

SYNCHRONISATION FOR MAIDEN HEIFERS

Select the most appropriate synchronisation option based on time available for heat detection, location of heifers and ability to accurately detect heats in heifers.

OPTION 1 COST EFFECTIVE REGIME. MAIDEN HEIFERS - AI AT OBSERVED HEAT. 12 DAY HEAT DETECTION		
Monday 27 th April	Day 0 - Day 6	AI on observed heat - should have 1/3 detected at end of week.
Mon 4 th or Tues 5 th or Wed 6 th or Thur 7 th May	Day 6 or Day 7 or Day 8 or Day 9	PG to heifers not detected in heat. Only inject if 1/3 bred-otherwise investigate
Wed 6 th to Mon 11 th May	Day 7 - Day 12	AI on detected heat. Majority on 48-72 hours post PG injection

This is a cost-effective synchronization regime and achieves high conception rates. There is a requirement for 12 days heat detection to get all the heifers bred once.

Heat detect and AI for the 1st week, should have 1/3 bred. At the end of the week if close to a 1/3 of the heifers are not detected and served in the 1st week avoid injecting with PG and investigate what is the issue. The heifers may not be observed cycling because they are: under target weight (340kg), intakes have reduced (change in diet), they are pregnant or there may be an issue with heat detection.

Following PG injection ensure you are available for heat detection and drafting for AI 48-72 hours after PG injection. You can decide to inject on day 6, 7, 8 or 9 depending on your availability 48-72 hours later. Depending on the size of the group if more than 3 heifers are expected to be in heat each day, remove the vasectomised bull for this period (2-4 days) to avoid injury to the vasectomised bull. Scratch cards or paint sticks are a useful alternative for this period.

Any heifer not detected in heat may be reinjected 11 days after the 1st PG injection- 1st injection on Monday 4th May give the second injection on Fri 15th May.

If releasing a bull after one round of AI, watch carefully for repeats to ensure he is not overworked in those 2-4 days, if more than 2 repeats per day are expected use AI. An overworked bull will result in reduced fertility and an injured bull.

Estimated cost is €3-4 per heifer (€5 -7 per heifer treated)

OPTION 2 COST EFFECTIVE REGIME. MAIDEN HEIFERS - FIXED TIMED AI AT A PREDETERMINED TIME. NO HEAT DETECTION. 3 HANDLINGS IN THE CRUSH			
Monday 27 th April	2-3 PM	Day 0	Insert PRID or CIDR
Saturday 2 nd May	2-3 PM	Day 5	Inject PG and remove PRID or CIDR
Tuesday 5 th May	2-3 PM	Day 8	Inject GnRH and fixed timed AI (72 hours after PG injection)

Extremely useful options for herdowners with limited time for heat detection or where heifers are in an outside

place. Talk to your AI technician before commencing this programme to guarantee their availability on the required day. All heifers bred once with no heat detection required. However a number of heifers may show early heats on Monday 4th May. There may be benefit in inseminating them then.

If you wish you can let bulls run with them for 17 days (Wed 6th to Fri 22nd May). Remove the bulls and apply heat detection aids on day 17 Wed 29th April. Most repeats occur over 4 days. This allows you to achieve two services per heifer if required with 4 days heat detection and should result in 90-95% of the heifers incalf.

AI repeats day 18 to 24 (Sat 23rd to Fri 29th May). A l'ing the repeats ensures that the bulls are not overworked, fertility is maximised, and it avoids bulls getting injured ensuring we will have them when we need them.

Or apply heat detection aids let the bulls with them and watch for repeats and if there are more than 2 repeats per bull per day use insemination for 2-4 days.

Estimated cost is €20-24 per heifer.

OPTION 3 MAIDEN HEIFERS - MAXIMISE PREGNANCY RATES FIXED TIMED AI AT A PREDETERMINED TIME. NO HEAT DETECTION. 4 HANDLINGS IN THE CRUSH			
Monday 27 th April	2-3 PM	Day 0	Insert PRID or CIDR & Inject GnRH
Saturday 2 nd May	2-3 PM	Day 5	Inject PG
Sunday 3 rd May	2-3 PM	Day 6	Inject PG and remove PRID or CIDR
Tuesday 5 th May	2-3 PM	Day 8	Inject GnRH and fixed timed AI (72 hours after 1st PG injection)

Extremely useful options for herdowners with limited time for heat detection. Talk to your AI technician before commencing this programme to guarantee their availability on the required day. The advantage of this programme over option 2 is that early heats are eliminated on 4th May and you may achieve an increased conception rate.

