



Recommendation Report

2023

**Prepared for Mr Gareth Adams
Coombe Farm**

Llanvair Discoed, Chepstow, Monmouthshire, NP16 6LN

Produced by Mr Tim Seymour, Camelot Farm Services Ltd

FACTS No FE/0371

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Report produced using the NavigatePro Nutrient Management System

Recommendation Report

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Recommendation	Date	Year	Measurements	Usage	Crop	Sowing Date							
Forage Maize	10/04/2023	2023	Metric	Arable & Horticulture	Forage Maize	25/04/2023							
<i>Fields</i>													
Field Name	Soil Texture	pH	P	K	Mg	NVZ	SS	Index Objectives	Previous Crop	ESFs	Area	Inorg Area	Org Area
CF Back Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.74	3.74	3.74
CF Corner Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	4.10	4.10	4.10
CF Crossways	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	25.01	25.01	25.01
CF Dick the Miller 1	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.46	3.46	3.46
CF Dick the Miller 2	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.02	3.02	3.02
CF Dick the Miller 3	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	9.04	9.04	9.04
CF Parkers	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	16.52	16.52	16.52
CF Penline	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	9.27	9.27	9.27
CF Stoneycroft	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	10.86	10.86	10.86
CF Tank Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	11.90	11.90	11.90
COP Plough Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.66	5.66	5.66
HS Hems	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	2.05	2.05	2.05
LH Barley Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	7.35	7.35	7.35
LH Long Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	10.00	10.00	10.00
Slidy Hill	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	8.90	8.90	8.90
STU Gas Station	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	4.57	4.57	4.57
STU Main Road	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.25	5.25	5.25

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STU Parkers	Clay Loam	6.2 2	2- 2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.70	5.70	5.70
STU Under Wood	Clay Loam	6.2 2	2- 2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	7.80	7.80	7.80
Total Area (Ha)								154.20	154.20	154.20	154.20

Nutrient Requirements: Forage Maize

Date	Crop	N	P	K	SO3	Mg	Na
25/04/2023	Forage Maize (None)	100.0	55.0	175.0			

Nutrient Components

Date	Component	Vol	DM %	Growth Stage	N	P	K	SO3	Mg	Na
Crop Offtakes										
25/04/2023	Forage Maize (None)	52.0 t/Ha			-72.8	-228.8				
Subtotal					-72.8	-228.8				

Manure

25/04/2023	Cattle farmyard manure	10.0 t/Ha	25.00		6.0	32.0	94.0	3.6	18.0	0.0
25/04/2023	Poultry manure (60% DM)	3.0 t/Ha	60.00		33.6	51.0	63.0	14.8	17.7	0.0
Subtotal					39.6	83.0	157.0	18.4	35.7	0.0

Fertiliser

26/04/2023	Urea, granular	125.0 kg/Ha			57.5	0.0	0.0	0.0	0.0	0.0
Subtotal					57.5	0.0	0.0	0.0	0.0	0.0
Balance						10.2	-71.8			
Grand Total					97.1			18.4	35.7	0.0

Notes: Forage Maize

Nitrogen

Up to 10-15 kg N/ha may be placed below the seed at drilling and the balance top-dressed after emergence.

Phosphate

All of the phosphate may be placed below the seed at drilling.

Lime

In stony soils lime rates can be reduced e.g. if stones comprise 20% of the soil volume, reduce lime rate by 20%.

Total N from Organic Manures 144.00 kg/Ha

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Total P from Organic Manures	83.00 kg/Ha
N Max	150 kg N/Ha
Soil N Supply	60-80 kg/Ha (index 1)

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Recommendation	Date	Year	Measurements	Usage	Crop							
Grass Ley	10/04/2023	2023	Metric	Grassland	Grass							
<i>Fields</i>												
Field Name	Soil Texture	pH P	K	Mg	NVZ	SS	Index Objectives	Previous Crop	ESFs	Area	Inorg Area	Org Area
Red Barn Well Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	9.13	9.13	9.13
Red House 23	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	5.08	5.08	5.08
Red House 2317	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	4.20	4.20	4.20
STU 15 Acre Cow	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	5.22	5.22	5.22
STU Cai Bach	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	2.84	2.84	2.84
STU Penhein	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	9.82	9.82	9.82
STU Triangle	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	5.63	5.63	5.63
SW Sunny Bank 1	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	2.42	2.42	2.42
SW Sunny Bank 2	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	3.64	3.64	3.64
SW Sunnybank 3	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	4.00	4.00	4.00
Total Area (Ha)										51.98	51.98	51.98

