



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

Farm Walk

On the Farm of

Raymond Goggin, Moskeigh, Templemartin, Bandon, Co Cork

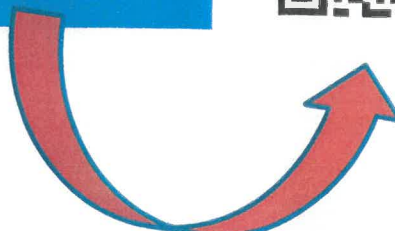
Wednesday 28th September 2022

(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

**SIGN UP TO SIGNPOST
MONTHLY NEWSLETTER BY
SCANNING THIS QR CODE**



FARM DETAILS

LAND		CURRENT STOCK DETAILS	
Land owned (ha)	33	Dairy cow	124
Land leased (ha)	26	0-1 Replacements	25
Milking Platform (ha)	40	1-2 Replacements	25
SR on milking platform (ha)	3.0	Stock bull	0
SR on whole farm (LU/ha)	2.5		

HERD PERFORMANCE

Milk Production	28/09/2022	2021
Milk yield (litres/cow)	21.6	6,793 sold
Milk protein %	3.89	3.57
Milk fat %	4.32	4.02
Milk solids (kg/cow)	1.82	530
SCC (,000 cells/ml)	162	162
Grass (kg DM/cow)	14.5	
Meal (kg DM/cow)	4.5kg 13% protein	1,000kg
Silage (kg DM/cow)	0	

Calving and Fertility Performance

	Year	Cows	Heifers
Calving Start Date	2022	24 Jan	22 Jan
Calving spread	2022	13wk +0d	13wk +5d
Calving Interval (Days)	2022	372	
Spring 6 wk. calving rate	2022	78%	
Empty rate %	2022*	*7.5	?
Replacement rate%	2022	18	
Breeding season	2022	13wks	14wks

*Estimate - not scanned yet for 2022 season

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

Herd Owner: RAYMOND GOGGIN

Herd No: 1

**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.

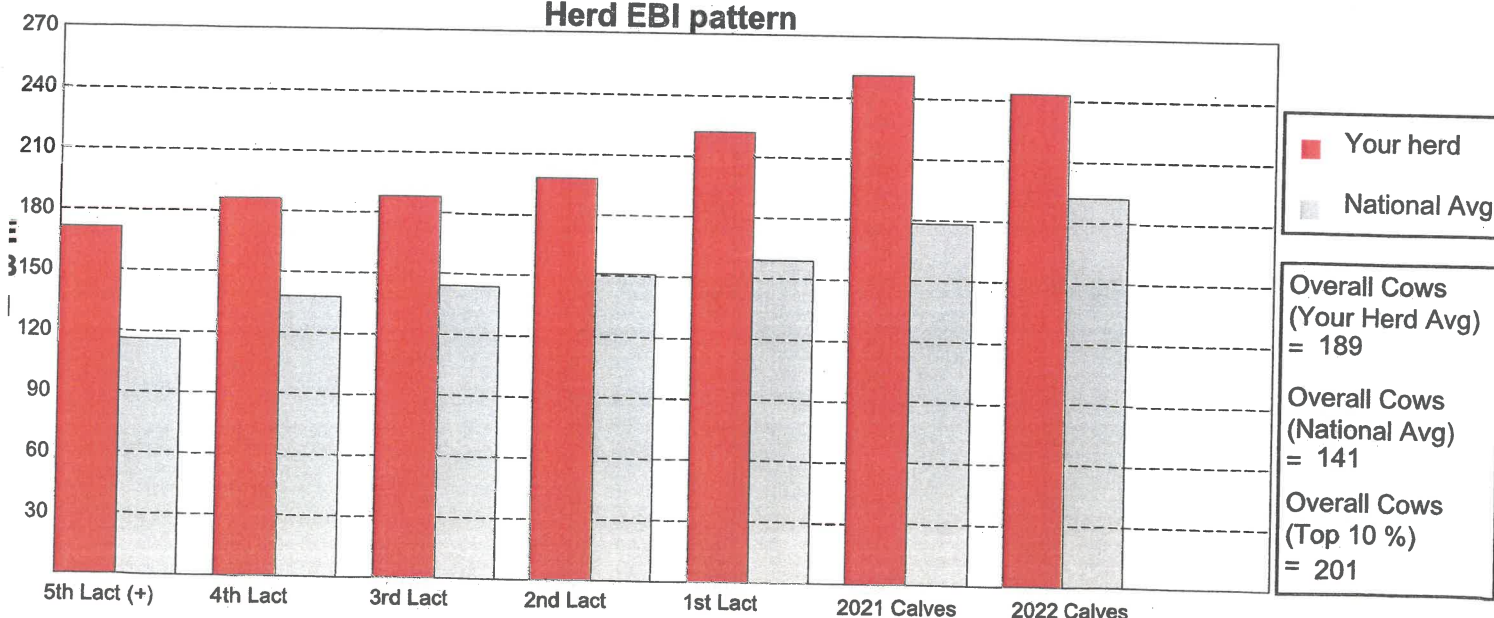
* Number of animals that are missing an EBI result

