

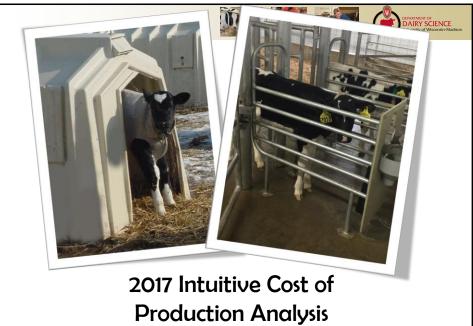




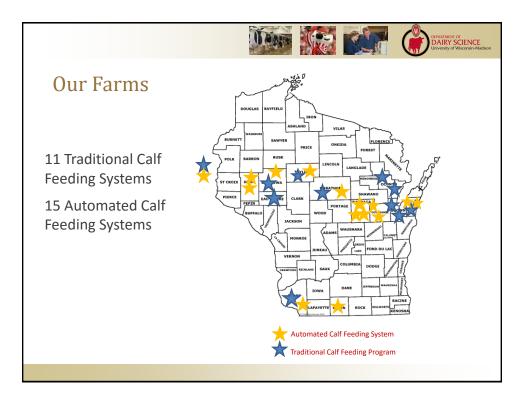
Cost of Raising a Calf in Wisconsin*				
1999	2007	2013		
\$160.26	\$326.07	\$363.69		
\$2.68	\$5.31	\$5.34		
59.7	61.36	68.6		
7.4	7.04	7.61		
	1999 \$160.26 \$2.68 59.7	1999 2007 \$160.26 \$326.07 \$2.68 \$5.31 59.7 61.36		

				DEPARTMENT OF DAIRY SCIENCE University of Wisconsin-Madison			
Cost Per Day To Raise A Calf							
		Calf Cost	per Day*				
	Tie-Stall	Free-Stall	Grower	All			
Feed Costs	\$2.44	\$2.36	\$2.00	\$2.37			
Paid Labor & Management	\$0.74	\$1.12	\$0.95	\$0.99			
Other Variable Costs	\$0.70	\$0.86	\$0.73	\$0.80			
Fixed Costs	\$0.21	\$0.50	\$0.21	\$0.35			
Total Cost	\$5.63	\$5.79	\$3.92	\$5.51			
			Does not inclu	ude calf value			





Individual versus Automated Calf Feeding



I ages	
Key Calf Assu	mptions
Item	
Calf Value	\$200
Labor (paid and unpaid)	\$13 per hour
Management (paid and unpaid)	\$22 per hour
Interest rate	4.5%
Waste milk (non-saleable)	\$8 per cwt (feed costs)
Whole milk (saleable)	\$17 per cwt (market value)
Replacement Value of Calf Housing*	
Homemade calf hutch	\$200
Purchased calf hutch	\$400
Greenhouse barn	\$10 per square foot
Post-frame calf building	\$15.50 per square foot
*Provided by UW-Extension Dairy Engineering	Specialist David Kammel, 2017

Historical Cost of Raising a Calf in WI Birth to Time When Moved to Transition Housing						
	1999	2007	2013	2017 Individual Housing	2017 Autofeeder	
Total Cost	\$160.26	\$326.07	\$363.69	\$419.62	\$431.19	
Daily Cost	\$2.68	\$5.42	\$5.51	\$5.84	\$6. 3 5	
Days on Feed (birth to moving)	59.70	61.36	68.60	70.32	67.85	
Weaning Age Weeks Days	7.40 51.80	7.04 49.28	7.61 53.27	7.86 55.02	7.96 55.72	

