

Farmer Full - Fertiliser Plan 2025

Name	Gerry And Sean Markham
Address	Coolatinny, Ballinlough
County (Zone)	Roscommon (T)
Herd No.	TFP10123

This fertiliser plan is based on the information provided to Carroll Consultancy. Carroll Consultancy cannot accept responsibility for inaccurate information being supplied.

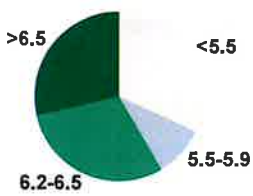
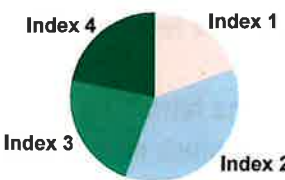
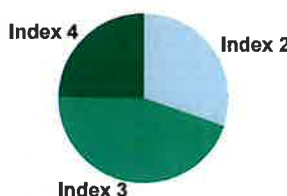
This report contains the following:

- 1.)- Cover Page
- 2.)- Farm Summary of Soil fertility and fertiliser requirements
- 3.)- Lime Report
- 4.)- Fertiliser Plan for the farm
- 5.)- Summary of All Livestock on the holding
- 6.)- Soil Sample Results
- 7.)- Manures Produced on Holding and Storage Facilities on Farm
- 8.)- Summary of Land areas, Cropping and max fertiliser allowances
- 9.)- Concentrate feed usage on the farm in 2024
- 10.)- Cereal crop yields where relevant
- 11.)- Plan Notes – where relevant



Farm & Soil fertility Summary

Fertiliser Plan Summary		Gerry And Sean Markham	2025	
Herd No.	TFP10123		Land Areas	Ha %
Address	Coolatinny, Ballinlough		NMP Total Nitrates ha	55.54
County (Zone)	Roscommon		Grassland	55.54 100.00
Weeks Storage.	18 Weeks		Arable	0.00 0.00
			Sampled Areas	27.56 49.62
Closed Periods		Stocking Rates		
FYM	1 November to 15 January		Current Years Net WFSR	31.92 kg/Ha
Chemical	15 September to 29 January		Current Years GSR	31.92 kg/Ha
Slurry	1 October to 15 January		Previous Years GSR	0.00 kg/Ha

Soil Fertility Summary																																																												
Overall Fertility Status	Lime	Phosphorus	Potassium																																																									
pH > 6.2, P & K index 3 or 4	Soil pH > 6.2	P Index	K Index																																																									
																																																												
<table><tr><th></th><th>Ha's</th><th>%</th></tr><tr><td>Yes</td><td>6.02</td><td>22%</td></tr><tr><td>No</td><td>21.54</td><td>78%</td></tr></table>		Ha's	%	Yes	6.02	22%	No	21.54	78%	<table><tr><th>pH</th><th>Ha's</th><th>%</th></tr><tr><td><5.5</td><td>8.75</td><td>32%</td></tr><tr><td>5.5-5.9</td><td>2.70</td><td>10%</td></tr><tr><td>5.9-6.2</td><td>0.00</td><td>0%</td></tr><tr><td>6.2-6.5</td><td>8.22</td><td>30%</td></tr><tr><td>>6.5</td><td>7.59</td><td>28%</td></tr></table>	pH	Ha's	%	<5.5	8.75	32%	5.5-5.9	2.70	10%	5.9-6.2	0.00	0%	6.2-6.5	8.22	30%	>6.5	7.59	28%	<table><tr><th>Index</th><th>Ha's</th><th>%</th></tr><tr><td>1</td><td>5.36</td><td>19%</td></tr><tr><td>2</td><td>9.97</td><td>36%</td></tr><tr><td>3</td><td>6.21</td><td>23%</td></tr><tr><td>4</td><td>6.02</td><td>22%</td></tr></table>	Index	Ha's	%	1	5.36	19%	2	9.97	36%	3	6.21	23%	4	6.02	22%	<table><tr><th>Index</th><th>Ha's</th><th>%</th></tr><tr><td>1</td><td>0.00</td><td>0%</td></tr><tr><td>2</td><td>8.36</td><td>30%</td></tr><tr><td>3</td><td>12.37</td><td>45%</td></tr><tr><td>4</td><td>6.82</td><td>25%</td></tr></table>	Index	Ha's	%	1	0.00	0%	2	8.36	30%	3	12.37	45%	4	6.82	25%
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% reduction in farm capacity to perform based on current fertility levels compared to optimal fertility				
pH, P and K		pH	P	K
23		9	9	6
Soil pH & Lime		Target pH	Grass	Tillage
Lime Planned		Mineral Soil	6.3	6.5
2025	49 Tonnes	Organic Soil	5.5	5.5
2026	35 Tonnes			
2027	0 Tonnes			
2028	0 Tonnes			
Four Year Total	84 Tonnes			