This option is suitable for use with sexed semen as it overcomes any issue with timing of AI, early heats are practically eliminated and it ensures synchrony of heifers regardless of their stage of cycle.

Estimated cost €30-€32 per heifer.

SYNCHRONIZATION DRUGS		
PG	GnRH	P4 device
Estrumate	Receptal	CIDR
Lutalyse	Ovarelin	PRID
Enzaprost	Acegon	
Alfaglandin	Busol	

All the drugs are POM and are available from your veterinary practitioner. Zero milk withdrawal on all these products.

SYNCHRONISATION FOR DAIRY COWS

SYNCHRONISATION FOR DAIRY COWS FIXED TIMED AI AT A PREDETERMINED TIME. NO HEAT DETECTION

Monday 27 th April	AM	Day 0	Insert PRID or CIDR and inject GnRH
Monday 4 th May	AM	Day 7	Inject PG & Remove PRID/CIDR
Wed 6 th May	PM	Day 9	Inject GnRH (56 hours post PG)
Thur 7 th May	AM to noon	Day 10	AI all cows (16 - 20 hours post GnRH)

- Ideal for herds that wish to tighten and advance the mean calving date & maximises pregnancy rates as 100% submission is achieved.
- Superb for late calvers ensure cows calved 35 days, BCS of 2.75+ and Intakes are maximised.
- Suitable for sexed semen - overcomes issue of timing of AI and maximizes conception rates.

SYNCHRONISATION FOR MAIDEN HEIFERS

OPTION 1

COST EFFECTIVE REGIME. MAIDEN HEIFERS - AI AT OBSERVED HEAT. 12 DAY HEAT DETECTION

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Mon 4 th or Tues 5 th or Wed 6 th or Thur 7 th May	Day 6 or Day 7 or Day 8 or Day 9	PG to heifers not detected in heat. Only inject if 1/3 bred - otherwise investigate
Wed 6 th to Mon 11 th May	Day 7 - Day 12	AI on detected heat. Majority on 48-72 hours post PG injection

- If 1/3 of the heifers are not bred in the 1st week avoid injecting with PG as the heifers are not cycling- due to their weight, plane of nutrition, pregnancy or heat detection.
- For those that are not observed- reinject PG 11 days after the 1st injection. (1st injection Mon 4th May then 2nd Injection Fri 15th May).
- If releasing a bull after AI, watch carefully for the repeats to ensure he is not overworked. Prudent to use AI for those 2-4 days.

OPTION 2

COST EFFECTIVE REGIME. MAIDEN HEIFERS - FIXED TIMED AI AT A PREDETERMINED TIME. NO HEAT DETECTION. 3 HANDLINGS IN THE CRUSH

Monday 27 th April	2-3 PM	Day 0	Insert PRID or CIDR
Saturday 2 nd May	2-3 PM	Day 5	Inject PG and remove PRID or CIDR
Tuesday 5 th May	2-3 PM	Day 8	Inject GnRH and fixed timed AI (72 hours after PG injection)

- May get 10-15% early heats on Monday that can be inseminated.
- This regime allows you to inseminate all heifers with 3 handlings.
- Then you can let bulls run with them for 17 days (Wed 6th to Fri 22nd May) - remove the bulls and AI repeats day 18 to 24 (Sat 23rd to Fri 29th May).
- AI'ing the repeats ensures that the bulls are not overworked, avoids bulls getting injured ensuring we will have them when we need them.

OPTION 3

MAIDEN HEIFERS - MAXIMISE PREGNANCY RATES FIXED TIMED AI AT A PREDETERMINED TIME. NO HEAT DETECTION. 4 HANDLINGS IN THE CRUSH

Monday 27 th April	2-3 PM	Day 0	Insert PRID or CIDR & Inject GnRH
Saturday 2 nd May	2-3 PM	Day 5	Inject PG
Sunday 3 rd May	2-3 PM	Day 6	Inject PG and remove PRID or CIDR
Tuesday 5 th May	2-3 PM	Day 8	Inject GnRH and fixed timed AI (72 hours after 1st PG injection)

- This regime allows you to inseminate all heifers with 4 handlings and all are AI'd at a fixed time - No heat detection until the repeats.
- Then you can let bulls run with them for 17 days (Wed 6th to Fri 22nd May) - remove the bulls and AI repeats day 18 to 24 (Sat 23rd to Fri 29th May).
- AI'ing the repeats ensures that the bulls are not overworked, avoids bulls getting injured ensuring we will have them when we need them.
- Suitable for sexed semen - overcomes issue of timing of AI and maximizes conception rates.

Consult with your Vet to ensure you are on the most appropriate programme and with your AI technician to ensure his availability before commencing any synchronisation programme