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Cost of Raising a Calf - Total				
Birth to Time When Moved to Transition				
	Cost p	er Calf*		
	Individual Automated (n=11) (n=15)			
Feed costs	\$165.53	\$202.00		
Liquid	\$111.95	\$140.50		
Starter	\$53.26	\$60.96		
Paid Labor & Management	\$116.52	\$74.13		
Other Variable Costs	\$40.75	\$47.76		
Fixed Costs	\$40.89	\$77.69		
Total Allocated Cost	\$363.69	\$401.58		
Unpaid Labor/Management	\$55.93	\$29.61		
Allocated Cost + Unpaid Labor/Mgmt	\$419.62	\$431.19		
	*Does no	ot include calf value		

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Cost of Raising a Calf - Daily				
Birth to Time When Moved	to Transition			
	Cost p	er Calf*		
	Individual (n=11)	Automated (n=15)		
Feed costs	\$2.35	\$2.93		
Liquid	\$1.60	\$2.08		
Starter	\$0.75	\$0.84		
Paid Labor & Management	\$1.57	\$1.18		
Other Variable Costs	\$0.59	\$0.73		
Fixed Costs	\$0.58	\$1.13		
Total Allocated Cost	\$5.09	\$5.97		
Unpaid Labor/Management	\$0.75	\$0.38		
Allocated Cost + Unpaid Labor/Mgmt	\$5.84	\$6.35		
	*Does not includ	le calf value		

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Feeding Costs				
	Individual	Automated		
\$/calf/day	\$1.60	\$2.08		
\$/calf/day	\$0.75	\$0.84		
\$/calf/day	\$1.46	\$2.56		
lb/calf	79.7	134.4		
\$/calf/day	\$1.18	\$1.27		
lb/calf	106.9	115.2		
\$/calf/day	\$0.30	\$0.33		
lb/calf	11.8	15.5		
	\$/calf/day \$/calf/day \$/calf/day b/calf \$/calf/day b/calf \$/calf/day	Individual\$/calf/day\$1.60\$/calf/day\$0.75\$/calf/day\$1.46Ib/calf79.7\$/calf/day\$1.18Ib/calf106.9\$/calf/day\$0.30		

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Liquid Feeding Costs				
Milk replacer cost	\$/lb powder	1.34		
Pasteurized whole milk (includes pasteurizer cost)	\$/lb solids or \$/gallon	0.77		
 Operations feeding higher m reduce cost by using pasteuriz Avg. cost of pasteurizer/lb so 	ed whole milk	lida		

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Fixed Costs: Housing & Equipment							
Individual Automated							
Housing	\$/calf/day	0.39	0.80				
Equipment	\$/calf/day	0.19	0.33				
Equipment\$/calf/day0.190.33Automated facilities higher due to newer facilitiesAll automated systems less than 10 years old• Many traditional systems over 20 years oldNew facilities had less depreciation							

• As facilities age, difference will likely lessen

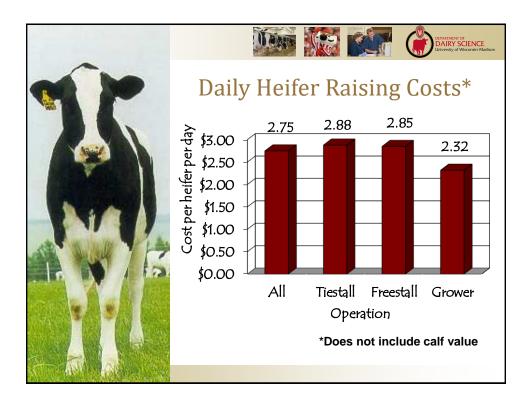
	U ALATT		DEPARTMENT OF DAIRY SCIEN University of Wilsom		
Labor & Management					
		Individual	Automated		
Labor (paid & unpaid)	\$/calf/day	\$1.99	\$1.30		
Management (paid & unpaid)	\$/calf/day	\$0.33	\$0.26		
Labor & Management Required	hours/calf	12.5	7.4		
Labor Efficiency	calves/hour	7.8	11.6		
	calves/day	62.7	93.2		