Organic Manure Plan

Chemical Fertiliser Advice

Nutrient Balance				Planned Fertilisers	
	N(kg)	P(kg)	K(kg)	Fertiliser	Tonnes
Chemical Recommended	3,178	499 (100%)	593	Urea (46%N) + Protected	1.50
Max Chemical Allowed	4,537	543		CAN (27%N)	0.99
				27-2,5-5	2.50

Lime Requirements

Plot Name	Crop	Area (Ha)	Sample ID	Sample Reference	Result Date	pH (Water)	pH (Buffer/SMP)	Lime Req (T/Ha)	Advised Lime			
									2025 (T/Ha)	2026 (T/Ha)	2027 (T/Ha)	2028 (T/Ha)
Field 3	1 Cut + Grazing	3.15	No.3	1409103	08/05/2025	5.20		8.8	4.4	4.4		
Field11	ACRES EGP	0.50	No.11	1409111	08/05/2025	5.20		8.8	4.4	4.4		
Field12	Grazing	3.75	No.12	1409112	08/05/2025	5.40		7.5	3.8	3.8		
Field10	ACRES EGP	1.35	No.10	1409110	08/05/2025	5.40		7.5	3.8	3.8		
Field14	Grazing	2.70	No.7	1409107	08/05/2025	5.80		3.8	3.8			
Field15	1 Cut + Grazing	2.66	No.6	1409106	08/05/2025	6.20		1.3	1.3			
Four Year Total (2025-2028):84 tonnes						Annual Totals (tonnes):			49	35	0	0

Fertiliser plan for the Farm

Manure Allocations				Planned Fertilisers			Nutrient Balance		
Fertiliser	Estimated T	Applied T	Balance T	Fertiliser	Tonnes		N(kg)	P(kg)	K(kg)
Cattle Slurry (Neat)	100	103	0	Urea (46%N) + Protected	1.50		3,178	499 (100%)	593
Barnyard Manure	13	14	0	CAN (27%N)	0.99		4,537	543	
Total Slurry for Spreading (m3)				27-2.5-5	2.50		1,635	63	125
Total P in Manures (Grazing + Non-Grazing)									

The cattle slurry rates per plot are based on 100 m³ of neat slurry. Where this is diluted (e.g., by rainwater, yard runoff, or dairy washings) the total volume increases to 126 m³. In this case, apply 1.25 times the recommended slurry rate per plot to maintain the same nutrient value.

Plot	Crop	Area(Ha)	Soil Sample	Index	Nutrients Applied (Units/Acre)			Nutrients Advice (Units/Acre)			Organic Manures			Chemical Fertilisers		
					N	P	K	N	P	K	Cattle Slurry (Neat) (M3/Ha)	Farmyard Manure (T/Ha)		Urea (46%N) + Protected (Bags/Acre)	CAN (27%N) (Bags/Acre)	27-2.5-5 (Bags/Acre)
Field 1	1 Cut + Grazing	2.70	No.1	1 3 2	111	12	63	101	19	121	12.0	5.0		1.5	0.0	1.0
Field 2	1 Cut + Grazing	2.74	No.2	1 4 3	106	7	39	101	0	97	12.0	0.0		1.5	0.0	1.0
Field 3	1 Cut + Grazing	3.15	No.3	1 2 3	95	5	39	101	28	97	12.0	0.0		1.3	0.0	1.0
Field 5	ACRES LIG (Grass + Peat)	1.66	No.5	1 3 2	0	0	0	32	8	0	0.0	0.0		0.0	0.0	0.0
Field 6	Grazing	0.25	No.5	1 2 2	0	0	0	32	11	0	0.0	0.0		0.0	0.0	0.0
Field 7	Grazing	2.49	No.4	1 2 4	41	4	7	32	11	0	0.0	0.0		0.0	0.0	1.5
Field 8	Grazing	0.33	No.4	1 2 4	27	3	5	32	11	0	0.0	0.0		0.0	0.0	1.0
Field 9	Grazing	3.28	No.9	1 4 3	41	4	7	32	0	0	0.0	0.0		0.0	0.0	1.5

