Missouri Dairy Growth Council's Dairy Cattle Reproductive Manual



February 2009



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Chapter 1

Introduction

What is a cow's job? Think of her as your employee. You provide her with housing, food & water, health benefits, etc. In return she comes to the parlor 2-3 times per day to be milked. During her time in the parlor she "works" for approximately 15 minutes. You provide for her needs and in return she "works" for 30 to 45 minutes a day. Her work is to produce high quality milk.

How does she produce high quality milk? Initially, a heifer must have a calf. At the end of gestation there is an increase in prolactin and uterine lactogenic hormones that stimulate mammary development. In subsequent years the process is repeated with each pregnancy. So, the cows must become pregnant to stimulate mammary development.

Similarly, we know that the most productive time of the lactation is during peak milk. That period occurs sometime between 30-150 days in milk (DIM). The more time a cows spends during this part of her lactation during her lifetime, the more profit she will generate. The dairyman needs to maximize this time.

Therefore, to maximize profit, cows need to become pregnant on a regular basis. To accomplish getting a cow pregnant on a consistent basis, the reproductive program of a farm needs to be a high priority. The reproductive program must also be relatively easy to implement. In this booklet you will find a practical way to improve your herd.

Improvement can be measured in a variety of ways, including days open, days to first service, calving interval, etc. However, a relatively new way of examining a herd's reproductive performance includes HEAT DETECTION RATE (HDR) and PREGNANCY RATE (PR). National average, from various databases, for HDR and PR are 35% and 14%, respectively. Herds that are in the top 10% for these parameters will have rates of greater than 60% and 20%. From experience, herds that attain greater than 20% pregnancy rates will ultimately have excess heifers waiting to come into the herd! It creates a new area on the farm to generate more profit.

Let's say there is pen with 100 cows in it and today they are all 60 days in milk (DIM). The farm has decided on 60 DIM as their voluntary waiting period, so all 100 cows are eligible to be bred. Over the next 21 days 35 of the 100 cows are bred. Therefore, the HDR is 35/100 or 35%. Subsequently, 14 of the 35 cows that were bred become pregnant. Now, 14/35 or 40% is the conception rate. However, for pregnancy rate you want to divide 14 by the 100 eligible cows or 14%.

The definition of HDR and PR follows:

HDR = # of cows bred / # of cows eligible to be bred for each 21 day period during a year

PR = # of cows pregnant / # of cows eligible to become pregnant for each 21 day period during a year

Thus, actually PR incorporates HDR and conception rate. PR equals HDR times conception rate. If you do not have a software program that figures PR for you, you can use your DHI reports. It will give you the % of heat observed (equivalent to HDR). You then can multiply this by your conception rate and get a crude estimate of PR.

There have been several articles discussing the decline of fertility in dairy cattle. This especially pertains to the lactating cow. There are several reasons for this decline, including inbreeding, increased production, time management on the farm, nutrition, etc. We do know that as a cow increases her production, two effects on her estrus expression occur. Those two effects are a decreased time in estrus and a decreased intensity of estrus expression. A cow producing 100# of milk will only spend approximately 6 hours in heat rather than the usual 18 hours (more typical of a beef cow) that we have learned. On top of that, she will make far fewer mounts than a lower producing cow. All this leads to a more difficult time for the producer to find the cow in heat.

However, the conception rate among heifers has not declined to near the extent that it has in the milking herd. So there is potential to reverse this trend of poor fertility. There has been increased emphasis on sire selection for increased fertility using daughter pregnancy rate (DPR) and services per conception (SCR). Along the same lines crossbreeding has gained some favor among producers. It is well known that the beef crossbred cows tend to be more fertile than a straightbred. There is now data indicating the same in dairy cattle. Also, the use of estrus synchronization has allowed producers to get more cows pregnant and subsequently start to put some selection pressure on fertility within their herds.

The increase in the number of pregnant cows leads to the opportunity to do more voluntary culling and/or selling of excess breeding stock. There are several ways to economically evaluate better reproduction. An increase in days open can be valued at between \$0.50-4.50 per day, a pregnant cow is worth \$250 to 600 more than an open cow, or each % point increase in PR is equal to roughly \$35 per cow. This last estimate is the basis for the reproductive calculator that is included with this booklet.

Unfortunately, no one is going to give you a bonus check for being successful in getting cows pregnant. However, with time and patience, the increase in the number of pregnant cows will allow the producer to voluntarily get rid of low producers, chronic problem cows, high somatic cell count cows, and poor fertility animals. Likewise, producers that are attaining success with their reproductive programs are now able to merchandise excess bred heifers, which is a great addition to the cash flow of the farm.

Chapter 2 Economics of Reproduction

Five ways to "Find 80 cents a Cow each day" Mike Hutjens

- Boost Components
- Long Day Lighting
- Fewer Days Open
- Higher Pregnancy Rates
- Extra Milking

2 out of 5 suggestions pertain to Reproduction

What is the added value of a Pregnancy?

• A pregnancy is worth \$200-500



What is the cost of an extra day open?

 \$0.42 to \$4.95 a day for a day open after 110 DIM.

For examples let's use:

\$2.50/day



What is your average Days Open?

- 336 Herds on DHIA in Missouri
- Average 184 days open
- Range from 84 to 358 days open
- National Average 165.8

What is your average Days Open?

- 184-165=19
- 19*2.5=47.5

\$47.5 lost due to excessive days open per cow in the herd vs national average

What is the cost of poor reproduction?

 \$35 per cow in the herd for each % point increase in Pregnancy Rate

What is **Pregnancy Rate**?

•100 cows



How many were bred?

• **33** cows (heat detection rate)

• Or more importantly

•<u>67 cows were not</u> <u>bred!</u>

How many will become pregnant?

•12

• Therefore

The Preg rate is 12%

What is Pregnancy Rate?

- 100 cows
- 33 cows bred
- 33/100= 33%, Heat Detection Rate
- 12 diagnosed pregnant
- 12/100= **12%** Pregnancy Rate

• These are Missouri averages!

What is your Pregnancy Rate

- 336 Herds on DHIA in Missouri
- 12.2 annualized average Pregnancy Rate
- National Average 15.1

What is your Pregnancy Rate

- Average herd in Missouri 110 cows
- Increasing Pregnancy rate from 12.2 to 15.1 yields:

•\$95.40 per cow in the herd

Using the Reproduction Economics Spreadsheet

Go to the following website to use the spreadsheet:

http://agebb.missouri.edu/dairy/reproduction/

Using the Reproduction Economics Spreadsheet

Home Insert Page Layout	Formulas Data Review	View Add-Ins				0 - =
nal Page Page Break Layout Preview Workbook Views	Ruler Formula Ba Gridlines Headings Message Bar Show/Hide		All Panes → Unhide Unhide Window	Save Switch Workspace Windows +	Macros Macros	
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Conception Rate Heat Detection Rate Pregnancy Rate Number of Cows Milking Cost per Day Open after 100 Replacement Cost Cull Cow Value Total Number of Open Cows	C D E F Per 21 Day Heat Cycle: Current 24% 36% 36% 3.64% 300 \$2,50 \$2,000 \$500 \$500 Per 21 Day Heat Cycle Using Reference of the second sec		K L M N O	P Q	RS	T U 5
Cost of Pharmaceuticals GnRH 2cc Lutalyse 5cc Labor / Dose Conception Rate 85% Heat Detection Rate 45% Pregnancy Rate 1	\$3.00 \$0.50 \$135,000 \$45,000 \$0	225,000 \$315,000 \$360,000 \$405,0 Dollars Per Herd \$95,696	000 9450,000 \$495,000 \$540,000			

Put in your herd's numbers (yellow boxes)



Where do you find your conception rate (CR) and heat detection rate (HDR)?

- For PC Dart users:
- Report 801
- For DHI only users:
- Report 202

PC Dart Report 801

801 Herd Summ	mary - Reproduction	UNIV.	OF MO FOREMOST DAI	RY - 43090006 Test 1/19/2009	1.0
	REPRODUCTIVE SUMMARY	OF CURRENT BREE		Overall Herd	
VWP 60 Total	Not Bred or Diag. Open Number Number Number from over Diag. al VWPto 100 Oper		en Open 101 Open	Days tofirst	
Number of Cow s 93	100 days days	than \/W/P100 d	lays days 130 day	service 74	
% Breeding Herd	10 3 3	4	1 27 19		
	REP RODUCTIVE SUMMA				
Days Open at 1st Number Number Fewer from	st Service Awg. Services pe ar Number Days Pregnancy	r Projected	Service or Heat Interval		
than \WP to \WP 100 days	o 100 ^{to ist} Preg. Al		Interval Number Length Intervals		
1st Lact 6 87 2nd Lact 1 42 3rd+ Lact 5 47	2 75 3.2 7 71 2.7	3.4 13.0 116 4.3 13.9 143 3.6 14.0 147	< 18 11 18-24 72 36-48 45		
All Laots 12 176 % of all 1st srvs 6 93		3.6 13.5 131	<u>[Other] 170</u> AE	ORTIONS	
			This M Actual	omth Parst Year 1 4	
SUMMARY BY SERV			Apparent	1 15	
Service Number % Suc Number Services cessfu	uc- Service	x	REPRODUCTIVE SUMM. Number % Suc- Number	Number Total	
1st srv 184 32	32 +307	Date of Test Heats Month Dropped 42	Services cess- Continn Preg.	Calving Pregnant	
2nd srv 126 33 3rd+srv 295 27	27 +301	Month Dropped 42 2/13/2008 74 3/17/2008 73	30 27 83 27 53 65 34 18	12 59 17 93 23 98	
Allsrv 605 30	30 +305	4/23/2008 73 5/27/2008 69	64 28 28	20 114 13 121	
		6/24/2008 81 7/22/2008 75	50 30 16 50 26 10	12 128 10 122	
Number Dry Dry F	Number Dry Number Dry Fewler Dry More	9/3/2008 77 10/2/2008 73	79 25 24 38 24 17	4 138 54 122	
Periods Lays Th	Than 40 40 - 70 Than 70 Days Days Days	10/29/2008 3 11/20/2008	1 12	31 119 30 101	
2nd Lact 56 59 3rd+ Lact 68 76	3 47 6 1 47 20	12/18/2008 84 1/19/2009 73	84 82 32	20 86 15 105	
All Lacts 124 68	4 94 26	Averages 63	54 30 19	21 112	
Printed 2/4/2009 11:17:44 A	LAM	Totals	648	249	
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PC Dart Report 801

