

A photograph of a man and a woman, Tom and Sophie Gregory, sitting in a field. They are both smiling and looking towards the camera. The woman, on the left, has long brown hair and is wearing a dark blue jacket. The man, on the right, has dark hair and a beard, and is wearing a blue vest over a light-colored shirt. They are sitting on a dark, shaggy dog. In the background, there are several cows, including a brown one on the left and a black and white one on the right. The background is a lush green field with trees in the distance.

# TOM AND SOPHIE GREGORY

HOME FARM ON THE SADBOROW ESTATE

And Mapperton Estate



# HOME FARM – COMMUNITY FOCUS

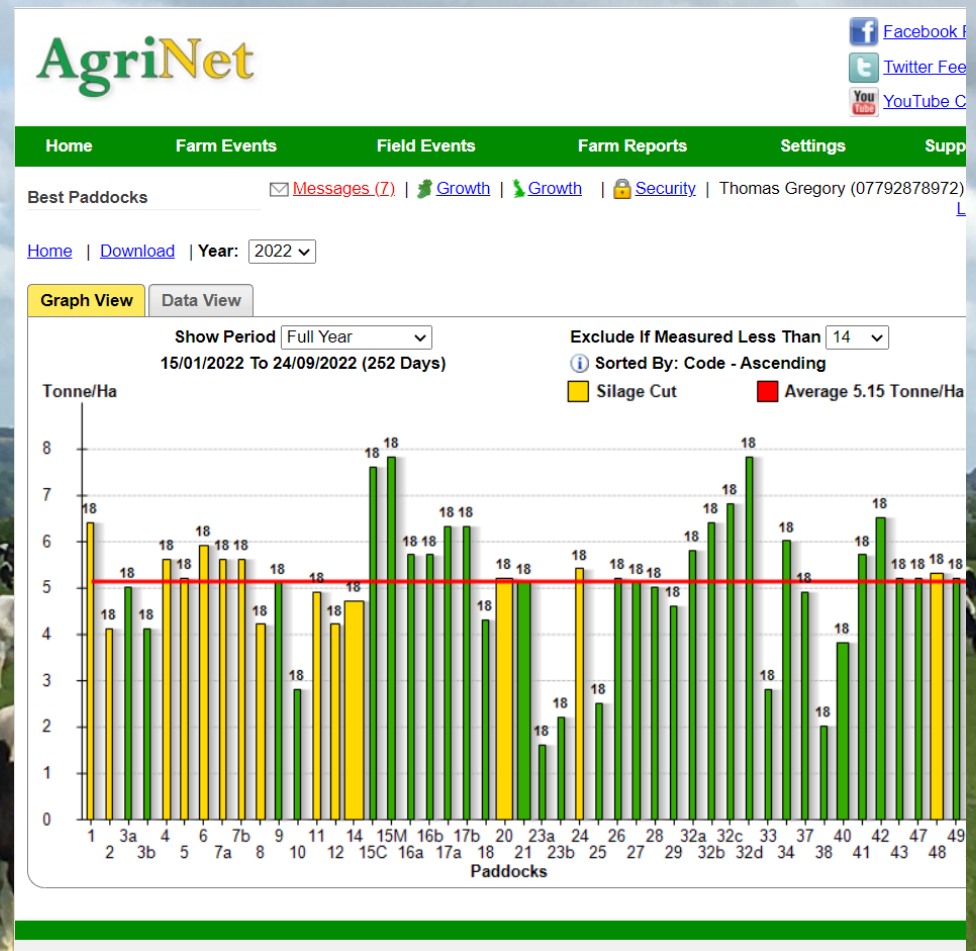
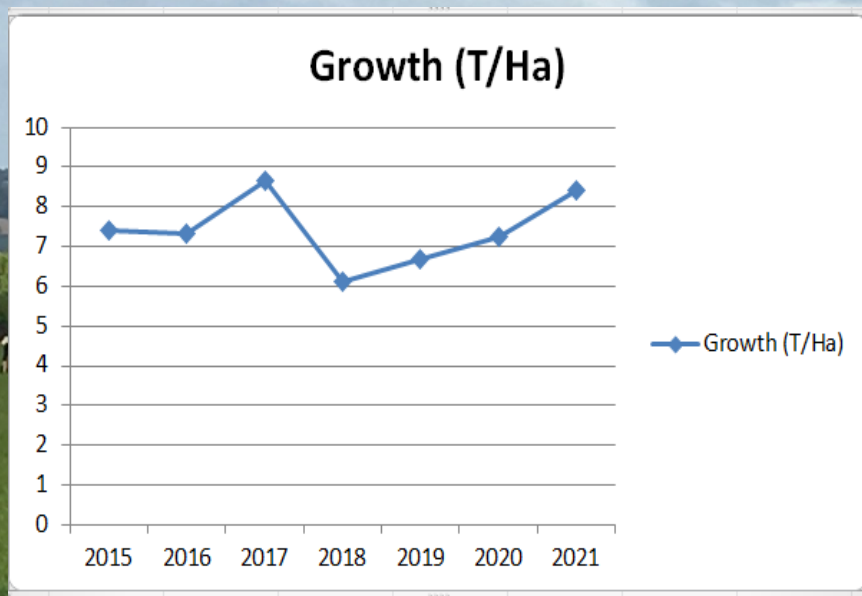