Field10	ACRES EGP	1.35	No.10	1 3 4	0 0 0	32 3 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Field11	ACRES EGP	0.50	No.11	1 3 3	0 0 0	32 3 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Field12	Grazing	3.75	No.12	1 2 2	0 0 0	32 11 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Field13	ACRES EGP	7.39		1 3 3	0 0 0	32 3 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Field14	Grazing	2.70	No.7	1 1 3	54 3 5	32 19 0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
Field15	1 Cut + Grazing	2.66	No.6	1 1 4	54 0 0	101 36 0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
Field16	Grazing	15.10		1 3 3	0 0 0	32 3 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Field17	Grazing	3.51		1 3 3	0 0 0	32 3 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Field18	Grazing	1.98		1 3 3	0 0 0	32 3 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Summary of All Livestock on the holding

Total Nitrogen and Phosphate produced

Animal	No. Animals	N/head	N Total	P /head	P Total
Suckler cow	11	65.0	715.0	10.0	110.0
Cattle > 2 years	4	65.0	260.0	10.0	40.0
Cattle (4-12 months old)	6	20.0	120.0	2.8	16.8
Cattle (Male 1-2 year old)	3	61.0	183.0	9.0	27.0
Cattle (Female 1-2 year old)	9	55.0	495.0	8.0	72.0
		Total N	1773	Total P	266

Animal Breakdown

Animal Category	N Total	P Total
Grazing	1773	266
Non-Grazing	0	0

Projected Exports

Manure Type	Date of Export	Quantity (t)	Total N (kg)	Total P (kg)
No data available in table				

Projected Imports

Manure Type	Date of Import	Quantity (t)	Total N (kg)	Total P (kg)
No data available in table				

Total Nitrogen &Phosphorus to be applied on the holding (kg)

N Total Value	P Total Value
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1,773.0

266.0

Stocking Rates (kg/ha)

Net Whole Farm Stocking Rate (kg/ha after Imports and Exports)	Grassland Stocking Rate Current Year	Grassland Stocking Rate Previous Year
31.92	31.92	0.00

Soil Samples Results

Sample Details				NMP Linked Plot		pH Results			P and K Results		Trace Elements									
Sample Expiry	Sample ID	Sample Reference	Result Date	Sampled Area (ha)	Plot Name	Soil Type	OM Result %	OM Map Overlay	pH (Water)	pH (Buffer/SMP)	Lime Req t/ha	P mg/l	K mg/l	Mg	Cu	ER Mn	Zn	Bo	Co	Tot. Mn
	No.12	1409112	08/05/2025	3.75	Field12	Clay		No	5.40		7.50	3.60	82.00							
	No.11	1409111	08/05/2025	0.50	Field11	Clay		Yes	5.20		8.75	1.00	103.00							
	No.10	1409110	08/05/2025	1.35	Field10	Clay		Yes	5.40		7.50	3.60	178.00							
	No.9	1409109	08/05/2025	3.28	Field 9	Clay		No	6.60		0.00	12.60	103.00							
	No.7	1409107	08/05/2025	2.70	Field14	Clay		No	5.80		3.75	1.00	120.00							
	No.6	1409106	08/05/2025	2.66	Field15	Clay		No	6.20		1.25	2.50	215.00							
	No.5	1409105	08/05/2025	1.91	Field 5 Field 6	Clay		Yes No	6.50		0.00	3.60	70.00							
	No.4	1409104	08/05/2025	2.82	Field 7 Field 8	Clay		No No	6.30		0.00	4.00	161.00							
	No.3	1409103	08/05/2025	3.15	Field 3	Clay		No	5.20		8.75	4.80	124.00							
	No.2	1409102	08/05/2025	2.74	Field 2	Clay		No	6.30		0.00	8.60	140.00							
	No.1	1409101	08/05/2025	2.70	Field 1	Clay		No	6.90		0.00	7.50	71.00							