1st Lact	6	8	7	1 73	2.2	3.4	13.0	116	< 18		11		
2nd Lact	1	42	2	75	3.2	4.3	13.9	143	18-24		72		
3rd+ Lact	5	47	7	71	2.7	3.6	14.0	147	36-48	3	45		
All Lacts	12	176	5	1 73	2.6	3.6	13.5	131	Other	· <u> </u>	70		
% of all 1st srvs	6	93	3	1	-						A	BORTIO	NS
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									Г	Actual		1	4
SUN	MARY	BY SEF	RVICE S	IRE					L	vpparent		1	15
	ervices fo	r Past 12	2 Months						-		_		
Service	Number	% Su	IC- S	ervice				YEARLY	REPROD	UCTIVE	SUMM	ARY	
Number	Service			Sire			ate of Test	%	Number	% Suc-	Number	Number	Total
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1st srv 2nd srv	184 12			+307 +313		Mo	nth Droppe	d 42	30	27		12	59
3rd+ srv	29			+313			2/13/2008	3 74	83	27	53	17	
All srv	60			+305			3/17/2008	3 73	65	34	18	23	98
Alisiv							4/23/2008	3 73	64	28	28	20	114
	Con	ceb	tion	Rate			5/27/2008	69	52	31	15	13	121
		P					6/24/2008	3 81	50	30	16	12	128
	T		N. h. samelan and		D humaha d	.	7/22/2008		50	26	10	10	122
	Number		Number Drv	Number	Numbe Dry		9/3/2008		79	25	24	4	138
	Dry	Dry Days -	Fewer	Dry 40 - 70	More		10/2/2008		38	24	17	54	122
	Periods		Than 40 Days	20-70 Days	Than 7 Days		0/29/2008		1		12	31	119
				-			1/20/2008					30	101
2nd Lact	56	59	3	47	 		2/18/2008		84		20	20 15	86
3rd+ Lact	68	76	1	47	2		1/19/2009	73	82		32	15	105
All Lacts	124	68	4	94	2		Verages	63	54	30	19	21	112
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	43 09 000	6 1 1 19 0	о 9 ^с 9601 w. н	HERD BREEDING HERD COWS BRED BOT	
	DHIRAPCS	STRING 1	1 COLUMBIA	MO 65202 VWP TO OVER DIAG. DAYS OPEN AT LAST SERVICE DAY	S
	PRODUCTION	I, INCOME, & F	EED COST SUMMAR	PERIOD (VWP) NUMBER	ICE
	DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY		ELECTRONIC METERS COWS 7 3 3 35 23 13	73
	TOTAL COWS	206	189.4		<u> </u>
	COWS IN MILK	NUMBER %	NUMBER %	REPRODUCTIVE SUMMARY OF TOTAL HERD	
	MILK LBS. (ALL COWS)	178 86 59.7	160.9 85 20,482	AVG. SERVICES FER PROJECTED SERVICE OR SERVICES FOR PAST 12 MONTHS NUMBER NUMBER NUMBER DAYS DAYS SERVICES FOR PAST 12 MONTHS	
	FAT LBS. (ALL COWS)	2.19	751	FEWER FROM OVER TO IST PREG. ALL CALVING DAYS INTERVAL NUMBER SERVICE CESSFUL SHEE	T 6
	FAT PERCENT PROTEIN LBS.	3.7	3.7 620	IPARIN 100 DAYS 100 DAYS SERVICE ID Length INTERVALS IST 164 32 +32 1ST LACT 5 77 72 2.2 3.3 12.9 112 INTERVALS INTERVALS 2ND 114 24 +32	
	HALL COWS	3.0	3.0	200 Lot 1 39 75 3.1 3.9 13.9 142 100 7 380 248 29 31	
	MILK LBS. (MILKING COWS)	69.1			20
		LIBS. CONSUMED	LBS CONSUMED SENE	ALL ALCTS 11 160 72 2.6 3.5 13.4 127 36-48 37 ABORTIONS THIS THIS THE P YE	EAR 4
	SILAGE			APPARENT 1 14	
	OTHER SUCCULENTS OR	LBS. CONSUMED	LBS CONSUMED %ENE	YEARLY REPRODUCTIVE SUMMARY	_
	BLENDED RATIONS	LBS. CONSUMED	LBS CONSUMED %ENE	DATE % % DATE % % NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER ONFIRM CALVING	
	DRY FORAGE			DAM'S OFFSPRING BORN LACT MALES FEMALES COLUMN DIFFICULTY SCORE TEST OBS. E35- MATE JUNIOUS PREG. DOLLARS COL	
	OTHER FEEDS	LBS. CONSUMED	LBS CONSUMED %ENE		54 84
	PASTURE	PASTURE IVES OR NO	DI DAYS %ENE		90
					106
	CONCENTRATES	LBS. CONSUMED	LES CONSUMED %ENE		111
	VALUE OF PRODUCT 9	12.09 10.39	3,955		112
	COST OF CONCENTRATES \$ TOTAL				123
	FEED COST \$ INCOME OVER FEED COST \$			* MILKING 173 173 170 164 170 148 10-29-08 0 11 28 1	107
	CWT. MILK \$	REP. CWIT. NEAT. W	PROT PER CWT %FAT %PR		91 77
	MILK BLEND PRICE	PER CWI SPAT A	CRUI PER OWI APAT APR		97
	MISCEL	LANEOUS	ASSOC. SAMPLES DRI	* ASSUMES 3.0% PER MONTH CULLING RATE.	
		FORMATION	99 NECV. AT LAB MAI SUPV. MO. DAY MO.		102
	SHIPPED-TEST DAY COMPARISON SUM OF TEST	TEST DAY YEARLY AVERAGE	15 1 21 1		
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	% DEVIATION.		380		

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DAYS OPEN AT 1ST SERVICE AVG. SERVICES PER PROJECTE											ERVICE				ES FOR PA	OF 12 W	ONTHS	
	- F	NUMBER	NUMBER		-	PREG	NANCY	MININ			AT INTE							
		FEWER THAN VWP	FROM VWP TO 100	NUMBER OVER 100 DAYS	TO 1ST SERVICE	PREG. COWS	ALL COWS	CALVING INTERVAL	DAYS	INTERV		UMBER		SERVICE NUMBER	164	% SUC- CESSF JL	SERVICE SIRE MERIT \$	
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2ND L		1	39		75	3.1	3.9	13.9	14	1555	8	7	-+ +	3RD+	248	29	+315	
3 + L∧	стѕ	5	44		71	2.8	3.6	13.8	13			53		TOTAL	526	31	+320	
ALL LACT	S	11	160		72	2.6	3.5	13.4	12	7 36-4	в	37		ABORTIONS	THIS	DNTH P	ST YEAR	
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I	17	7	55	7	44	21	14	7 8	3	2-13-08	75	27	20	77	48	16	84	
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FAL	86	14	108	9	130	47	25	8 4		4-23-08	72	31	23	55		16	106	
										5-27-08	69	28	19	46		12	111	
										6-24-08	78	29	19	41		10	117	
ws	то	BE MI	LKING.	DRY.	CALVI	NG, BY	MONT	н		9-03-08	76	27	22	62			123	
MONT		FE				í	JN JL			0-02-08	75	25	19	32		49	108	
MILKI	NG	17				64 17				0-29-08			0		11	28	107	
DRY			-			20		25		1-20-08			0			27	91	
COW: TO C	ALVE	1	1 1	2	11	16	4	4	1	2-18-08	84			74	+	18	77	
HEIFE		1111					-41.54			1-19-09			1.00	72	32	14	97	
* A	SSI	JMES	3.0%	PER	MONTH	CULL	ING R	ATE.							-	1		
								Rate	1.00	AVERA SE	63	3	20	47	17	18	102	

Fill in the cost of the medications and labor

	23	₹ Cost of Pregnancy [Compatibility Mo	de] - Microsoft Excel	_ 🗗 X
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	A	В	С	D E ^
10		Total Number of Open Cows P	er 21 Day Hea	t Cycle Using Repro
11				
12		Cost of Pharmaceuticals		=
13		GnRH 2cc	\$3.00	
14		Lutalyse 5cc	\$3.00	\$180,00
15		Labor / Dose	\$0.50	Ŷ100,00
16				\$135,000
17	Meter	Calculations Calculations2		-
Ready				☐ ☐ ☐ 250% ○

Now change Conception Rate and Heat Detection Rate



Observe the change in \$/herd



Chapter 3 Creating Presynch/Ovsynch Program in PC Dart

Instructions

• The following slides will lead you through setting up a presynch/ovsynch program

