



**DAIRYGOLD/TEAGASC
JOINT PROGRAMME & SIGNPOST PROGRAM
2021-2025**

Farm Walk

On the Farm of

Tim O'Riordan, Monee, Mourneabbey, Mallow, Co Cork

Friday 30th September 2022

(By kind permission)

Today's Agenda

1. Current Farm Performance & 2021 profit monitor figures
2. Managing Autumn Grass and Closing Cover Targets
3. Options if you are short winter fodder
4. Herd Health: Body condition score & Dry Cow Minerals,
Winter dosing and vaccinations, Dry-off technique and selective
dry cow therapy

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FARM DETAILS

LAND		CURRENT STOCK DETAILS	
Land owned (ha)	84.8	Dairy cow	119
Land leased (ha)	0	0-1 Replacements	42
Milking Platform (ha)	31.85	1-2 Replacements	37
SR on milking platform (ha)	3.74	Stock bull	1
SR on whole farm (LU/ha)	2.2	0-1 Cattle	41
		1-2 Cattle	13

HERD PERFORMANCE

Milk Production	30/09/2022	2021
Milk yield (litres/cow)	17.5	5,978 sold
Milk protein %	4.05	3.65
Milk fat %	4.97	4.31
Milk solids (kg/cow)	1.62	490
SCC (,000 cells/ml)	103	98
Grass (kg DM/cow)	15.5	
Meal (kg DM/cow)	4.5kg 15% protein	1,380kg
Silage (kg DM/cow)	0	

Calving and Fertility Performance

	Year	Cows	Heifers
Calving Start Date	2022	20 Jan	20 Jan
Calving spread	2022	9wk +2d	8wk +1d
Calving Interval (Days)	2022	392	
Spring 6 wk. calving rate	2022	85 %	
Empty rate %*	2022	5%	
Replacement rate	2022	22%	
Breeding season	2022	12wks	10wks

*Estimate - not scanned yet for 2022 season

Report Date: 27/09/2022 (Jul 2022 Evaluation)

Herd Owner: JOHN O'RIORDAN

Herd No:

**Snapshot of your herd
based on the 27-SEP-22**

1. EBI Herd Summary

Average EBI for all dairy cows with; (i) a known sire (or milk recorded progeny with a known sire) and (ii) are currently on your farm.

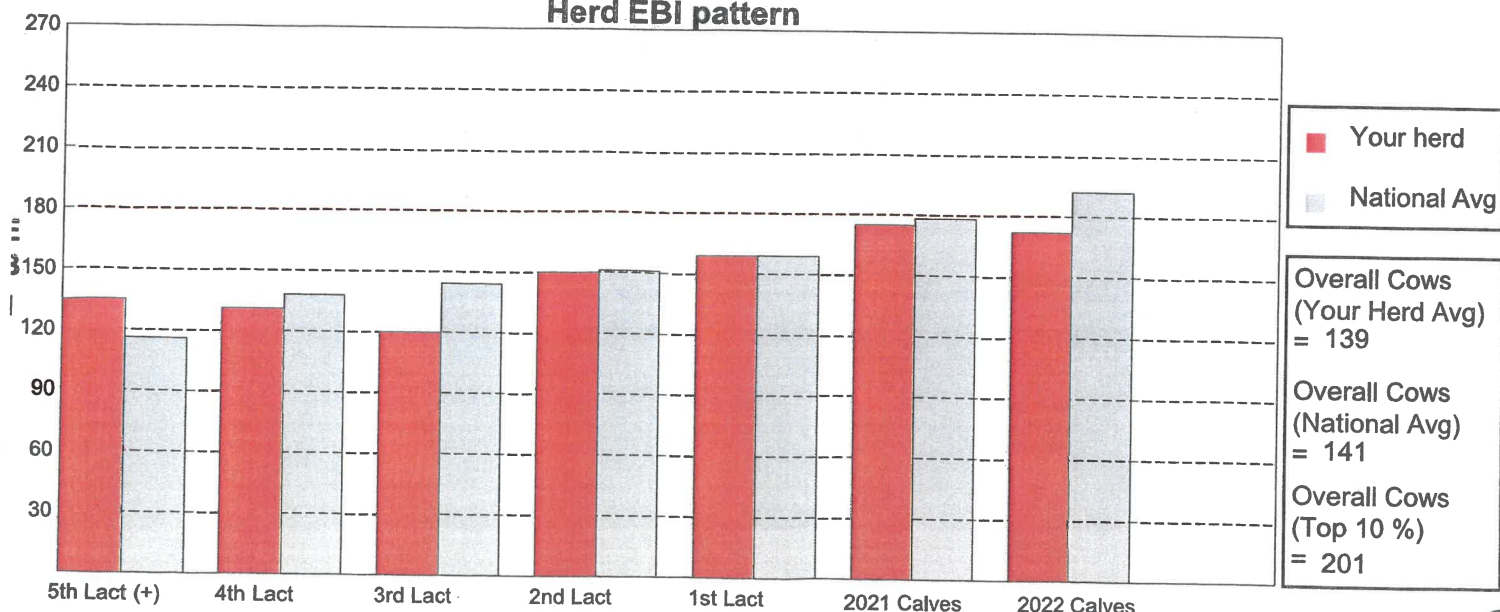
* Number of animals that are missing an EBI result