Manures Produced on Holding and Storage Facilities on Farm

Slurry Produced From Animals

Animal	No. on Slurry	Weeks slurry produced	Weeks slurry required	Total Slurry Produced (m3)	Storage requirement (m3)
Cattle > 2 years	4	18	18	18.7	18.7
Cattle (Female 12-18 months old)	9	18	18	24.3	24.3
Suckler cow	11	18	18	57.4	57.4

Total Slurry Produced

100.4

m³

Gallons

Total Storage Required

100.4

m³

Gallons

From Dirty Yards Rectangular Areas

Yard	Length (m)	Width (m)	Area (m2)
No data available in table			

Circular Areas

Yard	Diameter (m)	Area (m2)
No data available in table		

Total Storage Required for Dirty Yards

0.0

m³

Gallons

From FYM Seepage

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Plan ID: 418549 Date Printed: 21/04/2026

Under Animals

From Uncovered FYM Heaps

Total FYM Seepage to be Stored

4.3	m ³
21.0	m ³
25.3	m ³

Gallons

From Dairy Washings

Total Storage Required for Dairy Washings to be stored with Slurry

0.0	m ³
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Gallons

Slurry Storage

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Covered(Rectangle)	Slatted Tank 1a Coolatinny	2.9	15.6		2.4	99.5
Covered(Rectangle)	Slatted Tank 1b Coolatinny	3.2	9.2		2.4	64.8
Covered(Rectangle)	Proposed Slatted Tank 3a Manorhamilton	4.1	17.2	0.0	2.4	155.1
					Net Capacity	319.0

Slurry Storage Balance

Farm Slurry Storage Balance

Slurry Produced (Animals)

Cattle Slurry Imported

Cattle Slurry Exported

Slurry Produced (Dirty Yards)

Slurry Produced (FYM Seepage)

Slurry Produced (Dairy Washings)

Slurry Produced (Rainfall in open tanks - 18 weeks)

Total Slurry Produced

Dilutes Added to Slurry

Dilution factor

Total Slurry to be stored on Farm

Volume of Cattle Slurry for Spreading

100.4	m ³	100.4	m ³
		0.0	m ³
		0.0	m ³
0.0	m ³	0.0	m ³
25.3	m ³	25.3	m ³
0.0	m ³	0.0	m ³
0.0	m ³	0.0	m ³
125.7	m ³	125.7	m ³
	Gallons		Gallons
25.3	m ³	25.3	m ³
79.9	%	79.9	%

Slurry stored in Slurry Storage

Total Slurry Storage (Currently)

Required (slurry produced)

Available (current storage)

Surplus Storage Available

125.7	m ³
319.4	m ³
193.8	m ³

Soiled Water Storage Balance

Total Storage Requirements for Dairy Washings

Storage Type & Volume (m3)

	Soiled Water		Slurry	
Water from Dairy and Parlour	0.0	m ³	0.0	m ³
Water from Collecting Yard Washing	0.0	m ³	0.0	m ³
Rainwater on Collecting Yards	0.0	m ³	0.0	m ³
Rainwater on Other Yards	0.0	m ³		
Total Soiled Water Produced	0.0	m ³	0.0	m ³

Soiled Water stored only in Soiled Water Tank

Total Soiled Water Storage (Currently)

Required (soiled water produced)

0.0 m³

Available (current storage)

0.0 m³

Additional Storage Required

0.0 m³

FYM Production

Animal	No. on FYM	Straw Usage	Weeks FYM Production	Weeks FYM Storage	Total FYM Produced (m3)	Total FYM Storage (m3)	Seepage Produced (m3)	Total Straw Usage (kg)
Cattle (6-12 months old)	6	L	18	18	17.2	17.2	4.3	1,080.0