Presynch/Ovsynch

le						
12000006 1101		ST DAIRY - Test Dat	a: 12/20/	2007		
jie View Analysis Ir			e. 12/20/	2007		
🍘 🐼 🛡 門 I	📕 🛃 😤 🌃	Ref Date: 12/27/2007	▼ Input F	ilter: Cow Heil	All	
		Quick Entr	ту ?			Overvi
PCDAR	т					□ Test Day <u>S</u> tatistics
		Action Lists				Run Set "Overview"
Heat in 7 Du	e in 7 Drv in '		•			
NextExpHeat	· · · · · · · · · · · · · · · · · · ·	BarnName	Grp	DIM	TmsBrd	
Dec 27	c	2041	1	304	7	Herd Statistics Today:
Dec 27	C	2089	1	112	1	Cows
Dec 28	С	505	1	355	6	
Dec 28	С	589	3	114	1	Total: 197
Dec 28	С	598	1	270	4	In Milk: 167
Dec 28	С	701	1	112	1	Dry: 30
Dec 28	C C	755	3	394	5	Open: 41
Dec 28	С	797	1	113	1	Bred: 89
Dec 28	С	853	4	171	2	
Dec 28	C C	872	1	162	1	Pregnant: 67
Dec 28	С	924	1	325	5	Heat in 7 days: 45
Dec 28	С	939	1	187	2	Due in 7 days: 4
Dec 28	C C	965	3	115	1	Dry in 7 days: 5
Dec 28	C	G-218	3	205	4	
Dec 28 Dec 28	С	G-350	5	309	6	Heifers
Dec 28 Dec 28	С	G-351 G-353	3	293 328	6 8	Total: 256
Dec 28	C C	2022	1 2	3∠8 312	o 4	Bred: 34
Dec 28 Dec 28	c	2022	∠ 3	308	4 5	Pregnant: 71
Dec 28	c	2053	2	599	9	
Dec 28	č	2055	3	113	1	Heat in 7 days: 17
Dec 28	č	2065	1	420	6	Due in 7 days: 5
Dec 28	č	2070	3	121	1	Bullo
Dec 28	č	2074	3	374	6	Bulls 3
Dec 28	C	2083	1	116	1	
Dec 28	С	2092	1	445	9	
Dec 28	С	2093	1	466	9	
Dec 28	С	2107	3	305	5	
Daa 20	<u>^</u>	2100	2	204	<u> </u>	

Choose "Management Options"

Milking Machine Inter	face	Ref Date: 10		✓ Input	Filter: Cow Heif All			
PCDART 6		Quick Entry	?					Overvie
Protocols Management Options						Test Day <u>Statistics</u>		
Program Setup		Action Lists				Run Set "Overview"		
Configuration Herd Download Setup		7					Herd Statistics Too	lav:
Printer Setup		BarnName	Grp	DIM	TmsBrd	 		iciy.
Scheduled Items		703	3	141	1		Cows	222
Backup	•	925	3	110	1		Total: In Milk:	<u>222</u>
Restore	>	G-361	6	142	1			<u>183</u> 177
Exit		2017	3	183	3 1		Avg DIM:	
u 24 ct 24	č	2122 2170	3 1	109 224	5		Dry:	<u>39</u>
at 27	č	2139	1	413	11		Open:	<u>80</u> 20
ct 30	С	2121	5	606	4		Bred:	
ct 30	Н	G-395	0	0	3		Pregnant:	<u>121</u>
ct 31 ct 31	C C	1360 2109	1 3	186 181	4 3		Percent Preg:	55 10
xt 31	Ĥ	G-390	ŏ	0	4		Heat in 7 days:	9
ct 31	Н	2272	0	0	5		Due in 7 days:	12
							Dry in 7 days:	12
							Heifers	
							Total:	<u>246</u>
							Bred:	5
							Pregnant:	<u>82</u>
							Heat in 7 days:	3
							Due in 7 days:	11
							Bulls	<u>0</u>

--Select "Timed AI"

S Management Options	
Days to Prep Index Barn Info panel ME 2X 3 Timed AI	
User Defined Timed AI Protocols Help You may use one of theseTimed AI Protocols as a model:	
Veterinary supervision is required for extra-label drug use.	
POS ReSync CIDRCS unnamed unnamed unnamed	
Name Description	
#4 Minimum DIM to breed cows	
This name will be associated with the cows enrolled in this protocol. Minimum Age (days) to breed heifers	
PreSync Setups Start of program Heifer Age > Cow DIM > Events days to next Do not schedule setups for diagnosed OPEN cows Day of Week for Start of program Clear Changes this Protocol Delete this Protocol	
Clos	e

--Name Protocol from drop down menu and at #1

I Management Options				_ 🗆 🔀
Days to Prep Index Barn Info panel ME 2X 3X Timed AI				
User Defined Timed AI Protocols Help	You may use one of theseTime	d Al Protocols as a me	odel:	
Veterinary supervision is required for extra-label drug use.	Std Protocol 3:Pre-synch			
POS ReSync CIDRCS unnamed unnamed unnamed				
Name Description POS #1 Pre-synch This name will be associated with the cows enrolled in this program.	 □ Use 14 day intervals to schedule 75 Minimum DIM to breed co 410 Minimum Age (days) to b 	- DWS	veekly)	
Dractional Cationa	Start of program		Breed Event	
Cow DIM > 37 TUE 51 TUE 6	400 407 409 35 TUE 72 TUE 74 TH RH-1 PGH GnRH-2 7 2		410 75 FRI Breed	
diagnosed OPEN cows Day or	TUE f Week for of program Clear Changes this	Protocol Delete	e this Protocol	
		Clear All Changes	Apply Changes	Close

--Select "Minimum DIM to breed cows" (for breed event)

--Select "Day of week for start of program"

S Management Options	
Days to Prep Index Barn Info panel ME 2X 3X Timed AI	
User Defined Timed AI Protocols Help You may use one of theseTimed AI Protocols as a model:	
Veterinary supervision is required for extra-label drug use. Std Protocol 3:Pre-synch	
POS ReSync CIDRCS unnamed unnamed unnamed	
Name Description POS #1	
This name will be associated with the 410 Minimum Age (days) to breed heifers	
PreSync Setups Start of Breed Event	
Heifer Age > 372 386 400 407 409 410 Cow DIM > 37 TUE 51 TUE 65 TUE 72 TUE 74 THU 75 FRI Events PGH-1 PGH-2 GnRH-1 PGH GnRH-2 Breed days to next 14 14 7 2 1	
I Do not schedule setups for diagnosed OPEN cows T⊔E → Day of Week for Start of program Clear Changes this Protocol Delete this Protocol	
Clear All Changes Apply Changes Clos	e

--Apply changes --Close

Management Options	
Days to Prep Index Barn Info panel ME 2X 3X Timed AI	
User Defined Timed AI Protocols Help You may use one of theseTimed AI Protocols as a model:	
Veterinary supervision is required for extra-label drug use. Std Protocol 3:Pre-synch	
POS ReSync CIDRCS unnamed unnamed unnamed	
Name Description Image: Use 14 day intervals to schedule start dates (default is weekly) POS #1 Pre-synch 75 Minimum DIM to breed cows Minimum DIM to breed cows	
This name will be associated with the cows enrolled in this program. 410 Minimum Age (days) to breed heifers	
Start of Breed ———————————————————————————————————	
Heifer Age > 372 386 400 407 409 410 Cow DIM > 37 TUE 51 TUE 65 TUE 72 TUE 74 THU 75 FRI Events PGH-1 PGH-2 GnRH-1 PGH GnRH-2 Breed days to next 14 14 7 2 1	
Image: Do not schodulo sctups for diagnosed OPEN cows Image: Day of Week for Start of program Day of Week for Start of program Clear Changes this Protocol	
Clear All Changes Apply Changes Close	T
Click on "RPT"

43090006 - 1	UNIV. OF MO F	OREMOST DAIRY	- Test	Date: 1	/7/2008				
<u>File View Analysis</u>	Input <u>D</u> esk Ta	s <u>k</u> s <u>P</u> rint <u>T</u> ips <u>H</u> e	elp						
🎌 🚇 \overline 🙀 💾	?	📲 🎬 Ref Date:	1/ 7/20	08 🔻	Input Filter: Cow Heif All				
		Quick Entry ?	J						Overview
PCDART						Test Day <u>S</u> tatistics			
	Ac	tion Lists					Run Set "Overview"		
Heat in 7 Due	in 7 Dry in 7	1							
NextExpHeat	AniType	BarnName	Grp	DIM	TmsBrd		<u>~</u>	Herd Statistics To	ndev:
Jan 07	С	656	2	144	2				Judy.
Jan 07	С	2039	1	476	12			Cows	
Jan 07	Н	2203	0	0	1			Total:	201
Jan 07	Н	2244	0	0	1			In Milk:	170
Jan 08	Н	2199	0	0	1			Dry:	31
Jan 09	Н	J-002	0	0	6			Open:	56
Jan 09	Н	2179	0	0	3			Bred:	65
Jan 09	Н	2217	0	0	1				
Jan 09	Н	2220	0	0	1			Pregnant:	80
Jan 09	Н	2229	0	0	1			Heat in 7 days:	10
Jan 09	Н	2232	0	0	1			Due in 7 days:	5
Jan 09 Jan 89	Н	2242	0	0	1			Dry in 7 days:	2
Jan 09 Jan 10	Н	2245 2118	0	0 362	1			11.77	
Jan IU Jan 10	с Н	G-378	0	362 0	8			Heifers	
Jan Tu Jan 10	н Н	2249	U O	0	1			Total:	255
Jan 10	Н	2249	0	0	1			Bred:	45
Jan 11	Ċ	654	2	285	3			Pregnant:	73
Jan 11	č	887	3	259	3			Heat in 7 days:	18
Jan 11	č	966	4	83	1			Due in 7 days:	0
Jan 11	č	983	4	83	1				
Jan 11	č	2099	1	306	5			Bulls	3
Jan 11	č	2131	1	123	2				
Jan 11	č	2982	4	82	1		~		
CDART Curren	t: Cw 103				^				
DART Curren	C. CW 105								