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	125	160				€ 56	€ 94	€ 34	€ -9	€ 10	€ 0	€ 3	
Missing EBI*	0	8.5	0.04	2.4		26.8%	45.6%	16.6%	-4.4%	4.9%	0.2%	1.4%	
Total Cows	125	8.9	0.06	-5.2									€ 189
1st Lactation	23	152				€ 73	€ 101	€ 44	€ -9	€ 8	€ 1	€ 4	
		10.9	0.09	2.6		30.5%	42.2%	18.2%	-3.8%	3.3%	0.4%	1.6%	
		10.9	0.1	-5.5									€ 222
2nd Lactation	22	186				€ 67	€ 92	€ 39	€ -9	€ 8	€ 1	€ 2	
		9.6	0.04	2.5		30.7%	42.3%	17.9%	-4.2%	3.6%	0.3%	1%	
		10.8	0.08	-4.8									€ 198
3rd Lactation	13	117				€ 49	€ 98	€ 38	€ -10	€ 11	€ -1	€ 3	
		7.0	0.04	2.7		23.4%	46.5%	18.1%	-4.6%	5.4%	-0.6%	1.4%	
		7.7	0.06	-5.1									€ 188
4th Lactation	15	164				€ 56	€ 98	€ 30	€ -9	€ 9	€ -1	€ 3	
		9.0	0.05	2.4		27.4%	47.4%	14.6%	-4.5%	4.2%	-0.2%	1.7%	
		8.9	0.06	-5.4									€ 186
5th Lactation (+)	52	161				€ 45	€ 91	€ 29	€ -9	€ 12	€ 1	€ 3	
		7.1	0.02	2.1		23.5%	48%	15.3%	-4.9%	6.5%	0.4%	1.3%	
		7.5	0.03	-5.1									€ 171

2. Dairy Youngstock

2022 Calves	25	135				€ 83	€ 107	€ 44	€ -10	€ 10	€ 3	€ 6	
Missing EBI*	0	13.0	0.14	2.7		31.4%	40.8%	16.8%	-3.8%	3.8%	1%	2.3%	
Total Calves	25	11.5	0.12	-5.8									€ 243
2021 Calves	25	151				€ 84	€ 119	€ 43	€ -11	€ 10	€ 1	€ 5	
Missing EBI*	0	13.6	0.13	2.9		30.7%	43.5%	15.6%	-4.1%	3.6%	0.5%	1.9%	
Total Calves	25	11.8	0.11	-6.6									€ 251

