users including farmers, horticulturalists, viticulturalists, commercial gardeners and house builders.**

### **Benefits of compost:**

- Slow release of major and micro nutrients
- Improvement in soil structure and rooting potential
- Increased water retention and soil drainage
- Good source of organic matter
- Aids carbon sequestration

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# Novag



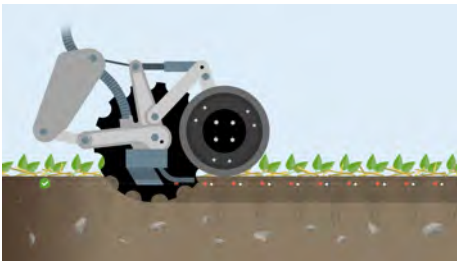
## Next Generation Farming

Our Novag T-ForcePlus no till drills can help farmers become more efficient, achieve higher yields, and earn better returns. We believe low-disturbance no-tillage seeding is the future of livestock, arable and mixed farming.



### Gaining ground

No-till agriculture reduces the loss of carbon and moisture from the soil. It can lower the use of chemicals and fertiliser, so it is both more sustainable and more profitable.



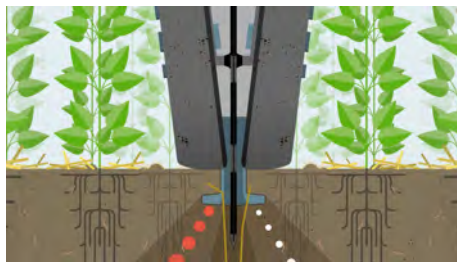
Novag T-ForcePlus drills use the T-SlotPlus opener, which is the key to successful no tillage systems.

The seed microenvironment is obtained by the combination of 2 winged blades, one at each side of a central notched disc. The T-SlotPlus gives minimal surface-soil disturbance and creates an inverted T-shaped slot.



Seed and fertiliser can be placed separately on the adjacent horizontal shelves of the T. The Novag system gives the ability to place fertiliser more accurately and reduce fertiliser losses.

The openers can handle high residue loads with minimal hairpinning, and they can establish crops in all conditions- from soft or min-tilled soils, and flat paddocks to dry or rocky soils or uneven terrain. They can handle very thick and diverse cover crops without blockages and without compromise on seed placement.



Operators can use the IntelliForcePlus Control which automatically adjusts the downforce on the coulters to maintain a consistent seeding depth in a range of conditions.



All our machines are assembled in our factory and tested around our hometown of Fressines, in the west of France. Our French and German team takes care of customer service and supports our distributors, agents and direct users.

2021 is a special year for us, as the company celebrates its 10 years and will soon put its 100th seeder in operation.







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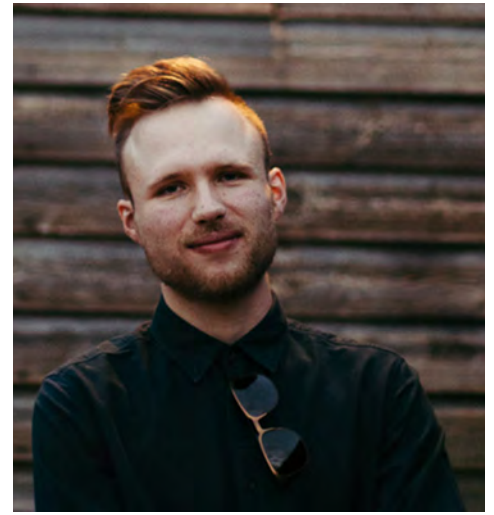
# Artist in Residence - Henry Driver

Henry will be showing artworks which reveal the amazing and vital microscopic life, that dwells within healthy soil. Groundswell have commissioned him to create short videos displayed between sessions, that delve into the miraculous ecosystem buried beneath our feet.

Henry Driver is a young artist based in Suffolk, working with technology and science to inspire meaningful environmental change. He has shown work across the world in Japan, Canada, Australia, Germany, Denmark, Portugal, South Korea, India, and Taiwan. While in the UK, Driver has shown work at

Tate Britain, Tate Liverpool, Barbican and The Whitechapel Gallery. Most recently, he was commissioned by BBC Arts & Arts Council England, as part of New Creatives to create an interactive artwork and film about the soil.

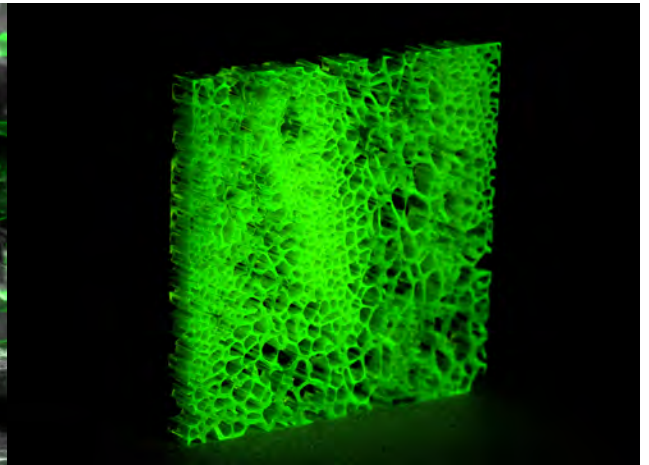
Henry creates films, sculptures, CGI videos, and even video games all inspired by the soil & our environment. Previous artworks have been inspired by research or imagery generously shared by the John Innes Centre, as well as regenerative farming practises.



[www.henrydriverartist.com](http://www.henrydriverartist.com)

Instagram: [henrydriver\\_](https://www.instagram.com/henrydriver_)

Twitter: [@henrydriver\\_](https://twitter.com/henrydriver_)



Ben Smith and Jimmy Brewer met at an event organised by Joan Armatrading for the acts she had chosen to support her on her 2015 tour. Although they originally planned to just write together, they soon realised that their playing styles and voices complemented each other and they started playing together after their inaugural gig supporting Joan Armatrading in front of a thousand-strong crowd.

Since then, they have played together all over the UK, notably as the support act to 10cc and Ralph McTell on their 2018 U.K tours, at Fairport's Cropredy Convention 2018, the 2018 Cambridge Folk Festival and the UK Americana Music Association Showcase in 2017 and 2019, as well as at AmericanaFest in Nashville in 2017. They also contributed backing vocals to Ralph McTell's new album, which was produced by Tony Visconti.

They have recently finished work on their debut album, *Another Shade Of*, due for release in autumn 2019. It was recorded at Coltsfoot, a friend's barn which they converted into a studio for a week. This allowed them to record together live both as an acoustic duo and a full band. The tracks were mixed by Ben and Jimmy and mastered by David Mitson (noted for his work with Michael Jackson, Willie Nelson and more).

*Smith and Brewer will be playing in the Earthworm Arms on Wednesday 23rd at 9pm*

## SMITH AND BREWER

### Live





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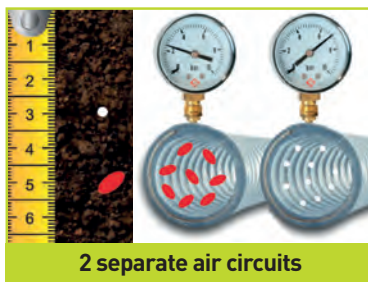
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# CHELSEA GREEN PUBLISHING

AN EMPLOYEE-OWNED COMPANY

Chelsea Green Publishing was founded in 1984 in the USA. We are an employee-owned, independent publisher of award-winning books that bring in-depth, practical knowledge to life, with offices in London and Vermont.

Chelsea Green provides readers with hands-on information related to regenerative and organic farming, no-till agriculture, gardening, nature & conservation, food, sustainable economics, and integrative health & wellness. In 2018, we launched Chelsea Green Publishing UK, with a focus on cultivating a new UK publishing programme, as well as developing partnerships with like-minded organisations in the areas of food, farming and sustainable living. Some of our best-selling books include *Dirt to Soil*, *Call of the Reed Warbler*, *Bringing Back*

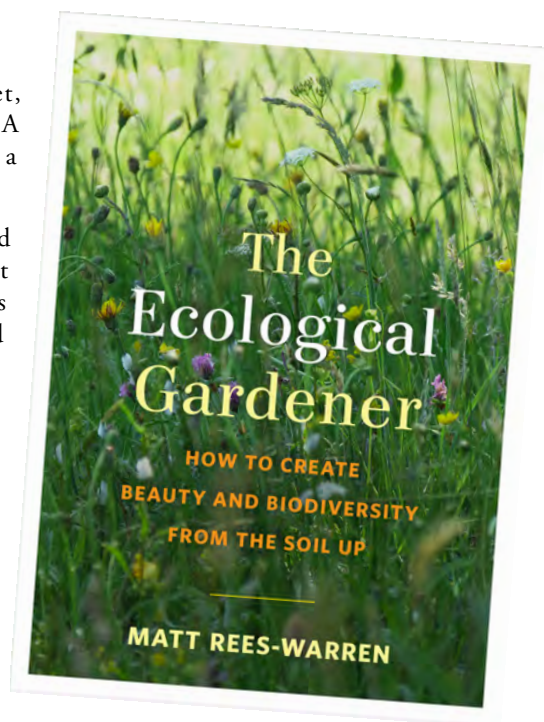
the Beaver, *Mycorrhizal Planet*, *Defending Beef*, *Nourishment* and *A Small Farm Future* – to name just a few!

Please visit the Chelsea Green stand at Groundswell to learn more, get discounts on our books or talk to us about potential collaborations and projects.

Visit our new UK website:

[www.chelseagreen.co.uk](http://www.chelseagreen.co.uk)

to see our full list of titles!



## Rude Health

Rude Health makes dairy-free drinks for glass-half fullers and cereals for those who fill their bowls to the brim. All of our food and dairy-free drinks have bright and bold flavours made entirely from natural ingredients, delicious enough to munch from the box or glug from the glass. Get ready to twist lids and tear open boxes, because when the healthy choice tastes this good, it's always a celebration.







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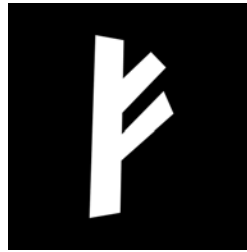
In 2018 The Ethical Butcher which is an online platform shipping chilled meats to customers across the UK, was formed following a successful raise on Crowdcube with much of the funding coming from PFLA farmers looking for a reliable route to market for their produce.. The two founders came together from different backgrounds with a single aim, to be an industry disruptor and fundamentally change the meat industry as well as to challenge the anti-meat narrative through promoting and supporting regenerative agriculture.

In just a year and half of trading they have seen business boom through robust and focussed messaging and industry challenging campaigns across digital platforms as well as rave reviews in the national press.

In January 2020 brand launched their Regenuary campaign achieving over a million impressions organically on social media. The campaign set out to challenge Veganuary and offer a counterpoint argument that regardless of dietary choices we should be looking to source as much as possible from regenerative agriculture. You can hear Glen Burrows of the Ethical Butcher deliver a talk on Regenuary here at Groundswell and the team are available at their stand to talk further about their business.

Right now The Ethical Butcher is Crowdfunding again on the Crowdcube platform and is offering some attractive incentives to farmers to invest in the future of the business as partner suppliers, paying a premium to investors ensuring a continued route to market and consumer awareness of regenerative agriculture through a transparent supply chain.

*Visit the Ethical Butcher stand at Groundswell to find out more.*



# The Ethical Butcher

## #REGENUARY

Pronounced 're-jen-uary' - as in regenerate.

Regenuary is simple. For a month source as much of your food as possible from regenerative farming.

In many cases this is difficult so consider as much as possible low impact or positive impact production methods, this applies to all foods, meat, fish, dairy, grains, nuts, seeds, legumes and vegetables.

Where possible source from British suppliers, and do what you can to minimise the impact of transportation.

If it is difficult to source regeneratively produced ingredients look for organic, biodynamic and buy direct from small producers wherever possible.

Look for farm shops and farmers markets, ask questions, do research.

**SAVE THE DATE**  
**Groundswell 2022**  
**22nd & 23rd June**







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Photo Credit: DEFI-Écologique

#### Regenerative Soil Health Series

with Niels Corfield

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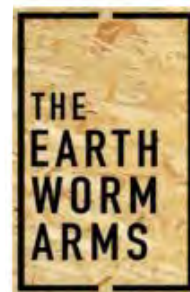
[www.farm-ed.co.uk](http://www.farm-ed.co.uk)

Social: @RealFarmED



# Food and Drink at Groundswell

The Earthworm Arms Bar is open Tuesday through to Thursday evening with a dozen independent traders. Choose from a range of options ranging from barbequed lamb to humus wraps made from wonky veg. Breakfast will be served from 8am and the bar is open till late each night.



[www.applecottagecider.co.uk](http://www.applecottagecider.co.uk)

We offer a wide range of Traditional farm pressed Cider & Apple juice. Our ciders are free from Sulphites or artificial sweeteners. We also offer Sourdough Toasted Sandwiches and Cheeseboards-ploughman's. Try one of our homemade Belgian Waffles for breakfast!



ChicP hummus and falafel wraps with salad



Jumbo sized 'Powters' pork sausages served in hand baked sub rolls with a selection of toppings and relishes, 'Norfolk Smoked' Bacon rolls also available



fundi. n. person skilled in maintaining or making specialised equipment. [Swahili] fundo n. – anatomic nomenclature for bottom i.e. crust [Italian]... Fundi Pizza, wood powered pizza made with hand-built equipment



Breakfast rolls with home produced smoked bacon & free-range eggs. Wagyu beef burgers with smoked cheese, tomato salsa in a brioche roll. Special Dinner Option! Tea, coffee & cold drinks



Luxury artisan dairy ice cream, handmade in small batches using the fresh milk from our free range dairy herd. Also available this year are homemade, dairy-free and vegan sorbets.



Authentically home cooked north Indian cuisine, all ingredients locally sourced, catering for dietary needs, gluten free, wheat free and nut free.



Join the SSAW Collective for dinner in the old timber barn at The Grainworks with a flower installation from their plots. A three course, ingredient driven dinner celebrating regenerative produce.



Crossover Blendery was started by Charlie & George in January 2020 with a focus on 100% spontaneously fermented beer, aged in oak casks. Please sign up for one of our tours to learn more about the world of spontaneous fermentation. Visit us in the Blendery Barn



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All your coffee shop favourites served from our lovingly restored vintage trailer. Handmade sweet treats, freshly baked pastries and sausage rolls. Our milk comes directly from Kingarth Farm Dairy, a couple of miles from our Leicestershire base.



We cook the highest quality meat, slowly, over hardwood and serve simply to enhance the natural flavours.

Our Food Offering at Groundswell:

Breakfast: Rare Breed Pork Sausage bap, caramelised onions



In celebrating our 50 years in business, we take this opportunity to communicate our brand refresh livery from yellow/green to green/blue. Our new colours enhance the message of working on the land through the imagery of green, and our blue decal depicts a strong and bold brand presence of reputation. Our recognisable machine types are enhanced by this new livery that has a proud 50 year history of outstanding innovation and productivity within all our product ranges and services.

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### **Matthew Adams, Growing Real Food for Nutrition CIC**

Matthew Adams is Co-Founder and Director of Growing Real Food for Nutrition CIC (Grffn). Matthew is a Deep Ecologist and Holistic Environmental Manager (BSc). Beginning work life as a mechanical engineer, he has since had multiple careers and life experiences connecting with nature. This includes work with the Somerset Wildlife Trust and in the Amazon Rain Forest, as Director of The Good Gardeners' Association (2000-2011), and as a craft cider maker and carpenter, returning now to soil health and nutrition.



### **Julia Aglionby, Foundation for Common Land**

Julia Aglionby is Executive Director of the Foundation for Common Land, Chair of the Uplands Alliance and a practicing Rural Chartered Surveyor and Agricultural Valuer. Julia was a Board Member of Natural England from 2014 – 2019 and chaired the Board's Uplands Working Group.

In September 2019 Julia was appointed a Professor in Practice at the University of Cumbria's Centre for National Parks and Protected Areas. Her doctoral research was on the governance of common land.

Julia lives in the Eden Valley, Cumbria on an organic pasture for life Care Farm – Susan's Farm CIO – of which she is a Trustee. She enjoys working on the farm in her 'spare' time.



### **Jerry Alford**

Jerry has experience in arable and mixed farming having run the family farm in Devon for 25 years. The farm was initially a dairy farm eventually converting to organic and being run as a beef, sheep and arable unit. At the same time he converted a range of farm buildings into a holiday cottage complex, was chairman of a local farmer owned co-op grain store and became involved in the grain supply chain nationally.

Jerry is interested in a systems approach to farming, and looks at farms as a whole system rather than a just a mix of enterprises or a series of crops in rotation. He is also looking at options to reduce cultivations within organic rotations and the adoption of more agroecological and organic type systems in non-organic farms.



### **Dominic Amos, Organic Research Centre**

Dominic works at the Organic Research Centre, having joined five years ago to pursue research interests in sustainable cropping and soils management. Having previously worked testing agrochemicals, providing data for agrochemical companies he now works with farmers across projects including the Innovative Farmers programme, supporting farmers to conduct on-farm research supporting them to test innovation. He works as researcher on the living mulch field lab exploring with the farmers the use of a clover understory as an approach for improving cropping system sustainability and improving soil health.

"I got into agriculture to try to help farmers grow food more sustainably. Through Innovative Farmers I have the mechanism to work directly with them to help explore solutions to their production issues. It's extremely rewarding for me working directly with the farmers to conduct research".



### **Max Anderson, Dung Beetles for Farmers**

Max Anderson is a PhD student at the University of Sussex, studying the impacts of livestock management practices on wildlife. So far his work has focussed on how the permanence of pasture and mob grazing systems impact the diversity and abundance of bats and their invertebrate prey, by conducting fieldwork on Pasture Fed Livestock Association (PFLA) farms across the South of England.

As a founding member of the Dung Beetles for Farmers project he has given his expertise to help promote the benefits of dung beetles and how farmers can support them. Dung beetles have become of particular interest to Max, given their importance as prey items for a number of bat species in the UK, and due to the significant role they play in provision of ecosystem services.



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### **Henry Astor, The Bruern Estate**

Henry Astor runs a mixed arable and livestock farm in the North East Cotswolds with a main focus on integrating biodiversity with sustainable farming practices. The Bruern Estate is transitioning from conventional cropping to growing heritage grains using restorative and regenerative methods. Henry is a co-director of The Heritage Grain Trust and is working with John Letts to develop new populations of heritage grain populations and products in the UK and the EU.



### **Helen Avery, Green Finance Institute**

Helen oversees the Institute's work in mobilising capital into nature. Among the initiatives the Institute is working on in the nature sector is the scoping of the Taskforce for Nature-Related Financial Disclosures; the finance sector response to the Dasgupta Review; and supporting the Environment Agency and Defra on the Natural Environment Investment Readiness Fund.

Before working for the Green Finance Institute, she was the sustainable finance editor of Euromoney Magazine covering social and environmental finance, bank ethics and diversity and inclusion within the finance sector.



### **Belinda Bailey, Syngenta**

Belinda Bailey is the Sustainable Farming Manager for Syngenta. Graduating with an BSc (Hon) in Agriculture and Land Management she joined Syngenta's legacy company, Zeneca, in 1996 and holds both her BASIS and FACTS qualifications. She first worked in field trials, spending some time out in Argentina carrying out fungicide development trials, then moved to Technical support and on into the sales team before taking the position as an environmental specialist from 2009. Belinda is responsible for delivering Syngenta's global sustainability objectives at the UK level, supporting growers and customers through managing environmental projects and training.



