Field Trial: NH_FT_B03-02
Location: Crescent Harbor Ranch,
Oak Harbor, WA
Genetics: Wagyu

Table 1. Recipient Cows Average Conception History.

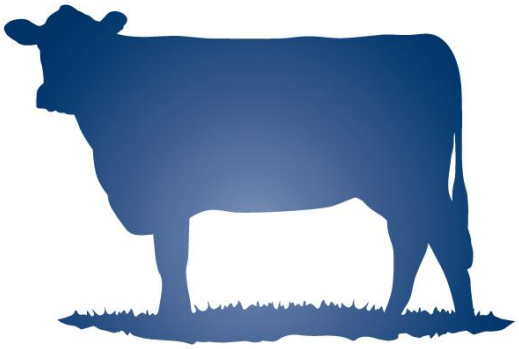
Flush History	**Before**	**After**
Number of Cows	*Data From 99 Flushes (2008)*	*38 Recipient Cows (2009)*
Average Fresh Embryo Conception Rate	65%*	75%
Average Frozen Embryo Conception Rate	50%**	--***

*Includes Fresh Grade 3, Grade 2 and if enough available recips, some Grade 1 Embryos.
** All Frozen Embryos Implanted were Quality Grade 1.
***No frozen data was tracked to this point.

Table 2. Current Flush Stats Since Implementing Livestock Stress Stable.

Date	Cow	No. Grade 1	No. Grade 2	Total Transferable Embryos	% Grade One Embryos
06/04/09	55	12	2	14	86%
06/04/09	45	7	0	7	100%
06/04/09	50	9	2	11	82%
06/04/09	189	17	2	19	89%
08/06/09	193	15	2	17	88%
08/06/09	8	12	2	14	86%
08/06/09	43	5	1	6	83%
08/06/09	195	4	1	5	80%

Conclusions: Conception rate has improved and the total number of transferable embryos and quality grade has improved since implementing Ramaekers Nutrition Livestock Stress Stable.



Feeding Instructions:

Donor Cows:

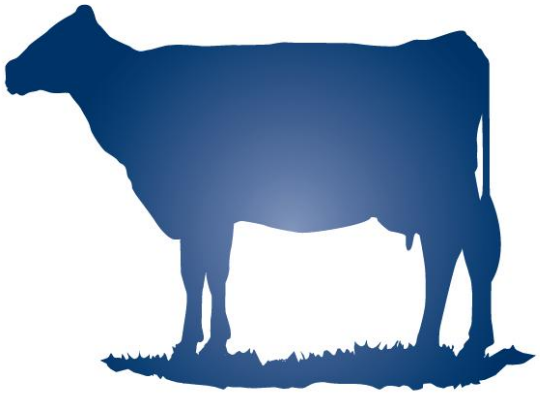
Opt 1: Feed **2 capsules** on Day 15, 11, and 10, prior to flush

Opt 2: Feed **2 capsules** on day of CIDR Implant, and the **first two consecutive days** of FSH injections.

Recipient Cows:

Opt 1: Feed **2 capsules** on day 10, 16, 17, prior to embryo transfer, and **2 capsules** on day of embryo transfer.