Total Straw Usage

1,080.0 kg

Seepage Produced

4.3 m³

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Total FYM Produced

17.2 m³

tonne

Total FYM Storage

17.2 m³

Farmyard Manure

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Uncovered(Rectangle)	Proposed Manure Pit 4 Manorhamilton	4.8	9.4		1.6	71.6
					Net Capacity	72.0

FYM Under Animals

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Covered(Rectangle)	Loose House 3 Coolatinny (Under Animals)	6.0	14.0		0.4	33.6
					Net Capacity	34.0

FYM Storage Balance

Seepage Produced

Under Animals

4.3 m³

Gallons

From Uncovered FYM Heaps

21.0 m³

Gallons

Total FYM Seepage to be Stored

25.3 m³

Gallons

FYM Storage Balance

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Total FYM Storage Required

Nutrient Adjustment Factor

17.2	m ³
85.0	%

FYM Storage Available

Storage Available Under Animals

33.6	m ³
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Storage Available As Covered FYM Stores

0.0	m ³
-----	----------------

Storage Available As Uncovered FYM Stores

71.6	m ³
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Total FYM Storage Available

105.2	m ³
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FYM Storage Balance

Surplus Storage Available

88.1	m ³
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Summary of Land areas, Cropping and max fertiliser allowances

Note: Previous Year Stocking Rate determining Fertiliser Band

	N	P Index 1	P Index 2	P Index 3	P Index 4
Max Grassland Allowance (Previous Year Grassland SR:0.00 kg/Ha)	90	27	17	7	0

Available N Allowance

Name	Crop Area(Ha)	N Index 1			N Index 2			N Index 3			N Index 4			Total N
		Area(Ha)	N Allowed	Total N	Area(Ha)	N Allowed	Total N	Area(Ha)	N Allowed	Total N	Area(Ha)	N Allowed	Total N	
Grazing	33.39	33.39	90	3,005.1										3,005.1
1 Cut + Grazing	11.25	11.25	90	1,012.5										1,012.5
ACRES Riparian Buff...	2.88							2.88	0	0.0				0.0
ACRES LIG (Grass + ...)	1.66	1.66	90	149.4										149.4
ACRES EGP	9.24	9.24	40	369.6										369.6

Available P Allowance

Name	Crop Area(Ha)	P Index 1			P Index 2			P Index 3			P Index 4			Total P
		Area(Ha)	P Allowed	Total P	Area(Ha)	P Allowed	Total P	Area(Ha)	P Allowed	Total P	Area(Ha)	P Allowed	Total P	
Grazing	33.39	2.7	27	72.9	6.82	17	115.9	20.59	7	144.1	3.28	0	0.0	333.0
1 Cut + Grazing	11.25	2.66	27	71.8	3.15	17	53.6	2.7	7	18.9	2.74	0	0.0	144.3
ACRES Riparian Buff...	2.88							2.88	0	0.0				0.0
ACRES LIG (Grass + ...)	1.66							1.66	7	11.6				11.6
ACRES EGP	9.24							9.24	7	64.7				64.7

N allowance	(Kgs)
Maximum total available N	4,536.6
- Available N produced on holding (0 from Grazing from 2018)	0.0
- Available N in manures Imported	0.0
+ Available N in manures Exported (Max 245.0)	0.0
Maximum Chemical N fertiliser allowed	4,536.6

P allowance	(Kgs)
Maximum total available P	553.5
- Total P in Manures produced on holding (0 from Grazing from 2018)	0.0
+ Manure P not available (Applied to index 1 & 2)	9.5
- Total P in manures Imported	0.0
+ Total P in manures Exported (Max 266.0)	0.0
Total P in Concentrate Feeds Used	20.0
Discounted P in feeds (up to 300kg)	0.0
- Net P in concentrate feeds used	20.0
Maximum Chemical P fertiliser allowed	543.0

Concentrate Feeds

Straight Feed Accounting Method

Book Value

Last years total organic N

0 kg

Compound Feed Accounting Method

Default(5kg)