Herd EBI pattern



Raymond Goggin Costs per litre - 3 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	43.68	7.16	2.56	2.02	0.78	2.12	1.36	16	0.9	1.3	1.6	1.75	2.2	1.54	9.2	25.2	18.49
2019	36.57	4.5	1.79	1.66	0.3	1.48	2.29	12.02	0.84	0.99	1.05	1.24	1.9	1.32	7.34	19.36	17.22
2018	38.42	6.43	1.81	1.4	0.47	1.71	2.3	14.12	1.18	0.98	1.51	2.3	1.99	1.88	9.84	23.96	14.46
AVG	37.50	5.47	1.80	1.53	0.39	1.60	2.30	13.07	1.01	0.99	1.28	1.77	1.95	1.60	8.59	21.66	15.84

*excludes own labour

Raymond Goggin Farm Physical Performance - 3 year average

Year	Stocking rate	Stocking rate	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	Chem N/ha
	W. Farm	M. P		produced										DM/ha	WF
2021	2.5	3.0	122	6793	3.57	4.02	530	1630	178	91	18	162	1,000	13.4	217
2020	2.5	3.0	123	6841	3.60	4.02	537	1664	166	85	13	114	1,067	-	231
2019	2.61	3.1	124	6566	3.59	3.98	512	1599	149	85	17	170	895	-	
AVG	2.54	3.03	123	6733	3.59	4.01	526	1631	164	87	16	149	987	13.4	224.0