Animal Group	Num of Cows	Milk Kg	Fat %	Prot %	Surv% CI Days	Milk % Cont	Fertility % Cont	Calv % Cont	Beef % Cont	Maint % Cont	Mgmt % Cont	Health % Cont	EBI €
Cows with EBI	119	130				€ 49	€ 52	€ 35	€ -10	€ 8	€ 1	€ 5	
Missing EBI*	0	8.6	0.06	1.5		30.5%	32.4%	21.8%	-6.6%	5.3%	0.5%	3%	€ 139
Total Cows	119	7.2	0.05	-2.7									
1st Lactation	29	96				€ 60	€ 59	€ 37	€ -9	€ 7	€ 1	€ 5	
		10.7	0.12	1.5		33.8%	33.3%	20.9%	-4.8%	3.9%	0.6%	2.7%	€ 159
		7.8	0.08	-3.2									
2nd Lactation	19	164				€ 47	€ 60	€ 36	€ -12	€ 9	€ 2	€ 7	
		7.7	0.02	1.7		26.9%	34.9%	20.9%	-6.7%	5.4%	1%	4.3%	€ 150
		7.7	0.03	-3.1									
3rd Lactation	30	73				€ 35	€ 50	€ 33	€ -14	€ 10	€ 1	€ 4	
		5.8	0.05	1.4		23.7%	34%	22.6%	-9.1%	7%	0.9%	2.7%	€ 120
		5.0	0.04	-2.6									
4th Lactation	23	202				€ 51	€ 44	€ 33	€ -10	€ 8	€ 0	€ 4	
		9.6	0.03	1.5		33.7%	29.5%	21.9%	-6.6%	5.3%	0.3%	2.7%	€ 131
		8.3	0.02	-2.0									
5th Lactation (+)	18	150				€ 54	€ 44	€ 35	€ -8	€ 7	€ -1	€ 5	
		9.3	0.06	1.1		35.4%	28.6%	22.7%	-5.3%	4.7%	-0.4%	3%	€ 135
		8.2	0.05	-2.4									

2. Dairy Youngstock

2022 Calves	42	65				€ 60	€ 69	€ 41	€ -12	€ 7	€ 1	€ 6	
Missing EBI*	0	11.0	0.15	2.1		30.6%	35.3%	20.9%	-6%	3.8%	0.3%	3.2%	€ 172
Total Calves	42	7.3	0.09	-3.4									
2021 Calves	37	69				€ 64	€ 62	€ 43	€ -10	€ 8	€ 2	€ 6	
Missing EBI*	0	10.7	0.14	1.8		32.9%	31.9%	22%	-5.2%	4.2%	0.9%	2.8%	€ 175
Total Calves	37	8.2	0.1	-3.2									

Herd EBI pattern



Tim O'Riordan Costs per litre - 2 year average (includes replacement enterprise costs)

Year	Gross Output	Feed	Fert	Vet	AI	Contract	Other V.Costs	Total V. Costs	Mach	Car/ESB/phone	Deprec	Hired Labour	Leases	Other F. Costs	Total F. Costs	Total Costs*	Net Profit
	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l	c/l
2021	46.4	7.14	2.95	1.88	0.56	4.11	0.89	17.53	1.72	1.93	3.44	0.21	1.05	6.23	14.58	32.11	14.29
2020	38.51	5.1	2.2	1.44	0.05	2.56	0.8	12.15	4.19	1.49	2.79	0.28	0.6	1.54	10.89	23.04	15.46
AVG	38.51	5.10	2.20	1.44	0.05	2.56	0.80	12.15	4.19	1.49	2.79	0.28	0.60	1.54	10.89	23.04	15.46

*excludes own labour

Tim O'Riordan Farm Physical Performance - 3 year average

Year	Stocking rate	Stocking rate M. P	Cow no	litre /cow	Prot%	Fat %	KG MS /cow	kg MS /MP ha	Herd EBI	6 week calving	replace ment %	SCC	kg conc /cow	Grass Grown
	W. Farm			produced										DM/ha
2021	2.06	3.8	120	5978	3.65	4.31	490	1846	129	86	13	98	1,380	14.2
2020	2.11	3.8	121	6046	3.62	4.21	487	1852	120	78	30	110	1246	-
2019	2.00	3.4	108	5982	3.60	4.30	487	1650	118	70	25	142	1100	-
AVG	2.06	3.60	115	6014	3.61	4.26	487	1751	122	74	28	126	1,242	14.2