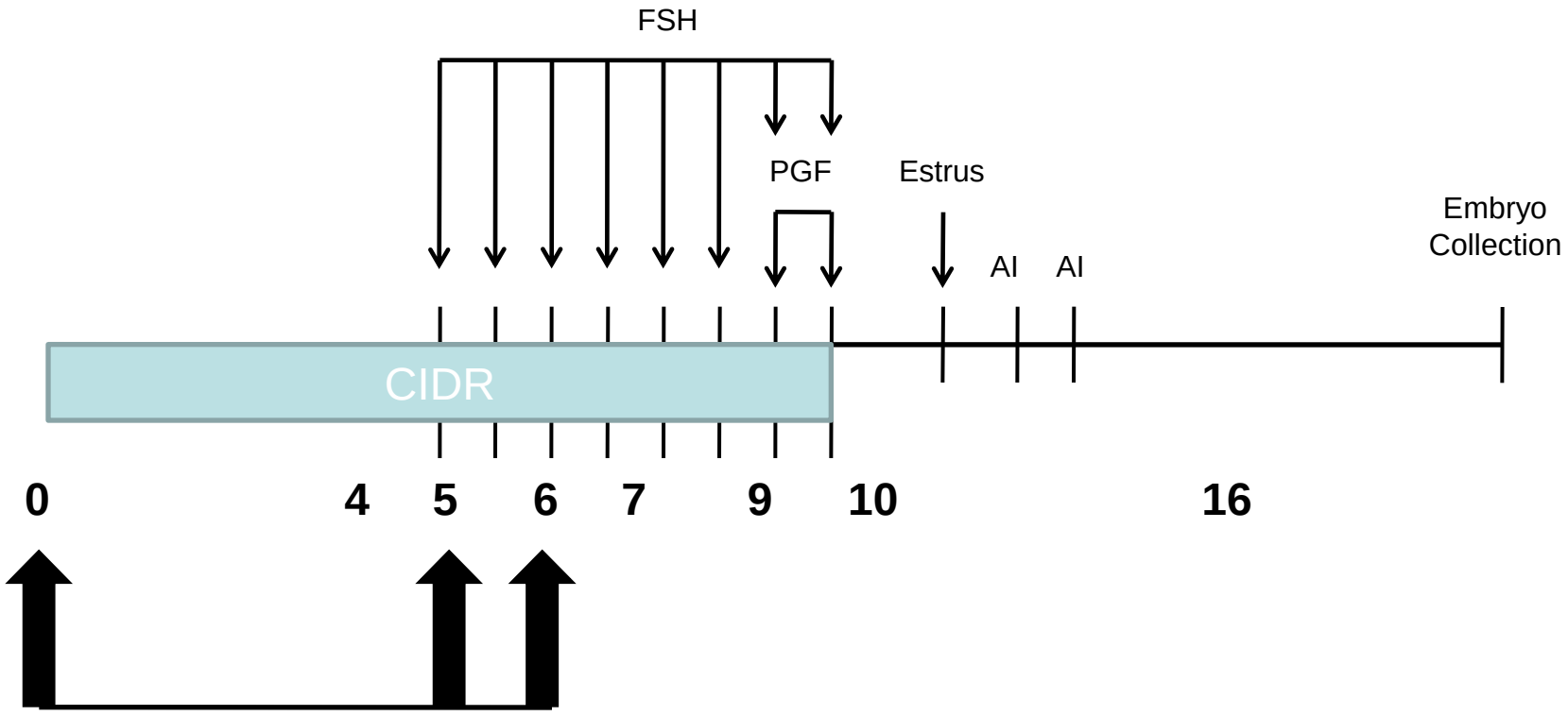
Opt 2: Feed **2 capsules** on GnRH injection day, the day following GnRH injection, $PGF_{2\alpha}$, injection day and on day of embryo transfer.



General Immune Support:

Feed **2 capsules** on day 1, 2, and 12, as needed before, during or after shipping, or during stressful events.

Donor schedule with a CIDR



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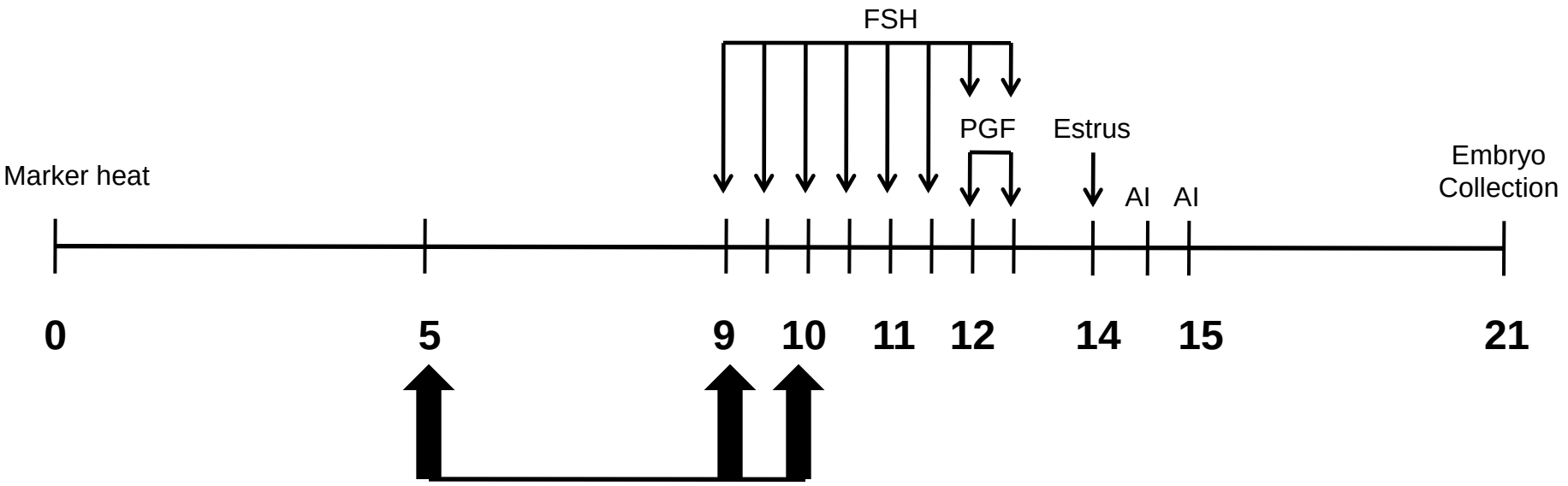
Donor schedule with a marker heat