Farm: Woodside Dairy
Limited

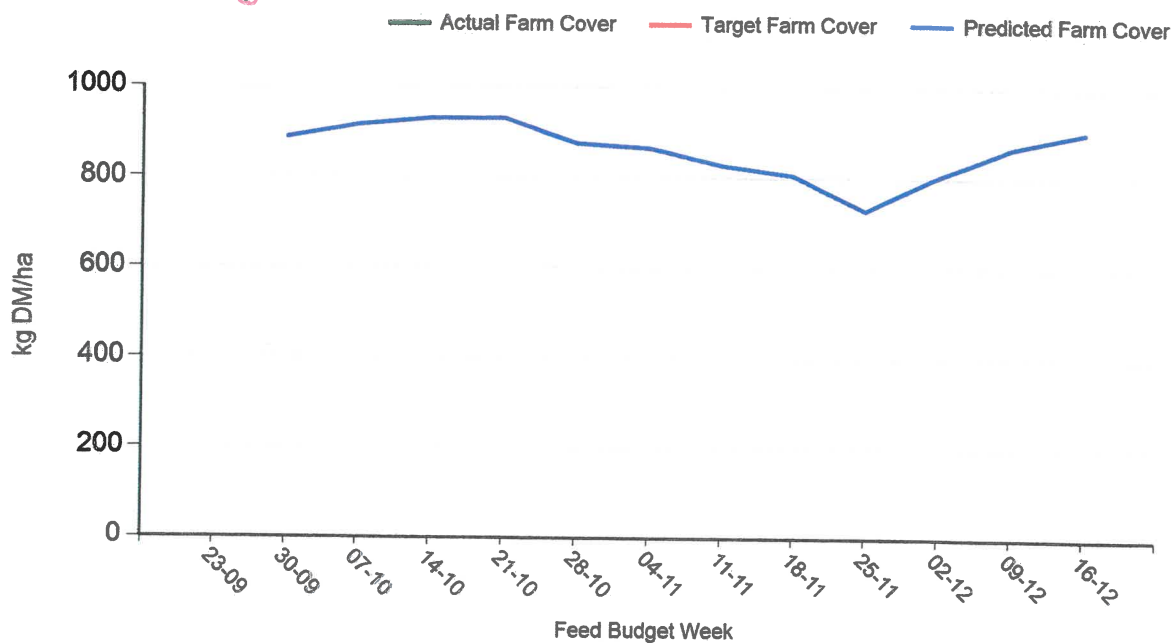
StockType: Spring Milkers

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)
23/09/2022	39.66	124	15	4	0	19		51	859		54	47	3.13	274
30/09/2022	39.66	124	15	4	0	19	888	51		888		47	3.13	284
07/10/2022	39.66	124	15	4	0	19	916	49		916		47	3.13	293
14/10/2022	39.66	124	15	4	0	19	931	47		931		47	3.13	297
21/10/2022	39.66	124	15	4	0	19	932	39		932		47	3.13	298
28/10/2022	39.66	124	11	4	4	19	877	33		877		34	3.13	280
04/11/2022	39.66	124	11	4	4	19	867	29		867		34	3.13	277
11/11/2022	39.66	105	11	4	4	19	829	26		829		29	2.65	313
18/11/2022	39.66	105	11	4	4	19	807	18		807		29	2.65	305
25/11/2022	39.66	85	0	5	14	19	729	11		729		0	0	
02/12/2022	39.66	65	0	5	14	19	806	9		806		0	0	
09/12/2022	39.66	65	0	5	14	19	869	5		869		0	0	
16/12/2022	39.66	65	0	5	14	19	904	4		904		0	0	

*Cow Housed
Fully

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



An tAonán Tíre,
Minister for
Department of Agriculture,
Food and the Marine



➤ 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



Fodder Budget

Exported on 27/09/2022

Budget Name: 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	124	600	3.2	19.2	4	16.5	61.38	14.88
Dairy Cow (0-40 DIM)			600	2.7	16.2	0	16.2	0.00	0
Dairy Cows (Dry)	90	105	650	1.8	11.7	0	11.7	110.57	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	25	310	1.9	5.9	1.6	4.8	10.80	3.6
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								204.13	18.48

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)	35	20.5	2.4	1722	1119.3	26	291.02
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)		800		0	30	0
Hay (4 x4 Round Bales)		300		0	85	0
Straw (4 x 4 Round bales)	40	150		6	85	5.1
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				1125.3		296.12

Summary

Total Required t/DM	Total in stock t/DM	Surplus/deficit t/DM	% required in stock	Days Short
204.13	296.12	92	145.1	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.

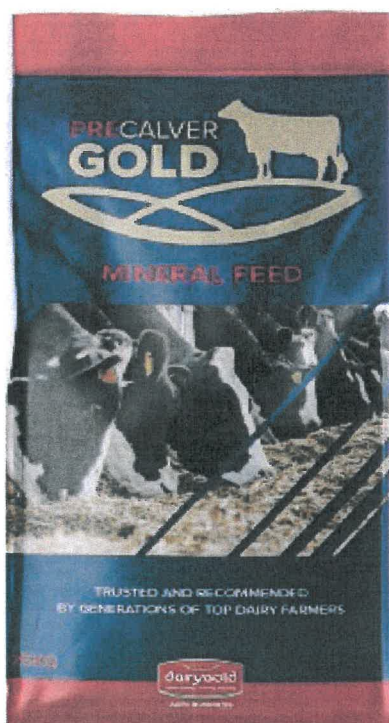
Value of FeedStuffs - Relative to Barley and Soy

	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 DM)	0.87	85	339	0.81	67
~ Good Quality (72 DM)	0.81	73	308	20	62
~ Poor Quality (68 DM)	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: 103
Somatic Cell Count

