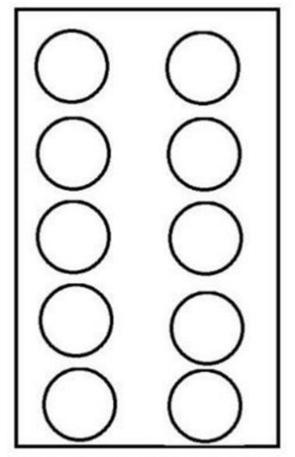




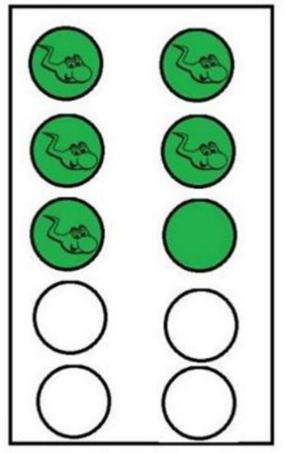
Fertility can be affected by many different Management factors. Get one factor wrong and you will "pay".



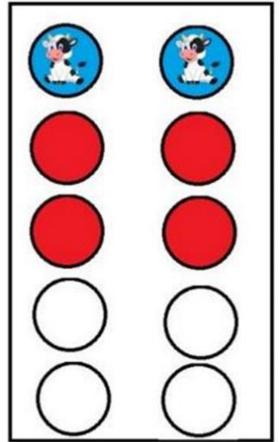
## Pregnancy Rate



In 21 days you have 10 cows Eligible to breed



You spotted 6 on heat (heat detection=60% (6/10) You Inseminate 5 Insemination Rate=50% (5/10)



Two cows fall pregnant: Conception Rate=2/5= 40%. Pregnancy Rate= Al Rate x Concep. Rate= 20%

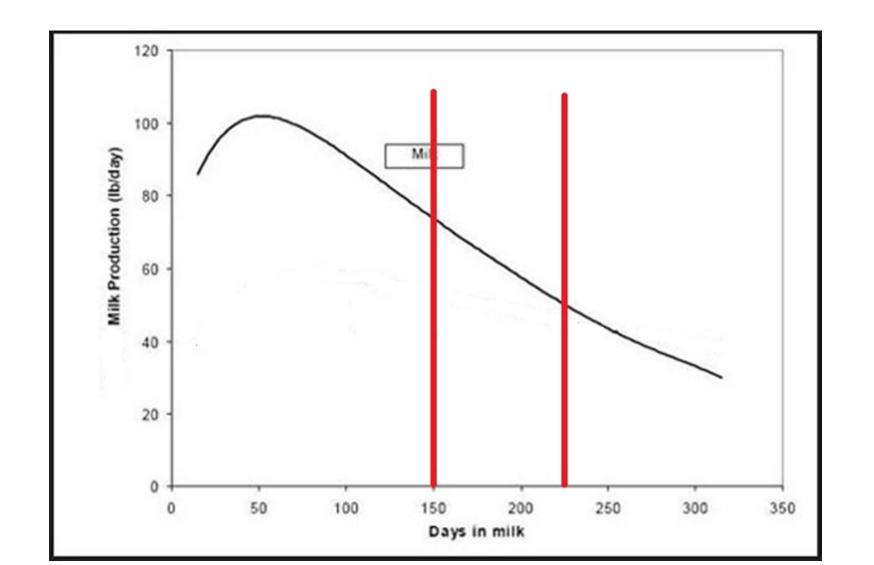


# Pregnancy Rate

Period		Heat Detec	tion		Pregnancy Rate		
Start Date End Date	Eligib	le Detecte	ed HDR %	6 Eligible	Pregnai	nt PR%	
11/12/2020 - 31/12/2020	125	75	60%	139	25	18%	
01/01/2021 - 21/01/2021	135	101	75%	147	29	20%	
22/01/2021 - 11/02/2021	136	79	58%	148	12	8%	
12/02/2021 - 04/03/2021	160	108	68%	172	25	15%	
05/03/2021 - 25/03/2021	174	123	71%	185	39	21%	
26/03/2021 - 15/04/2021	171	124	73%	182	48	26%	
16/04/2021 - 06/05/2021	160	114	71%	166	38	23%	
07/05/2021 - 27/05/2021	165	137	83%	170	41	24%	
28/05/2021 - 17/06/2021	152	121	80%	155	38	25%	
18/06/2021 - 08/07/2021	135	108	80%	138	35	25%	
09/07/2021 - 29/07/2021	149	115	77%	150	23	15%	
	1662	1205	73%	1752	353	20%	



# Average Days in Milk



The Lower we can get our "Average Days in Milk" the more on average we produce per cow per day.