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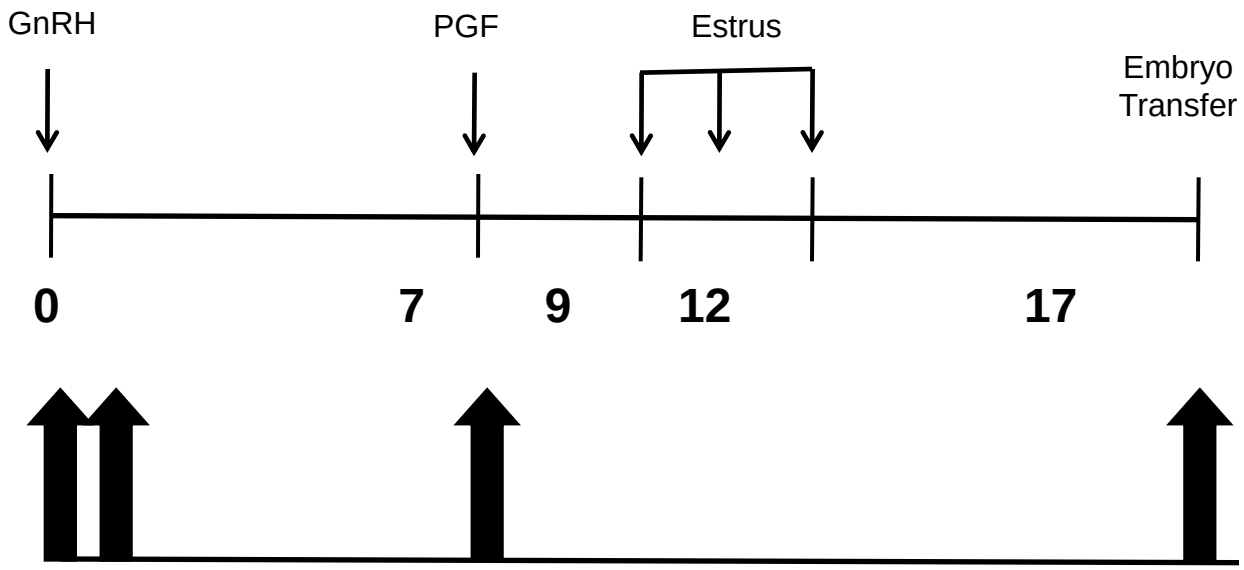
Recipient schedule after estrus synch with CO-Synch/Ovsynch



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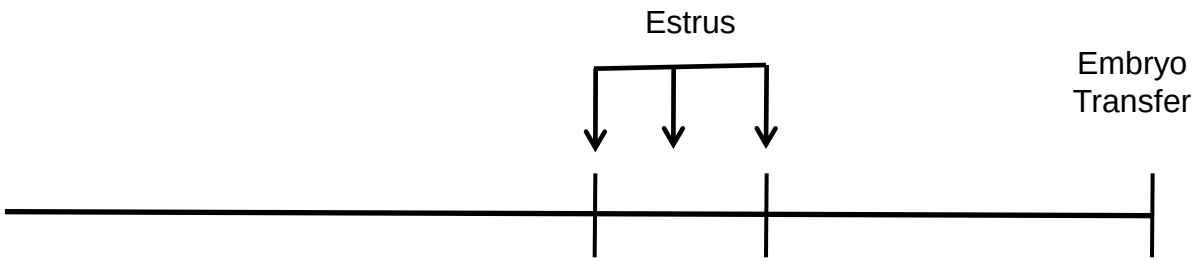
Alternative, Cost Effective Recipient Schedule after Natural Heat



Ramaekers Nutrition
Livestock Stress Stable

Data from the University of Florida (Marquezini, 2009) showed the quality of transferable embryos was improved after embryo donor cows received Livestock Stress Stable formula prior to embryo collection.

	LSSS	Control	SEM	Pr.>F
No. of Donors	35	37		
Total Embryos/ova, no.	15.0	12.4	1.795	0.295
Transferable Embryos, no.	5.2	4.5	1.087	0.635
Grade 1 Transferable Embryos, %	39.4^{v}	23.4^{w}	6.377	0.062
Grade 2 Transferable Embryos, %	59.9^{x}	76.6^{y}	6.335	0.049

^{vw} Percentages differ (P=0.06).
^{xy} Percentages differ (P<0.05).

(Marquezini, 2009)