# Grass Production



# Soil Indices.....

	FIELD	SIZE (Ha) (Ac.)	CROP	YEAR	Month	Ph	P	ppm K	ppm Mg	ppm Ca	Level S	Level Mn	Level Cu	Level B	Level Zn	Level Mb	Level Fe	Level Na	Level C.E.C	Level Co	Level lo	Level	Org. Level															
12																																						
13																							Matt.															
14	1 10 Acres	10	Grass	2014	May	6.2	2.9	25	2.5	192	3.7	157																										
15			Wheat	2018	Sept	6.2	2.1	17	2.1	133	4.5	219																										
16	2 Oak	10	Grass	2014	May	5.4	2.5	21	2.1	137	2.9	97																										
17			Grass	2018	Oct	6.6	1.9	15	1	61	3	103																										
18			Grass	2021	Apr	6.9	2.1	17	1.8	106	3.9	172																										
19	3 20 Acres	20	Grass	2014	May	6.4	3	26	3	252	3.6	149																										
20			Grass	2018	Oct	6	1.9	15	2.3	168	3.7	154																										
21	4 12 Acres	12	Grass	2014	May	4.8	2.4	20	2.6	196	3.2	117																										
22			Grass	2018	Oct	6.2	1.9	15	1.1	67	3.5	143																										
23			Grass	2021	Apr	6.6	2.1	17	2.1	133	4.4	204																										
24	5 Monarch	13	Grass	2014	Apr	6.4	3.1	29	2.5	190	3.4	138	1934	Low	12	Nor	107	Nor	5.6	Low	1.44	Nor	11.9	Nor	0.19	Nor	1282	Nor	36	Low	12.5	Low	7	Nor	0.3	Low	4	Nor
25			Wheat	2018	Sept	5.9	2.5	22	1.6	102	3.3	128																										
26	6 15 Acres	15	Grass	2014	May	6.4	3.7	40	2.4	177	3.2	120																										
27			Wheat	2018	Sept	6.4	3.1	28	2.3	156	3.7	156																										
28	7 14 Acres	14	Grass	2014	Apr	5.6	2	16	1.6	100	3	108	1417	Low	8	Low	84	V.High	3.6	Low	1.06	Nor	5.3	Low	0.12	Nor	1481	Nor	40	Low	11.8	Low	5.4	Nor	0.3	V.Low	5.4	Nor
29			Wheat	2018	Sept	6.6	2.4	20	1.3	81	3.7	160																										
30	8 14 Acres	14	Grass	2014	May	5.5	2.5	21	2.1	133	2.6	83																										
31			Grass	2018	Oct	6.7	2.2	18	2.3	167	3.4	133																										
32			Grass	2021	Apr	6.5	1.7	14	1.8	107	3.5	137																										
33	9 6 Acres	6	Grass	2014	May	5.5	3.1	29	2.5	185	3.1	111																										
34			Grass	2018	Oct	6.5	2.3	19	2	132	3.3	130																										
35			Grass	2021	Apr	6.7	1.9	13	2.4	165	3.7	152																										
36	10 7 Acres	7	Grass	2014	May	4.9	2.1	17	2.5	190	2.9	97																										
37			Grass	2018	Oct	6.4	1.9	15	1.5																													