**10 Days = 1 Litre** 



# **Fertility Summary**

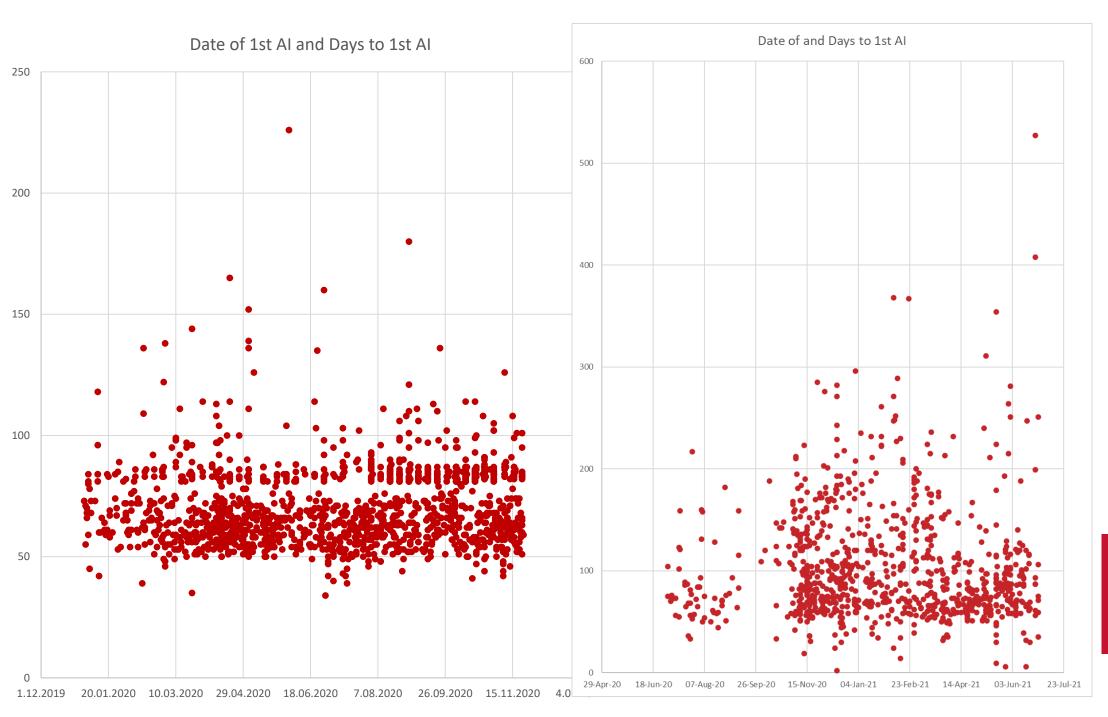
Description	Value	Percentage%
Total # Cows	1208	100%
Total # Heifers	827	68%
Currently in Milk	1005	83%
Average Days In Milk	151	
Average ICP	384.0	
Average Days Open	104.0	
% Cows Pregnant	53.6%	
Cow Pregnancy Rate	23.0%	
Cow Heat detection Rate	50.0%	
VWP	50	

# 1 Open day can = \$4

Description	Value	Percentage%
Total # Cows	1358	100%
Total # Heifers	815	60%
Currently in Milk	1190	88%
Average Days In Milk	191	
Average ICP	409.3	
Average Days Open	129.3	
% Cows Pregnant	36.5%	
Cow Pregnancy Rate	17.0%	
Cow Heat detection Rate	67.0%	
VWP	45	