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Nutrient Components

Date	Component	Vol	DM %	Growth Stage	N	P	K	SO3	Mg	Na
Crop Offtakes										
20/05/2023	Slilage (30% DM)	7.0 t/Ha				-14.7	-50.4			
18/07/2023	Slilage (30% DM)	5.0 t/Ha				-10.5	-36.0			
10/08/2023	Grazing / Fresh grass (15-20% DM)	2.0 t/Ha				-25.0	-25.0			
Subtotal						-50.2	-111.4			

Fertiliser

15/03/2023	Urea, OEN	250.0 kg/Ha			115.0	0.0	0.0	0.0	0.0	0.0
25/05/2023	Ammonium Nitrate 34.5%	250.0 kg/Ha			86.3	0.0	0.0	0.0	0.0	0.0
26/07/2023	Ammonium Nitrate 34.5%	125.0 kg/Ha			43.1	0.0	0.0	0.0	0.0	0.0
Subtotal					244.4	0.0	0.0	0.0	0.0	0.0

Balance						-50.2	-111.4			
Grand Total					244.4			0.0	0.0	0.0

Notes: Grass Ley

Total N from Organic Manures	0.00 kg/Ha
Total P from Organic Manures	0.00 kg/Ha
N Max	300 kg N/Ha
Soil N Supply	

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Recommendation	Date	Year	Measurements	Usage	Crop							
Permanent Pasture	10/04/2023	2023	Metric	Grassland	Grass							
Fields												
Field Name	Soil Texture	pH P	K	Mg	NVZ	SS	Index Objectives	Previous Crop	ESFs	Area	Inorg Area	Org Area
CF Banky Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	5.38	5.38	5.38
CF Drive Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	1.49	1.49	1.49
CF Ewe Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	5.52	5.52	5.52
CF Lagoon Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	0.38	0.38	0.38
CF Near Pond Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	1.93	1.93	1.93
CF Small Pond	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	1.34	1.34	1.34
CF The Big Pond	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	0.24	0.24	0.24
CF The Park	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	10.20	10.20	10.20
LH Thistle Field 1865	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	0.67	0.67	0.67
Red House 1737	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	3.13	3.13	3.13
Red House 3138	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	2.38	2.38	2.38
Runston Fields	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	2.00	2.00	2.00
Trellenny 8 Acre	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Unknown	0	5.87	5.87	5.87
Total Area (Ha)										40.53	40.53	40.53

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Nutrient Components

Date	Component	Vol	DM %	Growth Stage	N	P	K	SO3	Mg	Na
Crop Offtakes										
20/05/2023	Grazing / Fresh grass (15-20% DM)	6.0 t/Ha				-25.0	-25.0			
Subtotal						-25.0	-25.0			

Fertiliser

01/04/2023	Urea, OEN	125.0 kg/Ha			57.5	0.0	0.0	0.0	0.0	0.0
Subtotal					57.5	0.0	0.0	0.0	0.0	0.0
Balance						-25.0	-25.0			
Grand Total					57.5	-25.0	-25.0	0.0	0.0	0.0

Notes: Permanent Pasture

Total N from Organic Manures	0.00 kg/Ha
Total P from Organic Manures	0.00 kg/Ha
N Max	300 kg N/Ha
Soil N Supply	