Click on Reproductive Management

# 43090006 - UNIV, OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Eile View Analysis Input Desk Tasks Set Report Printer Setup Tips Help	
🎌 🙉 🐝 🖲 🏪 🗾 🥩 📽 🎇 Ref Date: 1/ 7/2008 🕑 Input Filter: Cov Heif All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View / CSV New Set Print Rpts in Set Run Set for Tmp Grp Clo	ose Sets
Sets and Reports - Be sure Reference Date is correct	Reproductive Management
 >Standard Reports >User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management Tuesday 	Edit Set Rename Set Delete Set No Page Breaks List Report Titles in Set
PCDART Current: Cw 103	

Choose report 134 (Timed AI—Eligible for enrollment) and be sure to mark the POS (Pre-synch) selection

43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Eile Yiew Analysis Input Desk Tasks Set Report Printer Setup Tips Help	
 Imput Filter: Cov Heil All Quick Entry ? 	Reports
Preview Print PDF Edit New Grid View / CSV New Set Print Rpts in Set Run Set for	or Tmp Grp Close Sets
Sets and Reports - Be sure Reference Date is correct	Report 134 in Reproductive Management
 Standard Reports >User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management 090 Heat Expectancy List 094 Conception Rate Summary for A.I. Technicians 100 Status and Breeding Summary 106 Conception Rate Summary (Landscape) 126 Fregnancy Rate Sommary 136 Timed AI - All Dates Format 136 Timed AI - Next Week "To Do" 137 Timed AI - Today "To Do" 144 Repro Measures for Vet Practitioner 801 Herd Summary - Reproduction 852 Reproductive Performance 	Orientation Paper Size Change Font © Ledter Default Font © Legal Default Font Orientation (************************************
CDART Current: Cw 103	

The Report will look somewhat like that below (return to previous window in PC Dart)

****	i) 3 8	26	Close			Ref: 1/26/2008
G	-	ows				
r	Index		Repro	duc	Tue	
р	Name	DIM	Date	cd	01/29/08	
4	917	32			PGH-1	
4	975	47			PGH-1	
1	G-330	51			PGH-1	
4	2056	44			PGH-1	These cows will be receiving the
4	2062	37			PGH-1	first injection of prostaglandin of
4	2098	43			PGH-1	
4	2136	38			PGH-1	the presynch program.
5	2166	36			PGH-1	
4	2400	34			PGH-1	
4	2401	37			PGH-1	
	10 Cows					

Choose report 134 (Timed AI—Eligible for enrollment) and be sure to mark the POS (Pre-synch) selection

In yew dealways noublest less and legant precession and the set of the set	Field Image: Set Standard Reports Best Standard Reports Sets and Reports Sets and Reports Health and Event Management Sets and Set Sets Health and Event Management Herd Activity and Status	Orientation Paper Size © Portrait © Letter © Landscape © Legal
OutskEntry Preview Print PDF Edit New Origination Set	Ouick Entry ? Preview Print PDF Edit New Grid View / CSV New Set Print Rpts in Set Run Set for Tmp Grp Sets and Reports - Be sure Reference Date is correct > Standard Reports > User Reports - Frequently Used - Genetics and Heifers - Health and Event Management - Herd Activity and Status	Close Sets
Sets and Reports - Be sure Reference Date is correct Report 134 in Reproductive Management > > Standard Reports Frequently Used © centration Paper Size © Frequently Used Change Fort © Health and Event Management Elefa - Change Fort • Health and Event Management Elefa - Change Fort • Health and Event Management • One point on and Udder Health • Reproductive Management • 090 Heat Expectancy List • 090 Heat Expectancy List • 090 Heat Expectancy List • 090 Heat Expectancy List • 090 Heat Expectancy List • 090 Conception Rate Summary (Landscape) • 200 Frequently Max • 136 Timed AI - Eligible for Enrollment • 137 Timed AI - Eligible for Enrollment • 137 Timed AI - Today 'To Do'' • 144 Repro Measures for Vet Practitioner • 801 Herd Summary - Reproduction • Sot (Default is by Index) • 801 Herd Summary - Reproduction • Sot (Default is by Index)	Sets and Reports - Be sure Reference Date is correct ->Standard Reports ->User Reports ->User Reports ->Frequently Used ->Genetics and Heifers ->Health and Event Management ->Herd Activity and Status	Orientation Paper Size © Portrait © Letter © Landscape © Legal
 >Standard Reports >User Reports >User Reports Frequently Used Genetics and Heifers Health and Event Management Health and Event Management Health and Event Management Heilth and Event Management Milk Productive Management 090 Heat Expectancy List 090 Heat Expectancy List 094 Conception Rate Summary for A.I. Technicians 100 Status and Breeding Summary 120 Freguency Rate Summary for A.I. Technicians 136 Timed AI - Eligible for Enrollment 136 Timed AI - Next Week "To Do" 137 Timed AI - Next Week "To Do" 137 Timed AI - Today "To Do" 144 Reproduction 852 Reproductive Performance 	e >Standard Reports e->User Reports e-Frequently Used e-Genetics and Heifers e-Health and Event Management e-Herd Activity and Status	Orientation Paper Size Change Font © Portrait © Letter Change Font © Landscape © Legal Default Font
 >User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management -090 Heat Expectancy List -094 Conception Rate Summary for A.I. Technicians -100 Status and Breeding Summary -106 Conception Rate Summary (Landscape) -126 Frequently Used -136 Timed AI - Next Week "To Do" -136 Timed AI - Next Week "To Do" -137 Timed AI - Next Week "To Do" -136 Timed AI - Next Week "To Do" -137 Timed AI - Next Week "To Do" -137 Timed AI - Next Week "To Do" -136 Timed AI - Next Week "To Do" -137 Timed AI - Today "To Do" -144 Repro Measures for Vet Practitioner -852 Reproductive Performance 	a >User Reports ■ Frequently Used ■ Genetics and Heifers ■ Health and Event Management ■ Herd Activity and Status	C Portrait C Landscape C Legal C Legal C Legal Default Fort
P	O90 Heat Expectancy List O94 Conception Rate Summary for A.I. Technicians 100 Status and Breeding Summary 106 Conception Rate Summary (Landscape) 120 Tregnancy Rate Summary 134 Timed AI - Air Dates Format 136 Timed AI - Next Week "To Do" 137 Timed AI - Next Week "To Do" 144 Repro Measures for Vet Practitioner 801 Herd Summary - Reproduction 852 Reproductive Performance	Control Min Max Assign Tmp Group # None C by Highest DIM by List Order C by List Order Vwhich C cows Only C locault is by Index) C index

Select a "Assign Tmp Group #"

(98 for example) and then choose report "134." This will generate a report so PC Dart know which cows are in temp group 98.

10 43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Eile View Analysis Input Desk, Tasks Set Report Printer Setup Tips Help	
1/26/2008 💽 Input Filter: Cow Hef All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View/CSV New Set Print Rpts in Set Run Set for Tmp Grp Clope	use Sets
Sets and Reports - Be sure Reference Date is correct	Report 134 in Reproductive Management
 Standard Reports Juser Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management 090 Heat Expectancy List 094 Conception Rate Summary for A.I. Technicians 100 Status and Breeding Summary 106 Conception Rate Summary (Landscape) 136 Pregnancy Pate Summary 136 Timed AI - Elicible for Enrollment 137 Timed AI - Next Week "To Do" 137 Timed AI - Today "To Do" 144 Repro Measures for Vet Practitioner 801 Herd Summary - Reproduction 852 Reproductive Performance Tuesday 	Orientation Paper Size Change Font Choose a User Defined Timed AI Protocol Default Font Choose a User Defined Timed AI Protocol 0 1: POS (Pre-synch) C 1: POS (Pre-synch) 2: ReSync (Re-synch) S: CIDRCS (CIDR COSYNCH) 0 Control Min Max None 98 Limit # Cows Soft (Default is by Index) Cows Only Choese Only Heifers Only Soft (Default is by Index)
PCDART Current: Cw 103	

Choose the Input Desk

80 43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Elle View Analysis Input Desk Tasks Set Report Printer Setup Tips Help	
1/ 🕰 😹 🛡 🏋 🗾 💅 🎇 🥁 Ref Date: 1/ 7/2008 🔽 Input Filter: Cow Heif All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View / CSV New Set Print Rpts in Set Run Set for Tmp Grp C	lose Sets
Sets and Reports - Be sure Reference Date is correct	Reproductive Management
 Standard Reports >User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management Tuesday 	Edit Set Rename Set Delete Set No Page Breaks List Report Titles in Set
PCDART Current: Cw 103	

Use the "Select Animal(s) Before Showing Input Form" and then the "Timed AI"



Choose the "Key Entry" Option and "Select by Group or Temp-Group"

Timed Al: Provide Index (you may supply more than one)	
Pick List Key Entry	Apply Individually
	hppy Individually
	Select by
	Group or Temp-Group
	Com Hox At
	Cow Heif All
	<u>C</u> lose
Note: You may precede cow with '+' (plus), heifer with '-' (dash)	

Enter your Tmp Group # (98) and then **Done**



The selection will be similar to the screen below

Imed Al: Provide Index (you	may supply more than one)	
Pick List Key Entry 917 975 1330 2056 2062 2098 2136 2400 2401		Apply Individually Apply to <u>A</u> ll Select by Group or Temp-Group 10 animals found
Note: You may p	recede cow with '+' (plus), heifer with '-' (dash)	

Now you want to "Apply to all"

Timed Al: Provide Index (you may supply more than one)	
Pick List Key Entry 917 975 1990	Apply Individually
1330 2056 2062 2098	Apply to <u>All</u> Select by
2136 2166 2400 2401	Group or Temp-Group
	10 animals found
	Cow Heif All
Note: You may precede cow with '+' (plus), heifer with '-' (dash)	

