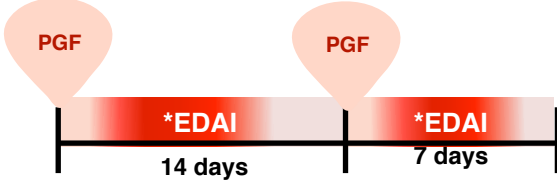


# Reproductive Management Strategies for Dairy Heifers

## Artificial insemination after detection of estrus

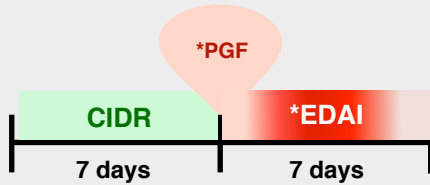
### A. Two PGF followed by heat detection



### Definitions and comments:

PGF = Prostaglandin F<sub>2α</sub>. \*Intensity of color in EDAI indicates estrus intensity. Most heifers are in estrus 2-7 days after PGF. Approximately 70% of the heifers will be in estrus in the first 14 days after the first PGF. The remaining heifers should be in estrus after the second PGF. Non-responding heifers might be prepubertal. TAI can be used to provide a breeding opportunity of heifers not detected in estrus

### B. CIDR program with PGF at removal



### Definitions and comments:

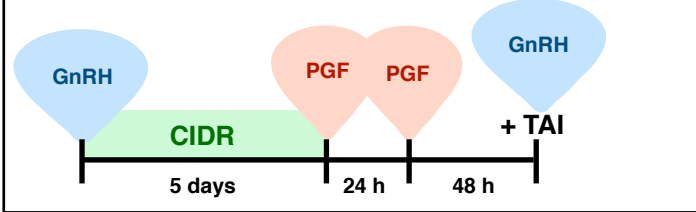
CIDR = Controlled internal drug release. Approximately 70% of heifers should be in estrus during 7 days after the CIDR removal. Non responding heifers may be prepubertal. CIDR-based programs may induce fertile entrees in some prepubertal heifers. \*PGF can be given on day 6 instead of 7 (One day before CIDR removal) to increase synchrony of estrus in the program

## Programs for timed AI

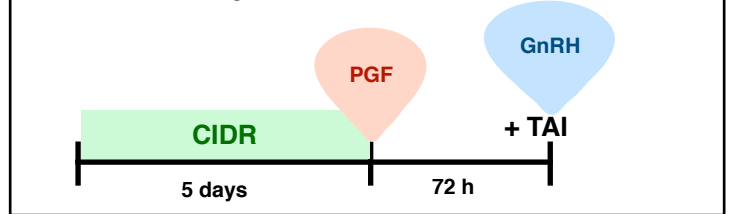
GnRH = Gonadotropin-releasing hormone.

For the timed AI program presented below, the option A yields greater number of pregnancies per insemination than option B

### A. 5-d CIDR-Synch with GnRH and 2 PGF



### B. 5-d CIDR-Synch without GnRH and 1 PGF



## Calendar options

### A. Two PGF followed by heat detection

SUN	MON	TUE	WED	THU	FRI	SAT
	PGF	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI	EDAI	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI	PGF	EDAI	EDAI	EDAI	EDAI	EDAI
EDAI	EDAI					

### B. CIDR program with PGF at removal

SUN	MON	TUE	WED	THU	FRI	SAT
	CIDR	CIDR	CIDR	CIDR	CIDR	CIDR
CIDR	CIDR	EDAI	EDAI	EDAI	EDAI	EDAI
	PGF					
EDAI	EDAI					

### C. 5-d CIDR-Synch with GnRH and 2 PGF

SUN	MON	TUE	WED	THU	FRI	SAT
			CIDR	CIDR	CIDR	CIDR
			GnRH			
CIDR	CIDR	PGF		GnRH		
	PGF			TAI		

**Note:** This reproductive management sheet was assembled by the Dairy Cattle Reproductive Council (DCRC). Programs are intended to promote sustainable food production through sound dairy practices. The DCRC recommends working with a licensed veterinarian or reproductive specialist for the proper administration of all treatments.