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Recommendation	Date	Year	Measurements	Usage	Crop	Sowing Date							
Spring Barley	10/04/2023	2023	Metric	Arable & Horticulture	Spring Barley (Feed)	08/04/2023							
Fields													
Field Name	Soil Texture	pH	P	K	Mg	NVZ	SS	Index Objectives	Previous Crop	ESFs	Area	Inorg Area	Org Area
CF The Pond Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	8.00	8.00	8.00
LH Drier Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	7.45	7.45	7.45
LH Marr Hill	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	8.14	8.14	8.14
Red House Turnp Field	Clay Loam	6.2	2	2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	6.30	6.30	6.30
Total Area (Ha)										29.89	29.89	29.89	29.89
Nutrient Requirements: Spring Barley													
Date	Crop	N	P	K	SO3	Mg	(kg/Ha)						
08/04/2023	Spring Barley (Feed)	170.0	70.0	100.0	50.0	0.0							
Nutrient Components													
Date	Component	Vol	DM %	Growth Stage	N	P	K	SO3	Mg	Na			
Crop Offtakes													
08/04/2023	Spring Barley (Feed)	8.5 t/Ha			-68.0	-102.0							
Subtotal					-68.0	-102.0							
Manure													
06/04/2023	Poultry manure (60% DM)	4.5 t/Ha			50.4	76.5	94.5	22.1	26.6	0.0			
Subtotal					50.4	76.5	94.5	22.1	26.6	0.0			
Fertiliser													
22/04/2023	Urea, granular	110.0 kg/Ha		Two to four leaves unfolded	50.6	0.0	0.0	0.0	0.0	0.0			
Subtotal					50.6	0.0	0.0	0.0	0.0	0.0			
Balance					8.5	-7.5							
Grand Total					101.0	22.1	26.6	0.0	0.0	0.0			

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Notes: Spring Barley

Nitrogen

A reduction in N rate of 30 kg/ha has been shown to decrease grain N% by 0.1 across a wide range of grain N contents (1.5% to 1.9%) on average. Grain N may be diluted in high-yielding crops. Changes in the timing of N application between seed bed and GS30 have little effect on grain N%.

Apply all nitrogen between the time of drilling and GS30, with at least 40 kg N/ha in the seedbed. Reduce the risk of nitrate leaching by limiting any seed bed N applications of more than 40kg N/ha if the crop is sown before March, or on a light sand soil, or if there is a likelihood of substantial rainfall soon after drilling.

For grain N less than 1.8%, reduce nitrogen by 30 kg N/ha for each 0.1% reduction in grain N%.

Yields above 7 t/ha, could increase rate by 10 kg N/ha for each 0.5 t/ha additional yield, up to a maximum of 9 t/ha.

Phosphate

Phosphate may be applied when convenient (see RB209).

Potash

Potash may be applied when convenient (see RB209).

Lime

In stony soils lime rates can be reduced e.g. if stones comprise 20% of the soil volume, reduce lime rate by 20%.

Total N from Organic Manures	126.00 kg/Ha
Total P from Organic Manures	76.50 kg/Ha
N Max	210 kg N/Ha
Soil N Supply	60-80 kg/Ha (index 1)

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Recommendation	Date	Year	Measurements	Usage	Crop	Sowing Date
Winter Oilseed Rape	10/04/2023	2023	Metric	Arable & Horticulture	Winter Oilseed Rape (Seed and straw) - Ambassador	25/08/2022

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Fields

Field Name	Soil Texture	pH P	K	Mg	NVZ	SS	Index Objectives	Previous Crop	ESFs	Area	Inorg Area	Org Area
BB Artesian Well Big	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	11.36	11.36	11.36
BB Artesian Well Little Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	2.50	2.50	2.50
BB Artesian Well Middle	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	3.81	3.81	3.81
BB Pond IG	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	3.51	3.51	3.51
BB Track IG	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	5.77	5.77	5.77
CF Top Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	10.16	10.16	10.16
HS Big Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	7.21	7.21	7.21
HS Chicory	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	3.13	3.13	3.13
HS Slough	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	3.22	3.22	3.22
MF Phillips	Loamy Sand	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	3.52	3.52	3.52
MF Slades	Loamy Sand	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	9.75	9.75	9.75
MF Tymple	Clay	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	8.00	8.00	8.00
MF Wet Ground	Clay	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	11.78	11.78	11.78
MF Windmill	Loamy Sand	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	10.10	10.10	10.10
RW Gunters	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	5.17	5.17	5.17
STU 10 Acre	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	4.32	4.32	4.32
STU 8 Acres	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	3.23	3.23	3.23
STU Wedding Field	Clay Loam	6.2 2	2- 2	2	Yes	No	Maintain P index & Maintain K index	Winter Wheat	0	5.62	5.62	5.62
Total Area (Ha)										112.16	112.16	112.16