Choose "S Start her on TAI" Choose the "TAI Reference Date"

Enter data		
Cw 917 (917)	Ti	med A. I. (P8)
possible on or	S Start her on TAI X Exclude her from TAI Z Zero the start date R Remove exclusion If bred, do not warn rted on TAI as soon as after this date:	Done Cancel De-select All selected animals. Cancel <u>A</u> ll
DIM 35 49 PGH-1 PGH-2 01/29/08 02/12/08	63 70 72 73 GnRH-1 PGH GnRH-2 Breed 02/26/08 03/04/08 03/06/08 03/07/08 start breed TUE TUE	
Calv: 12/26/2007 DIM: 32 Milk: 112.8 Repro: Lct#: 4 Grp 4	F2-Cow Page F6-View Input	

Choose from the "Available TAI protocols" and then "Done"

Enter data		
Cw 917 (917)	Ті	med A. I. (P8)
TALAction 8	S Start her on TAI X Exclude her from TAI Z Zero the start date R Remove exclusion	Done
TAI Reference Date 1/26/2008 ▼ She will be starte possible on or af	☐ If bred, do not warn ed on TAI as soon as fter this date:	<u>C</u> ancel De-select All selected animals.
Available TAI protocols 1: POS (Pre	e-svnch)	Cancel <u>A</u> ll
PGH-1 PGH-2 01/29/08 02/12/08	63 70 72 73 GnRH-1 PGH GnRH-2 Breed 02/26/08 03/04/08 03/06/08 03/07/08 start breed TUE	
Calv: 12/26/2007 DIM: 32 Milk: 112.8 Repro: Lct#: 4 Grp 4	F2-Cow Page F6-View Input	

PC Dart will then apply the protocol to all the cows in temp group 98



Chapter 4 Creating a Resynch Program in PC Dart



43090006 - UNIV. C	F MO FOREMOST	DAIRY - Test Date	e: 12/20/	2007				
e View Analysis Input					_			
	r 10 10 10 10 10 10 10 10 10 10 10 10 10	Ref Date: 12/27/2007 Quick Entr		ilter: <u>Cow</u> Hei	All		c	Overvie
PCDART							□ Test Day <u>S</u> tatistics	
		Action Lists	:			Run Set "Overview"		
leat in 7 Due ir	7 Drv in 7							
	AniType	BarnName	Grp	DIM	TmsBrd			
	С	2041	1	304	7		Herd Statistics Tod	ay:
Dec 27	С	2089	1	112	1		Cows	
	С	505	1	355	6		Total:	197
Dec 28	С	589	3	114	1			
Dec 28	С	598	1	270	4		In Milk:	167
Dec 28	С	701	1	112	1	E	Dry:	30
Dec 28 Dec 28	С	755 797	3	394 113	5		Open:	41
Dec 28 Dec 28	C C	853	1 4	171	2		Bred:	89
Dec 28	c	872	4	162	2 1		Pregnant:	67
Dec 28	c	924	1	325	5		Heat in 7 days:	45
Dec 28	č	939	1	187	2			
Dec 28	c	965	3	115	1		Due in 7 days:	4
	С	G-218	3	205	4		Dry in 7 days:	5
Dec 28	С	G-350	5	309	6		Heifers	
Dec 28	С	G-351	3	293	6		Total:	256
Dec 28	С	G-353	1	328	8			
	С	2022	2	312	4		Bred:	34
	С	2051	3	308	5		Pregnant:	71
	C	2053	2	599	9		Heat in 7 days:	17
Dec 28 Dec 28	C C	2064 2065	3 1	113 420	6		Due in 7 days:	5
Dec 28 Dec 28	c	2065	3	420	1			
	c	2070	3	374	6		Bulls	3
	č	2083	1	116	1			
	č	2092	1	445	9			
	c	2093	1	466	9			
Dec 28	C	2107	3	305	5			

Choose "Management Options"

Milking Machine Interface	Cuick Entry		✓ Input	Filter: Cow Heif All				Overvie
Protocols Management Options		<u> </u>			🗖 Test D	ay <u>S</u> tatistics		
Program Setup Configoration Herd Download Setup Printer Setup	Action Lists	Grp	DIM	TmsBrd		Run Set "Overview"	Herd Statistics Too Cows	lay:
Scheduled Items Backup Restore Exit Ct 24 C ct 24 C ct 27 C ct 30 H ct 31 C ct 31 C ct 31 H ct 31 H ct 31 H	, G-361 2017 2122 2170 2139 2121 G-395 1360 2109 G-390 2272	3 3 6 3 1 1 5 0 1 3 0 0	141 110 142 183 109 224 413 606 0 186 181 0 0	1 1 3 1 5 11 4 3 4 3 4 5			Total: In Milk: Avg DIM: Dry: Open: Bred: Pregnant: Percent Preg: Heat in 7 days: Due in 7 days: Dry in 7 days: Heifers Total:	222 183 177 <u>39</u> 80 20 121 55 10 9 12 246
							Bred: Pregnant: Heat in 7 days: Due in 7 days: Bulls	5 82 3 11 <u>0</u>

--Select "Timed Al"

S Management Options	
Days to Prep Index Barn Info panel ME 2X 3 Timed AI	
User Defined Timed AI Protocols Help You may use one of theseTimed AI Protocols as a model:	
Veterinary supervision is required for extra-label drug use.	
POS ReSync CIDRCS unnamed unnamed unnamed	
Name Description	
#4 Minimum DIM to breed cows	
This name will be associated with the cows enrolled in this protocol. Minimum Age (days) to breed heifers	
PreSync Setups Start of program Heifer Age > Cow DIM > Events days to next Do not schedule setups for diagnosed OPEN cows Day of Week for Start of program Clear Changes this Protocol Delete this Protocol	
Clos	e

--Name Protocol from drop down menu (note name of protocol) and at #2

3 Management Options		_ = 2
Days to Prep Index Barn Info panel ME 2X 3X Timed AI	J]	
User Defined Timed Al Protocols Help	You may use one of theseTimed Al Protocols as a model:	
Veterinary supervision is required for extra-label drug us	se. Std Protocol 6:Re-synch	
unnamed unnamed unnamed unnamed unnamed unnamed	amed	
Name Description RES #2 Re-synch This name will be accordated with the cows enrolled in this protocol.	 Use 14 day intervals to schedule start dates (default is weekly) 75 Minimum DIM to breed cows 410 Minimum Age (days) to breed heifers 	
PreSync Setups Heifer Age > Cow DIM >	Start of program Breed Event 400 407 409 410 65 MON 72 MON 74 WED 75 THU	
Events days to next	GnRH PGH GnRH Breed 7 2 1	
	MON Day of Week for Start of program Clear Changes this Protocol Delete this Protocol	
	Clear All Changes Apply Changes	Close

--Select "Minimum DIM to breed cows" (for breed event) --Select "Day of week for start of program"

🚛 Management Options				_ 2 ×
Days to Prep Index Barn Info panel ME 2X 3X Timed AI				
User Defined Timed AI Protocols Help	You may use one of theseTimed A	l Protocols as a moc	del:	
Veterinary supervision is required for extra-label drug use.	Std Protocol 6:Re-synch		•	
	be			
Name Description RES #2 Re-synch This name will be associated with the cows enrolled in this protocol. Image: Comparison of the protocol.	□ Use 14 day intervals to schedule sta □ 15 Min mum DIM to breed cows □ 410 Minimum Age (days) to bree	3	eekly)	
PreSync Setups Heifer Age > Cow DIM >	Start of program 400 407 65 MON 72 MON GnRH PGH 7 2	409 74 WED GnRH	Breed Event 410 75 THU Breed	
	MON . v of Week for rt of program Clear Changes this Pro	otocol Delete t	this Protocol	
		Clear All Changes	Apply Changes	Close

--Apply changes --Close

31 Management Options					
Days to Prep Index Barn Info panel ME 2X 3X Timed AI					
User Defined Timed AI Protocols Help	You may use	e one of theseTimed A	l Protocols as a mo	del:	
Veterinary supervision is required for extra-label drug use	Std Pro	tocol 6:Re-synch		•	
unnamed unnamed unnamed unnamed unnam	ed				
Name Description RES #2 Re-synch This name will be associated with the cows enrolled in this protocol. Image: Comparison of the comparison	75 Mini	[,] intervals to schedule st mum DIM to breed cows mum Age (days) to bree	3	eekly)	
PreSync Setups Heifer Age > Cow DIM > Events days to next		07 2 MON H 2	409 74 WED GnRH	Breed Event 410 75 THU Breed	
Do not schedule setups for diagnosed OPEN cows	MON y of Week for rt of program	, Clear Changes this Pr	otocol Delete	this Protocol	
			Clear All Changes	Apply Changes	Close

Now you will be able to enroll open cows back into the program!

• How do you enroll open cows?