### **Clive Bailye, TWB**

Managing partner of TWB Farms Clive Bailye is a zerotill arable farmer from Staffordshire, and founder and owner of digital media company AgriWebMedia Ltd which operates The Farming Forum, Farm Classieds, Farm Marketplace websites and publisher of the very popular Direct Driller Magazine.

Farming combinable crops at scale, Clive managed the transition to a zero tillage system in 2010 with the aim of reducing costs whilst improving yields. Massive reduction in labour, fuel and capital requirements have resulted in a far more sustainable arable business, whilst providing opportunity for expansion of his contract farming business. His farming system places focus on increasing soil organic matter levels and biological health, water infiltration and capturing sunlight through cover cropping, rotational diversity and even reintroduction of livestock whilst proving that profitable food production with positive and regenerative impact on the environment is possible.



### **Andrew Barbour**

Andrew works in the family farming and forestry business in Highland Perthshire. Running both a cattle and sheep enterprise on land that is over 1000ft altitude, providing shelter plays an important part in the business. He has developed shelter woods on the farm and has experience of the management of pastoral woodlands and how they integrate with grassland management. His knowledge of agroforestry within farming systems provides a valuable resource for other farmers.



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**Deborah Barker**

Deborah works at the intersection of visual art, craft, fashion, textiles and agriculture. From her natural dye studio in East Sussex she collaborates with farmers, independent designers, makers and artists to create regeneratively grown plant dyed textiles for clothing and interiors. She is currently managing a pilot project to establish commercial dye plant crops in Southeast England with a grant from the USA fibershed. Alongside her work as a natural dyer she works as a freelance researcher, consultant and project manager for regenerative farm and fibre projects and designers. She is a fellow of the Royal Society of Arts and contributed to the RSA regenerative futures programme.



**Gala Bailey Barker, Plaw Hatch Farm**

Gala is a Director of Plaw Hatch farm, a mixed 500 acre biodynamic, community-owned farm run as a business. A first-generation farmer she studied for a degree in archaeology and went on to work as an apprentice at Plaw Hatch. She has now worked at the farm for 9 years as farmer and shepherd and been involved in most aspects of the farm. Throughout this time she has focused on improving and increasing the flock from 30 to 65 developing a successful wool business alongside producing lamb for the farm shop. The organically processed knitting yarn, blankets and sheepskins are sold through the farm shop and online and she has recently collaborated with an independent designer who will be working with Plaw Hatch wool to create knitwear for a regenerative clothing collection.



**Patrick Barker**

Patrick Barker is a farmer and conservationist from Westhorpe in Mid-Suffolk. His 533ha family farm is a LEAF Demonstration Farm, and AHDB Strategic Farm and they are past winners of both the Farmers Weekly Countryside Farmer of the Year and FWAG's Silver Lapwing award. The family business also takes on farming and environmental contracting and farm wildlife consultancy. Conservation is integral to the farm; they have a Countryside Stewardship Higher Tier scheme and Patrick's ethos is to farm in modern productive ways while having a farm full of wildlife. He is also a BTO licensed bird ringer and ringing trainer and an area coordinator for the Suffolk Barn Owl Project.



**Nick Barnard, Rude Health**

Nick Barnard co-founded Rude Health in London in 2005 with his wife Camilla. Rude Health is renowned for its innovative, delicious and nourishing foods and drinks, winning scores of awards for taste and ethical standards including many Soil Association Organic Food awards and numerous Great Taste awards. Nick is the inspiration behind the Rude Health rants, and is well-known for his infectious enthusiasm for traditional food and drinks. In 2013 and again in 2019, Nick was crowned World Speciality Porridge Champion, and continues his quest for the Golden Spurtle.

Writer of more than 16 non-fiction titles, in 2016 Nick released his first food and cook book, *Eat Right*, an inspirational upbeat celebration of positive eating. Nick's book offers achievable and simple ideas, recipes and advice on how to be nourished by traditional foods in a modern world.



**Andy Barr, Kent County Agricultural Society**

Andrew farms 1200 acres in Kent which is predominantly arable with some Romney sheep and Sussex cattle mixed in, plus a variety of diversification enterprises. He is passionate about developing conservation agriculture techniques that are economic, giving up ploughing in 2000 and mainly direct drilling for the past 11 years. He has a degree in Natural Sciences, a Post Graduate Certificate in Agrifood and is on the BASIS professional register. Currently he is a director at Kent County Agricultural Society, Weald Granary grain storage co-operative and Southern Farmers buying group and is a Farmer Focus writer for the Farmers Weekly. He is extremely keen that arable research is appropriate and communicated to farmers and previous positions include being a member of the NFU National Crops Board, the AHDB's Cereal Exports Committee and the Rothamsted Research Association board plus roles with the BCPC and NROSO.





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**Andy Bason, Newhouse Farm**

Sparsholt College graduate Andy has been the manager at Newhouse Farm for 10 years. The 800ha estate has 600ha put to arable cropping which has been min-till cultivated for two decades. Andy uses variable rate technology and has parts of the farm set aside for trials to test new techniques in crop management. Elsewhere, there is 70ha of woodland, a small sheep flock, a pig herd and a fledgling agroforestry trial. Andy is keen on communication as a former AHDB Monitor Farm and LEAF Open Farm Sunday host. In 2020, Andy was selected for LEAF and Corteva's Resilient and Ready Programme. Through the programme and the training, on-farm advice and trials offered, Andy hopes to keep developing the business at Newhouse Farm to face the challenges of the future.



**Lucy Bates, LEAF**

Prior to joining LEAF in 2019, Lucy has worked in primary horticultural production, thatching straw processing, direct sales and arable agronomy, with experience of both organic and conventional sectors. An MSc in Agro-Ecology at Harper Adams complemented her BASIS (FACTS) qualification. One of her first projects at LEAF was the coordination of a suite of four ELM Tests & Trials. Her diverse role as technical manager means daily correspondence with a thriving network of Demonstration Farms and Innovation Centres at the forefront of the development and implementation of Integrated Farm Management. As well as providing technical support to the international, ISEAL accredited LEAF Marque assurance system, she oversees LEAF's participation in six live Horizon2020 projects including on biodiversity, IPM, carbon capture and intercropping.



**Harriet Bell**

Harriet has been taking the "learn by doing" approach to agriculture for about the last decade, having transitioned from campaign coordinator for a national climate change campaign focussed on carbon reduction, to work on an organic beef farm in Devon. At the Dartington Hall Trust, Harriet worked alongside the farm tenants in establishing a diverse portfolio of agroforestry initiatives across the estate. In particular the Broadleaves silvo-arable system, which brought together 5 businesses in an innovative land share agreement, and a field trial to find the tree guard which can withstand goats.

Currently to be found endeavouring to coordinate the Dartmoor National Park ELM Test & Trial. The question she'd most like an answer to is what are the landscape changes we can make now, on a sound commercial basis, that deliver a resilient, ecologically rich, healthy food producing landscape under 2080 climate scenarios and beyond.



**Tim Benton, Royal Institute of International Affairs, Chatham House**

Professor Tim Benton is Research Director in Emerging Risks, and Director of the Energy, Environment and Resources Programme at the Royal Institute of International Affairs. From 2011-2016 he was the "Champion" of the UK's Global Food Security programme which is a multi-agency partnership of the UK's public bodies (government departments, devolved governments and research councils) with an interest in the challenges inherent in delivering food security around the world. He was an IPCC author on the Special Report on Food, Land and Climate, and a former Agenda Steward of the World Economic Forum. He has published over 150 academic papers, many on the topics of agriculture and its sustainability. His particular interest is currently on food system resilience in the face of climate change. His work on sustainability has recently been recognised by the award of an honorary doctorate from Belgium's oldest university, Université catholique de Louvain.



**Richard Benwell, Wildlife & Countryside Link**

Richard Benwell is chief executive of Wildlife & Countryside Link. Previously he has been policy adviser to the Secretary of State at Defra, worked on policy and advocacy at WWT and RSPB, and served as a director of Westmill Solar Cooperative and a clerk in the House of Commons Commission.





**Clive Blacker**

Clive Blacker has been involved with Precision Agriculture for over 22 years and was one of the pioneers of precision farming technology in the country. After adopting Precision Farming and using the technologies on his home farm in 1998 he now provides, technologies, solutions and data insight to farmers and agribusiness wanting to get more from their soil, equipment, data and protect the environment. He continues to challenge the boundaries of technology to connect, inform and transform data to increase productivity and profitability of farmers globally. After successfully growing the first crop in the world totally robotically (The Hands Free Hectare) with Precision Decisions, he continues to push innovation to benefit the industry.



**Rosie Boycott**

Baroness Rosie Boycott is a journalist and publisher. She has edited national newspapers and in 2008 was appointed as the chairman of London Food Board to advise the Mayor of London to help improve Londoners' access to healthy, locally produced and affordable food. This role evolved in 2016 when Rosie was asked to lead the development of a new London Food Strategy which was to help the food system to work better to meet the needs of everyone who lives and works in London. She chairs Veg Power and is a trustee for Food Foundation and Feeding Britain and also is a trustee of The Hay Festival.

Since becoming a member of the House of Lords in 2018, she continues to speak about the importance of food in tackling childhood obesity, improving health and putting an end to hunger.



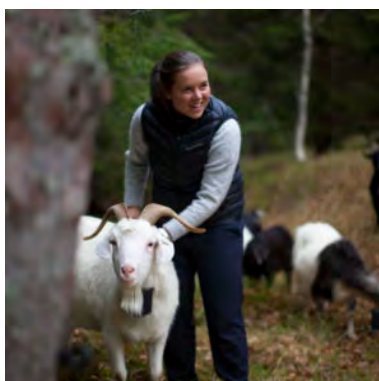
**Georgie Bray, RSPB Hope Farm**

Georgie started working at RSPB Hope Farm in 2017, as an assistant and now farm manager. There, Georgie oversees the land management on the farm's research projects, working with the contractor on both the cropping and conservation operations, and the communications strategy. At hope farm, the core aims are to achieve nature-friendly farming, without insecticides, turning a profit, and slowly moving the farm further along the path to true regenerative agriculture. Recently, net zero farming has come to the forefront of the farms strategy to fit in alongside these core objectives. Georgie also advises on the environmental management back on the family farm at home.



**Stephen Briggs, Abacus Agriculture**

Stephen is Soil and Water manager at Innovation for Agriculture and Senior Partner at Abacus Agriculture. Stephen been providing farm business consultancy throughout the UK and internationally for over 20 years and has delivered soil, water and crop advice and training to many UK farmers. He has previously worked for DFID, FAO, the World Bank & private Co's in Africa, India & China. Stephen has an MSc in Soil Science, a 2011 Nuffield Scholar and received the Prestigious 2020 Bullock Award for the Scholar who has most influenced the industry. At home, Stephen farms 270 acres of land in Cambridgeshire & Rutland growing cereals, root crops, vegetable and fruit crops and is pioneering agroforestry, growing apple trees and field crops together. He has guest lectured at Universities and has held posts on UK Government Policy and Research and Development Committees. He is active in influencing agricultural policy at UK and EU levels.



**Synne Foss Budal, Nofence UK**

Synne Budal is the General Manager of Nofence UK Ltd. She has been working in Nofence since 2019. She recently relocated to the UK in order to set up our subsidiary. Synne is passionate about the product, and truly believes that farming is the solution to the global climate change challenge.

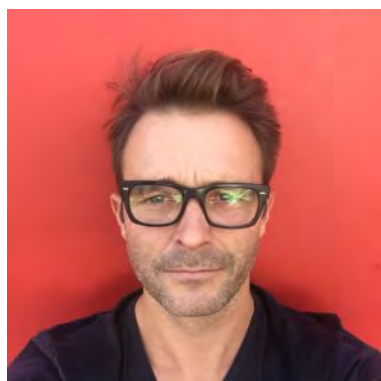




### **Dan Burdett, Cockhaise Farm**

Dan runs 2 organic dairy farms on contract farming agreements, supplying milk to Mcdonalds through Arla. Before returning to farming aged 30, Dan lived and worked in London, working in sales and marketing roles. Both farms are autumn calving and aim to make the most from home grown forage, grazing and ensiling herbal leys.

Cockhaise Farm is his family farm run alongside his Father, Jeremy, whilst Bore Place Farm is run in partnership with the Commonwork Organic Trust, an organisation which aims to connect people of all ages to the food they eat and the countryside around them. Daniel recently completed his Nuffield Scholarship with his report entitled “Regenerative Agriculture – How to make the change happen”. The report looked at the challenges faced in changing the way you farm and how to broaden its appeal to a greater number of farmers.



### **Glen Burrows, The Ethical Butcher**

Glen Burrows is the cofounder of The Ethical Butcher and a former vegetarian of 25 years. He formed the company with meat trader Farshad Kazemian with the intention of bringing a new level of traceability and transparency to the meat industry. In just over a year of trading The Ethical Butcher has proven to be an industry disruptor as it champions the farmers which supply the business and tells their stories of regenerative agriculture getting this important message to the public. Since its inception the brand has challenged all aspects of meat production and found itself a target for vegan activists for its claims of regeneration.

Back in January 2020 Glen coined the term Regenuary to challenge the movement of Veganuary which encourages a month of veganism, instead of avoiding animal foods regenuary asks people to look at sourcing as much as possible from regenerative agriculture for a month.



### **Andy Cato, Wildfarmed**

Andy Cato is a mixed arable and livestock farmer and co-founder of Wildfarmed. He is the first Englishman to be awarded the Chevalier L'Order Merit de Agricole for services to agriculture. Andy's unique Wildfarmed method brings the concept of rewilding to farming, combining the best of nature with modern technology to create thriving ecosystems and diverse, healthy soils. His original 100Ha farm in Gascony, awarded the prestigious Lauréat National de l'Agro-Ecologie 2020. Now back on British soil, Andy is on a mission to take what he's learned and help other farmers adopt his Wildfarmed system so they can produce wheat that is not only more tasty and nutritious, but that eats up huge quantities of CO2 and restores biodiversity.

The National Trust recently awarded Andy a rare 20 year tenure of a 295Ha organic farm in Oxfordshire which will become the home of Wildfarmed.



### **Tom Chapman**

Tom Chapman is a Nuffield Scholar, mob grazer and consultant specialising in regenerative agriculture. He was one of the first people to introduce mob grazing into the UK and grazes his own cattle on several sites across East Anglia. He sees livestock as a key tool for improving soil health and works closely with a number of arable farmers to help them to introduce cattle and other livestock back onto their land. He is always looking for additional grazing for his growing herd and can be contacted on 07717 505287 or at [tgvc@hotmail.co.uk](mailto:tgvc@hotmail.co.uk)



### **John Cherry, Groundswell**

John Cherry farms the Groundswell host farm with his brother Paul. His initial enthusiasm for no-till farming stemmed from laziness and an urge to avoid bouncing around on tractor seats, but the further the brothers advanced down the road of continuous no-till, the more obsessed John became about the various soils on the 2500 acres that they farm and how they should be looked after. The Groundswell show came about because he had too many questions that no-one had satisfactory answers for and the easiest thing seemed to be to gather all the experts in one place and see what happened. The result exceeded all expectations...





### **Paul Cherry, Groundswell**

Paul has been farming at Weston Park Farms for 35 years with his brother John. Over the years the farm has expanded from 950 to 2,000 acres of arable (now all zero tilled) and 500 acres of pasture providing grazing for 150 head of commercial Beef Shorthorn herd of cattle. John and Paul started farming on a plough based system, but quickly moved to max-till, discing and pressing, but were aware that the heavy clay from which the farm comprises was getting more difficult to work. The window of opportunity when conditions were perfect seemed to be fewer and fewer. It was during a heavy autumn shower when they watched a neighbour's ploughed field gradually forming rivers then gullies as the topsoil moved down the hill, while their side of the valley, still in stubble stayed put that they realised that it was time to do something.



### **Helen Chesshire, Woodland Trust**

Helen Chesshire is a senior advisor for the Woodland Trust, responsible for working with the farming sector to promote the benefits of trees on farms. Otherwise known as agroforestry, the deliberate integration of trees within agricultural crops and livestock is a win –win for food production and the natural environment. The Woodland Trust can provide advice and support to farmers interested in agroforestry. Helen grew up on a mixed farm in the Midlands.



### **Mateusz Ciasnocha**

Mateusz is a 700ha third-generation regenerative farmer from Poland on a mission of transitioning agricultural and food systems from conventional to regenerative with the farmer in the centre.

Mateusz is living his mission on local, European and global level through creating and working with spectacular platforms, which are: European Carbon Farmers, which Mateusz founded; EIT Food, where Mateusz leads Regenerative Agriculture Program in Poland; the COP26 – Race to Zero, where Mateusz is a Regenerative Agriculture Fellow; and the Economy of Francesco, where Mateusz co-leads the Farm of Francesco.

For his leadership in the agricultural arena, Mateusz was invited to join the UN Food Systems Summit Champions network.



### **Chris Clark, Nethergill Associates**

Chris is a partner in Nethergill Associates, a business management consultancy, with expertise in financial management, marketing and farm business planning. He has 30+ years of management experience and running an eco-hill farm business and is a member of the North Yorkshire Rural Commission and England Chairman for the Nature Friendly Farming. The work of Nethergill Associates has researched in detail the interaction between farm businesses and nature. With the link now found to farm to maximum sustainable output (MSO), their latest work outlines how this works for arable farmers.



### **David Clarke, Soils and Farming Systems Research Technician**

Soils and Farming Systems Research Technician at NIAB, providing technical support to research projects investigating cultivations, cover cropping, rotations and the use of manure and soil amendments I am also a CENTA PhD candidate at Cranfield University researching how to better manage spatial and temporal variation in productivity across farm.





### **Dan Crossley, Food Ethics Council**

Dan Crossley is Executive Director at Food Ethics Council, an independent think tank whose mission is to accelerate the shift towards fair food systems that respect people, animals and planet. Dan has worked on food sustainability issues for over 15 years, leading work on issues from our relationship with meat to addressing household food insecurity to power dynamics in food systems. Previously, he worked for a food manufacturing company before leading Forum for the Future's work on sustainable food.



### **Angus Dalton, Daltons Dairy**

A first-generation farmer, Angus is in a farming partnership with his wife Sue and son and daughter in-law Henry and Rosa. They farm around 750 acres of grassland lying at 500 – 1100 feet at the southern tip of The Peak District. Having followed a very conventional path in dairy farming, the business moved to more of a grazing system in 2008. In 2012, a Once a Day (OAD) herd was established, milking alongside the current herd. 2 years of well costed and recorded information led to the business going fully OAD in 2014. The next step, was moving fully grass fed in 2018. The herd now profitably operates a very simple low input grazing system. Daughter Rosie has also returned home, working entirely on the value-added diversification, Daltons Dairy, which started with making ice cream in 2017. It now also produces milk, butter and cheese with sales largely through the farm's honesty shop.



### **James Daniel, Precision Grazing**

James is a farm advisor and grazing consultant. He founded Precision Grazing in 2016 and since then has worked with farmers across the UK, enabling adoption of managed grazing techniques to improve productivity, resilience and bring environmental benefits. He is also involved in a number of grazing management research projects as well as advising in the Agritech space.