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Nutrient Requirements: Winter Oilseed Rape

Date	Crop	N	P	K	SO3	Mg	(kg/ha)
25/08/2022	Winter Oilseed Rape (Seed and straw) - Ambassador	280.0	75.0	65.0	80.0	0.0	

Nutrient Components

Date	Component	Vol	DM %	Growth Stage	N	P	K	SO3	Mg	Na
Crop Offtakes										
25/08/2022	Winter Oilseed Rape (Seed and straw) - Ambassador	5.0 t/ha				-75.0	-87.5			
	Subtotal					-75.0	-87.5			

Manure

18/08/2022	Poultry manure (60% DM)	3.5 t/ha	60.00	Pre-drilling	-	29.4	59.5	73.5	2.2	20.6	0.0
	Subtotal					29.4	59.5	73.5	2.2	20.6	0.0

Fertiliser

01/03/2023	Urea, granular	100.0 kg/ha		Side shoot development	GS 2.0	46.0	0.0	0.0	0.0	0.0
07/03/2023	Polysulphate	100.0 kg/ha		Stem elongation	GS 3.0	0.0	0.0	14.0	48.0	6.0
10/04/2023	Urea, granular	200.0 kg/ha		Flower emergence [yellow bud]	GS 5.0	92.0	0.0	0.0	0.0	0.0
	Subtotal					138.0	0.0	14.0	48.0	6.0

Balance							-15.5	0.0		
Grand Total						167.4		50.2	26.6	0.0

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Notes: Winter Oilseed Rape

Nitrogen

Apply all the N as a single dressing by end March.

Apply half the N in late Feb-early March and the balance by late March-early April. An extra 30 kg N/ha in the seedbed is often justified at SNS index 0-2, except for crops sown after early September.

However, if the GAL of the canopy, measured towards the end of winter, is greater than 2.0, or greater than 1.5 with an SMN in the top 60 cm soil of at least 25 kg N/ha, then the first N should be reduced to between zero and 40 kg N/ha.

Phosphate

Phosphate may be applied when convenient (see RB209).

Potash

Potash may be applied when convenient (see RB209).

Sulphur

Apply 50–80 kg SO₃/ha as a sulphate-containing fertiliser to all winter and spring-sown oilseed rape crops grown on mineral soils, in late February to early March.

Lime

In stony soils lime rates can be reduced e.g. if stones comprise 20% of the soil volume, reduce lime rate by 20%.

Total N from Organic Manures	98.00 kg/Ha
Total P from Organic Manures	59.50 kg/Ha
N Max	340 kg N/Ha
Soil N Supply	60-80 kg/Ha (index 1)

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Winter Wheat	10/04/2023	2023	Metric	Arable & Horticulture	Winter Wheat (Feed) - Graham	25/09/2022						
Fields												
Field Name	Soil Texture	pH P	K	Mg	NVZ	SS	Index Objectives	Previous Crop	ESFs	Area	Inorg Area	Org Area
CF Barley Hill	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	4.20	4.20	4.20
CF Coal Pits	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	13.20	13.20	13.20
CF Longmead	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	22.70	22.70	22.70
Cophill 17 Acres	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	6.47	6.47	6.47
Cophill Barnetts	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	11.13	11.13	11.13
Cophill Big Hospital	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	15.28	15.28	15.28
HS Edwards	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	2.39	2.39	2.39
HS Oxenhams	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	1.76	1.76	1.76
HS Shirenewton Road	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.68	3.68	3.68
MA 14 Acres	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.40	5.40	5.40
MA Castle Field	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	9.94	9.94	9.94
MA Mine Pit	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	12.35	12.35	12.35
MA Picadilly	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	11.74	11.74	11.74
MA Richards Field	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	10.50	10.50	10.50
Runston Fields Arable	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	4.77	4.77	4.77
RW Nedern	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	2.20	2.20	2.20
RW Oak Tree	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	4.00	4.00	4.00

