

Upcoming Webinars

Wednesday, 27 May

Reducing Lameness in Sheep

Wednesday, 10 June

Incorporating White Clover on
Cattle and Sheep farms

www.teagasc.ie/LetsTalkCattleSheep







Meeting your breeding targets

What are the targets?

Benefits of meeting the targets?

How to achieve these targets?



What are the targets

- 0.95 calf/cow/year
- 365 Day Calving Interval



- 10 12 week calving spread
- Less than 2.5% mortality at birth
- Less than 5% mortality at 28 Days
- 60% of cows calved in first month
- 80% of cows calved in first two months



What are the targets



- Calve heifers at 2 years of age
- Breed replacements to high maternal bulls
- Match calving dates to grass availability





Why – Improve your Breeding Performance

Increase output

Reduce Costs

Increase profitability

Reduce Labour



Compact Calving

Even bunch of stock – easier management

- Calves can be dehorned, wormed, vaccinated and weaned in bigger groups on set dates
- Less risk of disease
- Fewer grazing groups
- Uniform bunch of cattle similar sale weight and can be sold in larger groups
- Heavier more fertile heifers at bulling
- Calves born earlier heavier at weaning



Why – 80% of cows calved in first two months

Date	Age @ Weaning (Days)	Weight @ Weaning	Effect of calving spread on Weaning Weight
1st Feb — 22nd Feb	245	310kg	Avg Weaning Weight 1st 6 weeks 299Kg
22ndFeb-15th Mar	224	287kg	
15 th Mar-5 th April	203	^{263kg} 93k	gs 1st 9 weeks 290Kg 34kg
5th April-26th April	182	240kg	1st 12 weeks 277Kg
26 th April-17 th May	161	217kg	1st 15 weeks 265Kg

ADG 1.1kgs
Birth weight 45kgs
Weaned in October

Need a PLAN



Start Date

Start calving 7th Feb start breeding 1st May

Breeding Date	Calving Due Date
1 st April	8 th January
1 st May	7 th February
1 st June	10 th March
1 st July	9 th April
1 st August	10 th May
1 st September	10 th June



- End date
 - 10-12 weeks after start

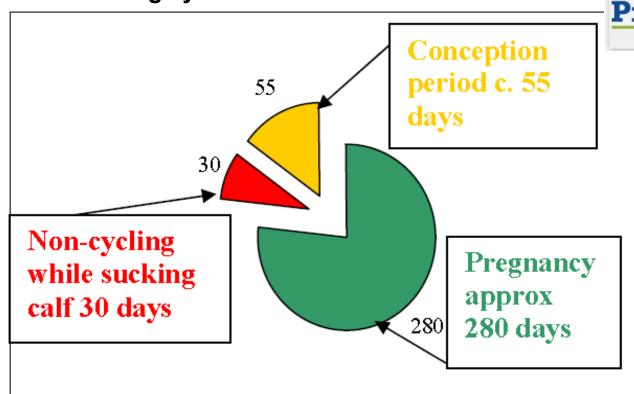
Example Plan:

Year 1 August 1st 2020 Take out Bull	No calves after 11th May 2021
Year 2 July 15th 2021	
Take out Bull	No May born calves 2022
Year 3 July 1st 2022	
Take out Bull	10th April - 2023
Year 4 June 15th 2023	
Take out Bull	24th March - 2024



- Plan for late calving cows
 - Cull Beware of BDGP

Breeding cycle of a cow/heifer









Get the cow/heifer back cycling

- Dependent on:
 - Body condition score of cow aim 2.5 @ mating
 - Plain of nutrition should be increasing
 - Difficult calving's increase anoestrous period
 - Health status BVD, Lepto, salmonella etc.
 - Heifer Effect, 10-15 days longer than cows to come into heat. Bull at start of breeding season
 - Bond between cow and calf



- Restricted Suckling
 - Remove calf from cow after 30 days
 - Suckle twice daily for 2-3 weeks
 - 80% cows will show heat by day 50
- Hormonal intervention Synchronisation



- Plan for replacements
 - Keep your own heavy enough for bulling
 - » 60% mature weight at bulling
 - » Cows 700kg 420kg @ 15 months (A.D.G 0.8kg)

650kg - 390kgs (0.75kg)

