

Gwella ffrwythlondeb system lloia mewn dau floc

Improving fertility of a split block calving system

Croeso i chi gyd.

Welcome to this evenings Webinar.



Fferm Nantglas, Talog Sir Gaerfyrddin



Iwan and his wife have been farming at Nantglas since September 2011, 75 ha dairy farm milking 200 cows on a split block calving system.







IMPROVING FERTILITY OF A SPLIT BLOCK CALVING SYSTEM

Kate Burnby BVSc CertCHP MRCVS





www.llyw.cymru/cyswlltffermio www.gov.wales/farmingconnect



FARMING connect cyswllt FFERMIO

What's our objective at Nantglas?

Current calving pattern

Desired calving pattern

- 2 x 12-week blocks
- 12w NIC >10%

- 2 x 10-week blocks
- Sub 10% NIC at 10 weeks

PSC 28/2 & 20/8



What is measured?









6 WEEK IN-CALF RATE



NOT-IN-CALF RATE AT 12 WEEKS PLUS 10 WEEKS



SUBMISSION RATE







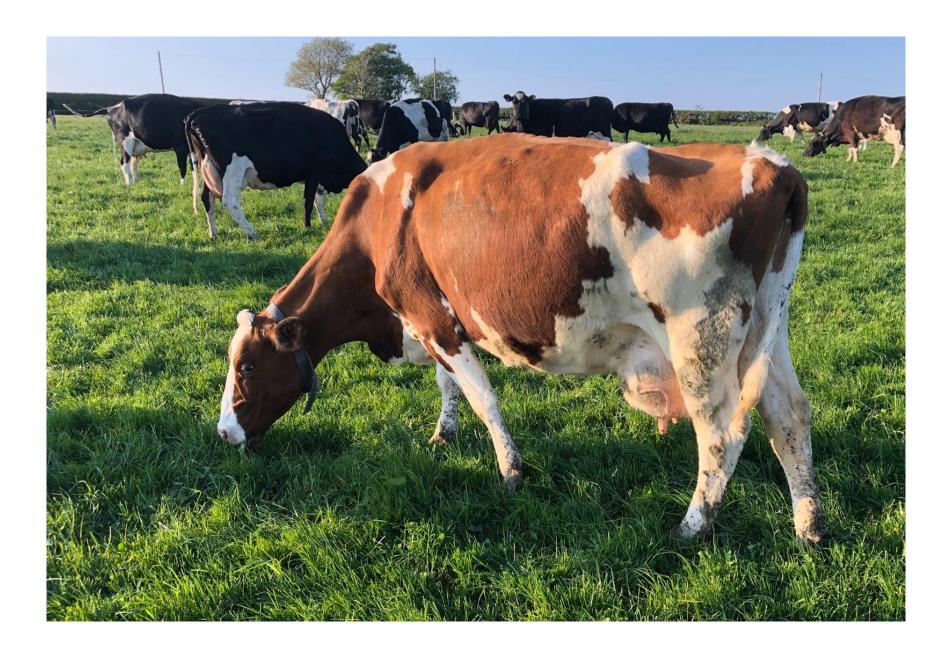




WORK-LIFE BALANCE

MORE TIME TO DEVOTE TO MANAGEMENT







What we have done so far

Farm profile & some data analysis

Assessed housing – "snapshot"

Pre-calving BCS + some bloodwork

Mating plan for heifers

Clean checks and non-cyclers

Automated heat detection trial started



What drives in calf rates?