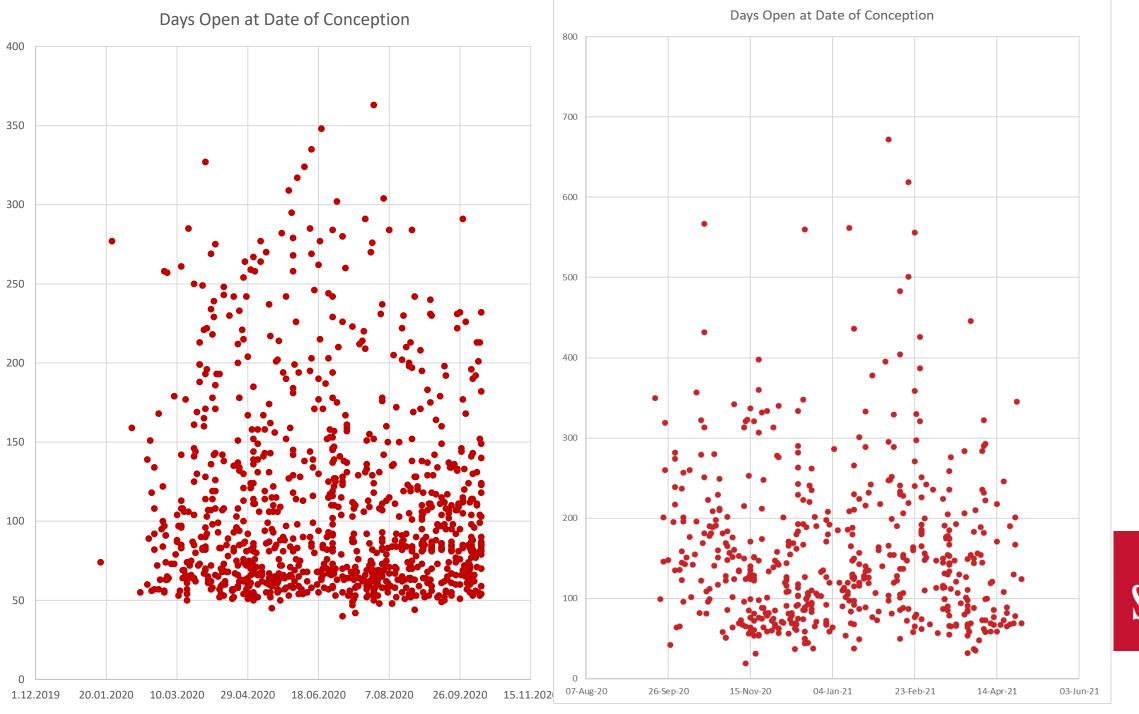














# Straws in Relation to Pregnancies:

Description	# Animals	%	#AI	Days Open
Total	489	100%	2.1	130.9
1 AI to get in calf	241	49%	1	90.8
2 AI to get in calf	116	24%	2	134.6
3 AI to get in calf	64	13%	3	172.8
4 AI to get in calf	36	7%	4	188.0
5 AI to get in calf	5	1%	5	280.6
6 + AI to get in calf	27	6%	7.1	269.5
In Calf Over 200 DIM	59	12%	5.0	271.4
In Calf Below 200 DIM	430	88%	1.7	111.6

Description	# Animals	%	#AI	Days Open
Total	426	100%	4.2	176.1
1 AI to get in calf	123	29%	1	81.8
2 AI to get in calf	70	16%	2	99.8
3 AI to get in calf	56	13%	3	144.4
4 AI to get in calf	36	8%	4	151.0
5 AI to get in calf	23	5%	5	218.3
6 + AI to get in calf	118	28%	9.2	334.0
In Calf Over 200 DIM	142	33%	8.2	326.4
In Calf Below 200 DIM	284	67%	2.2	100.9

"Manage your herd on distribution rather than averages"



#### Mark Cows for Cull:

Description	# Animals	%	#AI	DIM
Total	499	100%	2.3	131.2
O AI s	300	60%	0	41.3
1 AI s	25	5%	1	142.3
2 AI s	17	3%	2	160.4
3 AI s	39	8%	3	172.4
4 AI s	29	6%	4	191.4
5 AI s	14	3%	5	242.8
6 + AI s	75	15%	10.6	413.3
150 DIM NIC	157	31%	6.7	306.3
% cows below VWP	149		15.3%	