★★★★★

Mastitis Control During Lactation

No previous test

Mastitis Control Dry Period/Calving

★★★★★

Clinical Mastitis

★★★★★

**Recorded SCC
09-MAR-2022**

201

Target : Less than 200

Somatic Cell Count

★★★★★

National Herd Rank on SCC: 43%

March Bulk Tank SCC

N/A

Target : Less than 200

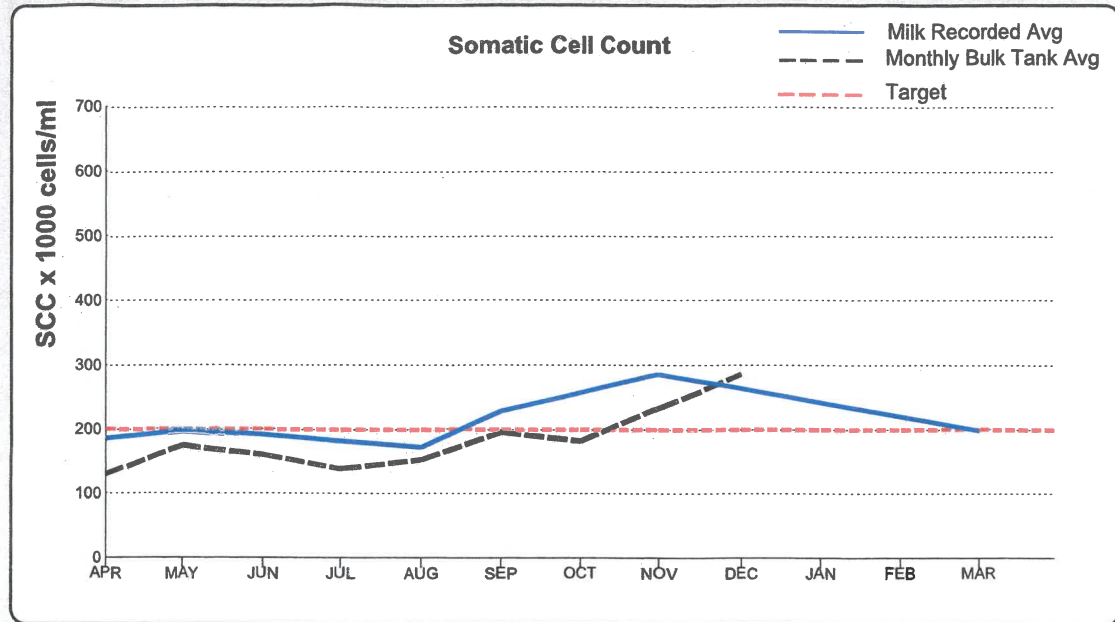
% of Herd over 200

17%

Target : Less than 15%

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

45.3



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

Mastitis Control During Lactation

N/A

Recent Infection Rate since last recording

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

N/A

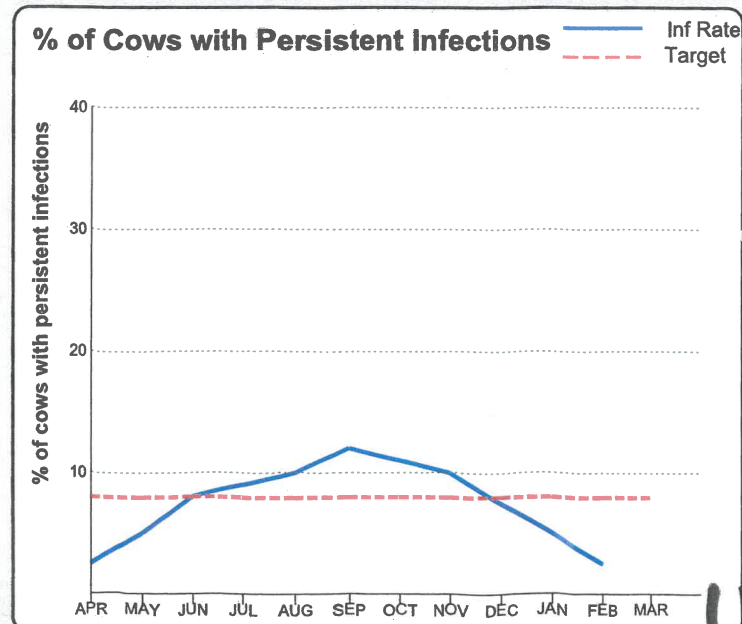
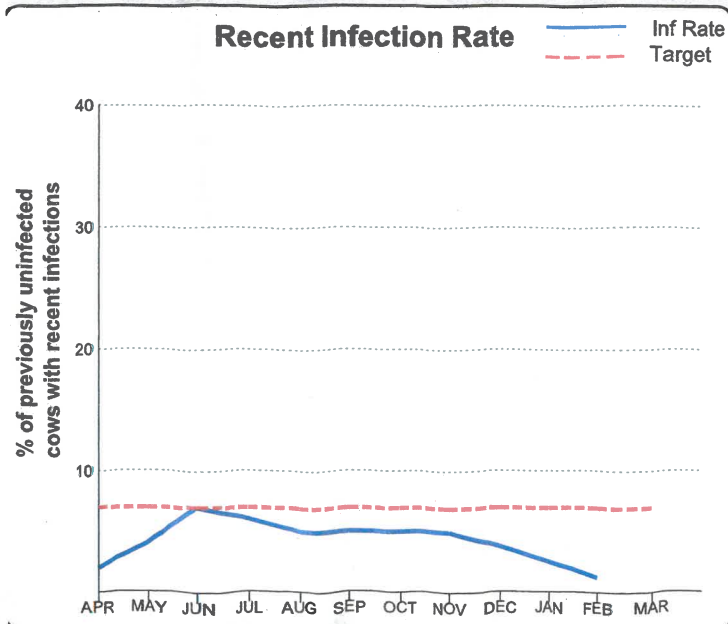
Target : Less than 7%

