Appendix 1 – Complete list of 41 activities

In this guide

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1. Background and introduction
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1. Changed fertilizer practices including new formulations and more organic systems of production
2. New crop and plant varieties produced by conventional and new breeding methodologies
3. Less chemical options for pest control and moves to more Integrated Pest Management
4. Changes to cultivation methods – reduced tillage
5. Changed rotations and crop mixtures
6. Policy changes to increase on-farm biodiversity and carbon sequestration
7. Development of circular economy principles to utilise waste streams
8. Reduction of inputs (e.g. water, biocides) that affect food safety
9. Improving nutrient management
10. Protection of peatlands and increased carbon sequestration
11. Encouragement to protect soil biodiversity
12. Increased use of agroforestry, cover and nitrogen fixing crops
13. Mixed rotations which include livestock
14. More hedgerows, woodland and forests
15. Investments in Anaerobic Digestor plants
16. Land use change; Balance between for agriculture and for carbon storage
    1. a. Planting woody biomass (for energy production / Biochar)

    2. b. Restoration of peatlands
    3. c. Agroforestry
17. Mixed rotations including livestock
18. Greater integration of arable and livestock farming
19. Multi-stream culture systems (e.g., fish plus water plants such as watercress)
20. Ocean farming and harvesting of seaweed
21. Novel animal feed; insect protein, soy replacement, new proteins
22. Insect feed in aquaculture
23. Supplements for livestock to reduce methane
24. Livestock and rumen microbes as part of the pangenome approach
25. Livestock breeding (traditional and/or GE and/or GM) for more sustainable traits
26. Bio based and other novel packaging and food contact materials
27. Reduced plastic packaging
28. Conversion of and reuse of food waste
29. Abstraction of slurry (to allow use of low emission slurry spreading machines)
30. Manure management; anaerobic digestion
31. More plant-based diets
32. Novel proteins in consumer diet; insects, cultured meat, meat and dairy substitutes
33. Decarbonisation of crops grown in polytunnels
34. Vertical Farming systems
35. Robots and drones used in farming systems
36. Animal and plant health Sustainable intensification - Lower carbon agronomy
    1. a. Intensive indoor dairy and livestock systems
    2. b. Intensive plant growing systems
37. high-tech production systems (glasshouses, Controlled Environment Agriculture (CEA), hydroponics)
38. Reduced water uses
    1. a. Recycled water
    2. b. Reduced washing
39. Energy use reduction measures
40. Land-based renewables and energy storage, for on-farm and export
41. Bioenergy with carbon capture and storage - not in the food system, but uses land so will affect the food system