Choose the Input Desk

43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Ele View Analysis Input Desk Tasks Set Report Printer Setup Tips Help Image: Image	Reports
Preview Print PDF Edit New Grid View / CSV New Set Print Rpts in Set Run Set for Tmp Grp Ctrue	ose Sets
Sets and Reports - Be sure Reference Date is correct	Reproductive Management
 >Standard Reports >User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management Tuesday 	Edit Set Rename Set Delete Set No Page Breaks List Report Titles in Set
PCDART Current: Cw 103	

Use the "Select Animal(s) Before Showing Input Form" and then the "Timed AI"



Choose the "Pick List" Option

X	rovide Index (you may			
	Entry			The second second
W 59	Cw 266	Cw 341	Hf 382	Apply Individually
Sw 94	Cw 268	Cw 342	Hf 385	
W 103	Cw 269	Cw 343	Hf 386	
Cw 109	Cw 270	Hf 295	Hf 387	
Sw 110	Cw 273	Hf 319	Hf 388	
Sw 118	Cw 276	Hf 330	Hf 389	Select by
W 131	Cw 280	Hf 334	Hf 390	Group or
Sw 139	Cw 286	Hf 335	Hf 392	Temp-Group
Sw 140	Cw 287	Hf 344	Hf 393	Temp Group
Sw 163	Cw 288	Hf 345	Hf 394	
Cw 168	Cw 289	Hf 346	Hf 395	
Sw 178	Cw 290	Hf 347	Hf 396	
Sw 187	Cw 292	Hf 348	Hf 397	
Sw 190	Cw 294	Hf 349	Hf 399	
Sw 197	Cw 296	Hf 350	Hf 400	
W 207	Cw 297	Hf 351	Hf 401	
Sw 210	Cw 299	Hf 352	Hf 402	
Sw 212	Cw 301	Hf 353	Hf 403	
Sw 214	Cw 304	Hf 354	Hf 404	
Sw 215	Cw 305	Hf 355	Hf 405	Cow Heif Al
Sw 216	Cw 307	Hf 356	Hf 406	
W 217	Cw 308	Hf 357	Hf 407	
Sw 218	Cw 309	Hf 358	Hf 408	Close
Sw 221	Cw 310	Hf 359	Hf 409	
W 223	Cw 311	Hf 360	Hf 410	
Sw 224	Cw 312	Hf 361	Hf 411	
Sw 225	Cw 313	Hf 362	Hf 412	
Sw 226	Cw 314	Hf 363	Hf 413	
W 229	Cw 315	Hf 364	Hf 414	
W 230	Cw 317	Hf 365	Hf 415	
W 233	Cw 320	Hf 366	Hf 416	
Sw 235	Cw 322	Hf 367	Hf 417	
Sw 236	Cw 323	Hf 368	Hf 418	
Sw 237	Cw 324	Hf 369	Hf 419	
W 239	Cw 325	Hf 370	Hf 420	
Sw 243	Cw 326	Hf 371		
Sw 245	Cw 327	Hf 372		
Sw 246	Cw 328	Hf 373		
Sw 247	Cw 329	Hf 374		
Sw 249	Cw 331	Hf 375		
Sw 250	Cw 332	Hf 376		
Sw 255	Cw 333	Hf 377		
Sw 261	Cw 337	Hf 378		
Sw 262	Cw 338	Hf 379		
Sw 264	Cw 339	Hf 380		
Sw 265	Cw 340	Hf 381		

Click all the open cows that need to be reenrolled and then choose "Apply to <u>All</u>"

S Tuned Al: Pr	rovide Index (y u may	supply more than on	e)	_ 7 ×
Pick List Key	Entry			
Cw 59	Cw 266	Cw 341	Hf 382	 Apply Individually
Cw 94	Cw 268	Cw 342	Hf 385	
Cw 103	Cw 269	Cw 343	Hf 386	Applute All
Cw 109	Cw 270	Hf 295	Hf 387	Apply to <u>A</u> ll
Cw 110	Cw 273	Hf 319	Hf 388	
Cw 118	Cw 276	Hf 330	Hf 389	
Cw 131	Cw 280	Hf 334	Hf 390	Select by
Cw 139	Cw 286	Hf 335	Hf 392	Group or
Cw 140	Cw 287	Hf 344	Hf 393	Temp-Group
Cw 163	Cw 288	Hf 345	Hf 394	
Cw 168	Cw 289	Hf 346	Hf 395	
Cw 178	Cw 290	Hf 347	Hf 396	
Cw 187	Cw 292	Hf 348	Hf 397	
Cw 190	Cw 294	Hf 349	Hf 399	
Cw 197	Cw 296	Hf 350	Hf 400	
Cw 207	Cw 297	Hf 351	Hf 401	
Cw 210	Cw 299	Hf 352	Hf 402	
Cw 212	Cw 301	Hf 353	Hf 403	
Cw 214	Cw 304	Hf 354	Hf 404	
Cw 215	Cw 305	Hf 355	Hf 405	0
Cw 216	Cw 307	Hf 356	Hf 406	Cow Heif All
Cw 217	Cw 308	Hf 357	Hf 407	
Cw 218	Cw 309	Hf 358	Hf 408	Close
Cw 221	Cw 310	Hf 359	Hf 409	0036
Cw 223	Cw 311	Hf 360	Hf 410	
Cw 224	Cw 312	Hf 361	Hf 411	
Cw 225	Cw 313	Hf 362	Hf 412	
Cw 226	Cw 314	Hf 363	Hf 413	
Cw 229	Cw 315	Hf 364	Hf 414	
Cw 230	Cw 317	Hf 365	Hf 415	
Cw 233	Cw 320	Hf 366	Hf 416	
Cw 235	Ow 322	Hf 367	Hf 417	
Cw 236	Cw 323	Hf 368	Hf 418	
Cw 237	Cw 324	Hf 369	Hf 419	
Cw 239	Cw 325	Hf 370	Hf 420	
Cw 243	Cw 326	Hf 371	111 420	
Cw 245	Cw 327	Hf 372		
Cw 246	Cw 328	Hf 373		
Ow 247	Cw 329	Hf 374		
Cw 249	Cw 331	Hf 375		
Cw 250	Cw 332	Hf 376		
Cw 255	Cw 333	Hf 377		
Cw 261	Cw 337	Hf 378		
Cw 262	Cw 338	Hf 379		
Cw 264	Cw 339	Hf 380		
Cw 265	Cw 340	Hf 381		
1011 200	011 010			

Choose "S" for Start her on TAI and the date you want to start followed by the TAI Protocol

Enter data Cw 59 (59)		Timed A. I. (P8)
TAI Action	Z Zero the start date R F	Exclude her from TAI Remove exclusion Done
TAI Reference Date 10/29/2008 She will be starte possible on or after	De-select All selected	
Available TAI protocols 2: RES (Re	-synch)	Cancel <u>All</u>
DIM	279 286	288 289
	GnRH PGH 11/03/08 11/10/08 start MON	GnRH Breed 11/12/08 11/13/08 breed
Calv: 1/30/2008 Bred: 1_6/13/ DIM: 274 Milk: 33.0 Repro: N Lct#: 10 Grp 0	/2008 DaysSinceBred: 139	F2-Cow Page F6-View Input

Choose "Done" and PC Dart will apply the resynch to all the chosen cows

Cw 59 (59)				Ti	med A. I. (P8)
TAI Action S			X Exclude her R Remove exc		Done
TAI Reference Date	<u>C</u> ancel De-select All selecte animals.				
Available TAI protocols	2: RES (Re-synch)			•	Cancel <u>A</u> ll
DIM	279 GnRH 11/03/08 start MON	286 PGH 11/10/08	288 GnRH 11/12/08	289 Breed 11/13/08 breed	
	ed: 1_6/13/2008 [pro: N	DaysSinceBred:	139 F2-Cov F6-View		

Chapter 5 Enrolling Cows into a Synchronization Program at Calving

Choose the Input Desk

🛍 43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Ele View Analysis Input Desk Tasks Set Leport Printer Setup Tips Help	
🔨 🚳 🐼 🛡 🎹 🔜 🥵 🦉 🌃 🎇 Ref Date: 1/ 7/2008 🔽 Input Filter: Cow Heif All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View / CSV New Set Print Rpts in Set Run Set for Tmp Grp Close	se Sets
Sets and Reports - Be sure Reference Date is correct	Reproductive Management
 >Standard Reports >User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Feproductive Management Tuesday 	Edit Set Rename Set Delete Set No Page Breaks List Report Titles in Set
PCDART Current: Cw 103	

Choose "Select Animal(s) Before Showing Input Form" and then check "Define Chain Events"

⊡43500328 - sw o Input De	Sk CEnter	TER DAIRY - Test Date: 9/23/2008 Entry Method C Enter Animal Number/Name on Input Form Select Animal(s) Before Showing Input Form			Date being Reported 10/29/2008 Close				
			Individual Animal Procedur	es	Cow Heif A	All I	Her	d Procedures	
	Calved		Health Conditions		Bd Wt, Lct#, Dt Ent			les for U.D.Fields D.Field - all animals	
	Timed Al		Into Sick Herd Out of Sick Herd		Birth Type BST		Zero Ter	np-Group # - all	
	Bred				Body Condition			#/Temp-Grp# - all	
Vet /	Vet / Repro Check		New Cow		Change ID		Move E	Batch to Group	
	Dried		New Heifer		Change Index		Assign He	ealth Condition ID	
Prote	Left Protocol Enrollment		New Bull		Embryo Transfer Estimated Bred Date		Bull F	File Functions	
C	Chore Done				Prostaglandin				
Gr	Group Number		RFID		Sugg'd Service Sires				
User	User Defined Fields		Heifer Growth		Temp-Group Number				
			Turned w Bull		Modify Grower/Export		Re	eview Input	
(No cha ⊏ Define Chair		(No chain)	(No chain)		(No chain)	(No c	shain)	(No chain)	

The screen will have changed and be similar to below

nput Desk	Entry Method	Jumber/Name on Input Form s) Before Showing Input Form	Late being Reported 10/29/2008 ▼ Close		
		Individual Animal Procedures	Cow Heif All	Herd Procedures	
Calv	ed	Health Conditions	Bd Wt, Lct#, Dt Ent	Assign Titles for U.D.Fields	
Hea	at	Into Sick Herd	Birth Type	Blank a U.D.Field - all animals	
Timeo	I AI	Out of Sick Herd	BST	Zero Temp-Group # - all	
Bre	d		Body Condition	Exch Grp#/Temp-Grp# - all	
Vet / Repr	o Check	New Cow	Change ID	Move Batch to Group	
Drie	d	New Heifer	Change Index	Assign Health Condition ID	
Lef	t	New Bull	Embryo Transfer		
Protocol Er	nrollment		Estimated Bred Date	Bull File Functions	
Chore I	Done		Prostaglandin		
Group N	umber	RFID	Sugg'd Service Sires		
User Defin	ed Fields	Heifer Growth	Temp-Group Number		
		Turned w Bull	Modify Grower/Export	Review Input	
	(No c	hain) (No chain)	(No chain) (No	o chain) (No chain)	
Define Chain Events Proceed Save Click procedure buttons to define an event chain. Clear checkbox to erase current chain.)					