Recovery

time

Calving ease

Uterine health

Infectious disease

Insemination technique

Submission x Conception

Lameness

Body condition

Heat detection

Bull management Heifer growth

Mineral status



Key areas of Focus



Heifers & Front end load the calving pattern

Sell surplus late calvers

Metabolic disease

Cow comfort & mobility

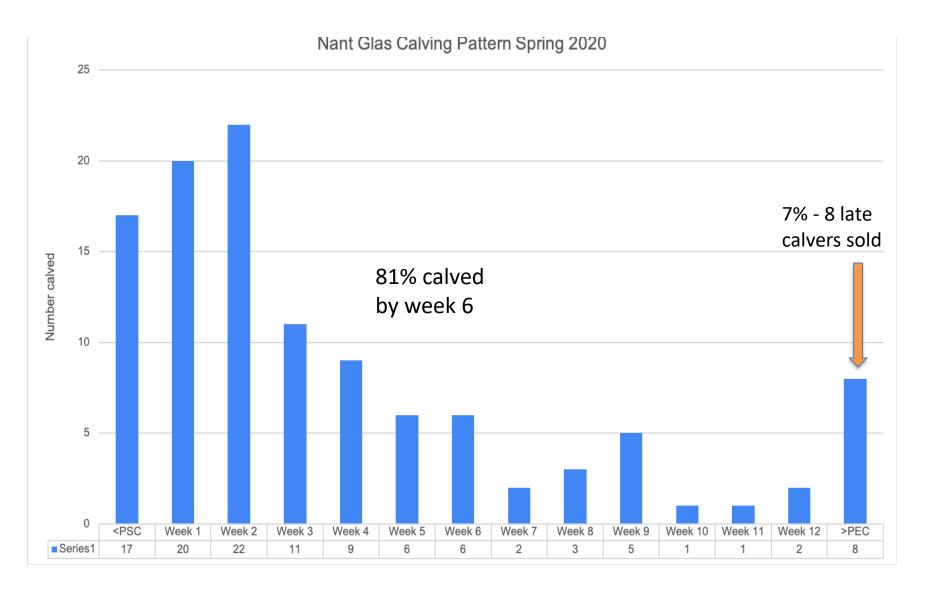
Get body condition right

Submission rates

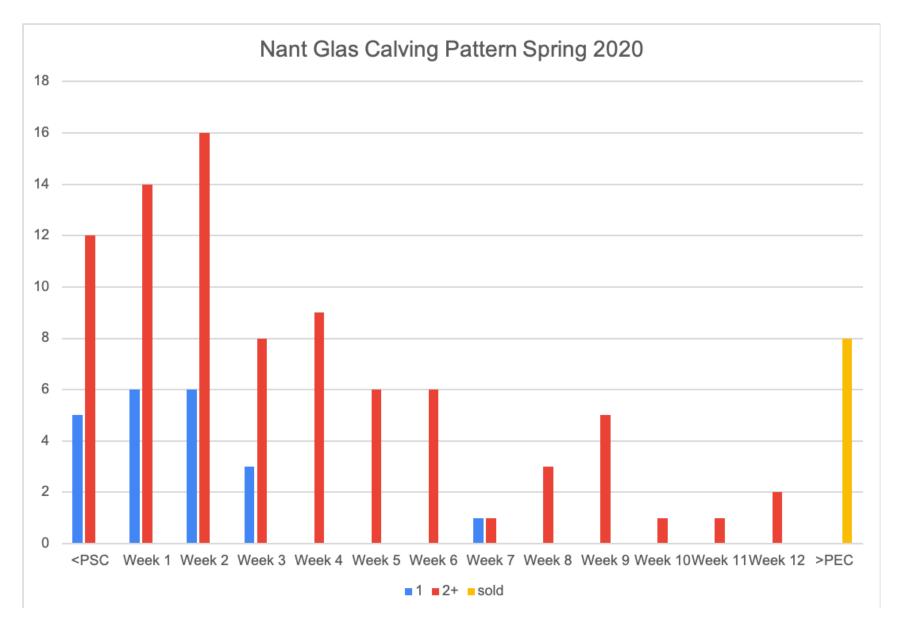
Al timing and technique



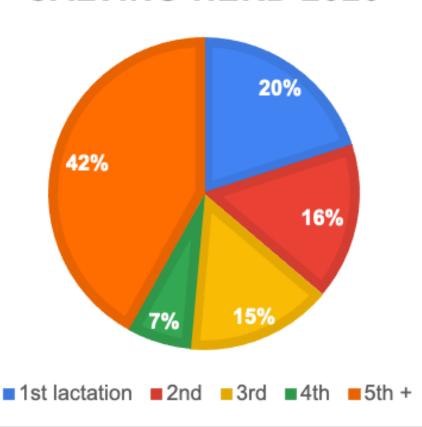
Current calving pattern



Heifers



AGE STRUCTURE OF SPRING CALVING HERD 2020







- 105 calved by 22/05
- 8 late calvers sold
- Very little calving difficulty or RFM 5
 assisted, 2 RFM
- 3 cows lost over calving period (metabolic)
- 15 Milk fevers occurred in small runs helped with MagCl in water for dry cows twice daily