Farm: JBT Farm

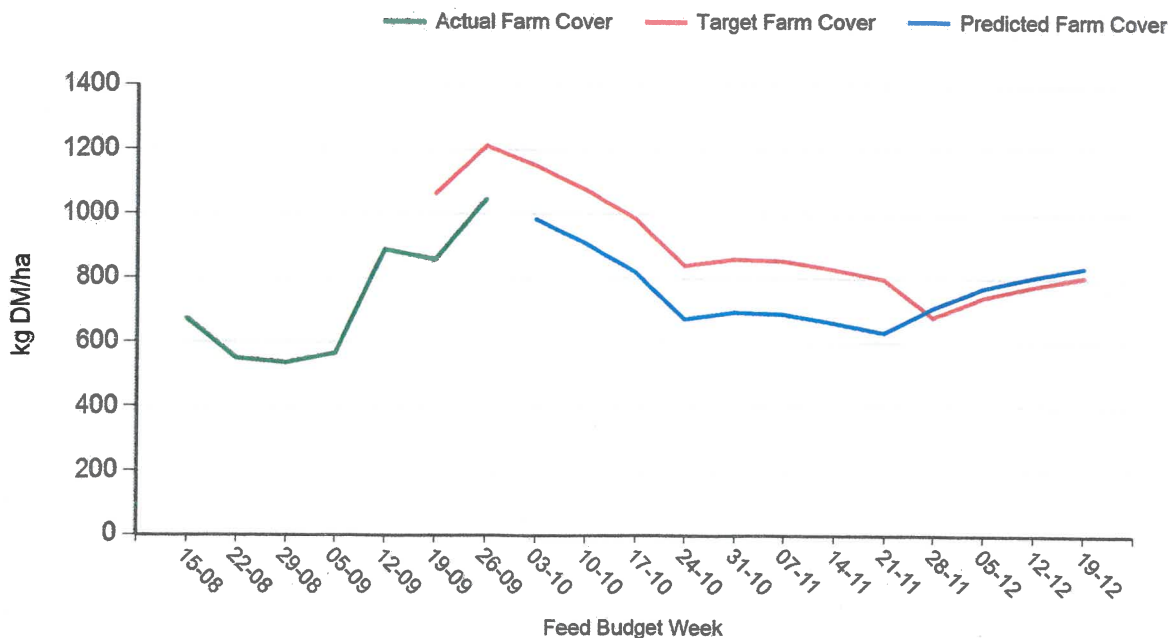
StockType: Spring Milkers

Budget Details

Week Start	Area (ha)	No. of stock	Grass Intake	Meal Intake	Silage Intake	Total Intake	Target Farm Cover (kg DM/ha)	Predicted Growth (kg DM/DAY)	Actual Farm Cover(kg DM/ha)	Predicted Farm Cover(kg DM/ha)	Actual Growth (kg DM/DAY)	Demand (kg DM/ha)	Stocking Rates (LU/ha)	Actual Cover/LU(kg DM/LU)
15/08/2022	29.177	119	8	6	6	20		62	674		70	33	4.08	165
22/08/2022	29.177	119	8	6	6	20		61	550		52	33	4.08	135
29/08/2022	29.177	119	14	6	0	20		58	537		63	57	4.08	132
05/09/2022	31.851	119	14	6	0	20		58	566		71	52	3.74	151
12/09/2022	31.851	119	8	4	8	20		55	889		72	30	3.74	238
19/09/2022	31.851	119	8	4	8	20	1065	51	860		67	30	3.74	230
26/09/2022	31.851	119	16	4	0	20	1213	51	1046		67	60	3.74	280
03/10/2022	31.851	119	16	4	0	20	1151	49	985			60	3.74	263
10/10/2022	31.851	119	16	4	0	20	1076	47		909		60	3.74	243
17/10/2022	31.851	119	16	4	0	20	986	39		820		60	3.74	219
24/10/2022	31.851	119	8	4	8	20	841	33		674		30	3.74	180
31/10/2022	31.851	119	8	4	8	20	862	29		696		30	3.74	186
07/11/2022	31.851	119	8	4	8	20	856	26		690		30	3.74	184
14/11/2022	31.851	89	8	4	8	20	829	18		662		22	2.79	237
21/11/2022	31.851	89	0	4	6	10	799	11		632		0	0	
28/11/2022	31.851	89	0	4	6	10	680	9		709		0	0	
05/12/2022	31.851	89	0	4.5	0	4.5	743	5		772		0	0	
12/12/2022	31.851	10	0	4.5	0	4.5	778	4		807		0	0	
19/12/2022	31.851	10	0	4.5	0	4.5	806	2		835		0	0	

* COWS FULLY HOUSED

Comparison Chart



Notes:

Each additional day at pasture is worth
over €2/animal per day in Autumn

Each additional day at pasture is worth
over €3/animal per day in spring



Closing This Autumn



Close the farm up to have grass available next spring!!!

➤ **Cover targets are better than date targets**

• Rotation length Late September: Minimum 30 days

• Late September - highest grass supply on farm

• Start closing October 5-15th (Dry Farms)

• 1 Week earlier for Heavy Farms

• Close in rotation – every day delay in closing reduces spring grass supply

• 60-65% closed November 1st

• Close “Rainy Day Spring Paddocks” in late October

• Close Clover paddocks/Reseeds late October



➤ **Dates are a reasonable guide**



➤ **Grazed grass is a more valuable feed in spring than autumn grass**

➤ **Feb 1st 2022 Opening AFC: 900+ kgDM/ha**

✓ The Paddock – Square, Dry, Near farmyard

✓ The Infrastructure - Good access & road network

✓ The Sward – Medium Cover Next Spring

▪ 800-1000 kg DM/ha so closed late October

✓ The Farmer - Suitable grazing techniques & flexible



As Ruairí Ó Súilleabháin,
Minister for
Department of Agriculture,
Food and the Marine