800Kg - 480kgs (0.95kg)

- Buy in heifers
- Buy in in-calf cows





Bull

- Ensure he is fit and exercised
- Check his feet
- Ensure he is following and mating cows
- A mature bull can handle up to 40 cows
- Young bull much less, rule of thumb, one cow per month of age
- To reduce pressure mix early and late calving

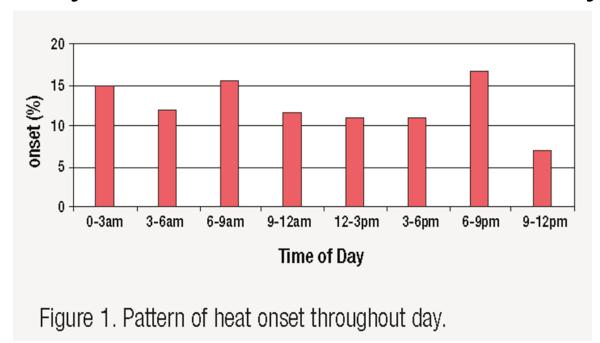
COWS

Rotate the bull



Observation & Record keeping

Check your cows several times a day



Standing heat approx. 8-10hrs

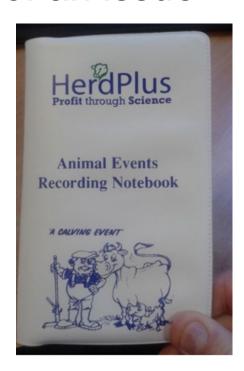
AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

BE VIGILANT

& KEEP RECORDS

Observation & Record keeping

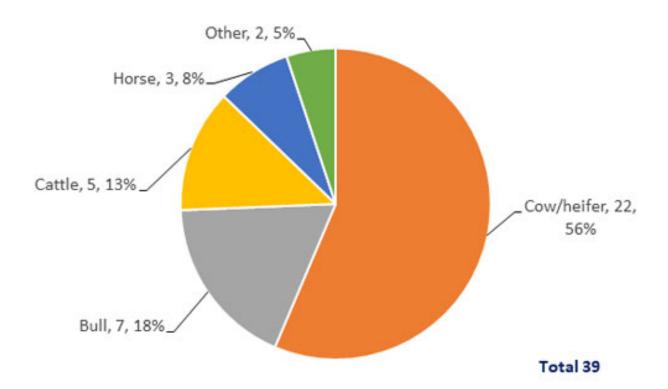
- Watch cows first bulled indicator of an issue
 - Don't wait step in
- Watch for cows not bulling
 - Get them checked
 - Intervene to compact calving
- Can use aids such as tail paint, scratch card





Protect Yourself

Deaths due to livestock 2010-2019 (18% of all Fatalities)





Al

- Obvious advantages
- Heat detection critical
- Standing heat only 8-10 hours

Detection Aids

- Vasectomised bulls with chin-ball
- Tail paint
- Scratch cards
- Heat detection collars







www.teagasc.ie/animals/beef/publications/





Beef Calving Statistics (01/07/2019 --- 30/06/2020)

Call 023-8820452

Herd Owner:

Herd Number:

Print Date: 11/05/2020

Page: 1(3)

(a). Summary Data - Report is based on beef clows that calved between 01/07/2019 and 30/06/2020 (Embryo births excluded)

Spring Calving Dates Start Calving Median Calving¹ Last Calving Calving Period All | 27/01/2020 15/02/2020 24/03/2020 8 weeks + 1 days Cows | 27/01/2020 16/02/2020 24/03/2020 8 weeks + 1 days Heifers | 28/01/2020 06/02/2020 19/03/2020 7 weeks + 2 days

Avg Age Calving (Herd) 4 y 4 m Avg Age Calving (Cows) 5 y 3 m Avg Age Calving (Heifers) 1 y 11n

	All					Heifers			
	Total	Male	Female	'	Total	Male	Female	Eligible Females ² 71	
Total Calves born	73		2.0		21	9	12	Total Beef Calvings 71 Total Beifer Calvings 20	1
Calves Live at Birth	73	37	36		21	9	12	Calves - ve at 28 days 73	
Calves Dead at Birth	0	0	0		ı			C ws p calved 0	
(b). Top 6 Key Perfor	mance l	ndicato	, ,				P 5%	Top 59	6
			_ Y	ou <mark>r H</mark> e	erd 🔫	lat Avg	474 days	358 day	7