Total P Fed to Grazing Livestock

20.0 kg

Total P to be discounted

0.0 kg

Net P contributing to Available Allowance

20.0 kg

Name	Quantity (t)	P Content Data Source	P Content	Total P (kg)
Beef Nuts	4.0	Default(5kg)	5.0	20.0
	4.0			

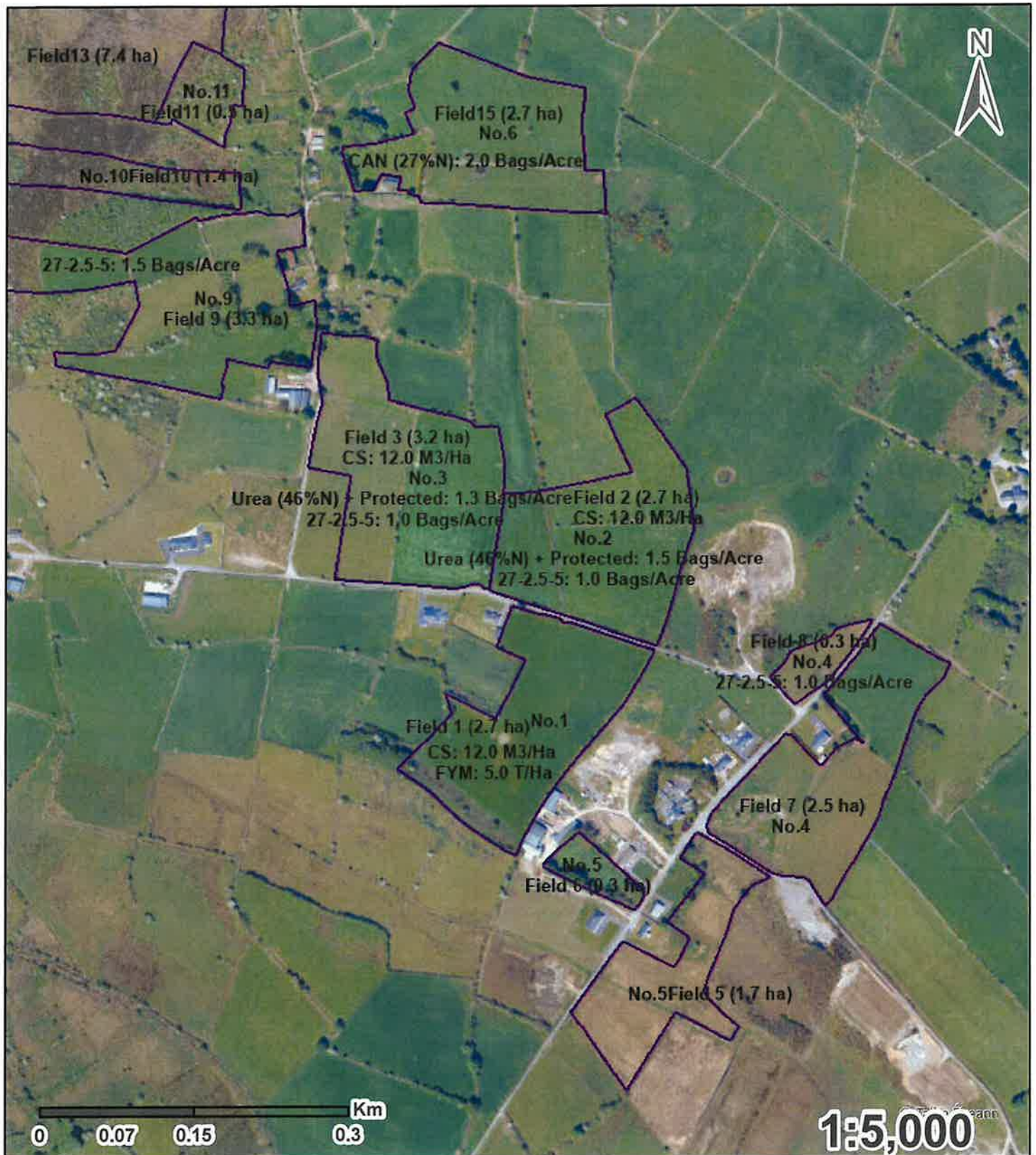