Choose "Calved" and then "Timed AI" followed by "Save"

43500328 - SW CENTER Input Desk	Entry Metho		Date being Reported 10/29/2008 Close		
		Individual Animal Procedures	Cow Heif All	Herd Procedures	
Calved		Health Conditions	Bd Wt, Lct#, Dt Ent	Assign Titles for U.D.Fields	
Heat		Into Sick Herd	Birth Type	Blank a U.D.Field - all animals	
Timed Al		Out of Sick Herd	BST	Zero Temp-Group # - all	
Bred		•	Body Condition	Exch Grp#/Temp-Grp# - all	
Vet / Repro Check		New Cow	Change ID	Move Batch to Group	
Drie	d	New Heifer	Change Index	Assign Health Condition ID	
Left		New Bull	Embryo Transfer		
Protocol Enrollment			Estimated Bred Date	Bull File Functions	
Chore Done			Prostaglandin		
Group Number		RFID	Sugg'd Service Sires		
User Defin	ed Fields	Heifer Growth	Temp-Group Number		
		Turned w Bull	Modify Grower/Export	Review Input	
	(No chain) (No chain)	(No chain) (No chain) (No chain)	
✓ Define Chain Events Calved TimedAl Proceed Save (Click procedure buttons to define an event chain. Clear checkbox to erase current chain.)					

Steps to take when a cow calves

Choose the Input Desk

43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Eile Waw Analysis Input Desk Tasks Set Report Printer Setup Tips Help	
😚 🚳 🐱 🖤 📰 🛃 🥙 🦉 🎆 🧱 Ref Date: 1/ 7/2008 🔽 Input Filter: Cow Heif All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View / CSV New Set Print Rpts i	Set Run Set for Tmp Grp Close Sets
Sets and Reports - Be sure Reference Date is correct	Reproductive Management
 >Standard Reports >User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management Tuesday 	Edit Set Rename Set Delete Set No Page Breaks List Report Titles in Set
PCDART Current: Cw 103	
Choose "Select Animal(s) Before Showing Input Form" and then "CalvedTimed AI"

43500328 - SW CENTER						
Input Desk		id mal Number/Name on Input iimal(s) Before Showing Inp		Date being Reported	10/29/20	008 👻 Close
		Individual Anima	l Procedures	Cow Heif All		Herd Procedures
Calve	ed	Health Cond	itions	Bd Wt, Lct#, Dt Ent		Assign Titles for U.D.Fields
Hea	ıt	Into Sick H	lerd	Birth Type		Blank a U.D.Field - all animals
Timed	AI	Out of Sick	Herd	BST		Zero Temp-Group # - all
Bre	d			Body Condition		Exch Grp#/Temp-Grp# - all
Vet / Repro	Check	New Co	W	Change ID		Move Batch to Group
Drie	d	New Heif	er	Change Index		Assign Health Condition ID
Lef	t	New Bu	II	Embryo Transfer		
Protocol Er	nrollment			Estimated Bred Date		Bull File Functions
Chore [Done			Prostaglandin		
Group N	umber	RFID		Sugg'd Service Sires		
User Define	ed Fields	Heifer Gro	wth	Temp-Group Number		
		Turned w	Bull	Modify Grower/Export		Review Input
CalvedTimedAl		No chain)	(No chain)	(No chain)	(No c	hain) (No chain)

Choose your "cow(s)" and "Apply Individually"

🚮 Calved Ti	medAl Provide	Index (you may	supply more th	an one)		-	
Pick List	Key Entry						
Cw 59	Cw 224	Cw 273	Cw 317	Hf 344	Hf 369	Hf 397	Apply Individually
Cw 94	Cw 225	Cw 276	Cw 320	Hf 345	Hf 370	Hf 399	
Cw 103	Cw 226	Cw 280	Cw 322	Hf 346	Hf 371	Hf 400	
Cw 109	Cw 229	Cw 286	Cw 323	Hf 347	Hf 372	Hf 401	
Cw 110	Cw 230	Cw 287	Cw 324	Hf 348	Hf 373	Hf 402	
Cw 118	Cw 233	Cw 288	Cw 325	Hf 349	Hf 374	Hf 403	Select by
Cw 131	Cw 235	Cw 289	Cw 326	Hf 350	Hf 375	Hf 404	Group or
Cw 139	Cw 236	Cw 290	Cw 327	Hf 351	Hf 376	Hf 405	Temp-Group
Cw 140	Cw 237	Cw 292	Cw 328	Hf 352	Hf 377	Hf 406	remp Group
Cw 163	Cw 239	Cw 294	Cw 329	Hf 353	Hf 378	Hf 407	
Cw 168	Cw 243	Cw 296	Cw 331	Hf 354	Hf 379	Hf 408	
Cw 178	Cw 245	Cw 297	Cw 332	Hf 355	Hf 380	Hf 409	
Cw 187	Cw 246	Cw 299	Cw 333	Hf 356	Hf 381	Hf 410	
Cw 190	Cw 247	Cw 301	Cw 337	Hf 357	Hf 382	Hf 411	
Cw 197	Cw 249	Cw 304	Cw 338	Hf 358	Hf 385	Hf 412	
Cw 207	Cw 250	Cw 305	Cw 339	Hf 359	Hf 386	Hf 413	
Cw 210	Cw 255	Cw 307	Cw 340	Hf 360	Hf 387	Hf 414	
Cw 212	Cw 261	Cw 308	Cw 341	Hf 361	Hf 388	Hf 415	
Cw 214	Cw 262	Cw 309	Cw 342	Hf 362	Hf 389	Hf 416	
Cw 215	Cw 264	Cw 310	Cw 343	Hf 363	Hf 390	Hf 417	Cow Heif All
Cw 216	Cw 265	Cw 311	Hf 295	Hf 364	Hf 392	Hf 418	
Cw 217	Cw 266	Cw 312	Hf 319	Hf 365	Hf 393	Hf 419	
Cw 218	Cw 268	Cw 313	Hf 330	Hf 366	Hf 394	Hf 420	<u>C</u> lose
Cw 221	Cw 269	Cw 314	Hf 334	Hf 367	Hf 395		
Cw 223	Cw 270	Cw 315	Hf 335	Hf 368	Hf 396		

Select the appropriate information in regard to date, calf, etc and then "Done"

Enter data				
Cw 59 (59)				Calved (P1)
				<u>S</u> et/Reset Skip
Calving Code	Calving Date	Sex-Disp Calf 1 7 •		
day	u may enter *### for ys in milk			
Cow's Body Wt (cwt) Group	Birth Diff Image: Object of the second se	Calf's Sire Id	Breed	
				Done
				<u>C</u> ancel
Colum 4/20/2000	Drad: 4. 6/42/2022	Devisione Bradi 420		
Calv: 1/30/2008 DIM: 274 Milk: 33.0 Lct#: 10 Grp 0	Bred: 1 6/13/2008 Repro: N	DaysSinceBred: 139	F2-Cow Page F6-View Input	

Choose "S" to start on Timed AI, then select the **TAI protocol**, and finally you are "**Done**"

Enter dat	a										
Cw	983 (9	983)				Tir	ned A. I. (P8)				
TAI Ac	tion <mark>S</mark>	•		her on TAI the start dat		clude her from TAI move exclusion	Done				
TALD	eference Da			Г	If bred, do n	iot warn					
		<u>C</u> ancel									
110/2	10/29/2008 She will be started on TAI as soon as possible on or after this date:										
Availat	ole TAI prote	ocols 1: POS (F	^p re-synch)			_					
ЫМ	28	42	56	63	65	66					
	PGH-1	PGH-2	GnRH-1	PGH	GnRH-2	Breed					
	11/25/08	12/09/08	12/23/08 start TUE	12/30/08	01/01/09	01/02/09 breed					
							" 				
	0/29/2008	_				F2-Cow Page					
DIM: 1 Lct#: 4		Repro: 9				F6-View Input					

The cow will now be in the presynch/ovsynch program!