(b). Top 6 Key Performance Indicato	(KPIs)		F 5%	Ton 6W
	Your Herd	Nat Avg	474 days	Top 5% 358 day:
Calving Interval (days) Average number of days between successive calvings for cows calved during the period.	366 days	401 days		
			5.4%	0%
2. Mortality - Dead at Birth (%) Number of calves born dead (0) as a proportion of all births during the period.(73)	0%	1%		
			9.7%	0%
3. Mortality - Dead at 28 Days (% Number of calves born dead or dead within 28 days. (0) as a proportion of all births recorded during the period. (73	' U70	2.3%		
			0.56	1.06
4. Calves per Cow per Year Number of calves per cow per year, expressed as a proportion of all eligible females in the herd. (71)	1.03	0.85		
			0%	88%
5. % of Heifers Calved 22-26 Mo of Age The number of heifers calved in the period (20)	nths 100%	22%		
that were between 22 and 26 months of age. (20)				
			8%	100%
6. Spring 6 Week Calving Rate Number of cows calved within the first 6 weeks, as a proportion of (61) all cows calved during the Spring. (71)	86%	52%		



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(a). Summary Data - Report is based on beef clows that calved between 01/07/2019 and 30/06/2020 (Embryo births excluded)

Spring Calving Dates

	Start Calving	Median Calving ¹	Last Calving	Calving Period
All	19/02/2020	12/04/2020	24/04/2020	9 weeks + 2 days
Cows	19/02/2020	12/04/2020	24/04/2020	9 weeks + 2 days
Heifers	n/a	n/a	n/a	n/a

Avg Age Calving (Herd) 7 y 5 m Avg Age Calving (Cows) 7 y 5m Avg Age Calving (Heifers) n/a

		All						Heifers			
		Tota	ĸ	Mal	e	Fe	е		Total	Male	Female
l C 🟒 es l	nom	10		7				-	0	0	0
Live	Sirth	1		7		,			0	0	0
s Dead	t Birth	đ		0		(-	0	0	0

Eligible Females 2 12 Total Beef Calvings 10 Total Heifer Calvings 0 Calves - Live at 28 days 10 Cows not calved 2

			Btm 5%	Top 5%
	Your Herd	Nat Avg	474 days	358 day
Calving Interval (days) Average number of days between successive calvings for cows calved during the period.	410 days	401 days		
			5.4%	0%
Mortality - Dead at Birth (%) Number of calves born dead (0) as a proportion of all births during the period (10)	0%	1%		
			9.7%	0%
3. Mortality - Dead at 28 Days (%) Number of calves born dead or dead within 28 days. (0) as a proportion of all births recorded during the period. (10)	0%	2.3%		
			0.56	1.06
4. Calves per Cow per Year Number of calves per cow per year, expressed as a proportion of all eligible females in the herd. (12)	0.74	0.85		
			0%	88%
5. % of Heifers Calved 22-26 Month of Age The number of heifers calved in the period (0) that were between 22 and 28 months of age. (0)	s n/a	22%		
			8%	100%
6. Spring 6 Week Calving Rate Number of cows cahed within the first 6 weeks, as a proportion of (3)	43%	52%].

Terminal

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Star Rating (within Charolais breed)	Economic Indexes	Purpose	€uro value	Index reliability	Star Rating (across all beef breeds)	
****	Replacement (per daughter lactation)	To breed future cows for the suckler herd	€61	82% (V High)	**☆☆☆	
****	<u>Terminal</u>	Terminal from the suckle	To breed beef animals from the suckler herd that are destined for slaughter	€173	89% (V High)	****
****	Dairy Beef	To breed beef animals from the dairy herd that are destined for slaughter	€18	68% (High)	*****	

Calving Difficulty (births requring considerable assistance; % 3 & 4)						
When Mated With:	Value	Reliability				
Breed avg: 10.97%, All breeds avg: 8.33%	13.6%	76% (High)				
Beef Cows		99%				

Breed avg: 5.73%, All breeds avg: 3.87%

Daughter calving interval (days)