### **Ian Davis**

Ian Davis breeds suckler cattle on his Hertfordshire farm. He studied at Harper Adams in the 1980's then returned to the family farm. He joined the National Rivers Authority in 1991 when BSE hit the income of the farm. He was transferred into the Environment Agency where he contributed to several national R&D projects and was the flood risk lead for the 2012 London Olympic park.

He resumed full-time farming in 2015 and has become focussed on reducing the environmental impact of Agriculture. He has completed the Savory Holistic Management training and operates Holistic Planned Grazing. He is a chartered member of the Chartered Institute of Water and Environment Management where he sits on the Natural Capital Panel. He is also a member of the Middle Lee Catchment Partnership, the Central Herts Green Corridor Group and is a trustee of Celtic Harmony, an outdoor educational charity.



### **Robin Dean**

I'm a second generation beekeeper, originally from South Africa, and I have worked with bees in a number of countries. My personal interest is in managing bees for crop pollination, and as a contract beekeeper for research institutions and eco toxicology studies.





**Mark Dewes, Agrii**

I am an arable/rotational pasture farmer and an agronomist from Warwickshire. I began working as an independent agronomist in 1996 with ADAS, NIABTAG and the AICC. I joined Agrii as a distributor agronomist in 2015. My experience in both the independent and distribution sectors has led me to consider the future role of agronomists. It is clear that the role of most agronomists has been defined by the management of pesticide use and in recent years it has also become clear that reliance on pesticide use will and should reduce. Logically, these factors will and should change the relationship arable farmers have with agronomists. A Nuffield Scholarship, where I looked at agronomy models and their impact on pesticide stewardship in 2018 and ongoing Post Graduate Studies in Sustainable Food production at IBERS have helped me to develop some ideas on how things should change.



**Charles Dowding, No Dig Gardening**

Charles has made no dig gardening popular. His readers and viewers learn how it's good for soil, healthy for plants and easy for them. His books and videos give other timesaving ways to garden, as applicable for small areas as large ones. His methods are used by millions of gardeners worldwide.

Since 1982 he has created and cropped four no dig market gardens on different soils: from stony to clay. In the 1980s he cropped 3ha of no dig beds. Currently he grows vegetables on 1300 square metres, for local sales of salad leaves and vegetables. Most beds grow two crops a year.

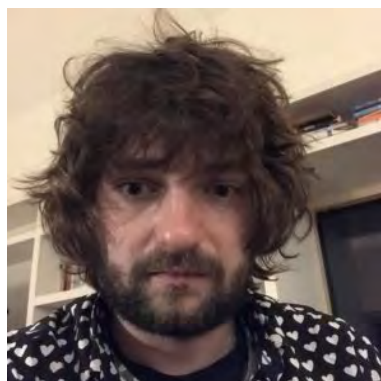
He has written ten books of which two are self published, runs a You Tube channel and Instagram account, has created online gardening courses, writes for gardening magazines, and gives talks/courses online, at home and abroad. ) <https://charlesdowding.co.uk>



**Shaun Dowman, Affinity Water**

Shaun Dowman is an environmental scientist with over 15 years experience of working within academia, environmental regulation and the water industry. Shaun's work has focused on how land management can influence the health and resilience of the UK's waterways. As agricultural advisor for Affinity Water his work targets catchment solutions that help improve water quality and reduce reliance on water treatment. Using knowledge of land management and the aquatic environment he works with farmers to help safeguard drinking water catchments and enhance the farmed environment.

Affinity Water are a water supply company operating in the south-east of England and as the proud headline sponsor of Groundswell 2021 are keen to promote farming practices that are beneficial for soil, water and the wider environment.



**Adam Driver**

Adam farms land for multiple land owners. This consists of rented, contract farmed and bespoke management agreements as well as the small family farm. Zero till is practiced over most of the area. He currently working on slowly reducing our inputs and learning about treating the causes of agronomic issues, not just the symptoms. Adams main aims for the future are to continue to develop long term mutually beneficial relationships with land owners with a long term focus on profit and natural enhancement of the asset by farming in an ecologically and economically sustainable way. He believes these two go hand in hand.



**Caroline Drummond MBE, LEAF**

With over 40 years' experience in the farming and environment sector Caroline has been running LEAF since it began in 1991. Her work is dedicated to securing more sustainable farming practices and positive action to address climate change, through nature-based solutions, circular agriculture including Integrated Farm Management (IFM), whilst building better public trust and understanding of farming, food, health and the environment. These are values that she is personally extremely passionate about. Caroline is actively involved in a wide range of government and industry partnerships and initiatives across the UK, Europe and Worldwide.

Caroline has led LEAF for over 30 years with a passion to encourage farmers to deliver more sustainable farming approaches and engage consumers through events and training packages.





### **Bridget Elworthy & Henrietta Courtauld, The Land Gardeners**

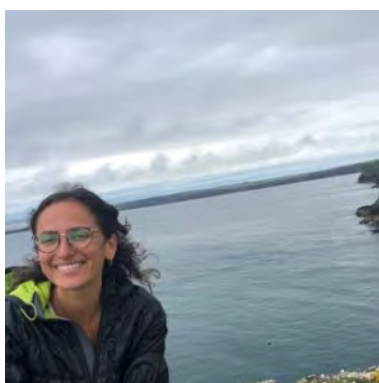
Henrietta Courtauld and Bridget Elworthy established The Land Gardeners to research plant and soil health. The Land Gardeners are producing and developing a compost that regenerates soil microbial diversity. The unique process turns raw organic matter inputs into high quality compost in as little as 8 weeks, providing a real solution for the fertility of our agricultural soils.



### **Lizzie Emmett, Wensum Farmers Group**

Brought up as a farmer's daughter in the heart of Norfolk, farming is truly in my blood. Employed by a collective of farmers and experienced at incentivising landowner participation and collaboration for positive land use change, I now run and advise one of the most successful farmer clusters in the UK – the Wensum Farmers Group.

My job is to tactfully inspire and motivate, to build long-lasting, trusting relationships that create real change on the ground. From gathering unique water testing data used to fight against NGO stigma to restoring some of the most unique ponds in the country – all whilst preparing farms for ELM – I work with farmers 1:1 & as a group to improve farm business resilience and enhance the ecosystems they farm within.



### **Tessa Etkin-Silver, Be the Earth**

Tessa Etkin-Silver is an Investment Director at Be the Earth. Be the Earth is a hybrid organisation investing both for profit (venture capital) and for purpose (philanthropy) to strengthen local and regenerative food systems and protect indigenous practices and land. Be the Earth works collaboratively with individuals and organisations that are regenerating soil, igniting souls and repurposing society.

Tessa is interested in the complex relationship between profit and purpose and is exploring systems that allow funders and farmers, activists, and entrepreneurs to work together to effectuate change.



### **Rt. Hon. George Eustice MP**

George Eustice was appointed Secretary of State for Environment, Food and Rural Affairs on 13 February 2020. He was previously Minister of State at DEFRA from 11 May 2015 to 13 February 2020. He was elected as the Conservative MP for Camborne and Redruth in 2010.

George served on the EFRA Select Committee from 2010.

Coming from a farming background, his family still run a fruit farm, restaurant and farm shop in Cornwall where they also have a herd of South Devon cattle and the country's oldest herd of the rare breed of pig, the British Lop.

The family have shown a keen interest in educating children about farming and have opened their farm to 3000 schoolchildren a year.



### **Jyoti Fernandes, Landworkers Alliance**

Jyoti Fernandes is a Dorset smallholder farmer on a regenerative agroecological holding producing fruits, preserves, cider, lamb and cheese sold locally. The farm is home to collectively owned processing facilities which over 50 local farms can rent to add value to their homegrown produce. She is head of policy at the Landworkers Alliance, a union representing agroecological farmers foresters and landworkers in the UK.





**Tim Ferris, Vine-Works**

Tim is fascinated by grapevines and was introduced to vineyards at his uncle's farm in Zimbabwe. He was taught about the grapevine lifecycle early on as well, and has developed a love of rearing vines. Tim also has an MBA from Fresno, California and has worked in the wine industry in three continents.



**Dave Fitzgerald, Kellogg**

Dave Fitzgerald leads European Responsible Sourcing for Kellogg. He has worked for over 20 years in the food and beverage sector including 15 years with a major drinks multinational and more recently for 4 years with a dairy cooperative as Group Head of Sustainability. In his current role Dave works with Kellogg's suppliers to ensure that the ingredients, packaging materials and services they supply are sustainably produced and delivered. This includes leading the Origins Program™ where Kellogg invests in sustainable agriculture projects with growers and includes a wheat project in the UK and a rice project in Spain.



**Jo Franklin, Kaiapoi**

Graduated from Harper Adams with a BSc in Agriculture and Crop Production. Jo went to work as an agronomist for ProCam then Agrovista, advised in the field for over 10 years before giving it all up to farm in her own right. Jo ran her family's arable farm and contracting business alongside her agronomy for many years until the opportunity for Jo and her partner Rob came along to set up on their own in 2014. Jo and Rob set up 'Kaiapoi' a mixed sheep and arable farm in North Hertfordshire, they now have a 2500 New Zealand Romney stud flock, 800ac of permanent pasture and 1600ac of arable cropping – land which the sheep occupy in the winter. Jo completed a Nuffield Farming Scholarship in 2010 and presented a paper titled 'Soil and Crop Nutrition'. Jo has transformed her tenanted farms into truly sustainable and regenerative farming models. In 2016 Jo and Rob were runners up in Farmers Weekly Sheep farmer of the Year.



**Darcy Gander, Vine-Works**

Darcy's passion for all things viticulture go back to his Sussex roots and a childhood visit to pioneering vineyard Breaky Bottom. He has been involved in vineyard management since 2004 and his company are the UK market leader for 'boots on the ground viticulture'.



**Colette Garner, Catchment Sensitive Farming**

Colette Garner is an air quality advisor in the Catchment Sensitive Farming (CSF) partnership national team and is a member of the Natural England Air Quality Network. CSF offers advice to farmers in priority areas in England on farm practices and infrastructure improvements to reduce air and water pollution from farming.

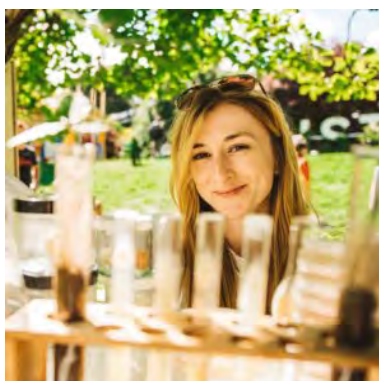
Colette studied Wildlife Management at Sparsholt College and then worked as an environmental consultant for the Highways Agency before spending time with the Maya community in Mexico teaching English in the jungle. She returned to study Sustainable Agriculture as a postgraduate at Harper Adams University and subsequently worked with FWAG as a Farm Advisor, and Natural England as a Land Management and Sustainable Development Advisor; compiling agri-environment scheme applications and assessing environmental impacts of development proposals.





### **Liz Genever**

Liz loves working with progressive farmers who want to challenge their sheep and beef systems – particularly those introducing livestock into an arable business. She has a technical background in sheep and beef fertility and breeding and grass and forage management. Since visiting New Zealand in 2008, she developed tools and techniques to help UK beef and sheep farmers to improve their knowledge of grass and forage management. She is a partner in her family farm with arable, sheep and beef enterprises in south Lincolnshire.



### **Emma Gilmartin, Woodland Trust**

Emma Gilmartin is the Woodland Trust's conservation adviser for trees. She specialises in the ecology and wildlife of veteran and ancient trees (our largest, oldest or featureful trees). Wood decay fungi in living beech trunks were the subject of her PhD research.



### **Giacomo Giordano**

My name is Giacomo Giordano, I am a 30 year old Italian farmer living on the Island Fehmarn in Northern Germany. My mission is to evolve the agricultural practice of today in Europe as well as the LEDCs. Merging theory of Permaculture, Regenerative ag, Agroforestry holistic management, which I believe, shares the same core value of “care for our Common Home”.

Having a background in the wine industry being attentive has always been a great part of my being. In the same way that pasta is different from noodles even though both are made of flour and water, any agricultural product is unique. The one single “ingredient” that changes up everything is attention. Thus, attention, compassion and devotion for the greater good of humanity is what drives me profoundly.



### **Mike Gooding, Farmers First**

Mike Gooding is a Director of Farmers First, with its two abattoir operations Farmers Fresh at Kenilworth, and Farmers Fresh Wales which started its Wrexham plant in April 2018. Farmers First, which started with Farmers Ferry, is owned by 2,700 farmer shareholders from all over the UK and seeks to develop market opportunities in both the European and domestic markets. Its primary objective is to improve returns to UK livestock producers, and today is responsible for processing about 1 million lambs per year, the majority of which are exported to the EU. To put that in context, that is about 10% of all the lamb produced in the UK. The company has an annual turnover of £100 million and employs about 175 people.

Mike is also Chairman of RAFT Solutions a veterinary research and training business, involved in the development of new technologies in the animal health sector.



### **Jenny Goodman**

Dr Jenny Goodman qualified at Leeds University Medical School in 1982, and is a member of the British Society for Ecological Medicine. She has specialised in Nutritional and Environmental Medicine for the last 20 years. Jenny has lectured extensively, to other doctors, to practitioners of alternative medicine, and to the general public. She ran a case-discussion group for 10 years, where medical and naturopathic/nutritional practitioners share knowledge and clinical experience. She is the author of “Staying Alive in Toxic Times: A Seasonal Guide to Lifelong Health”, published in Jan 2020 by the Yellow Kite imprint of Hodder & Stoughton.





### **Derek Gow**

Derek Gow is a farmer and nature conservationist. Born in Dundee in 1965, he left school when he was 17 and worked in agriculture for five years. Inspired by the writing of Gerald Durrell, all of whose books he has read – thoroughly – he jumped at the chance to manage a European wildlife park in central Scotland in the late 1990s before moving on to develop two nature centres in England. He now lives with his two children on a 300-acre farm on the Devon/Cornwall border which he is in the process of rewilding. Derek has played a significant role in the reintroduction of the Eurasian beaver, the water vole and the white stork in England. He is currently working on a reintroduction project for the wildcat.

Derek's book "Bringing Back the Beaver" will be available to purchase in the Groundswell Bookstore.



### **Alfred Grand, Grand Farm**

Alfred Grand is an organic arable field farmer, market gardener and entrepreneur from Austria. Alfred is a member of three soil-related EIP-Agri focus groups, three EIP-Agri operational groups and several Horizon 2020 projects. Alfred Grand is co-author of the book 'Biodünger selber machen' (Make your own fertilizer). In 2019 he was selected as a member of the Mission Board for Soil Health and Food for developing a mission for Horizon Europe. He is also a board member at the Californian initiative Regenerative Organic Alliance.

Grand Farm is a 90ha research and demonstration farm, focusing on soil-health, agroforestry and market gardening. Every year, Grand Farm provides infrastructure to five to ten different research projects which are conducted together with universities and research institutes. In 2015, a cooperation with Rodale Institute was established, to carry out trials and research in organic no-till methods.



### **Peter Greig, Pipers Farm**

Peter Greig is the co-founder of Pipers Farm, which he started thirty years ago with his wife, Henri on their 50 acre permanent pasture farm in Devon. Now, they have established a sophisticated online marketplace for sustainably produced British meat, dairy and grains, which directly supports a network of 30 small-scale family farms.

Pipers Farm has long been committed to preserving small scale mixed family farms and allowing them to thrive without having to become increasingly industrialised in their operation. By focusing on each individual farm and the opportunities their land or crops present, they are able to support these businesses in diversifying their operations and provide a guaranteed and simple route to market.



### **Caroline Grindrod, Primal Meats**

Caroline has a background in environmental conservation and hill farming in the Northern uplands of the UK and has been involved in developing sustainable food and farming businesses for over 20 years.

Caroline is a consultant, coach and authentic communicator supporting food and farming businesses to smoothly transition to regenerative agricultural systems. An accredited professional with the Savory Institute, Caroline uses the holistic management framework to underpin her projects.

The co-founder and a Director of Primal Meats, an online 100% grass-fed meat business supporting regenerative farmers, and Wilderculture CIC, a social enterprise supporting the transition of hill farms and large upland estates to regenerative systems, Caroline ensures she is developing projects that tackle issues in all links of the regenerative supply chain.



### **Louise Hackett, Woodland Trust**

Louise Hackett is development lead for the Woodland Trust's Sherwood Treescape in Nottinghamshire. Louise is an advocate for landscape scale conservation, with a background of specialising in ancient woodland restoration and a passion for ancient trees and wood pasture.





### **Mark Hall, Syngenta**

Mark grew up on a Bedfordshire arable and dairy farm and following 3 years studying Agriculture at the Royal Agricultural University joined Velcourt as assistant manager on a root crop and arable farm in south Lincolnshire. He progressed to a Farm Management role in the Cotswolds and built up a portfolio of agronomy services to compliment the farm management work.

In 2020 he and his wife were successful in tendering for a long term Farm Business Tenancy on a 200ha farm next to the family's farm in Bedfordshire and have started the new business as a regenerative agriculture system growing wheat, barley, beans and canary seed with a small herd of beef cattle and countryside stewardship scheme options throughout the farm. In January he joined Syngenta in his current role, leading the development of Syngenta's practical research and offers in precision application, soil health, biodiversity and carbon farming.



### **Richard Harding**

Everything I do is driven by a passion to produce great tasting, healthy and nutritious food. I believe we have to go beyond sustainability to being truly regenerative and see agriculture as an integral part of a circular economy. An unashamedly but realistic eternal optimist at all times seeking out new and better ways of producing food. I feel very lucky to have grown up in Sidmouth, East Devon and after studying Agriculture at Harper Adams now work as an agronomist passionate about working with innovative rural farm businesses across the South of England and beyond. At the core of future proofing the rural farm business is knowledge transfer and I feel very proud to be working with the team at Groundswell, food producers with a production system that unashamedly starts with the soil.



### **Tamsyn Harrod-Beck, Good Food Revolution Gloucestershire**

In 2016 Tamsyn started BoomCircle Ltd, which exists to activate change and put the healthiest, regeneratively farmed food onto people's plates.

Working with companies, charities and local government BoomCircle fills the crucial project development gap between knowing what the problem is and actually getting organised to do something about it.

In 2017, Tamsyn started a food and farming strategy group within Gloucestershire. Ever emerging, this partnership – now called Good Food Revolution Gloucestershire – has +30 partners and funded programmes that work together at a local level to realise the potential of food and farming as a force for change.



### **John Hawkins, Bagber Farms**

John is a third generation tenant arable farmer managing approx. 239.000Ha in Mid Dorset. Four years ago using support from Mid Tier CS and Wessex Water and other complementary systems he turned his whole farm into a giant experiment (a sort of ELMS trial) to see if Regenerative Agriculture was a viable alternative to intensive production whilst still seeing if he could grow food and energy crops more sustainably. Every week some new broad spectrum knowledge makes this process even more exciting for him and others with the passion for trying new systems. Current themes include using Soil Carbon increases to maximise Nitrogen efficiency on farm and maximising agricultural business productivity for the future whilst relay cropping using RTK guidance to No till only 50% of his soil. When not farming he can be found nurturing a young family which is another full time job!