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RW Orchard	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	1.81	1.81	1.81
RW Portwall	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.87	3.87	3.87
RW Southgate	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	4.77	4.77	4.77
Seven View Field	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	16.74	16.74	16.74
Shelley 1	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.66	5.66	5.66
Shelley 2	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	4.80	4.80	4.80
Shepards	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	7.04	7.04	7.04
Trellenny 1 U shape	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.82	3.82	3.82
Trellenny 2 Tramp	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.82	5.82	5.82
Trellenny 3 Fifteen Ac	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	6.18	6.18	6.18
Trellenny 4 Top Pole Field	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.77	3.77	3.77
Trellenny 5 Botom Pole Field	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.86	3.86	3.86
Trellenny New Inn 12	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.00	5.00	5.00
Trellenny New Inn 8	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	3.00	3.00	3.00
Whitem's Pool	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	6.91	6.91	6.91
Woodcocks	Clay Loam	6.2	2	2	Yes	No	Maintain P index & Maintain K index	Forage Maize	0	5.88	5.88	5.88
Total Area (Ha)									230.64	230.64	230.64	230.64

Nutrient Requirements: Winter Wheat

Date	Crop	N	P	K	SO3	Mg	(kg/Ha)
25/09/2022	Winter Wheat (Feed) - Graham	250.0	75.0	115.0	50.0	0.0	

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Nutrient Components

Date	Component	Vol	DM %	Growth Stage	N	P	K	SO3	Mg	Na
Crop Offtakes										
25/09/2022	Winter Wheat (Feed) - Graham	11.0 t/ha				-77.0	-115.5			
Subtotal						-77.0	-115.5			

Manure

01/03/2023	Poultry manure (60% DM)	5.0 t/ha	60.00	Ear at 1cm	42.0	85.0	105.0	24.6	29.5	0.0
Subtotal					42.0	85.0	105.0	24.6	29.5	0.0

Fertiliser

23/03/2023	Ammonium Nitrate 34.5%	250.0 kg/ha		1st node detectable	GS 31	86.3	0.0	0.0	0.0	0.0
15/04/2023	Ammonium Nitrate 34.5%	200.0 kg/ha		2nd node detectable	GS 32	69.0	0.0	0.0	0.0	0.0
Subtotal						155.3	0.0	0.0	0.0	0.0
Balance						8.0	-10.5			
Grand Total						197.3		24.6	29.5	0.0

Notes: Winter Wheat

Nitrogen

Apply about 40 kg N/ha between mid-February and mid-March, except where: - There is a low risk of take-all, and - Shoot numbers are very high. Well-tillered crops do not need nitrogen at this stage. Crops with too many tillers will be prone to lodging and higher disease levels. The balance of the application should be applied in one or two dressings during early stem extension. Where more than 120 kg N/ha remains to be applied, half should be applied at the start of stem extension (not before April) and half at least two weeks later (not after early May)

The N rate may be adjusted based on the grain N% of previous crops over several years. Grain N% at the economic optimum N rate is about 1.9% for feed wheat and 2.1% for breadmaking wheat. The N application rate may be adjusted down or up by 30 kg/ha per 0.1% difference in grain N% from these values.

Yields above 8 t/ha, could increase rate by 10 kg N/ha for each 0.5 t/ha additional yield, up to a maximum of 13 t/ha and reduce accordingly, if below average.

Phosphate

Phosphate may be applied when convenient (see RB209).

Potash

Potash may be applied when convenient (see RB209).

Lime

In stony soils lime rates can be reduced e.g. if stones comprise 20% of the soil volume, reduce lime rate by 20%.

Total N from Organic Manures	140.00 kg/ha
Total P from Organic Manures	85.00 kg/ha

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N Max	280 kg N/Ha
Soil N Supply	80-100 kg/Ha (Index 2)

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