12	FIELD	SIZE	CROP	YEAR	Month	Ph	P	ppm	K	ppm	Mg	ppm	Ca	Level	S	Level	Mn	Level	Cu	Level	B	Level	Zn	Level	Mb	Level	Fe	Level	Na	Level	C.E.C	Level	Co	Level	Io	Level	Org. Level		
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39	11 11 Acres		11	Grass	2014	Apr	6	2.8	24	1.8	111	2.5	78	1625	Low	7	Low	54	Nor	3.3	Low	1.01	Nor	4.6	Low	0.17	Nor	1293	Nor	31	V.Low	13.9	Low	2.9	Nor	0.3	V.Low	4	Nor
40			Grass	2018	Oct	6.5	3	26	1	63	2.8	92																											
41	12 15 Acres		15	Grass	2014	May	5.9	2	16	1.6	100	2.6	83																										
42			Grass	2018	Oct	6.1	1.9	15	0.8	52	2.8	93																											
43			Grass	2021	Apr	6.5	1.2	11	1.8	89	3.3	127																											
44	14 Six Kings		33	Grass	2014	Apr	6.1	2.1	17	2.1	137	3.4	134	1877	Low	9	Low	132	Nor	4.8	Low	1.11	Nor	7.3	Nor	0.12	Nor	1062	Nor	39	Low	14.5	Low	6.3	Nor	0.3	V.Low	4.7	Nor
45			Turnip	2018	Sept	6.3	1.1	10	1.1	68	2.9	96																											



# A Different Approach

## Three Different Plant Nutrition Pathways

Inefficient

Chemical Path  
(Soluble Nutrients)

*Agronomy*

Dynamic

Food Web Path  
(The Poop Loop)

*Regenerative*

Symbiotic

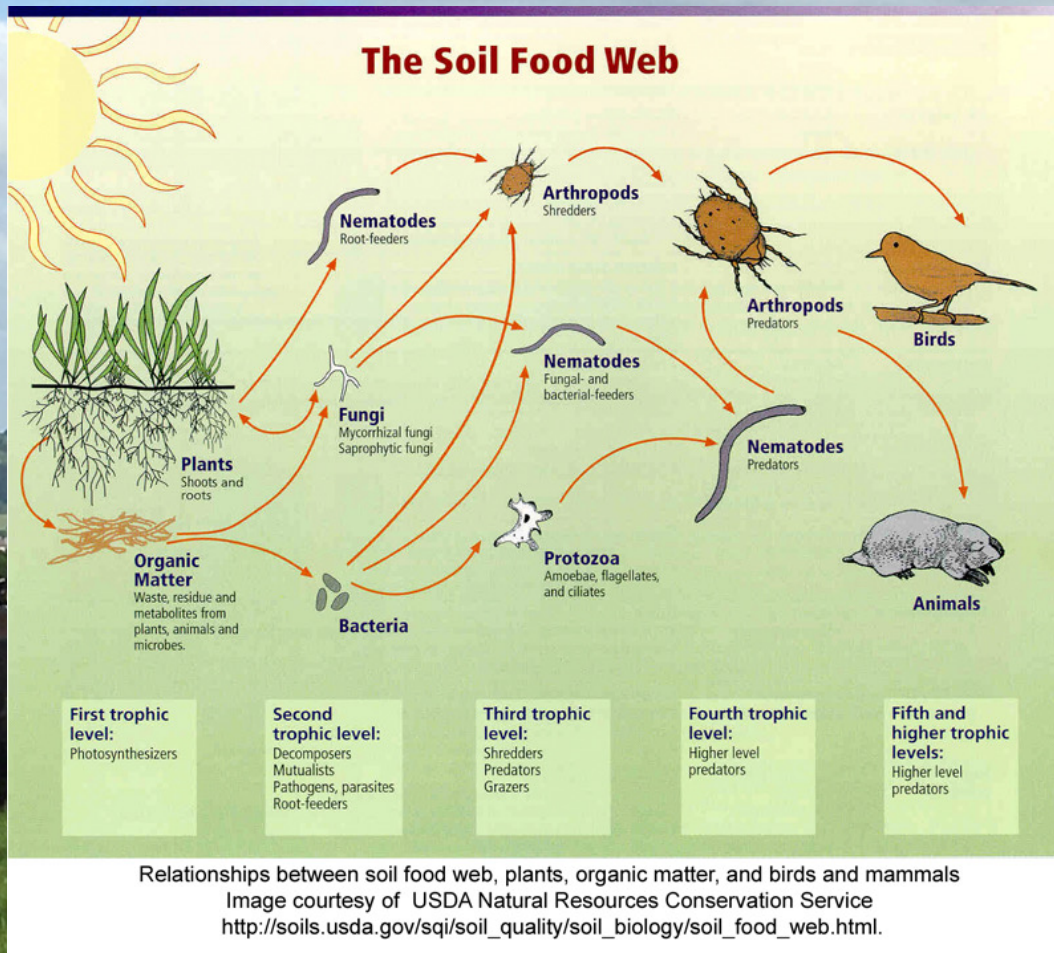
Mutualism Path  
(Partnerships)