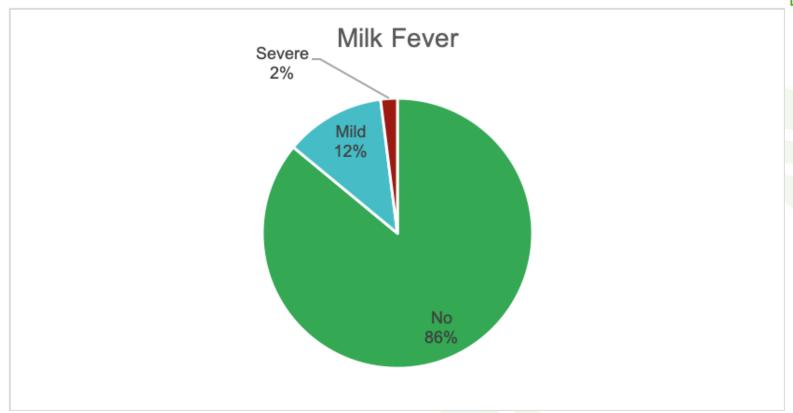


Calving Records



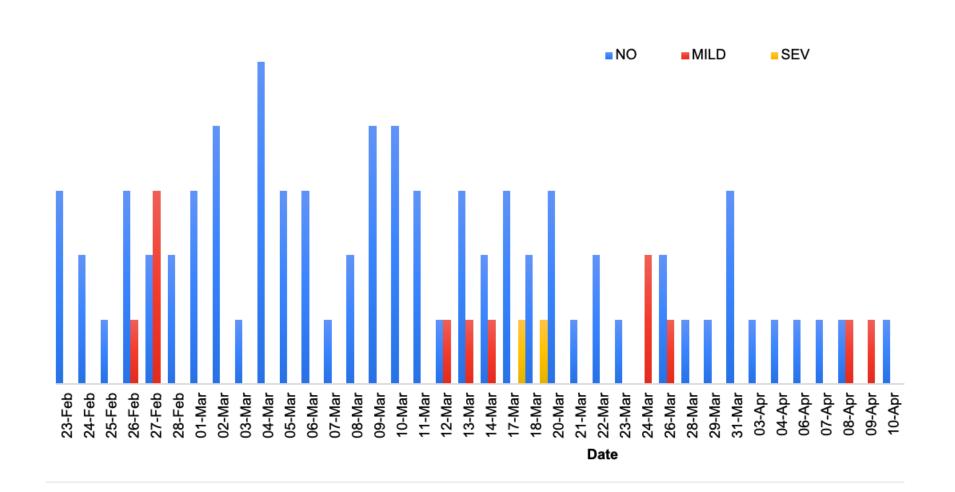
Calving Records Nant Glas Spring 2020							(c) Kate Burnby BVSc CertCHP MRCVS 07793 440399						S 07793 440399
Red	Date	COMID	Lactation	Condition	call	Catto	Difficulty?	Cleansed?	MILL Foyor.	Complications	Treat date(5)	Treatments	Continents
16	28/2	781	1 ② 3 4 5+	URO	LB LH DB DH TW	1314 / 1315	2 3 4 5	(Q) RFM	None Mild Sev	Mastitis Metritis Other			
17	h	574	1 2 3 4 5+	URO	DB DIL IV	1316	2 3 4 5	(Q) RFM	None Mild Sev	Mastitis Metritis Other			
18	1/3	996	① 2 3 4 5+	u ® o		1317	2 3 4 5	© RFM	None Mild Sev	Mastitis Metritis Other			
19	11	ורד	1 2 3 4 5+	URO	THE RESERVE OF THE PARTY OF THE	1318	2 3 4 5	© RFM	None Mild Sev	Mastitis Metritis Other			
20	6	824	1 2 3 4 5+	URO	222111	1332	2 3 4 5	© RFM	None Mild Sev	Mastitis Metritis Other			