### **Clare Hill, FAI Farms**

Clare Hill is Regenerative Agriculture Director at FAI Farms leading both the regenerative transition on the 1200 acre farm under her care and regenerative programmes and projects with FAI's food business clients. The farm transition began with a desire to remove grain from ruminant diets and reduce housing costs but are now operating a full Adaptive Multi Paddock grazing system and have passed their Ecological Outcome Verification with the Savory Institute in their first year.

Clare and her team have been through a transformation in the way they make decisions and approach the management of the farm. Recognising that the unlearning and relearning which had taken place has been key to the success of their transition, FAI are working on training and support for other people interested in regenerative agriculture through the whole supply system from farmers to retailers.





### **David Hill, The Environment Bank**

David is chairman and founding owner of The Environment Bank Ltd which he set up in 2006 to introduce the concept of compensation, via biodiversity offsetting, net gain and habitat banking, into the UK. David's concept of biodiversity compensation, ensuring developments provide net gains to biodiversity, has been embedded into the government's 25-year Environment Plan, the National Planning Policy Framework and the Environment Bill. It is to be enacted in law in 2021 whereby biodiversity net gain becomes a mandatory legal requirement of the planning and development control system.

He is a passionate conservationist and wildlife photographer. He has a farm dedicated to conservation in Nidderdale and Swaledale, North Yorkshire.



### **Vicki Hird, Sustain**

Vicki Hird is an award-winning expert, author, strategist and senior manager who has been working on environment, food and farming issues for over 30 years. As Head of Sustainable Farming at Sustain, Vicki manages the farm team, policy, research and related campaigning and provides comment and guidance on these issues.



### **Andrew Howard**

When I came back to the family farm in Kent in 2003, after having studied at Durham University and at the Royal Agriculture University, wheat was £60/t. This financial pressure led to looking closer at soils and soil health. My research made me realise there was another way of farming that did not involve high energy and chemical inputs.

For the past 18 months I have been working with Abacus consulting providing UK farmers with practical farmer driven advice to help them on their Regenerative Ag journey. This can be a one-off visit, virtual consultations or longer term regular advise. I believe I can give an alternative type of advice to a typical agronomist as I have the experience of setting up machinery, planting and managing my own crops (a Farmer's point of view). Groundswell Agronomy fits perfectly with this work and I am excited to get the Regen Ag message out to a larger audience.



### **Rob Howe, LLM Farm Vets**

Rob co-founded LLM Farm Vets in Lancs where he continues in practice today.

Passionate about wildlife, the environment and opportunities within farming to bolster both, has led him to implement a range of novel services including 'Integrated Parasite Management' which focuses on dung beetles to engage even those not naturally predisposed to digging through pats or thinking about worms!

He has brought together an array of experts in this field to found the 'Dung Beetle Trust' which will compliment and expand the excellent work of DBFF.

Rob sees sustainable parasite control as an obvious entry point for vets to engage with less obvious areas such as biodiversity action plans, surveys and soil health services.



### **Janet Hughes, DEFRA**

Janet is Programme Director for Defra's Future Farming and Countryside Programme – the team that's responsible for transforming the way we support and regulate farming and the countryside in England. Over the next 7 years, the programme will be closing down existing schemes and rules and replacing them with Environmental Land Management, grant support, innovation, R&D support and a new approach to regulation and enforcement. Janet's job is to make sure the programme delivers all this successfully and in a way that works for farmers and achieves the intended outcomes.





### **Phil Jarvis, GWCT Allerton Project**

Phil is Head of Farming, Training and Partnerships at the GWCT Allerton Project. The farm based in Leicestershire has, until recently, been in an 800 hectare, arable and livestock joint venture.

The demonstration farm has been extremely influential in feeding into UK landscape policy and is involved in many National and European collaborations. Carbon and biodiversity form the cornerstones of a climate friendly approach to land management. Phil has an interest in streamlining policy and research into practical effective applications for farmers and land managers.

Phil is the current Chair of the Voluntary Initiative, an industry led organization promoting the responsible use of plant protection products through the adoption of an IPM-based approach to deliver responsible protection of environmental resources and sustainable food production.



### **Nick Jeffries, Ellen MacArthur Foundation**

Nick is a senior expert at the Ellen MacArthur Foundation, which has a mission to accelerate the transition to a circular economy. Since 2017, Nick has been part of the Foundation's food initiative, working with individuals and organisations from across the food industry in different regions of the world, to better understand how circular economy thinking can contribute to a positive food system transformation. Nick is a professional environmental engineer, lives on the Isle of Wight and is in the process of developing his own 20-acre agroforestry project.



### **Adele Jones, Sustainable Food Trust**

Adele Jones is Deputy CEO at the Sustainable Food Trust. She has been with the SFT since 2013, primarily focusing on projects including true cost accounting in food and farming and the harmonisation of farm-level sustainability assessment. In 2020 she undertook a part time secondment with the Welsh Government working on an annual sustainability assessment for Welsh farmers called the 'Farm Sustainability Review'. Between September 2018 – 2019 she completed a part-time secondment with DEFRA working on a project called the 'Gold Standard Metric', which aimed to harmonise government-led farm and supply chain sustainability metrics. Previous to these roles, Adele has a background in geography and soil science.



### **Matt Jordon**

Matt is interested in ways to improve the sustainability of livestock production by increasing delivery of ecosystem services from farmland. His research focuses on incorporating trees into sheep and cattle farming systems (silvopasture) and other farm management practices that increase soil carbon whilst continuing food production, such as re-integrating leys into arable rotations. Matt's family farm sheep and beef cattle in Northumberland.



### **John Kempf, Advancing Eco Agriculture (via videolink)**

John Kempf is the founder of Advancing Eco Agriculture, a plant nutrition and biostimulants consulting company. A top expert in the field of biological and regenerative farming, John founded AEA in 2006 to help fellow farmers by providing the education, tools and strategies that will have a global effect on the food supply and those who are growing that supply.

Through intense study and the knowledge gleaned from many industry leaders, John is building a comprehensive systems-based approach to plant nutrition – a system solidly based on the sciences of plant physiology, mineral nutrition and soil microbiology.





### **Nigel Kendall**

Dr Nigel Kendall is from a mixed family farm in Devon and went to University of Leeds to study for a BSc(hons) in Animal Science and then stayed for a PhD in the area of trace element nutrition. After some post-doc work at Leeds, he moved to Nottingham and worked on nutritional interactions with reproduction before taking up his current position as Lecturer in Nutrition at the new School of Veterinary Medicine and Science where he runs a nutritional veterinary diagnostic service and continues to research in animal nutrition and production. Recently much of this work has looked at the trace element supplementation and management of grazing sheep, including recently the use of trees.



### **Calixta Killander, Flourish**

Calixta's journey into farming began when she spent 6 and a half years working on a range of organic farms across the USA, from tropical fruit and nut production in Hawaii to farming 150 acres in Massachusetts using only working Belgian Draft horses. Flourish was founded in 2017 when she returned to the UK to grow unusual produce for chefs with her heavy horses Bill and Ben.

Initially just a market garden, the farm now grows vegetables, herbs, heritage grains, salads, flowers and fruit on 56 acres, with an ever-expanding product list as the farm diversifies more and more.

The whole ethos behind Flourish is to cultivate healthy soil, encourage biodiversity and to produce beautiful, nutrient dense food using ecological growing techniques, all supplied to the consumer directly, without a middle man.



### **Jeroen Klompe**

Jeroen is a leading innovative regenerative farmer in The Netherlands. An entrepreneur, businessman, impact investor and third generation farmer, Jeroen believes strongly in the power of both nature and technology for good. Klompe Landbouw is an arable farm of approx 360 hectares just south of Rotterdam in The Netherlands. Passionate about food taste and quality, and short vertical supply chains, Jeroen has also supported a number of start-up food businesses including Rechtstreex and Tomasu, and delivers regenerative food to companies such as Jack Bean.



### **Stuart Knight, NIAB**

Stuart Knight is deputy Director of NIAB. He is a research agronomist with experience in applied crops research, combinable crop trials and field experimentation, knowledge exchange, and providing technical advice to farmers and agronomists. He has broad expertise in combinable crop agronomy and its impact on crop yield, quality, resource efficiency and profitability, including: monitoring and control of cereal fungal diseases; evaluation of new crop protection chemicals, as well as managing within-field variation and decision support.



### **Anna Krzywoszynska**

Anna Krzywoszynska is a Faculty of Social Sciences Research Fellow. She is also an Associate Director at the University of Sheffield Institute for Sustainable Food. Her research concerns environmental knowledge and ethics, and how these shape and are shaped by rural and food-related spaces and practices. She has a particular focus on understanding what social structures and practices can support the spread of sustainable soil management in farming. She is the founder of the community for the soil-curious, the Soil Care Network ([soilcarenetwork.com](http://soilcarenetwork.com)), and a co-founder of the soil knowledge resource hub UKSoils.org.





### **Mark Lea**

Mark Lea's farm in Shropshire has been organic for 20 years with a system inspired by the belief that sustainability requires diversity. The rotation is mixed with clover leys grazed by sheep, and cropping which includes milling oats, peas grown for Hodmedods and 20 different milling grains for direct sale to millers and bakers. Companion cropping, cover crops, agroforestry and an on-farm stonemill all contribute to the resilience of the farm. In the past most crops other than clover leys have been established with a plough and combination drill system but trials with clover living mulch and direct drilling are showing potential to allow substantial reductions in cultivations.



### **Alastair Leake, Agriculogy**

Alastair Leake has a BSc in Horticultural Science and PhD in Organic and Integrated Farming Systems. He worked for 20 years for the Co-operative Farms, initially as a Production Manager in glasshouse salad crops specialising in IPM, then headed up the company's farming systems research.

He is now head of GWCT's 300 ha Allerton Research and Demonstration farm, where intensive farming and exceptional levels of biodiversity co-exist. The LEAF Innovation farm is involved in many innovative research projects focusing on Conservation Agriculture and sustainable soil management.

As GWCT Director of Policy Alastair is responsible for embedding GWCT's farmland ecology work into Government policy. He is actively involved in shaping Defra's Environmental Land Management scheme. He also runs a popular All-Party Parliamentary discussion Group in Westminster.



### **Alister Leggatt, Affinity Water**

Alister Leggatt is an Asset Manager within Affinity Water, a water supply company operating in the south-east of England, responsible for delivery of their catchment management programme to improve water quality. He has worked at Affinity Water for over 15 years in a variety of roles and has been leading an enthusiastic catchment management team for 10 years. Alister is an experienced practitioner of environmental management as well as having expertise as a water quality scientist. His current focus is on working in partnership with a range of sectors, including agriculture, to develop integrated catchment solutions to water quality issues posing a risk to public water supply including pesticides, nitrate and industrial pollutants. Affinity Water are the headline sponsor of Groundswell 2021 are keen to promote farming practices that are beneficial for both soil and water.



### **John Letts**

John Letts is an organic farmer, plant breeder and archaeologist based in Buckinghamshire, and has been working with 'heritage' grains for over 25 years. Heritage Harvest Ltd., a company he set up in 2006, was the first to sell genuine heritage grain flour (i.e. made from pre-1900 varieties) in the UK.

John believes we must draw 'lessons from the past' in order to improve the yield, resilience and sustainability of modern grain production. Medieval-style 'populations' of cereals he developed using 'evolutionary' plant breeding methods are now being grown on farms throughout England for baking, brewing and distilling. These crops are genetically diverse and therefore resilient and able to adapt to climate change, and they can be grown in low input conditions using 'restorative' methods that sequester carbon, increase biodiversity, and do not require crop rotation, tillage, manuring or artificial inputs.



### **Martin Lines**

Martin is an arable farmer and contractor in South Cambridgeshire, His special interest is in farm conservation management, and he currently runs ELS and HLS and Countryside Stewardship schemes on land he manages. Martin is Chair of the Nature Friendly Farming Network UK and looks to sharing best practices and demonstrating what can be accomplished for nature and the environment while producing great produce. With the demands of climate change, reaching Net Zero is even more important and Martin wants to champion how this can be achieved through nature friendly farming whilst supporting and help to maintain profitable farming businesses.





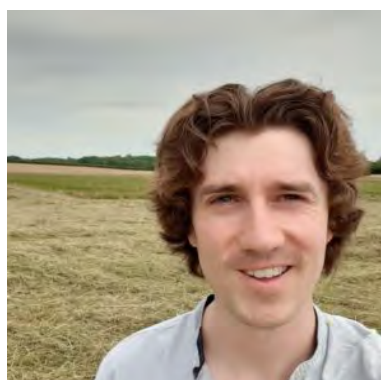
### **Craig Livingstone, Lockerley Estate**

Craig is Farm and Estate Manager at Lockerley Estate in Hampshire, an accredited LEAF Demonstration farm and LEAF Marque certified. He is a graduate of SAC Edinburgh and is a trained agronomist. Craig won the Farmers Weekly award for Arable farmer and overall Farmer of the Year 2018 and is a member of the advisory panel for the National Food Strategy. Farming practices revolve around creating healthy soils to support a profitable rotation, integrated with high environmental and conservation measures.



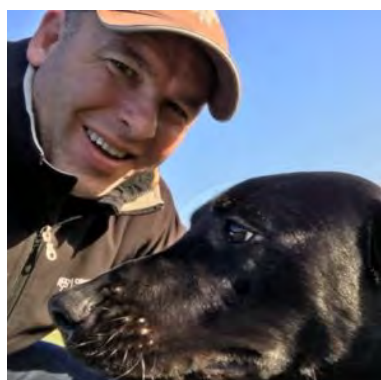
### **David Lord**

David manages the farming side of his business on the North East Essex coast, farming approx. 750 ha of mixed soils. His farming system revolves around soil conservations and regeneration using cover cropping, diverse rotations, and direct drilling to reduce inputs and improve biodiversity on the land he farms. His land is also in HLS and he is a strong supporter of independent science and farmer led decision making. He is currently chairman of Colchester branch NFU and steering group member for AHDB's Eastern Strategic Farm.



### **Patrick McKenna, NIAB**

Patrick McKenna was initially trained in botany but moved into the agricultural sciences following a spell working on a farm in Kent. He received his PhD in agronomy in 2017 from the Royal Agricultural University and then took up a position in the University of Leeds studying wastewater-derived fertilizers. He then came to NIAB to work on some BBRSC-funded trials looking at species-rich leys and their effects on soil quality. At NIAB his research interests primarily include diversity in agriculture, its effect on nitrogen fixation in forage legumes, and the accumulation of aggregate-bound soil organic carbon in ley systems.



### **Russ McKenzie**

As a farm manager for over 24 years across a variety of soil types and predominantly on heavy clays for the past 17 years, I have an appreciation of the challenges changing establishment systems can be! My experience comes from understanding the benefits and potential pitfalls associated with switching to a conservation agriculture approach to farming and how to manage that change successfully. I advise on how to make practical changes when switching to a no-till approach drawn from my own experience, especially on traditional heavy clays and how cover and catch crops have their own roles to play. I also have a keen eye for machinery and experience of different types of drill and openers and where they fit in different systems. Most importantly I have a clear understanding of agronomy, field walking and input advice, crop performance and costs associated with taking this approach.



### **Philippa Mansfield, Catchment Sensitive Farming**

Philippa Mansfield is an agricultural lead focused on air quality in the Catchment Sensitive Farming (CSF) partnership. CSF offers advice to farmers in priority areas in England on farm practices and infrastructure improvements to reduce air and water pollution from farming. Philippa provides training and technical support to CSF on air quality and water quality and is involved in developing technical guidance on grants for Countryside Stewardship and for the future environmental land management schemes.

Catchment Sensitive Farming is led by Natural England, in partnership with Defra and the Environment Agency.





### **Gary Markham, Land Family Business**

Gary advises clients on such diverse subjects as succession planning, restructuring advice, mediation, management accounts and tax advice. Since 1992 Gary has produced benchmarking data from clients' annual management accounts and using this data has helped clients to identify strengths and weaknesses and to challenge business structures and practices.

He enjoys writing and has many articles published in the press together with books on Machinery Management and also two issues of the Institute of Chartered Accountants reference book on auditing and accounting. He is also a member of the Agricultural Law Association. A regular speaker at many events Gary is passionate about encouraging and helping young individuals progress and for clients to receive the very best advice available.



### **Tom Martin**

Having spent 10 years working in the film industry, Tom returned to the family farm, a predominantly arable holding in Cambridgeshire, focusing on combinable crops, as well as fattening sheep on grass. He has continued in the footsteps of his forbears carefully stewarding the environment and moving toward a 'no till lite' version of conservation farming. Often heard to say "I'm not here to make up the numbers", Tom is passionate about sharing what happens 'behind the farm gate', which has led him to become involved in the CLA, NFU, and LEAF, as well as writing monthly in local publications and hosting a well-supported presence on Facebook, Twitter, and Instagram as 'Farmer Tom'.



### **Nicole Masters (via videolink)**

Nicole Masters is a soil molecular ecologist, an independent agroecologist, systems thinker and educator. Embracing the complexity and life force of nature, Nicole emphasises the synergies between all living organisms, including humans. Her brilliant book, *For The Love of Soil*, covers strategies to regenerate our food production systems worldwide. Nicole is recognized as a knowledgeable and dynamic speaker on the topic of soil health.



### **Hugh Martineau, Map of Ag**

Hugh Martineau is Head of Sustainability at Map of Ag. He has led and delivered research projects, working with government departments and private-sector clients to review, analyse and develop strategies to measure and reduce environmental impacts in farming systems. A major focus area has been in relation to climate change mitigation; developing measuring and monitoring programmes for greenhouse gas emission/removals and assessing the impacts of actions to reduce greenhouse gas emissions in agriculture. This has included assessment of 'net zero' emissions strategies.



### **John Meadley, Rural Investment Overseas Ltd**

Qualified in agriculture, John has been involved in the rural economies of African and Asian countries for five decades – often in areas of conflict. In 1983, he set up Rural Investment Overseas Ltd (RIO) to work with local entrepreneurs, seeking to address issues around farming and public health (including malaria, water and sanitation) through bringing together willing buyer and willing seller rather than through charity. In 2009, he met two British farmers who were raising their ruminant animals wholly on pasture and from this chance meeting evolved the Pasture-fed Livestock Association (PFLA), a community interest company of some 650 members across the UK of which he is the Hon President.





### **Josiah Meldrum, Hodmedod**

Josiah Meldrum is co-founder of Hodmedod, a Suffolk company whose aim is to encourage us to grow and eat a wider range of British grown pulses, grains and seeds – creating healthier and more diverse diets and farming systems.

Working with farmers Hodmedod has pioneered 'new' crops for the UK, such as lentils and revived long-forgotten staples, like naked barley, central this has been finding engaged markets to support primary production. This enables change by encouraging the creation of more complex rotations, through more direct routes to market, and ultimately by adding economic and agroecological value.

Prior to Hodmedod Josiah worked for NGOs, farmers' co-operatives and retailers whose aim was to create a more equitable and sustainable food system.



### **Thomasina Miers**

Cook, writer, TV and radio presenter, winner of MasterChef, Tommi has made cheese and run market stalls in Ireland, cheffed with Skye Gyngell at Petersham Nurseries and in 2007, after living in Mexico for a year, she co-founded Wahaca, winner of numerous awards for its food and sustainability credentials; in 2016 the whole restaurant group went carbon neutral.