Cereal crop yields

Crop

Plan Notes

Gerry And Sean Markham Landspreading Map

TFP10123



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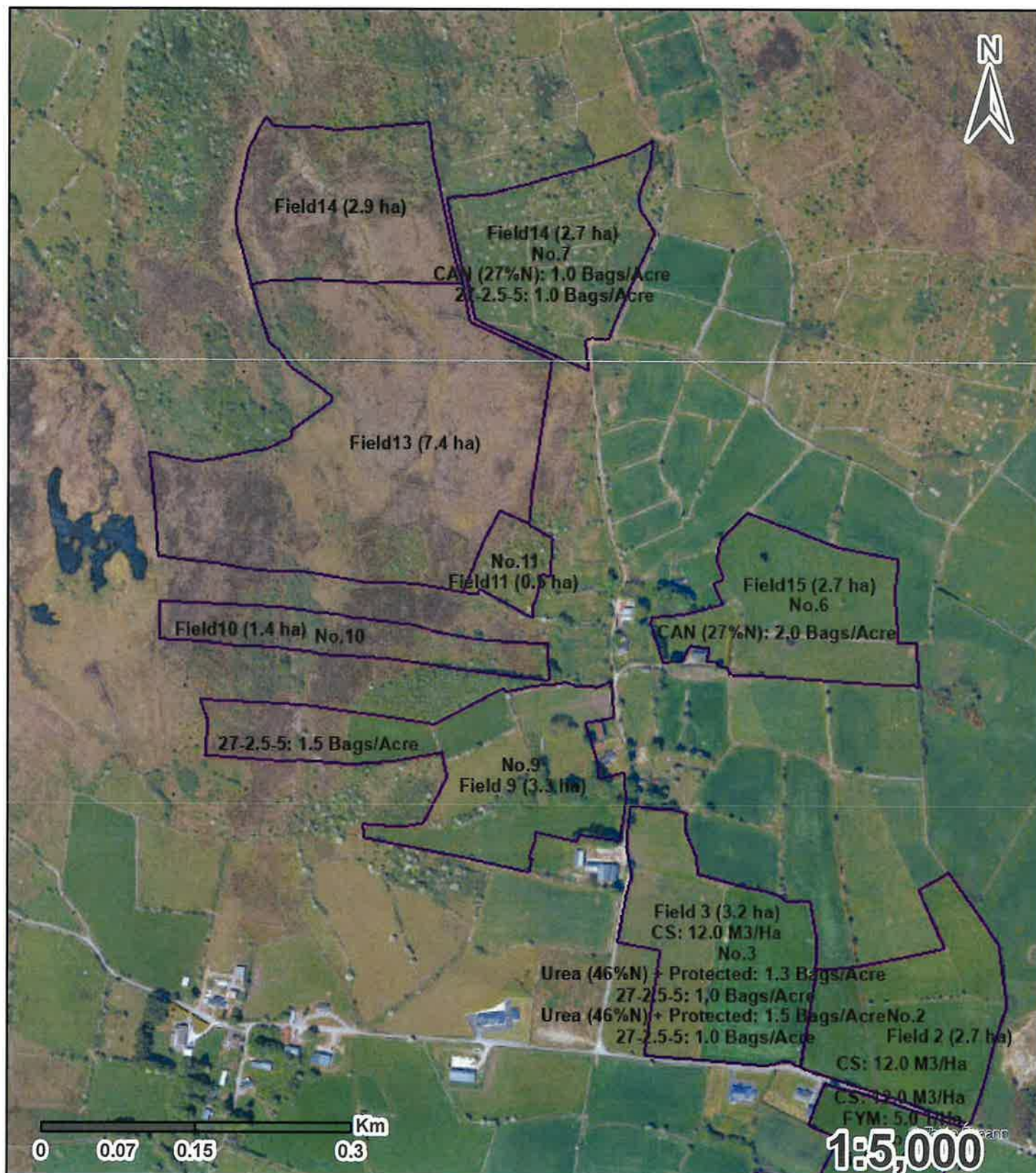
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 Plots Outline