Chapter 6 Using PC Dart Reproductive Synch Programs on a Weekly Basis

How do you apply it every week? Choose "Reproductive Management"

1 43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Elle View Analysis Input Desk Tasks Set Depuit Brinter Setup Tips Help	
Y 🕼 🔜 🛡 🎹 🗾 🥩 🦹 🎬 🎬 Ref Date: 1/ 8/2008 💽 Input Filter: Cow Heif All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View / CSV	New Set Print Rpts in Set Run Set for Tmp Grp Close Sets
Sets and Reports - Be sure Reference Date is correct	Reproductive Management
 Standard Reports User Reports Frequently Used Genetics and Heifers Health and Event Management Herd Activity and Status Milk Production and Udder Health Reproductive Management Tuesday 	Edit Set Rename Set Delete Set No Page Breaks List Report Titles in Set
PCDART Current: Cw 103	

Big Picture

- To obtain a list of all the cows ENROLLED in the program and when they should receive the proper injection, select "report 135."
- This gives you an overview of what to expect
- See next slide

Click on "Include User Defined Protocol (POS) and possibly Resync"

43090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
Elle View Analysis Input Desk Tasks Set Report Brinter Setup Tips Help	
🎌 🕰 式 🛡 🎹 🔝 💅 🎇 🎬 Ref Date: 1/ 8/2008 🗨 Input Filter: Cow Heif All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View / CSV New Set Print Rpts in Set Run	n Set for Tmp Grp Close Sets
Sets and Reports - Be sure Reference Date is correct	Report 135 in Reproductive Management
⊮->Standard Reports	Orientation Paper Size
⊕->User Reports	Change Font
⊕ Frequently Used	C Landscape C Legal Default Font
Genetics and Heifers	
B Health and Event Management B Herd Activity and Status	Include User Defined Protocols Select All
Milk Production and Udder Health	I: POS (Pre-synch)
□ Reproductive Management	🗖 2: ReSync (Re-synch)
090 Heat Expectancy List	
-094 Conception Rate Summary for A.I. Technicians	Undefined
100 Status and Breeding Summary	Undefined
– 106 Conception Rate Summary (Landscape) – 126 Pregnancy Rate Summary	Undefined
- 134 Timed AI - Eligible for Enrollment	
135 Timed Al - All Dates Format	Control Min Max
- 136 Timed Al - Next Week "To Do"	None
- 137 Timed AI - Today "To Do"	
- 144 Repro Measures for Vet Practitioner	Which Sort (Default is by Index)
-801 Herd Summary - Reproduction	Cows Only Only
□ 852 Reproductive Performance	○ Group then Date then BarnName
ia. Tuesday	C Heifers Only C Group then Date then Index
PCDART Current: Cw 103	

Output of report 135 Time AI (All Dates)

G			Cows					
r	Index	TAI						
р	Name	progrm	PGH-1	PGH-2	GnRH-1	PGH	GnRH-2	Breed
4	209	POS	12/25	01/08	01/22	01/29	01/31	02/01
4	799	POS	01/01	01/15	01/29	02/05	02/07	02/08
1	818	POS	01/08	01/22	02/05	02/12	02/14	02/15
4	844	POS	01/01	01/15	01/29	02/05	02/07	02/08
4	877	POS	01/01	01/15	01/29	02/05	02/07	02/08
4	888	POS	12/18	01/01	01/15	01/22	01/24	01/25
4	901	POS	12/25	01/08	01/22	01/29	01/31	02/01
4	922	POS	12/11	12/25	01/08	01/15	01/17	01/18
3	946	POS	12/11	12/25	01/08	01/15	01/17	01/18
4	977	POS	01/08	01/22	02/05	02/12	02/14	02/15
4	2008	POS	12/25	01/08	01/22	01/29	01/31	02/01
4	2015	POS	12/25	01/08	01/22	01/29	01/31	02/01
4	2063	POS	01/08	01/22	02/05	02/12	02/14	02/15
2	2076	POS	12/25	01/08	01/22	01/29	01/31	02/01
3	2084	POS	12/11	12/25	01/08	01/15	01/17	01/18
4	2152	POS	12/18	01/01	01/15	01/22	01/24	01/25
1	2159	POS	12/25	01/08	01/22	01/29	01/31	02/01
4	2160	POS	01/08	01/22	02/05	02/12	02/14	02/15
4	2161	POS	12/18	01/01	01/15	01/22	01/24	01/25
3	3659	POS	01/01	01/15	01/29	02/05	02/07	02/08
	20 Cow	7S						



Injection Day!

Choose report 137 (be sure to check the synch program, could be both POS and ReSync)

13090006 - UNIV. OF MO FOREMOST DAIRY - Test Date: 1/7/2008	
<u>File View Analysis InputDesk Tasks S</u> et <u>R</u> eport PrinterSetup <u>Ti</u> ps <u>H</u> elp	
🎌 😂 😹 🛡 睅 🗾 💅 🠮 🎬 Ref Date: 1/ 8/2008 💌 Input Filter: Cow Heif All	
Quick Entry ?	Reports
Preview Print PDF Edit New Grid View / CSV	New Set Print Rpts in Set Run Set for Tmp Grp Close Sets
Sets and Reports - Be sure Reference Date is correct	Report 137 in Reproductive Management
	Orientation Paper Size
	Change Font
Frequently Used	C Landscape C Legal Default Font
🗄 Genetics and Heifers	
🖶 Health and Event Management	Include User Defined Protocols
🖶 Herd Activity and Status	I: POS (Pre-synch)
■ Milk Production and Udder Health	□ 2: ReSync (Re-synch)
Reproductive Management	
090 Heat Expectancy List	- 3. CIDRUS (CIDR COSTINCH)
-094 Conception Rate Summary for A.I. Technicians	Undefined
- 100 Status and Breeding Summary	🗖 Undefined
 106 Conception Rate Summary (Landscape) 126 Pregnancy Rate Summary 	🗖 Undefined
- 134 Timed AI - Eligible for Enrollment	
- 135 Timed AI - All Dates Format	Control Min Max
	None
137 Timed AI - Today "To Do"	
144 Depre Measures for Vet Dregitioner	Which Sort (Default is by Index)
	© Cows Only
852 Reproductive Performance	C Group then Event then BarnName
🗉 Tuesday	C Heifers Only C Group then Event then Index
PCDART Current: Cw 103	

Output of Report 137

G			Cows							
r	Index	TAI	- Repro -	Tue	Wed	Thu	Fri	Sat	Sun	Mon
р	Name	progrm	Date cd	01/08	01/09	01/10	01/11	01/12	01/13	01/14
4	209	POS		PGH-2						
1	818	POS		PGH-1						
4	901	POS		PGH-2						
4	922	POS		GnRH-1		The second				
3	946	POS		GnRH-1		IN	s is th	e list y	ou wi	ill take
4	977	POS		PGH-1			out	to th	e pens	5
4	2008	POS		PGH-2					- p	
4	2015	POS		PGH-2						
4	2063	POS		PGH-1						
2	2076	POS		PGH-2						
3	2084	POS		GnRH-1						
1	2159	POS		PGH-2						
4	2160	POS		PGH-1						
	13 Co	ws								



To see which cows will be on the synchronization list next week Choose Report 136



Output of Report 136

G		6							
r	Index	Cows TAI - Repro -	Thu	Fri	Sat	Sun	Mon	Tue	Wed
p	Name	progrm Date cd	01/10		01/12	01/13	01/14	01/15	01/16
4	799	POS						PGH-2	
4	844	POS						PGH-2	
4	877	POS						PGH-2	
4	888	POS						GnRH-1	
4	922	POS						PGH	
3	946	POS						PGH	
3	2084	POS						PGH	
4	2152	POS						GnRH-1	
4	2161	POS						GnRH-1	
3	3659	POS						PGH-2	
	10 Cov	VS							

Chapter 7 Estrus Synchronization Programs

Ovsynch 56	Monday	(7 days)	Monday	(2 days)	Wednesday		Thursday			
	GnRH		PGF2		GnRH		Breed	1		
	AM		AM		4:00 PM		AM			
					Γ	1		-		
<u>Cosynch 72</u>	Monday	(7 days)	Monday	(3 days)	Thursday					
	GnRH		PGF2		Breed					
	AM		AM		GnRH					
SelectSynch	Manday	(7.1	Manday		Heat detect a	nd Broc	vd.	1		
<u>Ociculo ynun</u>	Monday GnRH	(7 days)	Monday PGF2				^{zu}	4		
	AM		AM					1		
								4		
Presynch + Ovsynch	Monday	(14 days)	Monday	(14 days)	Monday	(7 days)	Monday	(2 days)	Wednesday	Thursda
	PGF2		PGF2		GnRH		PGF2		GnRH	Breed
	AM		AM		AM		AM		4 PM	AM
				4.4		1		1		-
<u> Presynch + Cosynch</u>	Monday PGF2	(14 days)	Monday	(14 days)	Monday	(7 days)	Monday	(3 days)	Thursday Breed	_
			PGF2		GnRH AM		PGF2		AM	
	AM		AM		Alvi		AM			
G6G Ovsynch	Monday	(2 days)	Wed	(6 days)	Monday	(7 days)	Monday	(3 days)	Thursday	
-	PGF2		GnRH	/	GnRH		PGF2		Breed	
	AM		AM		AM		AM		АМ	
	4	•	•		-	•		•		
CIDPsynch						<u> </u>		7		
	Manday	(7	Manday	(0 1)	Wedneedey/	1	Thursday			

CIDRsynch	Monday	(7 days)	Monday	(2 days)	Wednesday	Thursday
	CIDR		CIDR		GnRH	Breed
	IN		Out		4:00 PM	AM
	GnRH		PGF2			
	AM		AM			

CIDR Cosynch	Monday	(7 days)	Monday	(66 hours)	Thursday	
	CIDR		CIDR		Breed	
	IN		Out 2PM		8:00 AM	
	GnRH		PGF2		Give GnRH at	
	AM		2 PM		Breeding	

Definitions

Calving interval ---The time between when the cow delivers a calf until the next calf is born

Conception rate ---The percentage of the number of cows that conceive divided by the number bred at the time of pregnancy check

Days open---The time from when a cow calves until when she conceives

Days to first service--- The time from when a cow calves until the first time she is bred

Estrus synchronization--- A program to group the heats in animals

First service conception rate--- The percentage of cows that conceive at the time of their first breeding

Heat Detection Rate--- Number of cows bred divided by the number of cows eligible to get bred over a 21 day period

Pregnancy Rate--- Number of cows that became pregnant divided by the number of cows eligible to get pregnant over a 21 day period

Voluntary waiting period--- A specified time after a cow calves that no breeding takes place or the time when you will start breeding your cows