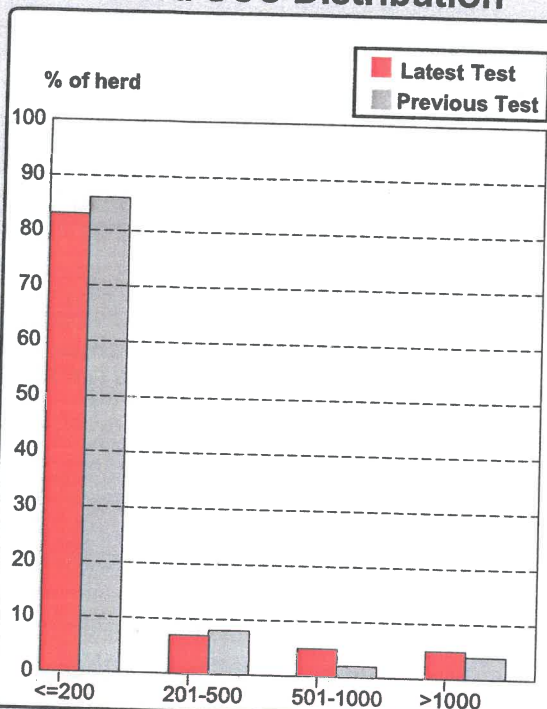
% of Cows with Persistent Infections

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

N/A

Target : Less than 8%

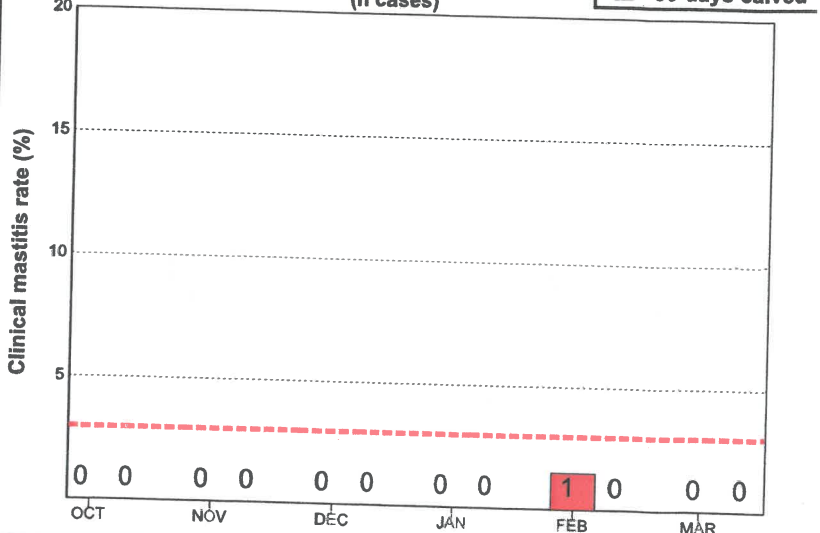


Herd SCC Distribution


Target: 85% of herd less than 200

Clinical mastitis

★★★★★

Target: Less than 3% **Clinical Mastitis Rate**
(n 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 (71) and >200 in the current recording (9).

Heifers

No. of heifers that had a SCC >200 in the current recording (6) as a percentage of all heifers calved (20).

First Test since calving

13%

Target: Less than 10%

All calvings in current lactation

13%

9/71

Target: Less than 10%

30%

Target: Less than 15%

30%

6/20