Fodder Budget

Exported on 29/09/2022

Budget Name: winter fodder Budget 2022

Stock	No Of Days	Stock No.	Stock Wt.	DMI %	Kg / Day	Meal Fed kg / day	Forage intake kg DM/day	Total Tonnes of Forage DM Required	Total Tonnes of Meal Required
Dairy Cows (Milking)	30	119	600	3.2	19.2	4	16.5	58.91	14.28
Dairy Cow (0-40 DIM)			600	2.7	16.2	0	16.2	0.00	0
Dairy Cows (Dry)	100	95	650	1.8	11.7	0	11.7	111.15	0
Dry suckler Cows			700	1.25	8.8	0	8.8	0.00	0
Calved suckler cow			650	1.7	11.1	0	11.1	0.00	0
In-calf Heifers	90	25	500	1.9	9.5	0	9.5	21.38	0
Weanlings / Yearlings	90	60	310	1.9	5.9	2	4.5	24.30	10.8
Stores 1-2			475	1.7	8.1	0	8.1	0.00	0
Finishing Steers			600	2	12	0	12	0.00	0
Finishing Heifers			490	1.9	9.3	0	9.3	0.00	0
Bulls			600	2.2	13.2	0	13.2	0.00	0
Ewes			80	2	1.6	0	1.6	0.00	0
Lambs			45	2	0.9	0	0.9	0.00	0
Total								215.74	25.08

Home Stored Forage	Length (m)	Width (m)	Height (m)	Clamp Volume (cubic metres)	Fresh Weight Available (tonnes)	Est. Dry Matter % of Forage	Total Tonnes of Forage DM Available on the Farm
Grass Silage (Pitted)	32	18	2.7	1555.2	1010.9	26	262.83
Grass Silage (Pitted) - Second				0	0	26	0
Maize Silage (Pitted)				0	0	32	0
Wholecrop Silages (Pitted)				0	0	45	0

	No. of Bales	Weight of each bale (kg)					
Grass Silage (4X4 Round Bales)	135	800			108	30	32.4
Hay (4 x4 Round Bales)	10	300			3	85	2.55
Straw (4 x 4 Round bales)	25	150			3.8	85	3.23
Grass Silage (4X4 Round Bales)		800			0	30	0

Grazing	Hectares	AVG Cover (KG/HA)					Total Tonnes of Forage DM Available on the Farm
Autumn Grass							0
Spring Grass							0
Other Grazing							0
Kale/Rape							0
Total					1125.7		301.01

Summary

Total Required t/DM	Total In stock t/DM	Surplus/deficit t/DM	% required in stock	Days Short
215.74	301.01	85.3	139.5	0

Disclaimer This application should be used in conjunction with good husbandry practice and should be used only as a guide to grassland management. The use of this application does not effect any statutory requirements. Teagasc shall not be held responsible for any losses incurred by the end user as a result of the use of this application.

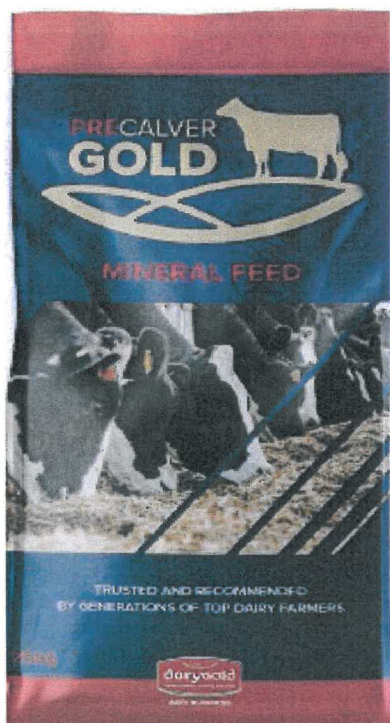
Value of FeedStuffs - Relative to Barley and Soy

	UFL (per kg DM)	DIE (per kg DM)	Value (per t DM)	DM (%)	Value (per t as fed)
Barley	1.16	103	439	86.6	380
Soya	1.18	269	648	86.4	560
Wheat	1.16	106	442	86.6	383
Oats	1.03	84	380	87.4	332
Maize	1.22	120	476	86	409
Unmolassed Beet Pulp	1.14	110	442	88.1	389
Molassed Beet Pulp	1.14	98	427	88.1	376
Molasses, Beet	1.03	71	364	76.1	277
Molasses, Cane	1	68	353	73.5	259
Citrus Pulp	1.14	91	419	87.5	367
Soya Hulls	1.05	107	414	87.9	364
Maize Gluten Feed	1.04	125	434	86.5	375
Maize Distillers Grains	1.16	134	477	89	425
Rapeseed Meal	1.05	151	468	86.4	404

Silage (All Silage are 20% DM)

	UFL (per kg DM)	DIE (per kg DM)	Value (per t DM)	DM (%)	Value (per t as fed)
~ Very Good Quality (77 DMD)	0.87	85	339	0.81	67
~ Good Quality (72 DMD)	0.81	73	308	20	62
~ Poor Quality (68 DMD)	0.76	66	286	20.2	58
Hay ~ Good Quality	0.69	75	278	85	236
Hay ~ Poor Quality	0.58	64	235	85	200
Barley Straw	0.44	46	175	88	154
Wheaten Straw	0.42	44	167	88	147
Oaten Straw	0.5	48	194	88	171
Brewer's Grain (20.5% DM)	0.92	189	480	20.5	98
Pressed Pulp	1.11	100	422	22	93
Fodder Beet	1.12	88	410	19	78