Tommi's passion lies in food and the environment: she co-founded the Pig Idea in 2015 with Tristram Stuart to tackle food waste, helped set up Chefs in Schools in 2017 for which she is a trustee, is an ambassador for the Soil Association and was awarded an OBE in 2019 for her services to the food industry.



### **Nicholas Millard, Milton Farm**

Nicholas Millard is the Herd Manager at Milton Farm, one of two farms at Westcombe Dairy in Somerset. Nicholas has been obsessed with agriculture since he was a child (even though his parents didn't farm) and studied International Agriculture at the University of Greenwich, where he developed a special interest in how cow nutrition affects the sensory properties of cheese.

At Westcombe Dairy, an award-winning business making traditional cloth-bound Cheddar, Nicholas is promoting regenerative principles, having spent a number of years farming with Patrick and Becky Holden at Hafod Cheese in Ceredigion. For several decades the Westcombe farming operations have been managed according to conventional practices, featuring a high-yielding herd of Holsteins.



### **David Miller**

I grew up in Essex and left school in 1975 at the age of 16. I worked on the same farm with my Father and completed a City and Guilds day release course at Writtle College. I then moved up to a foreman's job on a neighbouring farm. In 1998 I moved to Hampshire to take a Manager's post which then evolved into the joint venture of Wheatsheaf Farming Company in 2002. In 2004 I was awarded a Nuffield Farming Scholarship and travelled to Australia, New Zealand, Sweden and Hungary studying labour recruitment, training and retention.

I am BASIS and FACTS qualified

In 2010, after 35 years of chemical dominated crop production, soil and biology has become the centre of our attention with solutions being sought from places other than just bags and cans.



### **Harriet Miller, LAM**

Harriet is a knitwear designer for luxury knitwear brands and is in the process of developing LAM with conservation farmer William Lawrence. Their aim is to create a regenerative, regional food, fibre and fashion system. Based within the North Downs of Kent, the project seeks to combine farming and fashion to produce, design and develop small scale, climate beneficial knitwear collections for luxury brands. Their mission is to create a combined farming and fashion system that will regenerate the soil, increasing biodiversity and give back more than the system takes, transforming farming and fashion's relationship with nature, improving the future for the environment, livestock and consumers.





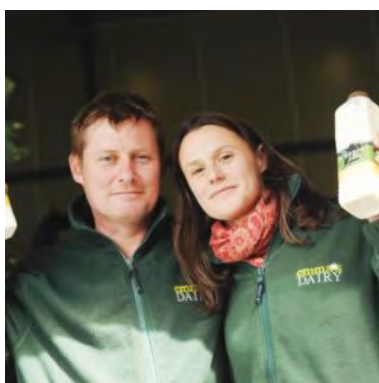
**Nathan Morris, NIAB**

Nathan Morris graduated in 2008 with a PhD in Plant Sciences from the University of Reading looking at establishing arable crops in UK cereal stubbles using strip tillage. Nathan now works at NIAB TAG as the Farming Systems and Soils Specialist. He is actively involved in their knowledge exchange and farmer training activities. Nathan's particular interests and expertise include farming systems and impacts on soil structure and fertility whilst maintaining crop productivity. Nathan is a full member of the British Soil Science Society, International Soil Tillage Research Organisation and International Fertiliser Society and is a fully FACTS trained advisor.



**Prof. Andy Neal**

Andy's research focusses on 'how organic carbon fuels soil's extended composite phenotype'. Using evidence from long-term field experiments (50 – 170 years) his work suggests that the central relationship between microbes, organic carbon and soil structure determines soil system performance.



**Ian O'Reilly & Emma Robinson, Gazegill Organics**

Ian O'Reilly and Emma Robinson are livestock farmers who run Gazegill Organics, an award-winning, family-run farm in the Ribble Valley. Their farming stance is balanced with nature and they have a real passion for organic natural farming. The farm has a number of traditional and indigenous breeds which better suit their low input, low impact attitude to agriculture. Their dairy herd of Old English Shorthorns are the cow that would have been the mainstay of the UK dairy herd up until the late fifties and early sixties when continental high yielders took their place, the shorthorn is a smaller dairy cow with a natural ability to turn average feed into beautiful creamy milk. Likewise their pig herd is a traditional favourite, the Oxford Sandy and Black is naturally placid, great to work with and a versatile porker and baconer. Their sheep are a mixed bunch but their main flock are the Hampshire Downs, a breed that produce a strong lamb which in early spring are up and doing well whatever the weather.

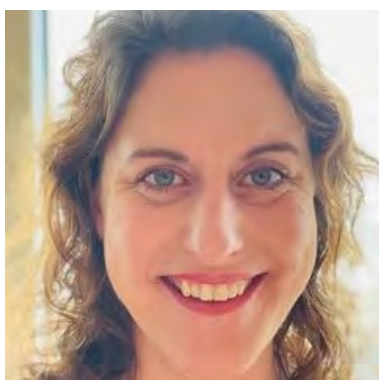


**Tim Parton**

Tim is a Farm Manager from South Staffordshire farming 300 ha of arable land

He was FCCT 2017 Soil farmer of the Farmer.

Tim is a No-till farmer focusing on brewing biology as much as possible to replace chemical inputs, using Bacteria to fix nitrogen release phosphorous and fight off disease. He has reduced the use of Glyphosate where possible, using rolling/crimping, he hasn't used insecticides for the last 5 years always working to improve soil carbon content through rotation and cover cropping, also using companion cropping where possible.



**Gina Pattison**

A serial entrepreneur, following her fast-track management traineeship at Unilever, Gina has been driving income, influence and impact growth for environmental and social causes for the last 25 years. Passionate about the wellbeing of people and planet, Gina has spearheaded large and small transformational initiatives and held leadership positions at a diverse range of organisations including Oxfam International, Farm Africa and Oxford University. Gina is currently responsible for driving the development of Soil Heroes to connect farmers and companies to transform agricultural practices and build the external tribe for positive change. Gina believes in fairness of access to opportunities and the power of dialogue and is a Trustee of Sapere, the UK's national charity supporting philosophy for children.





### **John Pawsey**

John Pawsey converted his farm at Shimpling to organic production in 1999 for business reasons as well as concerns about soil health and decline in farmland wildlife species. John Has managed to halt and in some cases reverse wildlife decline, improve soil health and keep the farm profitable since that initial conversion. Since then John has increased his organically farmed area from 650 hectares to 1,760 delivering similar results to neighbouring farmers.



### **Tom Pearson**

Tom Pearson started running the family farm in West Cambridgeshire 6 years ago. He has been moving blocks of the farm into a regenerative agriculture system since then, learning what does and doesn't work on the heavy Hanslope series clay soils. He is embracing the changes that the industry is facing, laying the groundwork for net zero and significant biodiversity gains. He has a background in public health and is keen to explore the contribution that regenerative agriculture could offer through local food networks, reconnecting people to food production and the potential nutritional benefits this has to offer. Two years ago, he took on the role of lead farmer in the West Cambridgeshire Hundreds farm cluster.



### **Jenny Phelps MBE, Gloucestershire Farming and Wildlife Advisory Group**

Jenny Phelps MBE, Senior Farm Conservation Advisor for the Gloucestershire Farming and Wildlife Advisory Group. Member of Defra's Environmental Land Management Scheme Engagement Group; Trustee for the Foundation for Common Land; Leads with her team on many farmer led projects including: Facilitator on the Farmer Guardians of the Upper Thames Facilitation Fund; Lead for the Upper Thames Catchment Partnership, Natural Flood Management and Cotswolds Payments for Ecosystem Services Defra pilot. Jenny developed the Integrated Local Delivery (ILD) framework with the CCRI, Natural England and Action for Communities in Rural England (ACRE) to achieve multi objective environmental delivery. Awarded an MBE in 2016 for 'Engaging Communities in Environmental Protection'.



### **Ian Pigott OBE, The Farmschool**

Ian Pigott OBE, DL runs a diversified farming business near Harpenden, Hertfordshire.

Committed to combining conservation agriculture, education, farming festivals and environmental stewardship the business has been no-till since 2015. It is a LEAF demonstration farm.

Ian built The Farmschool in 2014. The Charity delivers innovative programmes to secondary school aged children. Connecting the curriculum with sustainable farming, habitats, food and society through 'Fork to Farm' interactive and digital workshops.

He is a Nuffield Scholar, the founder of the UK's National Farm Open day, Open Farm Sunday, a Trustee of LEAF and a columnist for the Farmers Weekly. Ian is also a representative of the Global Farmer Network.



### **Christopher Price, Rare Breeds Survival Trust**

Christopher Price is the CEO of Rare Breeds Survival Trust. Christopher joined RBST in February 2019 from the CLA where he was Director of Policy and Advice. He is also the Chair of the Wildlife and Countryside Link Agriculture working group, leading coalition work on agricultural policy for England, and Vice Chair of the Uplands Alliance which aims to bring together practitioners, researchers and others involved in uplands policy.





### **Sue Pritchard, Food, Farming and Countryside Commission**

Sue is the Chief Executive of Food, Farming and Countryside Commission and is focused on leading the organisation in its mission to bring people together to find radical and practical ways to transform our food system and improve our climate, nature, health & economy. Sue brings extensive experience working with leaders in businesses, governments and enterprises, blending the academic and the practical for sustainable systems change.

Sue lives with her family on an organic, permaculture, livestock farm in Wales, which accounts for pretty much all of her time outside of FFCC, and is a grounding reminder of the gritty realities of turning ideas into workable actions.



### **David Purdy**

David is passionate about agronomy, sustainability and regenerative agriculture. With over 35 years of experience in the agricultural machinery industry, much of which has been spent working for John Deere, he has a particular interest in the machinery and soil health interface.

Trained initially at Cranfield University he is busy finishing off a PhD at Nottingham University researching soil and plant interactions. He is never happier digging holes, setting up machines and sharing the passion for soils and plants with farmers and growers.

For many years his spare time has been spent, when circumstances allow, travelling and working with subsistence farmers in Africa to improve their soil and water conservation and help some poor communities to be more resilient.



### **Mike Purnell**

Mike has been the Farm Manager of Whitbread Farms in central Bedfordshire since autumn 2018. The farm transitioned to regenerative agriculture in 2016 when it became apparent that the 'conventional' farm practice and rotation was detrimental to the economic, social and environmental standing of the farm.

The in hand farming operation covers 1000 hectares of arable cropping and a wide range of soil types, 200 hectares of environmental and a rare bread suckler beef enterprise that mob graze the estate's parkland.

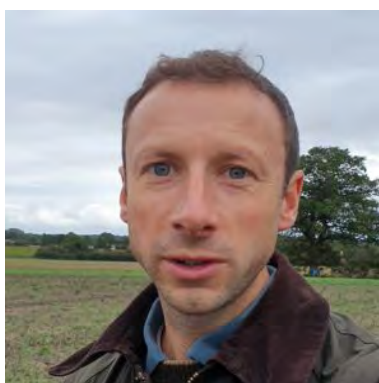
By all the tools currently available the farm is showing itself to be healthily carbon negative, with no offsetting outside the immediate farmed area.



### **Ben Raskin**

Ben has worked in horticulture for 25 years and has a wide range of practical commercial growing experience. For the Soil Association, he provides growers at all levels of production with technical, marketing, policy, supply chain and networking support. He also leads on their Agroforestry work.

Ben is an author of gardening books for children and grown-ups. He is also currently implementing a 200-acre agroforestry planting in Wiltshire. Ben also co-chairs the newly formed Defra Edibles Horticulture Roundtable and sits on the boards of the Organic Growers Alliance and Community Supported Agriculture Network UK.



### **Rob Raven**

Rob Raven farms a wide range of crops and soil types around the Norfolk/Suffolk border. He began direct drilling his family farm in the early 2000's with a home-made tine drill, and now incorporates livestock, cover cropping and reduced inputs, farming as far as possible within the principles of regenerative agriculture. Having had success with the techniques, he now provides regenerative contract farming services on several nearby farms, as well as farm management services on two local country estates which are transitioning to regenerative agriculture. Now responsible for crops and livestock across 10,000 acres, this increased scale has allowed him to invest in the right equipment for the job, employ specialist advisors, and participate fully in projects like the Groundswell Benchmarking group.





### **Duncan Rawson, European Food and Farming Partnerships**

Duncan Rawson is a partner at European Food and Farming Partnerships (EFFP) working with food businesses across Europe helping them to reconnect back to the roots of food production – introducing sustainability programmes that deliver practical benefits to their farmer suppliers, as well as meeting their own sustainability targets. With a background in farm management, and as a qualified agronomist Duncan has been able to put together innovative initiatives with a long-term focus. He was instrumental in developing the Kellogg's Origins Programme 8 years ago and has been managing it since. Duncan is also Chairman of Evolution Farming, a progressive and rapidly expanding dairy farming business.



### **George Renner**

I run a 310ha family farm in Rutland alongside my father Christopher Renner. We have been using a John Dale Zero-Till since 2000, establishing a wide variety of crops over the years from cereals to hemp, beans to herbage-seed. The drill has evolved and been updated over the years with the addition of electronic seed metering and GPS implement steering to allow the drill to sow between the rows of the previous year's crop residue. Moving to no-till has enabled the business to significantly lengthen the useful life of our machinery.

Our soils are predominantly limestone brash and clay-loam soils. We specialise in high-grade seed production and have also take part in field scale trials for ADAS and BASF as well as being part of a number of University lead soil science research projects.



### **Muna Reyat, Chelsea Green Publishing**

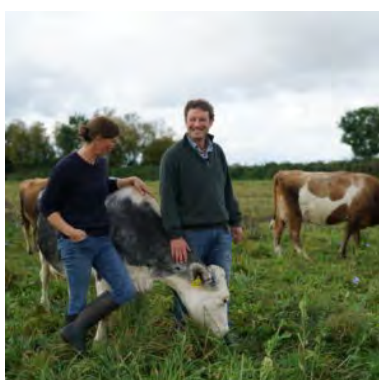
With a background in non-fiction publishing and a recent MA in Anthropology of Food, Muna is Head of Editorial at Chelsea Green Publishing in the UK, an independent publisher of books on the policy and practice of sustainable living, with a focus on bringing new voices into the conversations about sustainability, food, health, farming, gardening, big ideas and more.



### **Prof. Jane Rickson**

Jane Rickson is Professor of Soil Erosion and Conservation at Cranfield University. She has over 30 years' experience of research, consultancy and teaching in soil and water engineering, specialising in soil degradation processes and sustainable land management. Her work has focused on better understanding of how soils deliver vital ecosystems goods and services, including agricultural production, water regulation and carbon storage.

Jane was part of the Cranfield team that won the Queen's Anniversary Prize in 2017 for research and education in large-scale soil and environmental data for the sustainable use of natural resources in the UK and worldwide. Her work includes research for Government, Research Councils, AHDB, the Environment Agency and private sector clients. She teaches on postgraduate courses in Land Reclamation and Restoration, Environmental Engineering and Soil Management.



### **Jonny Rider**

Situated on the Wiltshire Somerset border, Jonny and Rachael Rider are the third generation of the Rider family to be rotational grazing on these extensive organic pastures, rich with a mix of grasses, herbs, legumes and wild flowers. In 1954, Jonny's grandfather brought his herd of dairy cows down from Shropshire on the train. Jonny and Rachael (with help from their four children) now look after a herd of 400 dairy cows, milking them once each day.

The diversity of breeds includes Jersey, Red Poll, Ayrshire and Montbeliarde. Horton House is a tranquil, low stress environment where the cows are in exemplary health. Antibiotic usage has been virtually zero for the last 10 years and some of the cows at Horton are still giving milk and having a calf at 18 years old. The young dairy calves are nurtured and stay either with their mother cows or join up with other retired cows on the farm to suckle naturally for the first 8-10 months before weaning.





**Karl Ritz**

Coming from a farming background, I graduated with BSc (Hons) in Agricultural Botany at the University of Reading in 1981, followed by a PhD in grassland ecology at University of Bristol, then led research programmes in government institutes in Aberdeen and Dundee. From 2002-14, I held a Personal Chair in Soil Biology at Cranfield University and subsequently appointed as Professor of Soil Biology at the University of Nottingham, retiring to emeritus status in 2019.

I have published over 160 research papers, dozens of book chapters, co-edited five books and given hundreds of conference presentations. I am currently Editor-in-Chief of the high-ranking scientific journal Soil Biology Biochemistry. A passionate fundamental researcher, I am convinced that soil – the primary business asset for all field-based growers – is the most remarkable, complex and fascinating material on the planet. And especially when plants are growing in it!



**Lizzie Rivera, Live Frankly**

Lizzie Rivera is the founder of ethical lifestyle website Live Frankly. She is a journalist with a decade's worth of experience and has been focused on food sustainability since 2014. Lizzie works to dispel greenwashing myths and help bring fringe ideas to a mainstream audience. She's a Londoner born-and-bred but if you can forgive her for this you'll find someone who's passionate about regenerative agriculture and open to talk about soil fertility and dung beetles. She'll probably be the one in ankle wellies. If she wanted to always fit in, she wouldn't be here, she'd be in some restaurant photographing a plate of food and saying how pretty it looks. #Nom.



**Stuart Roberts, NFU**

Stuart farms 120 hectares in Hertfordshire in partnership with his wife. A third generation arable and livestock farmer at Hammonds End Farm, Harpenden, Stuart has also worked for Defra and the Food Standards Agency and held senior management roles within the meat supply chain.

The farm incorporates around 100ha of crops supplying grain to more than 50 artisan mills and bakers throughout the UK. The remaining land is predominately permanent pasture and a small amount of woodland. The farm includes a small pedigree Hereford herd and a flock of Lleyn Sheep.

Stuart was elected to the post of NFU Deputy President in February 2020 after serving two years as Vice President. He previously chaired the NFU Hertfordshire branch and served on both the East Anglian livestock and combinable crops board.



**Abby Rose, Soil Mentor**

Abby Rose co-created Soil Mentor, an app that enables farmers to monitor their own soil health using simple soil tests. She also makes a monthly podcast Farmerama Radio which shares stories of farms worldwide. As well, she runs her family farm Vidacycle in Chile which makes wine, olive oil and has a small flock of sheep. A champion of soil and showing true commitment to building ecology, profitability and beauty on farms.



**Andrew Ross**

Green Finance and Green Bonds are revaluing Sustainable Land Use, Nature-Based Solutions – and Regenerative Agriculture.

Andrew is designing Local Authority Net Zero Natural Capital Municipal Green Bonds in the context of 'Levelling-Up' and the launch of the UK Sovereign Green Bond at COP26.

Environmental Land Management and Public Money for Public Goods will attract Green Bond funding based on the insurance value of land use projects that prevent floods and droughts with loss of lives and livelihoods; and help to improve health and well-being and restore biodiversity.

Project aggregation is needed along major river ecosystems with data proving that farmers can deliver this environmental sustainability at scale for investors. Where is the evidence?





### **Archie Ruggles-Brise, Spains Hall Estate**

Archie Ruggles-Brise manages the 2000 acre Spains Hall Estate in North Essex. In 2019 he broke new ground by reintroducing a pair of Eurasian Beavers into an enclosure as part of a nature-led natural flood management project. As the first beavers back in East Anglia since the middle ages the project is now visited by over 500 people annually. Since then Archie has led the estate into the world of Natural Capital valuation, completing a baseline and forecast appraisal which paved the way for the estate's selection as one of only 9 sites for Natural England's Biodiversity Net Gain Credits pilot. Archie is now working on ambitious Agroforestry plans to drive a transition to a more regenerative approach to agriculture.