Target: Less than 15%

Cure rate over the dry period

No. of cows calved that had a SCC >200 in recording prior to calving (11) and <=200 in current recording (9)

82%

Target: Greater than 85%

82%

9/11

Target: Greater than 85%

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

Somatic Cell Counts

Mastitis Control: During Lactation

Treatments During Lactation

Mastitis Control: Calving/Dry Period

Farm Guideline No

11-12

5-15 & Management Note M

10 & Management Notes B & G

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: RAYMOND GOGGIN

Herd No:

Print date: 17/08/22

Test date: 13/08/22

Scheme A6

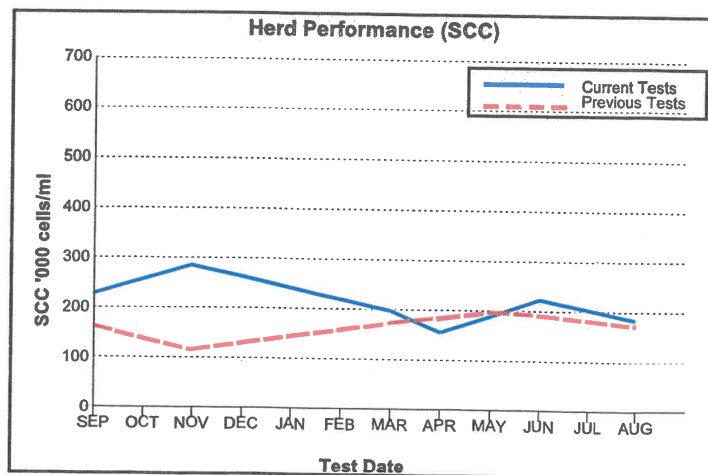
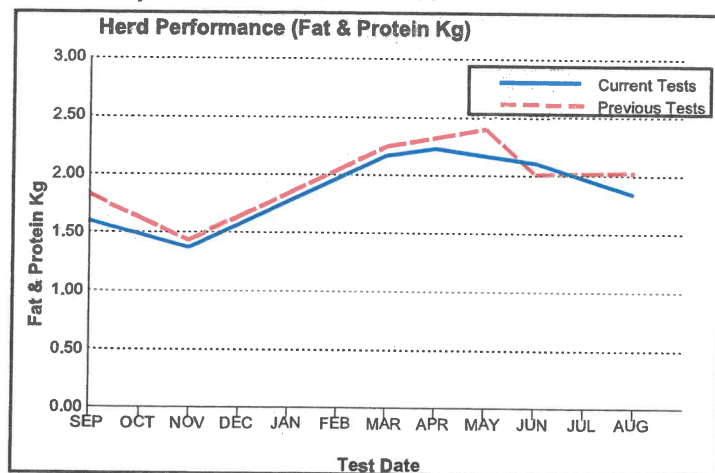
Page: 1(2)