Breed avg: -1.25 days, All breeds avg: -0.76 days

Dairy Heifer **Beef Heifer** Old Dairy Cow **Beef Cow** Star Rating Key profit traits Index valu (within Charolais breed) 0.1% to 2.4% 2.7 2 6.7 5 Expected progeny performance 2.6 2.5% to 3.4% 3.5 8 6.4 Docility (1-5 scale) 0.16 **** Breed avg: 0.04, All breeds avg: 0.01 scale Carcass weight (kg) 3.5% to 4.4% 4.7 7.7 3.2 10.1 **** 46.8kg Breed avg: 33.48kg, All breeds avg: 16.39kg Carcass conformation (1-15 scale) 2.54 **** 4.5% to 6.0% 6.7 4.2 9.5 13.2 Breed avg: 1.88, All breeds avg: 1.40 scale Expected daughter breeding performa 6.1% to 7.3% 8.5 5.5 15.9 11.3 Daughter calving difficulty (% 3 & 4) 3.27% Breed avg: 4.67%, All breeds avg: 5.40% >=7.4% 18.1 9.8 7.9 14.6 Daughter milk (kg) **** -7.10kg Breed avg: -3.77kg, All breeds avg: 2.29kg U

59%

(Average)

* 育育育育

 $\mathbf{A}_{\mathrm{GRICULTURE\ AND\ }}\mathbf{F}_{\mathrm{OOD\ }}\mathbf{D}_{\mathrm{EVELOPMENT\ }}\mathbf{A}_{\mathrm{UTHORITY\ }}$

1.85days

Replacement

Star Rating (within Simmental breed)	Economic Indexes	Purpose	€uro value	Index reliability	Star Rating (across all beef breeds)
****	Replacement (per daughter lactation)	To breed future cows for the suckler herd	€213	87% (V High)	****
****	<u>Terminal</u>	To breed beef animals from the suckler herd that are destined for slaughter	€100	96% (V High)	***
****	Dairy Beef	To breed beef animals from the dairy herd that are destined for slaughter	€52	92% (V High)	****

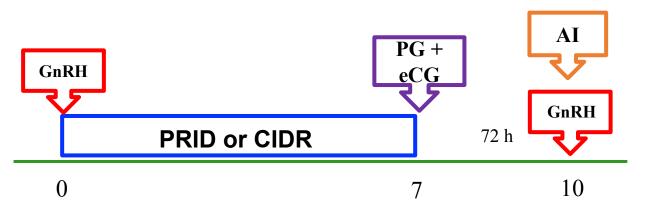
Calving Difficulty (births requring considerable assistance; % 3 & 4)							
When Mated With:	Value	Reliability					
Beef Heifers Breed avg: 9.19%, All breeds avg: 8.33%	9.1%	96% (V High)					
Beef Cows Breed avg: 3.64%, All breeds avg: 3.87%	3.6%	99% (V High)					

Star Rating (within Simmental breed)	Key profit traits	Index value	Trait reliability	Star Rating (across all beef breeds)
	Expected progeny	performance		
****	Docility (1-5 scale) Breed avg: 0.05, All breeds avg: 0.01	0.09 scale	99% (V High)	****
****	Carcass weight (kg) Breed avg: 21.85kg, All breeds avg: 16.39kg	25.5kg	99% (V High)	****
****	Carcass conformation (1-15 scale) Breed svg: 1.37, All breeds svg: 1.40	1.66 scale	99% (V High)	****
	Expected daughter bree	ding performance		
	Daughter calving difficulty (% 3 & 4) Breed avg: 5.45%, All breeds avg: 5.40%	5.36%	82% (V High)	
★ 育育育育	Daughter milk (kg) Breed avg: 8.18kg, All breeds avg: 2.29kg	4.80kg	93% (V High)	****
****	Daughter calving interval (days) Breed avg: 0.13 days, All breeds avg: -0.76 days	-7.08days	62% (High)	****



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Figure 1. Recommended TAI protocol for beef cows



Duration of the programme (days)

GNRH Gonadotropin releasing hormone (e.g. Ovarelin, Receptal, Acegon)
PG Prostaglandin (e.g. Enzaprost, Estrumate, Lutalyse)
eCG PMSG





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