



30. PLANET FAIRWAY partner: Fiona Nicholson (ADAS, UK)		
Brief description		
PLANET (Planning Land Applications of Nutrients for Efficiency and the environment) is a nutrient management decision support tool for use by farmers and advisers in England/Wales and Scotland for field level nutrient planning and for assessing and demonstrating compliance with the Nitrate Vulnerable Zone (NVZ) rules.		
Contaminants covered (e.g. nitrate, pesticides etc.)	Nitrate (nutrients)	
Intended end users (e.g. farmer, water quality manager, policy maker)	Farmers and advisors	
Level of expertise and/or training required	Some experience needed to use the software but extensive help and information is available (see below)	
Geographical resolution (e.g. field, catchment, national)	Field and farm scale.	
Temporal resolution (e.g. daily, annual, long-term).	Annual	
Real-time component (e.g. live weather data, soil moisture data feeds etc.)	None	
Number and type of mitigation measures included	None	
Platform (e.g. paper-based tool, phone app, bespoke software).	Bespoke software (in English only) can be downloaded from the following website: http://www.planet4farmers.co.uk	
Frequency of updates	Most recent version v3.3 (August 2014). Regularly updated to reflect changes in the NVZ Action Plan - last update November 2016.	
Cost/availability	Free to download or on DVD	
Number of users or number of copies distributed/downloaded/purchased	Over 18,000 users	
Links to demo material and other relevant information (e.g. user guides).	Tutorials and help (in English) available at http://www.planet4farmers.co.uk/Content.aspx?name=Tutorials A dedicated Helpdesk for users is provided.	
Additional comments	PLANET incorporates the ADAS MANNER software. The PLANET code is publically available and has been incorporated into commercial software packages such as Gatekeeper and Greenlight.	

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Input data required to run the DST	Data inputs depend on the module being used and include farm details, livestock type and numbers, cropping, soil analysis, fertiliser and manure applications, capacity and surface area of manure stores, rainwater collection area, volume of wash water, area of low runoff risk land,	
Outputs (including links to water quality and economic or financial aspects)	At the end of the season, details of actual cropping, soil analysis, organic manure and nutrient/lime applications to each crop are recorded and can be used to generate next year's RB209 recommendations which can be used as the basis for developing a nutrient application plan for each field. Estimates are produced of manure quantities from different sources and their financial value, and an estimate of the NVZ minimum storage capacity requirement. Outputs do not directly link to water quality. All PLANET reports can be viewed and printed.	
Age/provenance of supporting data used to develop the DST	Based on the Defra Fertiliser Manual (RB209) and the ADAS MANNER software.	
Country-specific calibration or data requirements (including restrictions on use)	Based on the UK RB209 fertiliser recommendations and UK NVZ regulations. Not possible to modify without extensive work.	
Details of validation and testing	No information	
Date developed/released (or planned release date)	Version 3.3 released in 2014.	
Author/developer names and affiliations	ADAS and SRUC	
Member state(s) where developed	UK	
Member State(s) where currently used	UK (England, Wales and Scotland)	
Key publication references (including url)	http://www.informatique-agricole.org/download/efita-conference/Congres_EFITA_2005/PA190%20-%20Gibbons.pdf	


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Any other useful information (e.g. screenshots of DST input/outputs)

Farm details data entry screen



Manure storage data entry screen

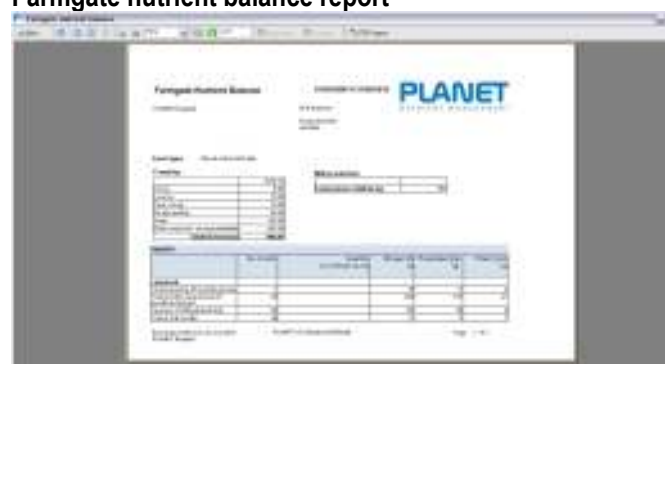


Livestock manure N farm limit results screen



Category	Item	Quantity	Unit Price	Total Value
Livestock manure N farm limit results	Manure N	1000	10.00	10000.00
	Manure P	500	20.00	10000.00
	Manure K	200	50.00	10000.00
Livestock manure N farm limit results	Manure N	1000	10.00	10000.00
	Manure P	500	20.00	10000.00
	Manure K	200	50.00	10000.00
	Manure N	1000	10.00	10000.00

Farmgate nutrient balance report



Item	Quantity	Unit Price	Total Value
Manure N	1000	10.00	10000.00
Manure P	500	20.00	10000.00
Manure K	200	50.00	10000.00
Manure N	1000	10.00	10000.00
Manure P	500	20.00	10000.00
Manure K	200	50.00	10000.00