### **Kirsty Sadler**

Following 15 years in brand and marketing agencies as a strategist, in London and New York, Kirsty joined naturally fast-food brand LEON as their first Brand & Marketing Director where she worked for four years. This included a year as Sustainability & Values Director which she left to join regenerative agrifood enterprise New Foundation Farms. A start-up, the enterprise is founded on a field to fork model and as it is in its first phase of fundraising, the role of finance and investing is a vital topic.

Kirsty has a MSc in Sustainability & Responsibility, is a beekeeper and watches too many films.



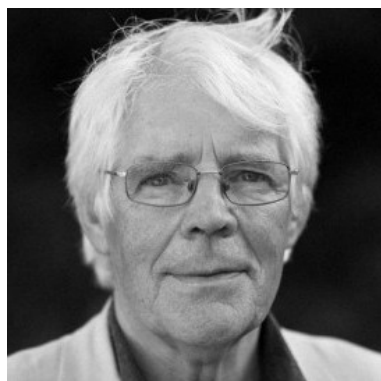
### **Lizzie Sagoo, ADAS**

Lizzie is a Principal Soil Scientist at ADAS with specialist knowledge of soil and nutrient management and diffuse pollution of air and water from agricultural systems. Lizzie joined ADAS in 2003 following a PhD at the University of Leeds. Lizzie has worked on a number of applied research projects in the areas of sustainable beef systems, grassland & rotation management, soil & nutrient management, managing manures, reducing diffuse pollution from agriculture and the development of practical farmer decision support tools. She currently leads the AHDB 'Sustainable beef systems on arable units' project (2016-2022) and the Defra 'Understanding Rotational "mob" Grazing: Impacts, Benefits and Trade-offs' project (2021-2026). In 2018 she led the set-up of the UK Grass and Herbal leys Farm Network. The Network is a partnership between farmers, researchers and industry and provides a platform to investigate the long-term impacts of leys in rotations.



### **William Scale**

William Scale has nearly 20 years of experience of continuous no tillage farming and is based in Pembrokeshire on possibly the most Westerly no till farm in the UK. With an annual rainfall of about 50 inches a year, the motivation to preserve soils against erosion and to keep driving down costs on the family farm has always been paramount. A keen conservationist, a Nuffield Scholar and a Churchill Fellow, Will has travelled and met a range of farmers and landowners over the years relevant to the field of Zero Tillage, Holistic Management, Regenerative Agriculture and Environmental Conservation and is going to share his ideas and experience at Groundswell.



### **Peter Segger**

Peter Segger, based in West Wales, set out in 1974 to demonstrate it was possible to grow organic vegetables commercially. He and his partner, Anne, are still at it showing it is possible to offer healthy and tasteful foods all year round with a carbon negative balance in an ever vibrant environment. Today, everything is sold in the local area mainly through farmers markets, specialist food shops and restaurants.

Peter has been involved in the national and international organic movement throughout, including work on the relationship between production systems and food nutrition. He was awarded an OBE for services to horticulture in 1997.





### **Koen van Seijen, Investing in Regenerative Agriculture**

Koen van Seijen is author and host of the Investing in Regenerative Agriculture podcast series. He interviewed over 130 investors, investment fund managers, opinion leaders, farmers and scientists to find out how best to put money to work to regenerate soil, people, local communities and ecosystems. He is currently member engagement manager of Toniic, the global community of dynamic and active impact investors, and partner at Garnell Capital Partners an impact and regen food and ag financial advisory firm in Milan, Italy. Previously Koen supported Aqua-Spark, an impact investing fund focused on sustainable aquaculture companies. He lives between the Netherlands and Italy.



### **William Selborne, Blackmoor Estate**

William Selborne manages Blackmoor Estate in Hampshire. The farm grows apples, cherries and pears alongside an arable operation. It also operates a fruit nursery selling fruit trees and bushes direct to gardeners. The estate is in a Higher Tier Countryside Stewardship agreement.

Prior to farming William worked in Southern Africa conducting research on smallholder agriculture and conservation including landscape-scale transboundary conservation projects.

Since 2014 William has Chaired the Selborne Landscape Partnership. This is a farmer-led 'cluster' covering 4000 ha around the village of Selborne with the aim of delivering a joined up approach to farmland conservation and environmental work.



### **Syed Shah, NIAB**

Syed Shah is NIAB's Regional Agronomist (South). Syed is a research agronomist with wide experience in evaluating crop inputs and developing farm-specific strategic advice. He is part of NIAB's regional agronomy team who support farmer-led research and deliver a wide range of technical agronomy support for NIAB members.



### **Lydia Smith, NIAB**

Dr Lydia Smith; Director of NIAB Innovation Farm & Eastern Agritech Innovation Hub

Lydia leads Interactive farmer-facing research into sustainable farming; especially soil health, crop genetic improvement and waste minimisation. Soil-crop microbial interactions are a particular focus, particularly mycorrhizal associations. She has lectured in soil science, crop microbial interactions, environmental biology/land reclamation at University of East London and Luton, before moving to NIAB. At NIAB-Innovation Farm, interactive demonstrations promote knowledge exchange and innovation uptake, and at the EAI Hub there is incubation and research resource provision for SMEs and academics, with an additional focus on sustainable use of heat and power to drive innovation



### **Will Smith, NIAB**

Will is the Senior Trials Manager, responsible for NIAB's National Black-grass Centre at Hardwick, where projects have focussed on drilling date, cultivation strategy and the application of pesticides. As part of an EU funded Horizon 2020 project studying the future of Integrated Weed Management, Will is involved in trials exploring the use of inter-row cultivations for the control of weeds in autumn sown crops, whilst studying for a PhD on this topic.





### **Natasha Soares, Better Food Traders**

Natasha Soares is Project Leader for Better Food Traders, a network and accreditation scheme for ethical food businesses supporting sustainable UK horticulture. She co-founded London-based sustainable food initiative, Growing Communities, and is a board member of Local Greens veg scheme. She also co-owns and co-manages Pear Necessities, an organic top-fruit orchard in Kent. <https://betterfoodtraders.org/>



### **Matt Somerville**

Matt Somerville grew up on a fruit farm in Kent, then trained in agriculture but was disillusioned with its intensive industrial methods and became a carpenter and boat builder. However, in the last decade, Matt heard about and witnessed the decline of honeybees and after studying modern beekeeping found problems parallel to those in intensive agriculture. Since then, he has been inspired by bees that have lived unmanaged in the wild to take positive action to change our relationship with these vital insects. Matt has now installed over 300 hives across the country, allowing bee swarms to find and populate them. He now focuses on making log hives for healthier, more vigorous bees, which thrive without our interference.



### **Sally-Ann Spence**

Sally-Ann Spence is a Fellow of both the Royal Entomological Society and the Linnaean Society and an Honorary Associate at the Oxford University Museum of Natural History. She specialises in dung beetles and pastureland biodiversity and co-founded the Dung Beetles for Farmers. She also owns and runs an educational research centre 'Berrycroft Hub' on her family farm where she keeps PFLA accredited livestock and manages all the grazing systems. As a passionate advocate of British farming, Sally-Ann does a great deal of public outreach both at her centre, at various events and on all media platforms including television.



### **Tim Stevens, Wessex Water**

Tim is a catchment advisor working for Wessex Water on a range of water quality improvement projects across Dorset, Wiltshire and Somerset. He studied agriculture at Edinburgh University and is Basis and FACTS qualified. Before joining Wessex Water he worked in the fresh produce industry and in agricultural further education. In 2017 Tim was awarded a Nuffield Scholarship to look at how farmers can keep nitrogen and phosphorus out of water. During 16 weeks of international travel he visited farmers and scientists in 10 countries to identify best practice soil, manure and nutrient management on intensive livestock and arable farms.



### **Dan Stevenson**

Having been a farm vet for nearly 20 years I have learnt a huge amount about the role of agriculture in the wider world and this has served to highlight how much I have still to learn. Early in my career I realised how central to animal health their nutrition was and so began my obsession with this area, resulting in a Masters in the subject. I now appreciate that animal health and nutrition cannot be optimised without consideration of soil and environmental health as all, together with nutritional value to the consumer, are inextricably linked. I believe that agriculture can provide solutions to many of humanities current and future challenges and that nature holds many of the answers if we are prepared to take notice. I hope that vets can play a valuable role in connecting all these elements to contribute to a more holistic view.





#### **Elizabeth Stockdale, NIAB**

Elizabeth Stockdale is Head of Farming Systems and Agronomy Research at NIAB. She is a soil scientist with wide experience in academic and policy sectors, including on-farm participatory research and wider stakeholder engagement.



#### **Tom Stratton, Duchy of Cornwall**

Tom is a Chartered Surveyor, responsible for the day to day management of the Duchy's Estates in Devon. These comprise 67,500 acres of upland on Dartmoor together with 3,000 acres of lowland near Exeter and 4,500 acres of fundus and foreshore in South Devon. Prior to moving to Dartmoor in 2008, Tom has worked previously for the Duchy on the Isles of Scilly, in Cornwall and Herefordshire.

Tom is involved in a wide range of conservation and land management initiatives and has been actively involved in the development of the Duchy's work on natural capital.

When not working for the Duchy, Tom and his wife operate a hill farm on Dartmoor with Ruby Red Devon cattle, Whiteface Dartmoor sheep and pedigree Dartmoor ponies. Diversifications include a riding centre, holiday cottage and meat box enterprise.



#### **Rich Summers, Better Food Traders**

Rich has worked in the British meat industry for over 30 years and gained an appreciation of the finest quality British livestock and game along with an admiration for those who dedicate their time to producing it.

Rich has now become a well-respected industry figure by using his vast knowledge of whole carcass butchery which has allowed him help producers develop a range of innovative, value added products ranging from cured and cooked meats, pies and ready meals, smoked meat products along with salamis and whole muscle air dried meats. He specializes in taking a complex academic and scientific process and sophisticated practical skills and imparting them to his clients guaranteeing the very best eating quality and food safety standards. He consults, Teaches and judges on a wide range of subjects.



#### **Ben Taylor-Davies**

Ben Taylor-Davies, born and raised on a farm in Ross-on-Wye before studying geography at Liverpool University. A job as an agronomist was going extremely well until 2012 when our son was involved in a horrific car accident which changed everything, forever and had a huge impact on my mental health. A Nuffield scholarship in 2016 ensued where I studied blackgrass but much more than that was fortunate to travel the world and look at all aspects of farming, it was time to put the fun back into farming and my job and regenerate my mind, regenerative agriculture and it's principles as quite literally saved me!



#### **Alexandra Tomlinson, Sankalpa and WilderCulture**

As a qualified veterinarian — specialising in wildlife health, disease, and conservation, and more recently self-educating in regenerative land management — Alex understands how regenerative principles and practices have the potential to improve food production systems in order to simultaneously enhance both animal and human health and welfare, and contribute to tackling some of the planet's serious environmental issues. Alongside work as a regenerative farming consultant, Alex is a director of two organisations: Sankalpa and WilderCulture. Sankalpa supports activities that transform the way people interact with animals, the environment and each other; and WilderCulture promotes ecological restoration and food production from our British uplands.





**Steve Townsend, BASE-UK**

Steve has been working in agriculture for 44 years, ex RHM, Kenneth Wilson & Monsanto. For the last 23 years Steve has been working with farmers advising them on Conservation Agriculture systems in the UK, Ireland & Europe as Soil First Farming. Soil First Farming is a company dedicated to making farmer's more profit by improving their soil's structure and fertility through reduced cultivations, and a focus on inputs. A unique nutrition business was added in 2005 to complement clients soil fertility

Steve is a founder and current treasurer of BASE-UK, a farmer led organisation dedicated to with over 300 members. BASE-UK exists to aid the transfer of knowledge between members on Conservation Agriculture techniques with a variety of seminars and on farm meetings throughout the UK.



**Colin Tudge**

Colin Tudge is a biologist by education and a writer by trade. He worked for Farmers Weekly, New Scientist, and BBC Radio 3 before going freelance in about 1990, and is author of about 15 books on natural history, evolution, genetics, ecology – and, in particular, on nutrition, cooking, and agriculture. Around 2008, together with his wife Ruth (West) and help from good friends, he began the Campaign for Real Farming — which has given rise to the Oxford Real Farming Conference and the still peripatetic but ever-growing College for Real Farming and Food Culture. The aim is to help bring about a global, cross-the-board Renaissance – as discussed in his latest book, The Great Re-Think.



**Andrew Voysey, Soil Capital**

Andrew is Head of Strategy and Business Development at Soil Capital, the technology-driven agronomy business with international experience designing and executing farm transition strategies to regenerate soil health while delivering superior profitability.

Over the last two years, Soil Capital has developed a unique decision-support and reward platform for regenerative transitions, called mySoilCapital. It enables farmers to monetise their carbon and compare their costs through the production of a certified report of a farm's agronomic, economic and GHG performance. Andrew played a central role in developing mySoilCapital, including leading on the design of Europe's first certified, multi-national carbon payment programme, launched by Soil Capital in September 2020.



**Ian Waller, Hampden Bottom Farm**

Ian Waller is a first generation tenant farmer at Hampden Bottom Farm in the Chiltern Hills, Buckinghamshire, covering 1200 acres. As well as growing milling wheat, oilseed rape and spring beans, a small flock of Herdwick sheep graze the species rich chalk grassland. It has been a LEAF Demonstration Farm since 2006.

Ian is committed to soil health and the role earthworms have in this. The farm stopped ploughing in 1998 and all crops are now direct drilled. Hampden Bottom Farm was additionally one of the first (and largest) farms in the South East to be accepted into the HLS stewardship scheme and haven't used insecticides for 6 years.



**James Warne, Soil First Farming**

James has worked at Soil First Farming for the last six years. Working with farmers across the country who are following or adopting a Conservation Agriculture strategy. Prior to this James has spent time working as a technical specialist in a recycling business and as an advisor for the Farming and Wildlife Advisory Group.

Coming from a farming family in South Devon, James studied agriculture at Seale-Hayne College before moving into farm management roles in the south east.

James believes Conservation Agriculture has the potential to not only deliver tangible social and economic benefits to farming communities but also enhance and improve the local and wider environment through cleaner air, water and greater biodiversity.



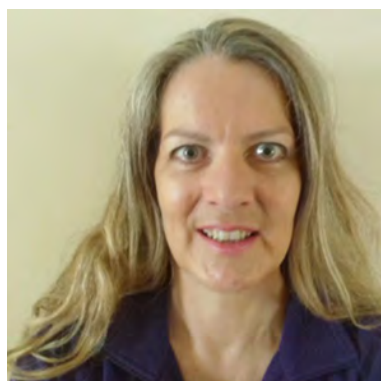


### **Sam Watson Jones**

Sam is a fourth generation farmer from North Shropshire with a desire to make farming better. Since taking over the family farm six years ago, he has grown both revenues and profits by 60%, unusual in a low growth industry. His focus in the arable enterprise is on finding ways in which technology can help to grow productivity and efficiency as margins continue to shrink.

Sam was previously a management consultant at Accenture. He specialised in global technology implementations of minimum \$100m, leading multisite teams of 100+ people.

Sam is extremely well connected in the farming industry through initiatives such as NFU Development Programme and Monitor Farm Programme. He has used this network to secure commercial trials of the technology in 2018.



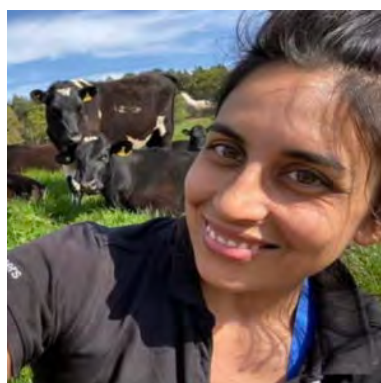
### **Elizabeth Westaway, Growing Real Food for Nutrition**

Dr Elizabeth Westaway is Co-Founder and Director of Growing Real Food for Nutrition CIC (Grffn). She is an international public health nutrition specialist, who has worked since 1995 as a practitioner, researcher and consultant in academia, non-governmental organisations and the United Nations on health, nutrition, food security and agriculture projects in emergency and development contexts of sub-Saharan Africa and Asia. Elizabeth has a PhD in International Development from the University of East Anglia, UK and interests in community-based nutrition, healthy and sustainable diets, food quality, nutrition security, food systems, regenerative agriculture, permaculture, livelihoods and poverty reduction.



### **Lindsay Whistance, Organic Research Centre**

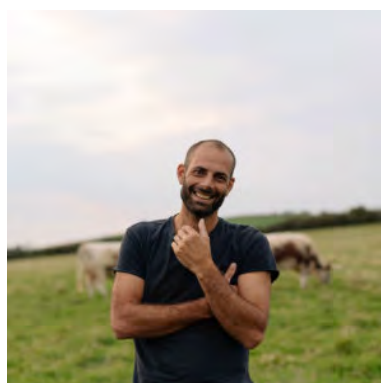
Dr. Lindsay Whistance is a Senior Livestock Researcher at the Organic Research Centre. She has been working in animal behaviour, health and welfare research since 2003. Her interests include human-animal relationships and the role that diverse, species-rich environments play in offering good welfare conditions as well as food and medicine for domestic animals. Her current research activities include investigating the nutritional benefits of tree fodder including vitamin, mineral and tannin content.



### **Claire Whittle, Dung Beetles for Farmers**

Claire is a veterinary surgeon who has been working in farm practice for the past six years both in the southwest and further north near her hometown of Liverpool – although there's not so many cows there! Recently, she has undertaken a Post Graduate Certificate in Conservation Medicine which has consolidated her interest in regenerative agriculture and the principles of ecosystem health on our farms. She was awarded a 2021 Nuffield Scholarship to study the benefits of regenerative agriculture on livestock health and welfare.

As a founding member of the Dung Beetles for Farmers project she has given her expertise to help promote the benefits of dung beetles and how farmers can support them. Dung beetles play a key role in farming ecosystems and she has become quite the 'poo fiddler', often found guddling about in cow muck on her evenings off.



### **Tim Williams**

Tim has over 20 years' experience within farming and associated systems – dairy, arable, deer, sheep & beef; both growing and processing; conventional and organic; large scale and small. This mass of experience has allowed the development of a wide range of experiential and theoretical knowledge, a key strength of Tim's being his deep understanding of regenerative and low-input farming practices that work closely with natural systems and place soil health at the core.





### **Becky Willson**

Becky is the technical manager for the Farm Carbon Toolkit, a farmer-led organisation providing tools and resources focusing on reducing greenhouse gas emissions, improving soil health and carbon sequestration and promoting business resilience for farmers.

Becky has been leading work on measuring and managing soil carbon for the last 4 years and is working with farmers to help understand how to integrate soil health into carbon accounting systems.

Becky also co-ordinates the Soil Farmer of the Year awards, which reward farmers who are passionate about soil health, and are pioneering new methods of farming that put soil health at the centre of their business management. She is also a Nuffield scholar, looking at how to better communicate carbon and climate change to inspire engagement.