1. Production summaries

Group	Number of cows recorded	Average days in milk	M Kg	M Gall	F%	P%	L%	F Kg	P Kg	F+P Kg	Ave SCC Test>200 No. Treats	EBI (Euros)
Overall	126	176	24.9	5.3	3.95	3.44	4.70	0.98	0.86	1.84	185	188
			5082	1086	3.93	3.37	4.78	200	171	371	23	
			7445	1591	4.04	3.49	4.77	301	260	561	2	

1st Lactation	23	183	20	4.3	4.11	3.55	4.78	0.82	0.71	1.53	143	222
			4201	898	4.11	3.42	4.88	173	144	317	5	
			6174	1319	4.18	3.54	4.87	258	219	477	0	
2nd Lactation	22	178	23.7	5.1	4.08	3.57	4.74	0.97	0.85	1.82	124	198
			4931	1053	4.01	3.44	4.80	198	170	368	3	
			7159	1529	4.14	3.58	4.80	296	256	552	0	
3rd Lactation	13	186	24.8	5.3	4.00	3.60	4.69	0.99	0.89	1.88	171	188
			5361	1145	3.94	3.47	4.79	211	186	397	2	
			7494	1601	4.04	3.60	4.79	303	270	573	1	
4+ Lactation	68	171	26.9	5.7	3.86	3.35	4.67	1.04	0.9	1.94	216	173
			5375	1148	3.85	3.31	4.74	207	178	385	13	
			7959	1700	3.97	3.43	4.74	316	273	589	1	
Dry Cows	0											

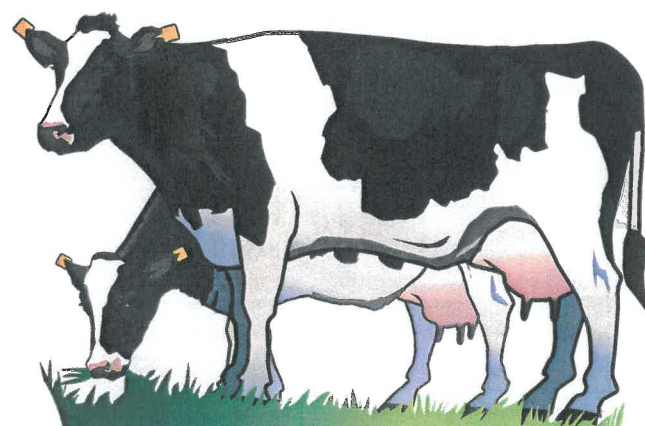
2. Comparative Herd Performance



3. Test day production history

Test date	Herd Performance										
	13-AUG'22	04-AUG'21	19-JUN'22	29-APR'22	09-MAR'22	13-NOV'21	26-SEP'21	04-AUG'21	19-JUN'21	08-MAY'21	08-MAR'21
Number of cows	126	122	126	127	103	112	123	122	124	126	110
Milk kg	24.9	26.8	28.7	31.1	29.7	15.5	18.8	26.8	28	31.7	29.1
Milk gallons	5.3	5.7	6.1	6.6	6.3	3.3	4	5.7	6	6.8	6.2
Fat %	3.95	3.90	3.84	3.80	4.16	4.81	4.60	3.90	3.67	4.04	4.55
Protein %	3.44	3.66	3.51	3.39	3.16	4.02	3.85	3.66	3.52	3.55	3.22
Lactose %	4.70	4.62	4.67	4.88	4.84	4.60	4.50	4.62	4.66	4.79	4.78
Fat kg	0.98	1.05	1.10	1.18	1.23	0.75	0.87	1.05	1.03	1.28	1.32
Protein kg	0.86	0.98	1.01	1.05	0.94	0.62	0.73	0.98	0.98	1.12	0.93
F+ P kg	1.84	2.03	2.11	2.23	2.17	1.37	1.6	2.03	2.01	2.4	2.25
SCC	185	174	226	158	201	289	231	174	194	200	176

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