*Agroecology*



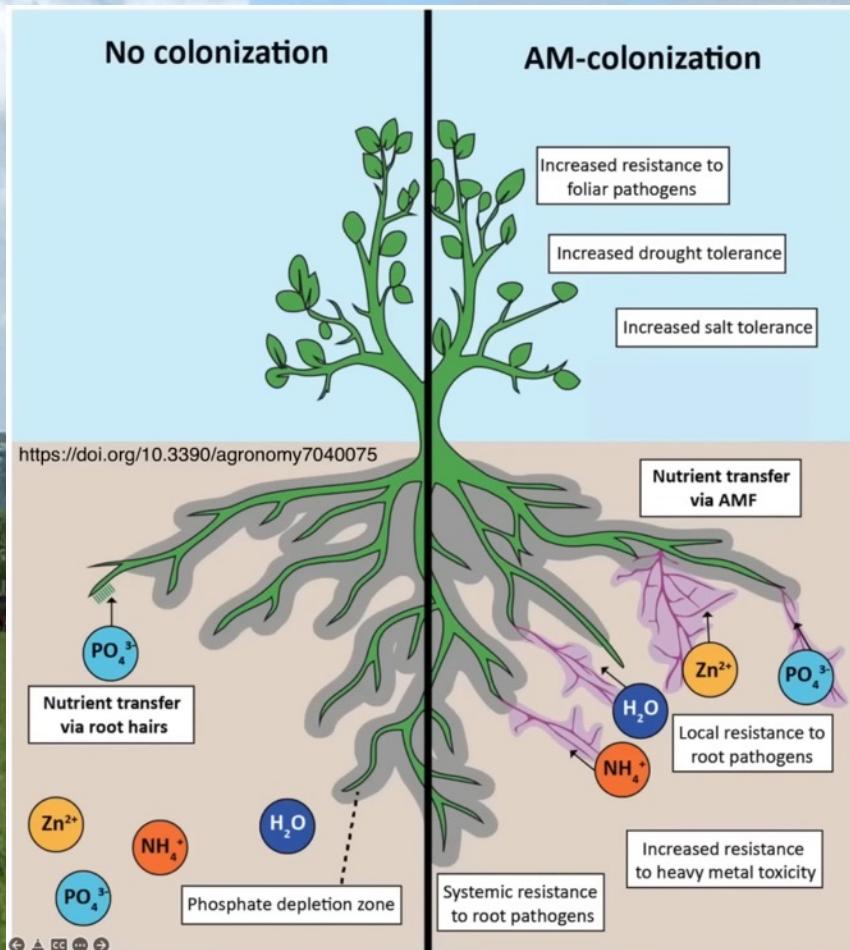


# Educate





# Understand



## AM Fungi

- Most crops/grasses partner with AM fungi
- Increased nutrient and water uptake
- Enhanced soil structure



# Knowledge Share

- Arla Regen Pilot
- Yeo Valley Carbon Project
- Innovative farmers
- Fiap Grant Funding
- CLUSTER GROUPS
- Social Media





# Have a go





soil organic matter difference - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View

Clipboard Font Alignment Number Styles Cells Editing

Calibri 11 A A

General

Normal Bad Good Neutral Calculation Check Cell

AutoSum Fill Clear Sort & Find & Filter Select

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1																				
2																				
3		FIELD	SIZE		Org.	Org.			Output											
4																				
5			(Ha)	(Ac.)	2014	2022														
6		5 Monarch		13	4	7.96			kgco2/kgm	1										
7																				
8		7 14 Acres		14	5.4	7.01			milk (kg) sold	2075850										
9		11 11 Acres		11	4	6.94														
10									kg/co2 total	2075850										
11		15 Pound Close		23	4.8	7.69														
12									kgco2/ha	5766.25										
13																				
14		17 Stoney Close		17	4.4	6.55														
15									Input											
16		20 Cakehorn		27	4.3	7.53														
17									kgco2/ha increase	10788										
18		23 Staples Close		11	9	12.6														
19																				
20									Difference											
21		29 Little Moor		8	5.4	8.67														
22									kgco2 stored in soil	5021										
23		35 Gringham Mead			5.4	7.64														
24		Average			5.19	8.07														
25									tonnes co2/ha sequestered/ year	5										
26																				
27																				
28									farm total (tonnesco2/year)	1808										
29		increase in soil organic matter (2014-2022)				2.88														
30		increase in soil organic matter/year				0.36														
31																				
32																				