### **Jimmy Woodrow, PFLA**

Eight years spent across a range of business development roles in the food industry led Jimmy to farming, frustrated by the widening disconnect between the food system and the farming industry that underpins it. During that time, Jimmy became aware of a number of pioneering businesses bucking that trend, something Jimmy now champions in his part-time role leading the PFLA as well as his wider consulting practice, where he advises food, farming and agri-tech businesses on strategy and business development.

A number of years working at Neal's Yard Dairy introduced Jimmy to the dairy sector, in which he now has a particular interest. The PFLA has a small number of certified Pasture for Life dairy farms and is working with the farmers to advance these principles in the wider dairy sector.



### **Lawrence Woodward**

Lawrence Woodward was a founder and the Director of the Organic Research Centre – Elm Farm for 30 years. In 2001 he was awarded an OBE for services to organic farming, having played a pivotal role in the strategic and practical development of the organic sector in the UK and internationally. He is a director of Beyond GM and Whole Health Agriculture, and is a member of the Gaia Foundation Seed Sovereignty Programme. Lawrence is deeply engaged in articulating and developing the underlying wholistic concepts of organic food and farming; and how they relate to food quality and health under today's social, economic and environmental conditions.

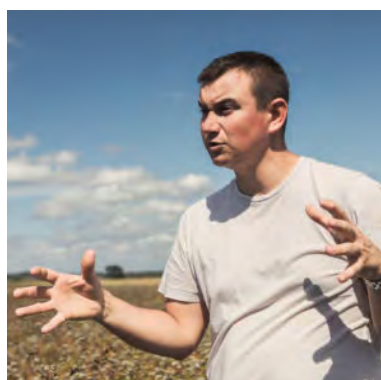


### **Philip Wright, Wright Resolutions**

Philip Wright trained at Silsoe in the late 1970's as an Agricultural Engineer. He became Technical Director of Simba where he worked for 28 years before becoming an independent advisor to the Industry on soils and cultivations in 2007.

Philip's company, Wright Resolutions Limited, provides advice covering subjects such as soils and cultivations, reduced and zero tillage, systems and machinery selection and setting, together with training for Farmers, Operators, Agronomists and Students.

The Client base includes bodies such as the Environment Agency, Catchment Sensitive Farming, and the AHDB, together with Machinery Manufacturers both within and outside the Agricultural Industry in the UK, Western Europe, Russia, Ukraine and the Southern Hemisphere.



### **George Young, Fobbing Farm**

George Young is an agro-ecological farmer from Fobbing Farm in Essex. He is motivated to create a genuinely bio-diverse farming system: producing as diverse a range of nutrition and fibre as possible, as well as plenty of interconnected areas for nature to breathe and play its part.





**Nikki Yoxall, PFLA**

Nikki is an educator and first generation farmer based in NE Scotland. She is currently undertaking an MSc in Sustainable Food and Natural Resources, and has interests in Holistic Management, agroforestry, native breed cattle and connecting folk with their food. She works with the Pasture Fed Livestock Association to support the links between academic research and knowledge exchange and PFLA farmers and members. She is also one of the PFLA Regional Facilitators in Scotland. Nikki also works with the Nature Friendly Farming Network and is currently coordinating the development of accredited Agroecology training with the Landworkers Alliance.



**Johnnie Balfour, Balbirnie Home Farms**

Johnnie is the Managing Partner of Balbirnie Home Farms, a 1,300 hectare mixed farm in Fife, Scotland with 800ha of arable crops and 200 suckler cows. The farm has a diverse rotation including oats, spring barley, winter wheat, spring beans, carrots, potatoes and brassica vegetables. Johnnie's ambition is for regenerative agricultural practices to become the norm across the farm's enterprises and across the industry and would like to reduce synthetic inputs to zero.

Johnnie, alongside Farms Manager David Aglen, is the AHDB Strategic Cereal Farm host for Scotland, where a number of farm baselining activities and a nutrition trial using tissue and sap testing is taking place for 2021. Johnnie is a director of the Pasture-Fed Livestock Association, a Soil Association agroecology ambassador, a steering group member of the Nature Friendly Farming Network and a member of the Institute of Chartered Accountants in Scotland.



**David Cross, AHDB**

David has experience working on and managing a beef and sheep units in New Zealand and North America, where lucerne is widely used. Now, David runs a sheep flock within the arable enterprise on the tenanted family farm situated in northwest Norfolk. The farm is largely light alkaline soils over chalk making is susceptible to drought in the summer.

David is keen to integrate legumes, particularly lucerne into the rotation to reduce his dependence on granular fertilisers, alongside improving soil health while strengthening the grazing enterprises resilience to seemingly ever changeable weather patterns.

David is a new AHDB Beef and Lamb Monitor Farmer and has worked on trials with other organisations, such as an Innovative Farmers field lab.

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**Website:** www.agri-tech-e.co.uk



The Agriculture and Horticulture Development Board (**AHDB**) is a statutory levy board, funded by farmers, growers and the supply chain. **AHDB** carries out research, knowledge exchange and business improvement programmes, provides market information and analysis, creates new market opportunities and funds education programmes, for its levy payers and wider stakeholders.

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**BASE-UK** is an independent knowledge exchange organisation run by farmers for farmers and individuals interested in making agriculture sustainable using conservation and regenerative systems such as no-till, strip-till, cover crops, companion crops and integrating livestock.

**Contact:** Rebecca Goodwin **Tel:** 0779 953 2704 **Twitter:** @baseuk  
**eMail:** rebecca@base-uk.co.uk  
**Website:** www.base-uk.co.uk



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**Contact:** Natalie Coles **Tel:** 01234 754429 **Twitter:** @Soil\_Science  
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**Catchment Sensitive Farming (CSF)** partnership works together with farmers and organisations in priority areas across England to improve water and air quality and farm business.

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**eMail:** simon@copeseeds.co.uk  
**Website:** www.copeseeds.co.uk



**Cotswold Seeds** has built its reputation on developing forage, diverse leys, green manures and complex seed mixtures and this year at Groundswell we have a plot of demonstration herbal ley. Lizzie and Sam will be on our stand to offer technical advice.

**Contact:** Lizzie Arnold **Tel:** 0160 865 2552 **Twitter:** @CotswoldSeeds  
**eMail:** lizziea@cotswoldseeds.com  
**Website:** www.cotswoldseeds.com



**Cousins of Emneth Ltd** design and manufacture a wide range of cultivation equipment for use in the UK and abroad. Proudly celebrating their 70th anniversary as a family run business in 2021. Visit the stand to discuss your particular requirements.

**Contact:** Bruce Reeve **Tel:** 01945 584 600 **Twitter:**  
**eMail:** sales@cousinsofemneth.co.uk  
**Website:** www.cousinsofemneth.co.uk



The **Cranfield University** stand will include demonstrations on a range of soil management challenges and their solutions as well as information on the Agri-EPI and CHAPs Facilities at Cranfield and how to access them.

**Contact:** Dr Rob Simmons **Tel:** 01234 750111 ext 2761 **Twitter:** @CranfieldUni  
**eMail:** r.w.simmons@cranfield.ac.uk  
**Website:** www.cranfield.ac.uk/centres/soil-and-agrifood-institute







Graintab empowers businesses by providing independent, data driven grain market insights and risk management solutions from **CRM AgriCommodities**. Our insights are trusted by farmers across the UK who rely on our intelligence network and clear opinions.

**Contact:** James Bolesworth **Tel:** (0)7940 123393 **Twitter:** @CRMagri  
**eMail:** jbolesworth@crm-group.co.uk  
**Website:** www.graintab.com



**Dale Drills** no-till seed drills offer maximum versatility, accuracy of seed placement and improved soil health.

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**Contact:** Dale Drills **Tel:** 0165 265 3326 **Twitter:** @DaleDrills  
**eMail:** james@daledrills.com  
**Website:** www.daledrills.com



Established in 1963, **David's Bookshop**, Music & Cafe is located in Eastcheap, Letchworth Garden City. We stock over 50,000 books on two floors, a wide range of maps and children's books and over 15,000 second-hand and antiquarian books. As the World's first Garden City, Letchworth is a particularly attractive town, with much to offer visitors. We stock a wide range of books (both new and secondhand) on the area's past and present.

**Contact:** Paul Wallace **Tel:** 01462 684 631 **Twitter:** @DavidsBookshop  
**eMail:** paul@davids-bookshops.co.uk  
**Website:** www.davids-bookshops.co.uk



**Defra** staff will be on the stand to talk to you about how farming is changing with the government's new Agricultural Transition Plan. Find out more about our plans for farming and the countryside in England, including our new environmental schemes

**Contact:** Defra **Tel:** 03459 33 55 77 **Twitter:** @DefraGovUK  
**eMail:** defra.helpline@defra.gov.uk  
**Website:** www.gov.uk/government/organisations/department-for-environment-food-rural-affairs



**Direct Driller** is a new farming magazine, designed by farmers for farmers to educate and inform the industry about direct drilling and no-till techniques, soil regeneration and soil conservation in arable and mixed farming situations.

**Contact:** Chris Fellows **Tel:** 01543 68 62 09 **Twitter:** @mydirectdriller  
**eMail:** info@directdriller.com  
**Website:** www.directdriller.com



Farmers Who Know Drones, **DroneAg** help to make farming more productive through practical, hassle-free drone automation. They've developed Skippy Scout; an app that automates leaf-level crop data collection and analysis in real-time using drones and AI technology

**Contact:** Drone Ag **Tel:** 01668 217 100 **Twitter:** @dronesforag  
**eMail:** info@droneag.farm  
**Website:** https://droneag.farm



**Dung beetles** are beneficial insects recycling dung, improving quality and structure of soil, reducing livestock parasite burdens and providing a variety of other crucial ecosystem services within the agricultural landscapes. Learn pragmatic steps you can take to support these vitally important insects on your farm from farmers, ecologists and veterinary surgeons.

**Contact:** Dung Beetles for Farmers **Tel:** 0118 378 8913 **Twitter:** @DungBeetleFarms  
**eMail:** info@dungbeetlesforfarmers.co.uk  
**Website:** www.DungBeetlesforFarmers.co.uk







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**Contact:** Marc Monsarrat **Tel:** 07734 530452 **Twitter:** @EcoQuads  
**eMail:** marc.monsarrat@ecochargerquads.com  
**Website:** www.ecochargerquads.com



**Edaphos** provides agronomy, soil fertility & biological consultancy, and nutritional advice focused on sustainable agriculture. We understand that limitations and connections between soil fertility, crop nutrition, agrochemical inputs and standard agronomy practices connects with the whole ecological pattern which is integral in creating and maintaining a sustainable agricultural system.

**Contact:** Mike Harrington **Tel:** 01235 83 49 97 **Twitter:** @EdaphosAgronomy  
**eMail:** mike.harrington@edaphos.co.uk  
**Website:** www.edaphos.co.uk



**Elsoms Seeds** is the UK's leading independent seed specialist and plant breeder. We breed, supply and treat high quality vegetable and agricultural seed throughout the UK, using the latest in plant breeding research and seed technology.

**Contact:** Grant Hawkins **Tel:** 01775 715000 **Twitter:** @Elsomsseeds  
**eMail:** grant.hawkins@elsoms.com  
**Website:** www.elsoms.com



Our company is devoted to the living environment for human beings, animals and plants in the broader sense. Through promoting a sustainable society we hope to protect this planet by helping to reduce mankind's impact on the environment. By correctly selecting environmentally sustainable products, and sharing knowledge we believe we can make a difference to our future. Agriculture is our specialism, nature is our passion.

**Contact:** Fran Box **Tel:** 01823 673 344 **Twitter:** @AgritonUK  
**eMail:** info@agriton.co.uk  
**Website:** www.agriton.co.uk



**EnTrade** are the UK's leading environmental services marketplace. We create trusted trades between producers and buyers of landscape services. These services include water quality provision, habitat creation, flood regulation and carbon sequestration. Quick and easy to use, Register Online today and find out about new funding opportunities in your area.

**Contact:** Jez Graham **Tel:** 01225 526 445 **Twitter:**  
**eMail:** info@entrade.co.uk  
**Website:** www.entrade.co.uk



We are on a mission to reconnect people with nature. We believe that as a society we have become far too disconnected from our food and the land it comes from. Join the #Craftmeatrevolution

**Contact:** Ethical Butcher **Tel:** 0208 900 8585 **Twitter:** @ethical\_butcher  
**eMail:** office@ethicalbutcher.co.uk  
**Website:** www.ethicalbutcher.co.uk



**FCCT** are a farmer led organisation providing practical tools and advice on reducing greenhouse gas emissions, improving soil health and business resilience to farmers. We run the Soil Farmer of the Year competition, and have a Carbon Calculator and a Soil Carbon applied research project.

**Contact:** Becky Wilson **Tel:** 01579 37 23 76 **Twitter:** @FarmC02Toolkit  
**eMail:** becky.wilson@farmcarbontoolkit.org.uk  
**Website:** www.farmcarbontoolkit.org.uk







**FarmED** is a new Centre for Farming & Food Education. Our mission is to accelerate the transition towards regenerative farming and sustainable food systems by providing space and opportunity for inspirational education, innovative research, practitioner led knowledge exchange, events personal development.

**Contact:** Sophie Wilkinson **Tel:** 07539 451363 **Twitter:** @RealFarmED  
**eMail:** sophie@farm-ed.co.uk  
**Website:** www.farm-ed.co.uk



The Farming Community Network Volunteers provide free, confidential, pastoral and practical support to anyone who seeks help, regardless of whether the issue is personal or business-related. Our volunteers will “walk with” anyone who seeks support and help them find a positive way through their problems – for as long as it is needed.

**Contact:** Helpline **Tel:** 03000 111 999 **Twitter:** @FCNcharity  
**eMail:** help@fcn.org.uk  
**Website:** www.fcn.org.uk



The Farming Forum (TFF) is a meeting place for discussion and the exchange of information on subjects (broadly) relating to agriculture and farming / rural matters.

**Contact:** Chris Fellows **Tel:** 01543 686 209 **Twitter:** @TheFarmingForum  
**eMail:** chris@thefarmingforum.co.uk  
**Website:** https://thefarmingforum.co.uk/



The national **FWAG** Association represents local **Farming & Wildlife Advisory Groups** (FWAGs) across the UK. These groups have helped British farmers for over five decades by providing trusted, independent environmental advice.

**Contact:** FWAG **Tel:** 01823 660684 **Twitter:** @FWAGAssoc  
**eMail:** info@fwag.org.uk  
**Website:** www.fwag.org.uk



Using a free smart phone app, the microBIOMETER is able to provide an objective measurement of soil microbial activity (=soilhealth) for approx £10 per sample, now also giving the ratio of bacterial to fungal microbes. The phone app also provides a GPS location and the date/time when accessed.

**Contact:** Jack Ingle **Tel:** 07984 018 400 **Twitter:**  
**eMail:** jjingle@harvestagri.co.uk  
**Website:** www.harvestagri.co.uk



**Hodmedod** is an award winning business that works with farmers across the UK to offer a diverse range of delicious foods from Britain's arable fields. Our aim is to help create a transparent network of supply that supports the transition to an agroecological food system.

**Contact:** Josiah Meldrum **Tel:** 01986 467 567 **Twitter:** @Hodmedods  
**eMail:** josiah@hodmedods.co.uk  
**Website:** hodmedods.co.uk



As farmers ourselves, **Horsch** undertands the challenges farmers face and builds the best, innovative cultivation, seeding and spraying solutions, proven on our own farms to meet those challenges

**Contact:** Stephen Burcham **Tel:** 01733 66 78 95 **Twitter:** @HorschMaschinen  
**eMail:** stephen.burcham@horsch.com  
**Website:** www.horsch.com/uk







**HWIL** are the European/UK/Irish exclusive distributors for the “plug & play” automatic composting technology, for all organic & biodegradable waste, produced from agricultural and the whole food supply chain. At Groundswell 2021, this 5 year proven technology is being exhibited “live” for the 1st time in Europe/UK.

**Contact:** William Bedell **Tel:** 07774 783 247 **Twitter:** @hwilt  
**eMail:** william@horseweigh.com  
**Website:** www.hwilt.com



**Hummingbird Technologies** is a data analytics company specialising in the Ag Tech Industry. By pushing the boundaries of science and technology, our mission is to improve the efficiency of the global crop production and to feed the worlds growing population sustainably.

**Contact:** Helen Keevil **Tel:** 07990 043824 **Twitter:** @TechHummingbird  
**eMail:** sales@hummingbirdtech.com  
**Website:** www.hummingbirdtech.com



Suppliers and producers of agricultural seed mixtures including herbal leys, cash crops and soil improvers.

**Contact:** Jo Elstob **Tel:** 01377 271 400 **Twitter:** @HmSeedsAgri  
**eMail:** jo@hmseeds.com  
**Website:** www.hmseeds.co.uk



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**Contact:** Hutchinsons **Tel:** 01945 461177 **Twitter:** @Hutchinsons\_Ag  
**eMail:** information@hlhlt.co.uk  
**Website:** www.hlhlt.co.uk



At **Ilex EnviroSciences Ltd** we understand the constant challenges farmers and agronomists face everyday. Since 2004 we have been helping them improve efficiency, boost crop yield and quality and lessen environmental impacts.

**Contact:** Mike Burton **Tel:** 07540 066998 **Twitter:** @croppnutrition  
**eMail:** mike@ilex-envirosciences.com  
**Website:** www.ilex-envirosciences.com



**IfA** helps farmers put innovation into practice and connects them with farming research. Working with leading agricultural researchers, businesses and farmers to develop the knowledge and technologies that will make modern farming more sustainable, resilient and productive. Through practical interactive workshops, farm walks, and on-farm demonstrations, we help farmers to put this knowledge into practice.

**Contact:** Emily Stillwell **Tel:** 02476 692470 **Twitter:** @InnovationforAg  
**eMail:** emilys@rase.org.uk  
**Website:** www.innovationforagriculture.org.uk



**Innovative Farmers** is a network made up of a growing group of progressive farmers, growers, researchers and advisors; working together to tackle the stark challenges which farming faces. There are more than 1,700 farmer and grower members with 300 currently involved in field labs and 20 research institutions supporting them.

**Contact:** Helen Aldis **Tel:** 01173 145032 **Twitter:** @IFarmers  
**eMail:** haldis@soilassociation.org  
**Website:** www.innovativefarmers.org







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**Contact:** Delyth Williams **Tel:** 01970 828236 **Twitter:** @InnovisLtd  
**eMail:** delythwilliams@innovis.org.uk  
**Website:** www.innovis.org.uk



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**eMail:** info@jcmachinery.co.uk  
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**Contact:** Jerv Jordan **Tel:** 01787 227 695 **Twitter:** @croptonutrition  
**eMail:** jerv@jordanseeddrills.com  
**Website:** www.jordanseeddrills.com



We are arable farmers and sheep breeders who integrate livestock and arable systems to bring huge advantages and cost savings to both enterprises and create one big profitable, holistic machine. Working with nature rather than fighting it to benefit sheep, crops, wildlife, landowners, staff, farmers and the environment.

**Contact:** Jo Franklin **Tel:** 07919 995432 **Twitter:** @RobertHodgkins1  
**eMail:** robert\_hodgkins@hotmail.com  
**Website:** www.kaiapoi.co.uk



At **Kellogg's**, making breakfast for millions takes more than great ingredients and great people. Our Sustainability Commitments include initiatives that are built in partnership with suppliers, farmers, scientists and NGOs to increase agricultural productivity, improve environmental outcomes and positively impact farmer livelihoods.

