An Overview Of The Estate And Different Farming Businesses

• 2000 ha – Total area
• 1300 ha - Farmed in hand as part of a min-till system
• 700 ha – Grassland and woodland managed in hand
• 600 head Aberdeen Angus beef herd
• Feedstock providers for an on site 3.5 MW AD plant
• 100 ha of solar on a dis-used airfield. Providing energy to 14,000 homes annually
• 2 Broiler hen units. No longer in hand, let on a long-term rental agreement
• Property managed in house; glamping site added two years ago. Exploring further diversification projects
The Farming System

• Raynham is stooped in agricultural history. The 2nd viscount was a very influential figure in the British Agricultural Revolution

• The business has moved away from what was once a plough only based system, to now ploughing once in the 9 year rotation

• The system has been streamlined significantly over recent years:

  8 cultivators → 3 cultivators
  3 ploughs → 1 plough
  9 tractors → 5 tractors
# Rotation And Soil Management Strategy

<table>
<thead>
<tr>
<th>Planted Crop</th>
<th>W Wheat</th>
<th>AD Rye</th>
<th>W OSR</th>
<th>W Wheat</th>
<th>Spring Beans</th>
<th>W Wheat</th>
<th>Sugar Beet</th>
<th>S Barley</th>
<th>Forage Maize</th>
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<tbody>
<tr>
<td><strong>Organic Manure</strong></td>
<td>Digestate second wheats</td>
<td>Digestate on crop</td>
<td>Digestate pre-drilling</td>
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<td>Digestate pre cover crop</td>
<td>Digestate pre-drilling</td>
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<td><strong>Cover Crop</strong></td>
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<td>Radish, vetch, phacelia, linseed, buckwheat</td>
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<td><strong>Cover Crop Control</strong></td>
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<td>Glyphosate/24D</td>
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<td><strong>First cultivation</strong></td>
<td>Deep tine</td>
<td>Shallow tine</td>
<td>Shallow disc</td>
<td>Shallow disc</td>
<td>Tine cultivator/ cover crop drill</td>
<td>shallow tine</td>
<td>Tine cultivator/ cover crop drill</td>
<td>Plough</td>
<td>Tine cultivator/ cover crop drill</td>
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<tr>
<td><strong>Weed control</strong></td>
<td>Glyphosate</td>
<td>Glyphosate</td>
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<tr>
<td><strong>Secondary cultivation</strong></td>
<td>Deep tine</td>
<td>Tine cultivator/ bio-drill</td>
<td>Shallow tine</td>
<td>Shallow tine</td>
<td>Shallow disc + Shallow tine</td>
<td>Shallow tine</td>
<td>Shallow disc</td>
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Weed Control Advantages & Disadvantages Within The Rotation
Oilseed Rape

- Establishment Risk. To pre em or not to pre em.....
- Belkar has been a very useful tool. Particularly in the fight against Cranesbill.
- Spotlight on Astrokerb...
Forage Maize

- Useful later drilling window
- Historically consistent post emergence herbicide control
- Blackgrass challenges on rented land
Whole Crop Rye

- Excellent competitiveness
- Ability to harvest prior to problem weed seeds setting
- Viability of weed seeds as a result of the AD process
- Early harvest window
Sugar beet

• Weed beet is an issue in areas. Conviso technology adopted
• Use of the FAR system
• Capacity of the sprayer
• No Clethodim resistance
Spring Beans

- Limited post emergence herbicide options
- A lot of reliance on pre emergence application, very weather dependent
- Spring germinating black grass
- Cover Crop Volunteers
Positives & Negatives of Cover Crops

For:
✓ Increased Organic Matter
✓ Improved Soil Structure
✓ Nutrient Recycling
✓ **Weed Control**

Against:
X **Weed Control**
X Nutrient Lock Up
X Residue Management
X Poaching
Challenges of Grazing

- Canopy Management
- Grazing Management
- Soil Management
We are five farm businesses collaborating together. With research & commercial partners we test, discuss, choose & use best practice. This is enhancing the productive, financial & ecological results of our farming.
Closing Remarks

- A diverse rotation
- Timing
- Attention to detail
- Education