21	2 3	943	① 2 3 4 5+	URO			2 3 4 5	RFM	None Mild Sev	Mastitis Metritis Other			
22	le	949	① 2 3 4 5+	U® O	LB LH DB DH TW		2 3 4 5	RFM	None Mild Sev	Mastitis Metritis Other			
23	fr.	5812	1 2 3 4 5+	URO		1319	2 \$ 4 5	RFM	None Mild Sev	Mastitis Metritis Other			
24	q	449	1 2 3 4 5 7	n B o	DDDIIIW	1320	2 3 4 5	(b) RFM	None Mild Sev	Mastitis Metritis Other			
25	3/3	1449	1 2 3	UBO		1321	2 3 4 5	Q RFM	None Mild Sev	Mastitis Metritis Other			
26	413	241	1 2 3 4 🕀	U RO		1322	2 3 4 5	RFM	None Mild Sev	Mastitis Metritis Other			
27	4	226	1 2 3	URO	DB DI. III	1333	2 3 4 5	RFM	None Mild Sev	Mastitis Metritis Other			
28	u	823	1 2 3 4 5+	(i)R O	CB LH DB DH TW	1334	2 3 4 5	() RFM	None Mild Sev	Mastitis Metritis Other			
29	i.	999	① 2 3 4 5+	URO	LB (H) DB DH TW	1323	2 3 4 5	RFM	None Mild Sev	Mastitis Metritis Other			
30	le .	285	1 2 3 4 🖨	U(R) O	LB (H)	1324	2 3 4 5	(C) RFM	None Mild Sev	Mastitis Metritis Other			