	UFL (per kg DM)	DIE (per kg DM)	Value (per t DM)	DM (%)	Value (per t as fed)
Maize Silage ~ 5 - 15% Starch	0.75	67	284	27.8	79
Maize Silage ~ 25-30% Starch	0.8	68	299	32.1	96
Whole crop cereal silage	0.8	68	299	40	120
Grass ~ 1st Grazing	0.99	99	388	16.4	64
Grass ~ 2nd, 3rd, 4th Rotation	1.01	96	390	17.2	67
Grass ~ Late Season	0.93	98	371	18.6	69



Dry Cow Action Plan

- 1. Analysis Silage:** Must measure: DM, DMD, Preservation, Mg, K, Ca
- 2. Condition Score Dry Cow:** Put a feeding plan in place to meet, not exceed requirements
- 3. Feed a balanced nutritionally enriched mineral:** to prevent milk fever, retained afterbirths and mastitis in early lactation

Times more likely with Clinical or Sub-clinical Milk Fever

Metritis	X 1.7
Cull within 1 month	X 2.0
Dystocia	X 2.6
Retained Afterbirth	X 3.0
LDA	X 4.8
Ketosis	X 8.0
Mastitis	X 8.0

Successful prevention of Milk Fever will substantially reduce the risk of many other problems.

	PRE-CALVER GOLD
Analytical Constituents	
Calcium (%)	1
Magnesium (%)	33
Phosphorous (%)	3
Sodium (%)	7.5
Trace Elements	
Cobalt (mg/kg)	99
Copper (mg/kg)	3000
Iodine (mg/kg)	500
Manganese (mg/kg)	3000
Selenium (mg/kg)	50
Zinc (mg/kg)	4000
Vitamins	
Vitamin A (iu/kg)	800,000
Vitamin D3 (iu/kg)	250,000
Vitamin E (mg/kg)	10,000
Vitamin E (iu/kg)	15,000
Feeding Rate (g/day)	120gm

To Prevent Milk Fever key element: Magnesium

Milk Fever Trouble Shooting:

- Cow BCS: Fat cows are 4 times more like to suffer from a milk fever
- Silage K to Mg ratio: 10:1 for K:Mg is desirable. A ratio of 20: 1 is high risk territory.
- An in between reading is of concern especially if cow BCS is high or if the farm has shown a pervious history of milk fevers.

To limit the numbers of milk fever:

- Ensure your mineral has enough Mg (40grms per day) and Vitamin D (30,000 mg/day)
- Fix K to Mg ratio by feeding straw, ensure nutritional requirements are met
- have some YMCP on standby for cows with a history of milk fever, 4th lactation + cows or cows that bag up strong.

Herd Summary - Total Cows Recorded: 120
Somatic Cell Count

★★★★★

Mastitis Control During Lactation

★★★★★

Mastitis Control Dry Period/Calving

★★★★★

Clinical Mastitis

No mastitis cases

**Recorded SCC
27-APR-2022**

52

Target : Less than 200

April Bulk Tank SCC

N/A

Target : Less than 200

% of Herd over 200

5%

Target : Less than 15%

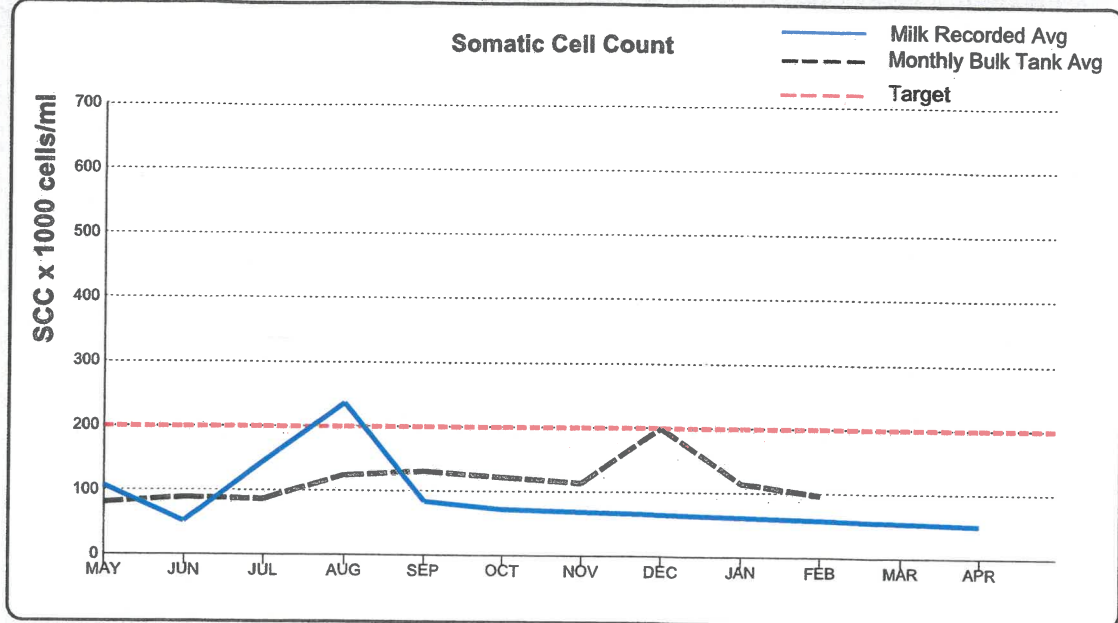
**Avoidable Milk Loss
(Ltrs/herd/day) ***

11.2

Somatic Cell Count

★★★★★

National Herd Rank on SCC: 97%



* This figure is an estimation of the total loss of production from the high SCC cows (>200) in your herd.