75 cows use 795 straws of semen and are not Pregnant

Description	# Animals	%	#AI	DIM
Total	50	100%	6.8	366.5
O AI s	9	18%	0	146.9
1 AI s	1	2%	1	160.0
2 AI s	4	8%	2	254.3
3 AI s	3	6%	3	250.3
4 AI s	4	8%	4	313.3
5 AI s	1	2%	5	396.0
6 + AI s	28	56%	10.8	479.6
% Cull of Total Herd			5.1%	



## Lactation Fertility Performance:

	Tot	tal Herd		Pregnant
#Lactations	# Cows	% of Herd	#AI	Days Open
1	370	31%	1.9	98.1
2	255	21%	2.3	105.3
3	235	19%	2.1	101.5
4+	348	29%	2.4	112.8
Averages	1208	100%	2.14	104

We always want our 1<sup>st</sup> Calvers to have the best fertility figures and fertility to regress gradually as cows get older



#### Heifer Mortalities Paint a Picture:

Year Born	Estimated to have been born	Still Alive	Alive	Mortality
2018	129	116	89.9%	10.1%
2019	155	139	89.7%	10.3%
2020	166	164	98.8%	1.2%
2021	70	69	98.6%	1.4%
Average of last 3 years	391	372	95.1%	4.9%

Year Born	Estimated to have been born	Still Alive	Alive	Mortality
2018	300	182	60.7%	39.3%
2019	245	201	82.0%	18.0%
2020	295	214	72.5%	27.5%
2021	178	152	85.4%	14.6%
Average of last 3 years	718	567	79.0%	21.0%

Farms with low mortalities often will have better fertility, better 1<sup>st</sup> lactation production and can save money on heifer rearing.



# Heifer Fertility:

Description	# Animals	%	Age @ Conc(M)	Calving down Age	#Ins
Total	484	100%	14.90	24.08	1.42
1 Insemination to Conceive	350	72%	14.45	23.63	1
2 Inseminations to Conceive	89	18%	15.72	24.90	2
3 Inseminations to Conceive	29	6%	16.38	25.56	3
4+ Inseminations to Conceive	16	3%	17.50	26.68	4.56

Description	# Animals	%	Age @ Conc(M)	Calving down Age	#Ins
Total	92	100%	21.19	30.37	1.75
1 Insemination to Conceive	42	46%	20.66	29.84	1
2 Inseminations to Conceive	33	36%	21.17	30.35	2
3 Inseminations to Conceive	16	17%	22.34	31.52	3
4+ Inseminations to Conceive	1	1%	25.79	34.97	5.00

We would like to see age at 1st calving as close to 24 months as possible but ensure heifers are at 85% of mature cow weight when calving.



# Monitor Bull Fertility:

Period		30-Dec-20	to	30-Apr-21
Bull Name	# Heifers	Heifers CR	# Cows	Cows CR
Moonbeam			125	56%
Butterfly			300(58)	48%
Haroldo			98(15)	43%
Bloomfield			567(90)	42%
Mookie			518(56)	40%
Lottomax			186	38%
Bouncer			90	30%
Petrone			54	28%

Period		5-May-21	to	16-Jul-21
Bull	# Heifers	Heifers CR	# Cows	Cows CR
DEFINITE			136	31%
BULL			85	35%
PULLMAN			285	24%
BUTTERFLY	102	56%	210	16%
LOGO	35	46%	40	15%



Make sure bulls are compared over the same period, I like 4 months.

# Inseminator Fertility:

Period		5-May-21	to	16-Jul-21
Inseminator Name	# Heifers	Heifers CR	# Cows	Cows CR
ZAMO	195	44%	416	15%
JOSEPH	60	63%	522	32%
ZWELITINI			45	18%
MLU			39	18%

Period		6-Nov-20	to	6-Mar-21
Inseminator Name	# Heifers	Heifers CR	# Cows	Cows CR
Loyiso			38	42%
Madondo			140	43%
Wiseman			102	41%

Period		15-May-21	to	15-Sep-21
Inseminator Name	# Heifers	Heifers CR	# Cows	Cows CR
Loyiso			45	47%
Derek Cameron			27	33%
Madondo			219	41%
Wiseman			196	20%