Milk Fever By Date



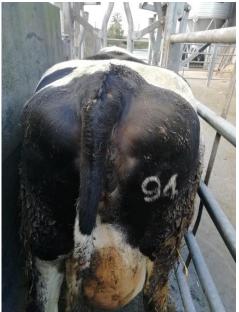












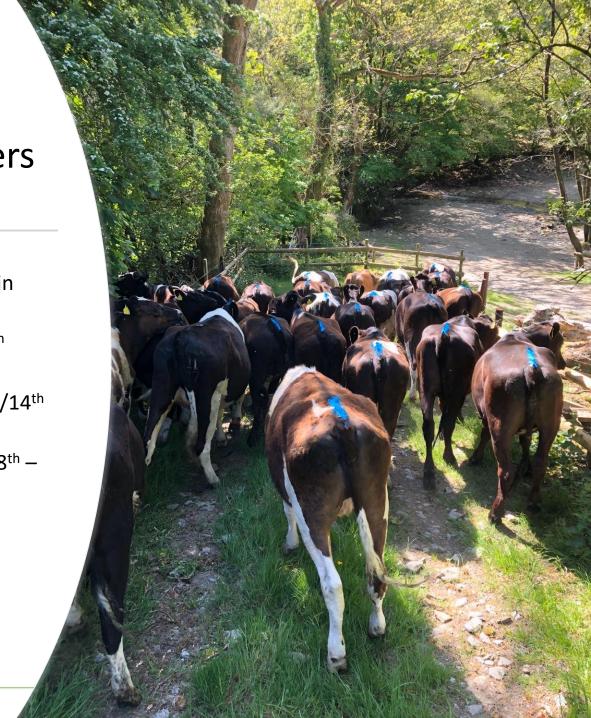
Day Active 26/2/2020

Cow ID	Due date	Lactation	BCS	Breed
781	3/3	Sm	35	FT
823	11/3	27	3	FT
136	613	4	3.75	F
799	8 (3	27	3.75	FS
94	3 /3	(4.25	F
38	E ₄ /3	8	4	F
824	8/3	57	3.5	FT
137	5/3	6	3.5	FT
620	4/3	32	3.5	F
777	1/3	Zy	3.5	F5

Front end load heifers

- 28 Heifers strategic prostaglandin program
- PG and tail-painted Monday 11th
 May
- 15 Served to observed heat 13th/14th
 & 15th
- PG unserved animals Monday 18th 8 served 20th
- Bull in 21st May





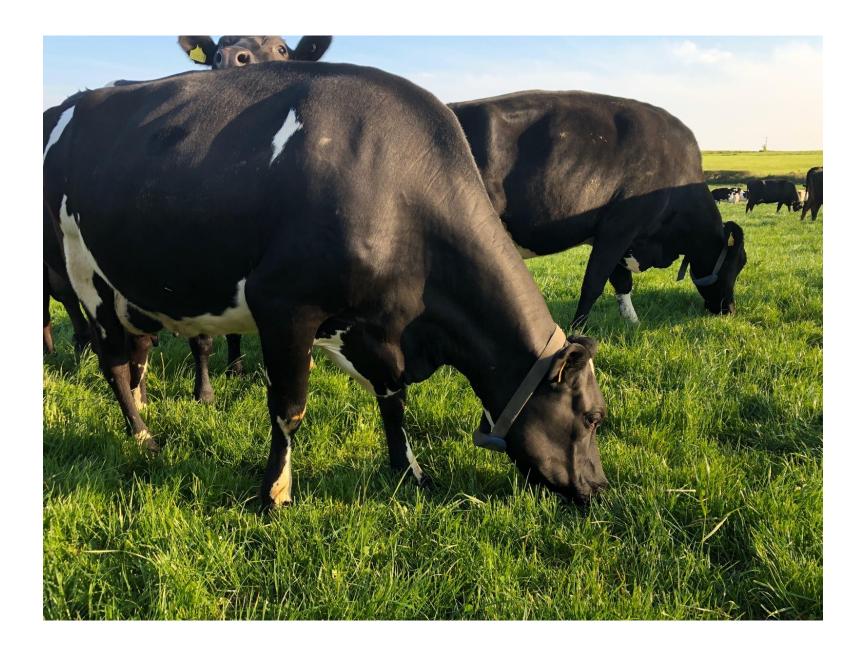




Metricheck - cows clean - just 2 cows positive







Non-cyclers

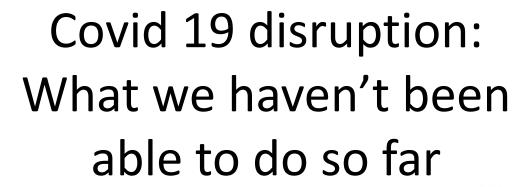


Collars fitted 12th April

– 1 week to stabilize
and then started
recording heats for 4
weeks premating

11 cows without ref heat examined and synchronized with CIDR 1 week before PSM







- Al refresher / troubleshoot
- Physical pre-mating visit for cows, pasture, tracks, management plan