Mastitis Control During Lactation

★★★★★

Recent Infection Rate since last recording

>200 in latest milk recording (0) and
<=200 in the previous milk recording (6) in
the current lactation

0 %

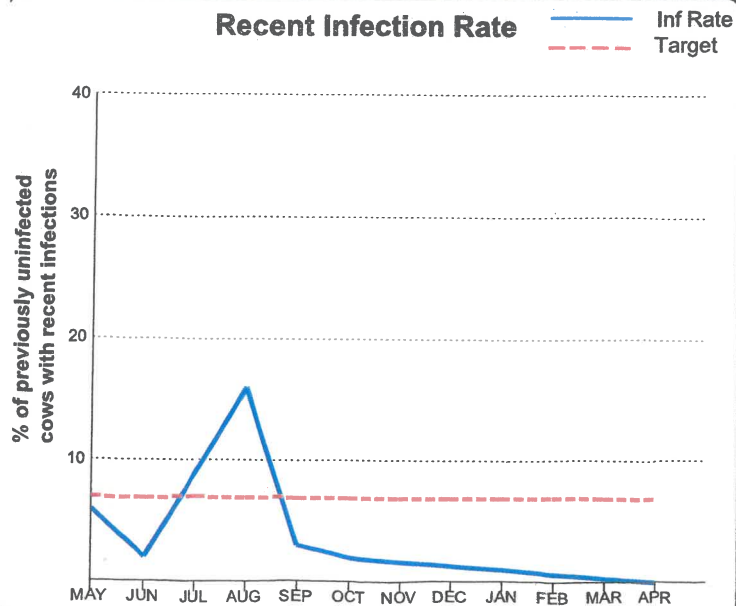
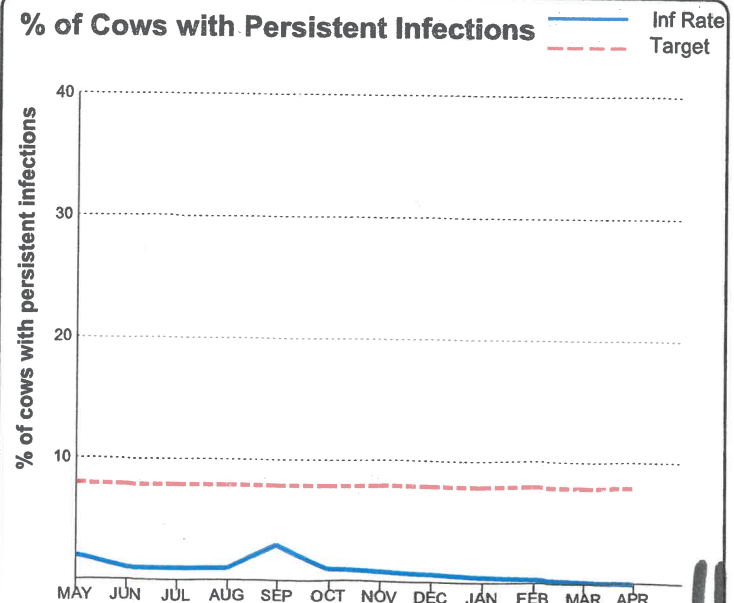
Target : Less than 7%

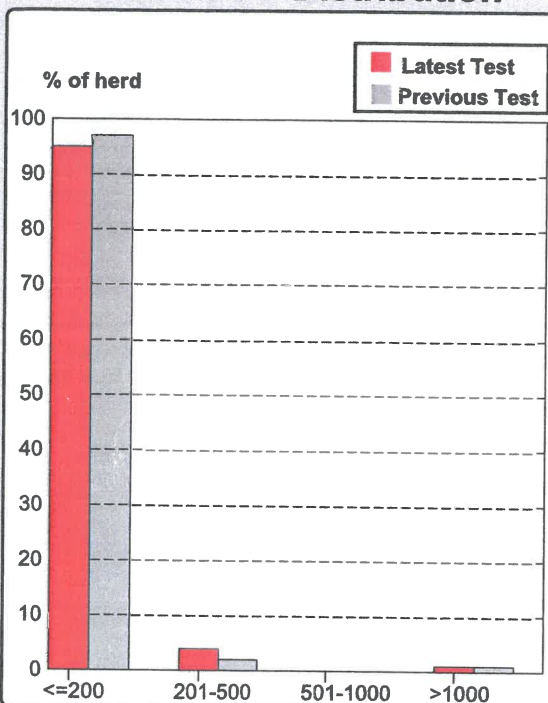
% of Cows with Persistent Infections

>200 in last two milk recordings (0) as a %
of all cows recorded for the last two milk
recordings (8) in the current lactation