Gerry And Sean Markham Landspreading Map

TFP10123



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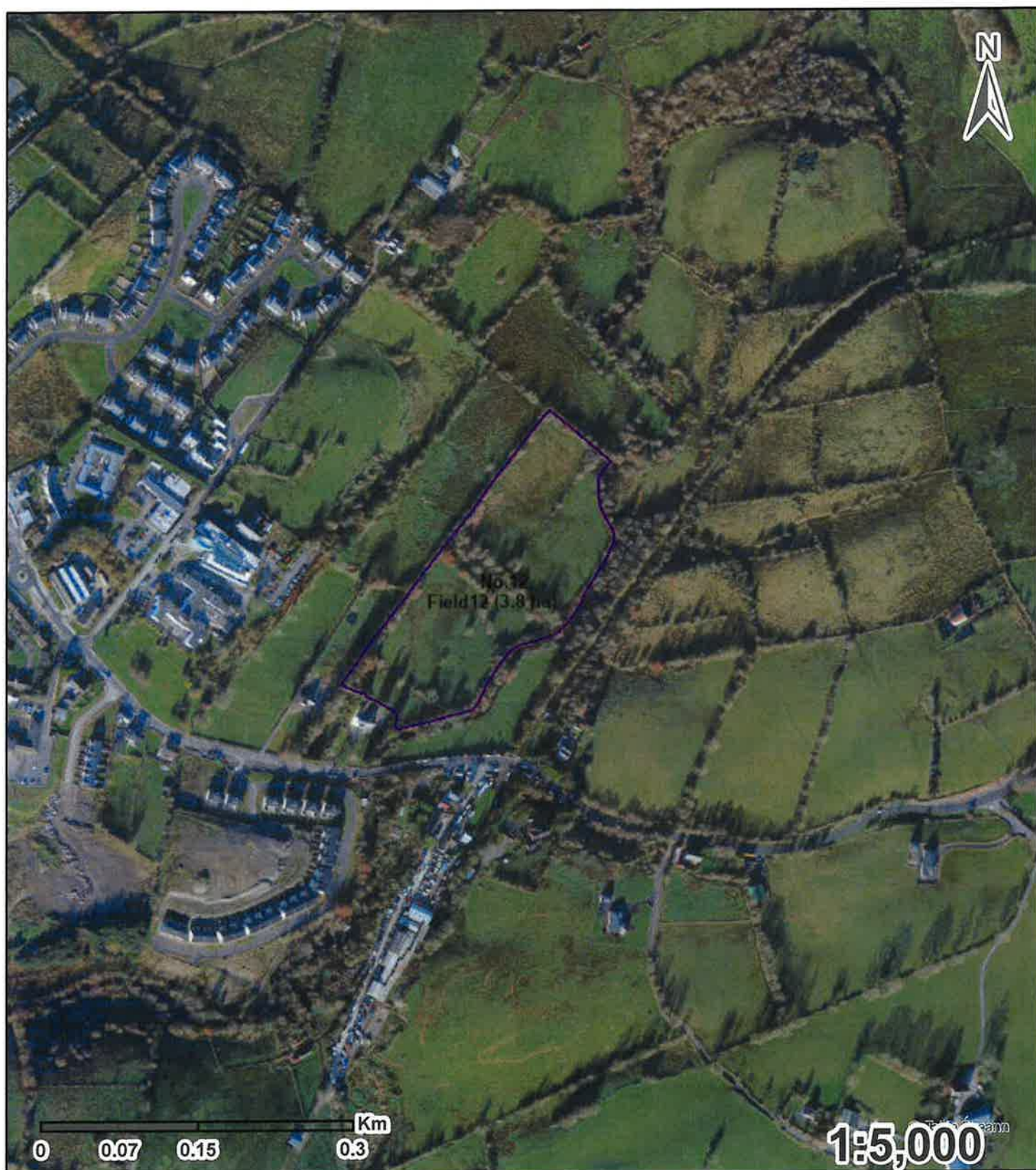
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 Plots Outline

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