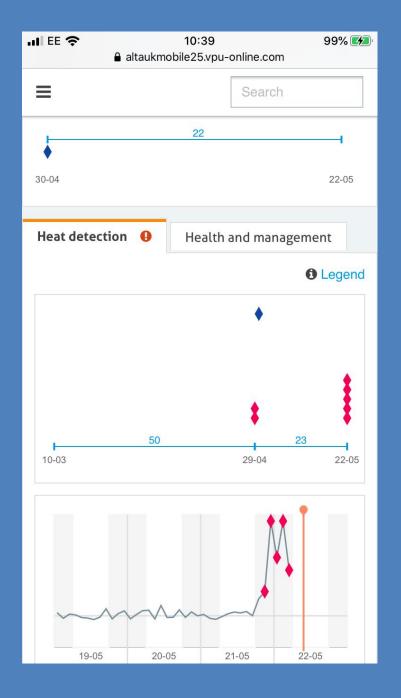
Improving submission rates

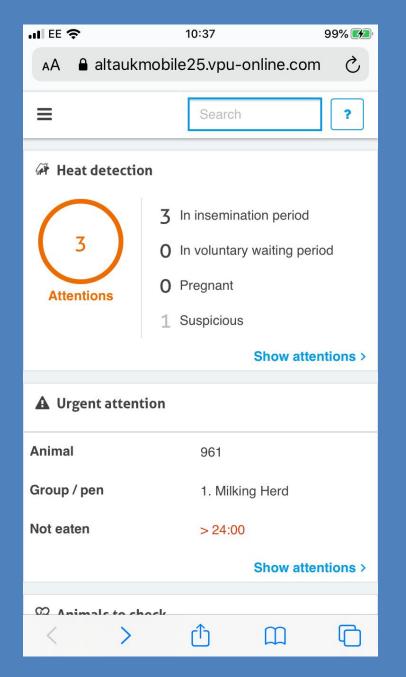


The key to tightening the calving pattern

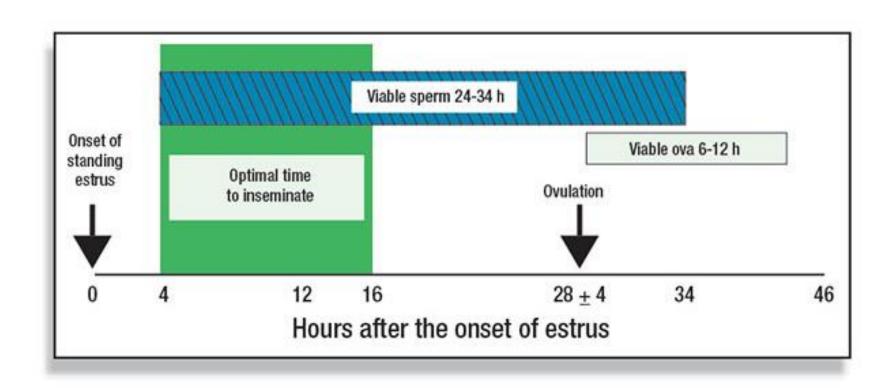








A.I. Timing



This seasons left-field challenge

"PICA"

Probable Phosphorous deficiency but so-far unconfirmed

- Differentials for PICA include
- Salt (sodium) deficiency
- Fibre (Acidosis)
- Parasitism
- Other mineral deficiency (?)
- Behavioural

Seek advice from vet to investigate





Material Type Fresh Grass Variety Additive Lab Report No. L076975 Received Date 15/05/20 Major Minerals (DM Basis) Unit Result High Low Calcium 0.55 % **Phosphorus** 0.24 % Magnesium 0.14 Sodium % 0.19 Potassium % 3.03 Chloride % 1.29 Sulphur 0.33 % CAB meq/kg 293 Trace Elements (DM Basis) 86.9 mg/kg Iron Manganese 80.5 mg/kg Cobalt 0.02 mg/kg Zinc 23.8 mg/kg 0.025 Selenium mg/kg Antagonists (DM Basis) 23.9 Aluminium mg/kg Lead mg/kg 0.17 Molybdenum 0.22 mg/kg Copper (DM Basis) Copper mg/kg 5.9

Nantglas Farm

Dairy Active

Farm





10th May 3rd June



Diolch i chi am wrando.

Thank you for listening.