0 %

Target : Less than 8%

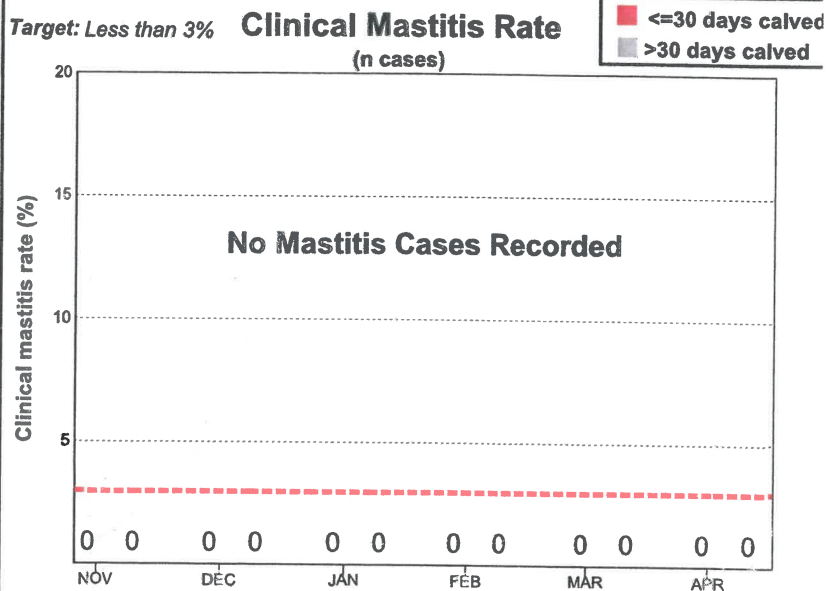
Recent Infection Rate

% of Cows with Persistent Infections


Herd SCC Distribution


Target: 85% of herd less than 200

Clinical mastitis

No mastitis cases


Note: Record treatments in the Record Events section of the ICBF web site www.icbf.com
Mastitis Control: Dry Period/Calving


Note: Cows with first recording >60 days after calving are not included.

New infection rate over the dry period
Cows

No. of cows calved that had a SCC <=200 in recording prior to calving (11) and >200 in the current recording (1).

Heifers

No. of heifers that had a SCC >200 in the current recording (3) as a percentage of all heifers calved (9).

First Test since calving

9%

Target: Less than 10%

All calvings in current lactation

9%

Target: Less than 10%

1/11

33%

Target: Less than 15%

27%

Target: Less than 15%

3/11

Cure rate over the dry period

No. of cows calved that had a SCC >200 in recording prior to calving (2) and <=200 in current recording (2)

100%

Target: Greater than 85%

100%

Target: Greater than 85%

2/2

For information on controlling somatic cell counts and clinical mastitis, check the Cell Check Farm Guidelines for Mastitis Control.

Somatic Cell Counts

Farm Guideline No

11-12

Mastitis Control: During Lactation

5-15 & Management Note M

Treatments During Lactation

10 & Management Notes B & G

Mastitis Control: Calving/Dry Period

1-4 & 16-20



Farm Guidelines book is available from your Co-op and local Veterinary Practitioners.


For further advice on controlling somatic cell counts and mastitis, contact your local CellCheck advisor. Further information on the CellCheck Programme is available on www.cellcheck.ie

Milk Recording - Summary Farm Report

MUNSTER BOVINE
BALLYVORISHEEN
MALLOW
CO CORK
Tel: 022/43228

Herd owner: JOHN O'RIORDAN
Herd No: 000000
Print date: 29/09/22
Test date: 24/09/22

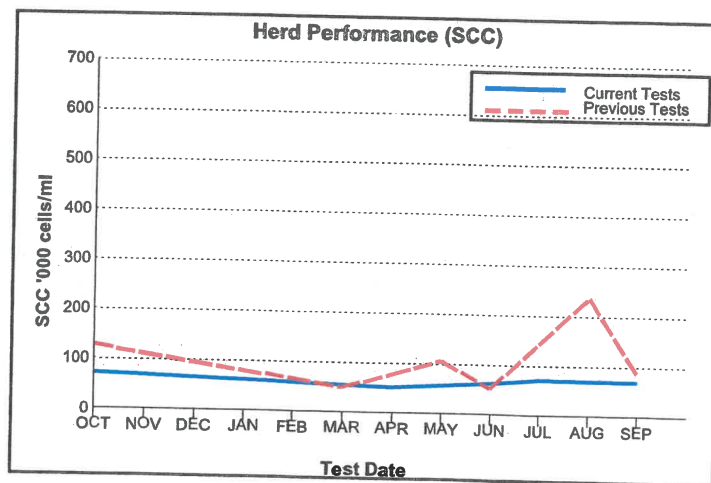
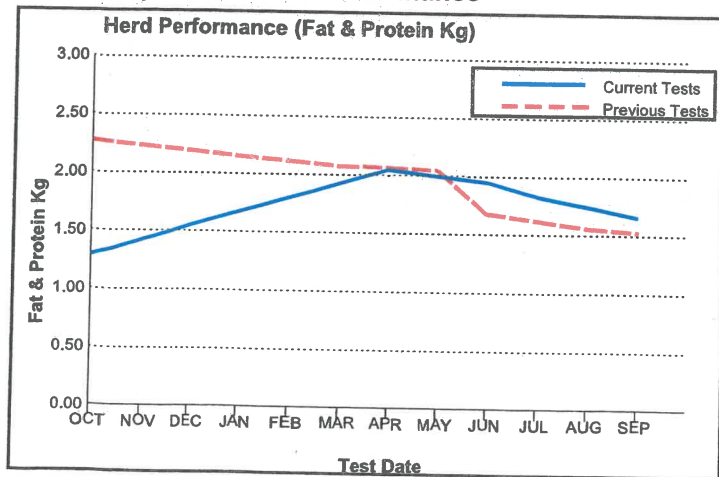
Scheme A6