**Contact:** Dave Fitzgerald **Tel:** +353 86 7930753 **Twitter:** @KelloggsUK  
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**Contact:** Kate Hughes **Tel:** 01952 239300 **Twitter:** @KUHN\_UK  
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## THE LAND GARDENERS

Henrietta Courtauld and Bridget Elworthy established **The Land Gardeners** in 2016 to research plant and soil health through growing, cutting and designing productive gardens. The Land Gardeners are now producing and developing a compost that regenerates soil microbial diversity. The unique process turns raw organic matter inputs into high quality humus in as little as 8 weeks.

**Contact:** Bridget Elworthy **Tel:** 07540 388 678 **Twitter:**  
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**Website:** www.thelandgardeners.com



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We advise clients on such diverse subjects as succession planning, restructuring advice, mediation, management accounts and tax advice. Since 1992 we have produced benchmarking data from clients' annual management accounts and using this data have helped clients to identify strengths and weaknesses and to challenge business structures and practices.

**Contact:** Gary Markham **Tel:** 01480 445490 **Twitter:** @LFBagri  
**eMail:** gary.markham@landfamilybusiness.co.uk  
**Website:** www.landfamilybusiness.co.uk



The Landworkers' Alliance is a union of farmers, growers, foresters and land-based workers. Our mission is to improve the livelihoods of our members and create a better food and land-use system for everyone. We have a vision of a future where people can work with dignity to earn a decent living and everyone can access local, healthy and affordable food, fuel and fibre.

**Contact:** Jyoti Fernandes **Tel:** (+44)7875849754 **Twitter:** @LandworkersUK  
**eMail:** jyoti.fernandes@landworkersalliance.org.uk  
**Website:** https://landworkersalliance.org.uk/



**LEAF** (Linking Environment And Farming) is the leading organisation delivering more sustainable food and farming. LEAF works with farmers, the food industry, scientists and consumers to inspire & enable sustainable farming that is prosperous, enriches the environment, engages local communities

**Contact:** Justine Hunt **Tel:** 02476 413911 **Twitter:** @LEAF\_Farming  
**eMail:** justine.hunt@leafuk.org  
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**Contact:** Mike Metcalfe **Tel:** 01609 771124 **Twitter:** @jjmandson  
**eMail:** info@jjmetcalfeandson.com  
**Website:** www.jjmetcalfeandson.com



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**Contact:** Edward Wilkinson **Tel:** 01622 891 085 **Twitter:** @McVeigh\_Parker  
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**Contact:** Gordon Brookes **Tel:** 01782 402 000 **Twitter:** @MichelinAgriUK  
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The **Nature Friendly Farming Network (NFFN)** is a farmer-led organisation, uniting farmers from all backgrounds (big and small, organic and conventional) who want to manage their land in ways that deliver benefits for wildlife, soil quality, flood prevention and carbon emissions, at the same time as growing healthy food.

**Contact:** Alison Rickett **Tel:** 07771 911 9051 **Twitter:** @NFFNUK  
**eMail:** alison.rickett@nffn.org.uk  
**Website:** www.nffn.org.uk/



**NIAB** is a UK leader in transferring innovation in plant science into practical agriculture through independent field, soils and lab research, technical training, precision agronomy, digital products and NIAB TAG membership services including the CTF Network

**Contact:** Will Smith **Tel:** 01223 342200 **Twitter:** @NIABTAG  
**eMail:** william.smith@niab.com  
**Website:** www.niab.com







NRM provides expert analytical services for agriculture, horticulture, amenity and environmental companies within the land based industries. NRM's analytical capability covers all aspects of soil and plant tissue, water, inputs/outputs associated with plant growth and environmental operations

**Contact:** Rory Geldard      **Tel:** 07917 064591      **Twitter:** @NRMLaboratories  
**eMail:** rory.geldard@nrm.uk.com  
**Website:** www.nrm.uk.com



We at **Nofence Grazing Technology** believe that livestock should graze on fresh and healthy pastures, as they were designed to do. Nofence is the world's first system for GPS-based virtual fencing for grazing animals and will take the pain out of your fence work and potentially enable mob grazing at scale.

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French equipment manufacturer. We build advanced and versatile no till drills, from 3m to 9m. Our openers are hybrid disc/tines, capable of excellent residue handling and fertiliser placement in any no till soil.

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**eMail:** commercial@novagsas.com  
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**nutri-bio** provide biosolids to farmers across East Anglia. Benefits of biosolids are high levels of phosphate, nitrogen and organic matter. We aim to improve soil health and nutrition.

**Contact:** Megan Ward      **Tel:** 0780 228 0489      **Twitter:**  
**eMail:** mward7@anglianwater.co.uk  
**Website:** www.nutri-bio.co.uk



Manufacturers and suppliers of bio-stimulants

**Contact:** Mark Atkins      **Tel:** 07375 999216      **Twitter:** @NutricorA  
**eMail:** info@nutricor-agronomics.com  
**Website:** Nutricor-agronomics.com



**Oakbank** offer a solution-based approach to cover and companion cropping, carrying out large-scale farm trials to road test ideas in real UK conditions. We supply a complete range of cover crop seed and advice to help you be successful.

**Contact:** Ian Gould      **Tel:** 01480 890686      **Twitter:** @oakbankgame  
**eMail:** ian@oakbankgc.co.uk  
**Website:** www.oakbankgc.co.uk



**OASIS** offers support for farmers considering organic conversion and provides existing organic farmers with management advice and information. OASIS is a partnership between OF&G and Abacus. OF&G is a Community Interest Company with more than 40 years experience in the organic sector. We certify over 50% of all organic land in the UK. Abacus provides independent advice with a practical, hands-on approach to integrated farm management and agronomy for organic and low input agriculture.

**Contact:** Ian Knight      **Tel:** 0844 8000091      **Twitter:** @ofgorganic  
**eMail:** advice@organicinfo.org.uk  
**Website:** www.organicinfo.org.uk







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**Contact:** Hannah Mahon **Tel:** 07773 392340 **Twitter:** @OzOverboots  
**eMail:** info@ozoverboots.co.uk  
**Website:** www.ozoverboots.co.uk



Suppliers of Agricultural and Groundscare machinery John Deere Dealers covering Suffolk, Essex, Hertfordshire and Bedfordshire.

**Contact:** Gary Buckle **Tel:** 0771 255 6387 **Twitter:** @PTuckwellLtd  
**eMail:** gbuckle@tuckwellgroup.com  
**Website:** www.tuckwell.co.uk



The Pasture-Fed Livestock Association was set up to promote the unique quality of produce raised exclusively on pasture, and the wider environmental and animal welfare benefits that pastured livestock systems represent.

**Contact:** Philippa Staggs **Tel:** 01285 88 98 53 **Twitter:** @PastureForLife  
**eMail:** membership@pfla.org.uk  
**Website:** www.pastureforlife.org



The **Smart Rotations** brand was launched in 2017 after four years of laboratory and field research by PlantWorks, the UK's leading producer of mycorrhizal fungi and beneficial bacteria. The company offers biofertiliser products and advice on soil health and management for agriculture and horticulture.

**Contact:** Natallia Gulbis **Tel:** 01795 41 15 27 **Twitter:** @SmartRotations  
**eMail:** natallia.gulbis@plantworksuk.co.uk  
**Website:** www.smart.plantworksuk.co.uk



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**Contact:** James Alexander **Tel:** 07779 149466 **Twitter:** @Primewest\_ltd  
**eMail:** james@primewest.co.uk  
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Procam invites farmers to challenge conventional approaches to arable cropping and investigate the advantages of integrating alternatives such as cover crops, green manures and livestock into future rotations.

**Contact:** James Alexander **Tel:** 07779 149466 **Twitter:** @Primewest\_ltd  
**eMail:** james@primewest.co.uk  
**Website:** www.primewest.co.uk/



**regenagri** is a regenerative agriculture program for securing the health of the land and the wealth of those who live on it. It supports farms and organisations transitioning to holistic farming, increasing soil health, encouraging biodiversity and sequestering CO2. regenagri provides routes to additional funds through the green finance market

**Contact:** Harry Farnsworth **Tel:** (0) 20 7488 2210 **Twitter:** @regenagri\_CU  
**eMail:** info@regenagri.org  
**Website:** https://regenagri.org/







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**Contact:** Mark Grant Goodey **Tel:** 01264 810 665 **Twitter:** @RappaFencing  
**eMail:** mark@rappa.co.uk  
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**eMail:** info@razorback.com  
**Website:** www.razorbackuk.com



The Rare Breeds Survival Trust exists to conserve and promote our native livestock breeds

**Contact:** Christopher Price **Tel:** **Twitter:** @RBSTrarebreeds  
**eMail:** christopherprice@rbst.org.uk  
**Website:** www.rbst.org.uk



Dr Tom Sizmur and Dr Xin Shu are the main researchers working on a BBSRC funded project entitled "DIVERse crop residues Engender Resilience of Soil functions and Ecosystem services". The overarching aim of this project is to demonstrate that incorporating a mixture of biochemically diverse crop residues in the form of cover crop green manure mixtures changes the structure of the soil microbial community, and that this altered microbial community can enhance soil resistance and resilience to environmental disturbances which can benefit soil sustainability and crop yield.

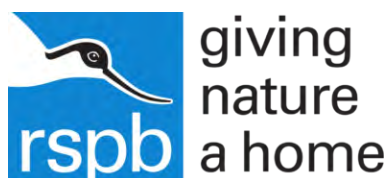
**Contact:** Dr Tom Sizmur **Tel:** 0118 378 8913 **Twitter:** @tomsizmur  
**eMail:** t.sizmur@reading.ac.uk  
**Website:** www.reading.ac.uk



**RootWave** are pioneering the use of electricity to kill weeds offering a sustainable & scalable alternative to herbicides.

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**Contact:** Stephen Jelley **Tel:** +447900 787 062 **Twitter:** @RootWave  
**eMail:** Stephen.Jelley@rootwave.com  
**Website:** www.rootwave.com



The **RSPB** is part of the Farm Wildlife Partnership offering guidance on a six-point plan to restore biodiversity on lowland farmland. We can share our experiences of trialling sustainable agriculture on Hope Farm, our arable farm, and on our farmed reserves.

**Contact:** Richard Winspear **Tel:** 07711 426046 **Twitter:** @Natures\_Voice  
**eMail:** richard.winspear@rspb.org.uk  
**Website:** www.rspb.org.uk



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**Contact:** Charlie Griffith **Tel:** 0044783 568 4851 **Twitter:** @ruumismart  
**eMail:** charlie@ruumi.io  
**Website:** www.ruumi.io







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**Contact:** Mark Harrison **Tel:** 01944 72 81 86 **Twitter:**  
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**Contact:** Sam Berry **Tel:** 01256 384208 **Twitter:** @SamagriLtd  
**eMail:** samagri@btconnect.com  
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**Contact:** Victoria Nicol **Tel:** +44 77 23 58 09 41 **Twitter:** @SencropUK  
**eMail:** contact@sencrop.com  
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**Contact:** Simon Clarke **Tel:** 07711 409740 **Twitter:** @Simtech\_TSEM  
**eMail:** simon@simtech-aitchison.co.uk  
**Website:** www.simtech-aitchison.co.uk



The **Sky EasyDrill** is the product of 39 years worth of product development which started after a chance meeting between two agricultural machinery manufacturers. Sulky and Moore worked together for many years to evolve the UniDrill which has since become the EasyDrill. At first Sulky provided the seed metering part of the drill and Moore the coulters but gradually an integrated design evolved to provide a drill which would work in arable conditions as well as grassland. At the start of 2013 Sky Agriculture was born as a specialist company to sell, support and develop trailed drills manufactured by Sulky including the EasyDrill.

**Contact:** Helen Selkin **Tel:** 01778 42 11 11 **Twitter:** @SkyAgriculture  
**eMail:** ask@opico.co.uk  
**Website:** www.sky-agriculture.co.uk

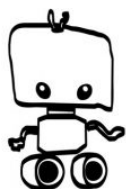


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**Contact:** Horizon Agriculture **Tel:** 01945 440 999 **Twitter:** @HorizonAgri  
**eMail:** george.sly@slyagri.com  
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**Contact:** Sarra Mander **Tel:** 07941 470 406 **Twitter:** @smallrobotco  
**eMail:** sarra@smallrobotcompany.com  
**Website:** www.smallrobotcompany.com



**Shuttleworth College** (a part of Bedford College) offers a wide variety of full-time and part-time land-based courses, making full use of the natural resources available, which include parkland, farm land, lakes and woodland.

**Contact:** Shane Durham **Tel:** 01767 626222 **Twitter:** @shuttleworthcol  
**eMail:** mcurry@bedford.ac.uk  
**Website:** www.independentsoils.co.uk



**Soil Association** Certification is the UK's leading organic certification body, certifying over 70% of the UK organic market including thousands of farms and businesses. We provide a comprehensive, expert certification service for farmers interested in organic conversion and offer our licensees a range of tangible benefits and supply opportunities to help grow their enterprises.

**Contact:** Sophie Kirk **Tel:** 0117 914 2406 **Twitter:** @SoilAssociation  
**eMail:** skirk@soilassociation.org  
**Website:** www.soilassociation.org/certification/



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**eMail:** a.voysey@soilcapital.com  
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**Contact:** Keryn Middleton **Tel:** 01366 384899 **Twitter:** @SoilFertilityUK  
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**Website:** www.independentsoils.co.uk



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**Contact:** Inge van Lankveld **Tel:** 0031 619 959 596 **Twitter:**  
**eMail:** inge@soilheroes.com  
**Website:** www.soilheroes.com



**Soilmentor** helps you learn what healthy soils and flourishing biodiversity look like on your farm. Understand changes on your land above & below ground, make informed decisions and keep everyone in the loop. It works with a series of simple in-field tests – the software makes it easy to record observations and photos, which are visualised to spot trends, refer to benchmarks and make comparisons.

**Contact:** Abby Rose **Tel:** 07952 005864 **Twitter:** @soilmentor  
**eMail:** info@vidacycle.com  
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**SOYL** provides services & advice to growers using precision crop production techniques to improve business performance.

**Contact:** Rebecca Kearsey **Tel:** 01635 204 194 **Twitter:** @SOYLprecision  
**eMail:** rebecca.kearsey@soyl.co.uk  
**Website:** www.soyl.com



**Sustainable Soil Management** offers the most comprehensive and advanced soil analytical and interpretation service available to UK and European farmers. The only report providing both total and available nutritional, rotational nutrient-cycling and a programmed approach to soil improvement.

**Contact:** Ian Robertson **Tel:** 07970 286 420 **Twitter:** @GlensideGroup  
**eMail:** ian@soiladvice.com  
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**Sumo** is changing with the times and has a focus on Conservation Agriculture, which is a farming system that puts soil at the centre of your farm universe. It can protect the soil from erosion and degradation, improve its biodiversity and protect our most precious natural resources; water and air.

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**Contact:** Darren **Tel:** 01759 319900 **Twitter:** @SumoUKLTD  
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**Contact:** Tom Neat **Tel:** 01353 862044 **Twitter:** @techneat  
**eMail:** info@techneat.co.uk  
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**Woodland Trust** – incorporating trees into farming systems supports a more sustainable and productive agricultural sector. From simple hedgerow plantings to fully integrated agroforestry systems, trees help address issues by contributing to; shade, shelter, soil, water and pollution management, integrated pest management and product diversification.

**Contact:** Helen Chesshire **Tel:** 0343 770 5804 **Twitter:** @WoodlandTrust  
**eMail:** helencheshire@woodlandtrust.org.uk  
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**Contact:** Sam Leadbeater **Tel:** 07939 026550 **Twitter:** @TimacAgroUK  
**eMail:** samuel.leadbeater@uk.timacagro.com  
**Website:** https://uk.timacagro.com/



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**Contact:** Hannah Napier **Tel:** 014346 330 049 **Twitter:** @treesplease1  
**eMail:** sales@treesplease.co.uk  
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**Unium Bioscience** are a company developing world class academic research into affordable, practical and sustainable farm solutions to maximise yield and quality. Our key areas of focus are biologicals, biostimulants, nutrient enhancers, nutrients, signalling compounds and seed treatments.

**Contact:** John Haywood **Tel:** 07801 307376 **Twitter:** @uniumbioscience  
**eMail:** john@uniumbioscience.com  
**Website:** www.uniumbioscience.com



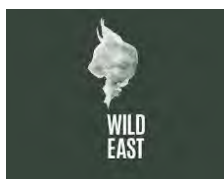
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**Contact:** Darcy Gander **Tel:** 01273 891 777 **Instagram:** @vineworksuk  
**eMail:** sales@vine-works.com  
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**Weaving Machinery** have been specialising in the development of no-till equipment for over 20 years, with the launch of the GD drill in 2015 soon becoming one of the premier global no-till drills. The GD is adequately placed to cope with the environmental and sustainable challenges facing future food production.

**Contact:** Weaving Machinery **Tel:** 01386 49155 **Twitter:** @Weaving\_Mach  
**eMail:** info@weavingmachinery.net  
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**Contact:** Geoffrey Wox **Tel:** 01670 789 020 **Twitter:** @WoxAgri  
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**Contact:** Jonathan Telfer **Tel:** 01759 305 116 **Twitter:** @yara  
**eMail:** ypl.laboratory@yara.com  
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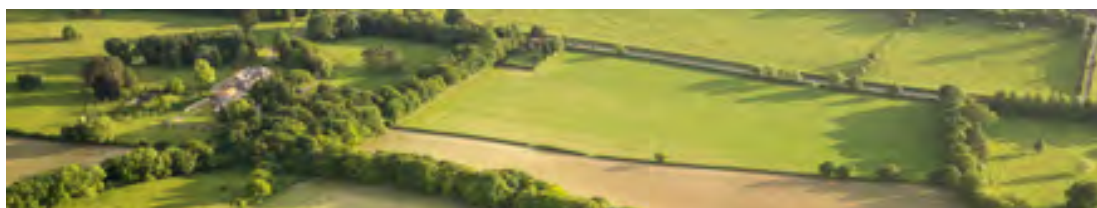
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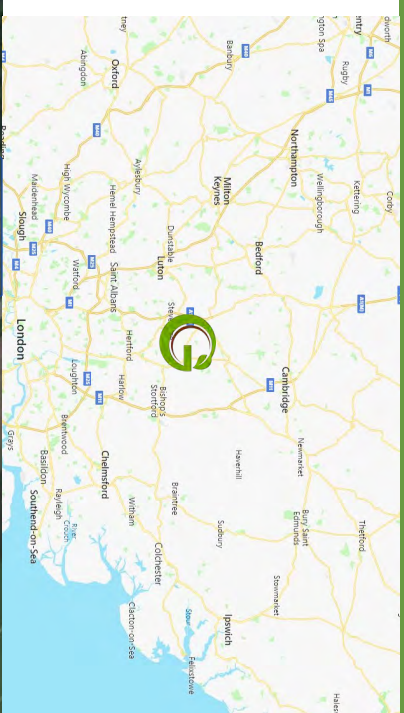




# Groundswell

## Event Map

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Lannock Manor Farm, Hitchin SG4 7EE - 23<sup>rd</sup> and 24<sup>th</sup> June 2021

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