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1. Production summaries

Group	Number of cows recorded	Average days in milk	M Kg	M Gall	Test Day / Yield to date / 305 day yield				P Kg	F+P Kg	Ave SCC Test>200 No. Treats	EBI (Euros)
					F%	P%	L%	F Kg				
Overall	119	239	19.2	4.1	4.27	3.99	4.62	0.82	0.77	1.59	145	139
			6148	1313	3.78	3.54	4.78	232	218	450	14	
			7183	1535	3.88	3.61	4.78	279	259	538	0	
1st Lactation	29	240	15.6	3.3	4.30	3.97	4.71	0.67	0.62	1.29	72	159
			4792	1024	3.93	3.53	4.84	188	169	357	1	
			5728	1224	3.98	3.60	4.85	228	206	434	0	
2nd Lactation	19	248	20.2	4.3	4.31	4.00	4.62	0.87	0.81	1.68	70	150
			6524	1394	3.70	3.57	4.76	241	233	474		
			7412	1583	3.79	3.63	4.75	281	269	550	0	
3rd Lactation	30	236	19.8	4.2	4.20	3.99	4.66	0.83	0.79	1.62	134	120
			6245	1334	3.80	3.56	4.79	237	223	460	4	
			7335	1567	3.89	3.63	4.79	285	267	552	0	
4+ Lactation	41	235	20.8	4.5	4.29	3.99	4.54	0.89	0.83	1.72	223	133
			6862	1466	3.73	3.52	4.74	256	241	497	9	
			7996	1708	3.85	3.59	4.74	308	287	595	0	
Dry Cows	0											

2. Comparative Herd Performance



3. Test day production history

Test date	Herd Performance										
	24-SEP'22	20-SEP'21	02-SEP'22	08-JUL'22	03-JUN'22	27-APR'22	29-OCT'21	20-SEP'21	04-AUG'2	14-JUN'21	06-MAY'21
Number of cows	119	116	118	120	120	120	98	116	119	121	119
Milk kg	19.2	18.7	21.8	25.2	26.2	29.5	15.5	18.7	20.1	24	29
Milk gallons	4.1	4	4.7	5.4	5.6	6.3	3.3	4	4.3	5.1	6.2
Fat %	4.27	4.37	3.98	3.61	3.93	3.43	4.45	4.37	4.23	3.49	3.60
Protein %	3.99	3.87	3.63	3.67	3.49	3.52	3.86	3.87	3.58	3.55	3.49
Lactose %	4.62	4.70	4.72	4.72	4.83	4.90	4.83	4.70	4.78	4.86	4.98
Fat kg	0.82	0.82	0.87	0.91	1.03	1.01	0.69	0.82	0.85	0.84	1.04
Protein kg	0.77	0.72	0.79	0.92	0.92	1.04	0.6	0.72	0.72	0.85	1.01
F+P kg	1.59	1.54	1.66	1.83	1.95	2.05	1.29	1.54	1.57	1.69	2.05
SCC	145	85	70	72	63	52	73	85	240	53	109

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Where are you on the 12 Steps to reduce Gaseous Emissions on YOUR FARM?



Action needed

12. Incorporate clover



11. Finish cattle earlier



10. Reduce age at first calving

9. Increase milk solids/cow



8. Improve dairy herd quality



7. Improve animal health

6. Better grassland management



5. Reduce chemical
N by 10kg/ha



4. Use 100% LESS



3. Build or maintain
soil fertility



2. Apply
lime



1. Use protected urea



Incorporating 5 kg/ha (2 kg/ac) will
replace up to 100 kg/ha (80 units/ac)
of chemical N/year

Use Dairy Beef Index (DBI)
to produce earlier finishing cattle

Calf heifers at 22 to 26 months
and aim for 20% replacement rate

Milk record, cull poor cows and aim
for 305 day lactation

Use high EBI bulls and increase herd EBI by >€10/year.
Use sexed semen to accelerate genetic gain

Create a herd health plan

Weekly farm walk, measure grass
and extend grazing season

Apply lime, incorporate clover
and make best use of slurry / FYM

Apply slurry in spring / early summer using
Low Emission Slurry Spreading Technology (LESS)

Continue to use P & K fertilisers such as 18:6:12

Identify fields low in pH using soil analysis

Apply protected urea instead of CAN/straight urea