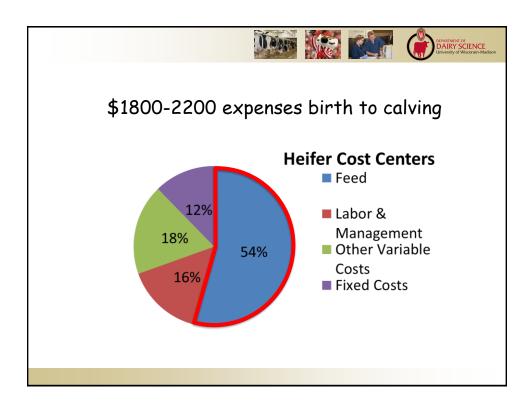
	Den 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 19	🛒 🌔	DEPARTMENT OF DAIRY SCIENCE University of Wisconsin-Madison
	Heifers: Key As Feed Cost Up	•	ion
	Feed Costs per ton DM:	2013	2015
	Legume Silage	\$200	\$150
A TANK	Corn Silage	\$140	\$100
	Corn	\$250	\$170
	Weigh-backs	\$150	\$100
	Soybean Meal	\$375	\$350

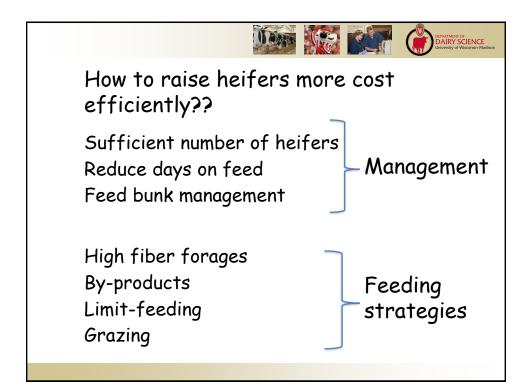
	Cost of I	Raising	a Heife	r in Wis	consin*		
		1999	2007	2013	2015		
	Total Cost	\$1099.12	\$1322.70	\$1905.13	\$1730.29		
	Daily Cost	\$1.61	\$2.04	\$3.07	\$2.75		
5	Days on Feed	683	648	630	630		
	*Does not include calf value						

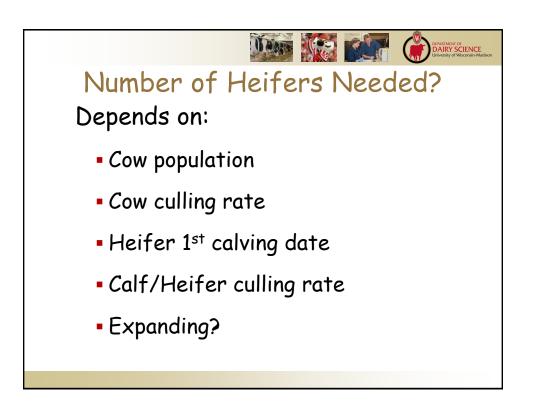


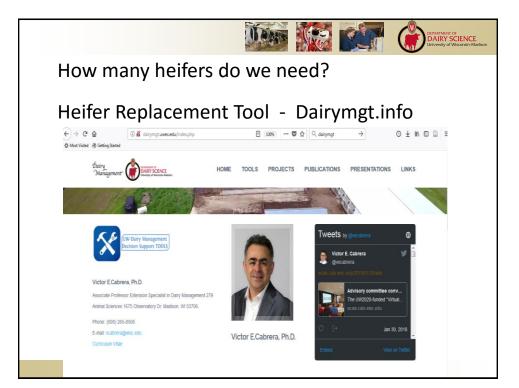
Day To Raise A Heifer Heifer Cost per Day*					
stall Grow	ver All				
58 \$1.3	31 \$1.44				
51 \$0.3	39 \$0.54				
45 \$0.3	\$3. \$0.42				
33 \$0.2	29 \$0.35				
85 \$2.3	32 \$2.75				
2.8	2.85 \$2.3				

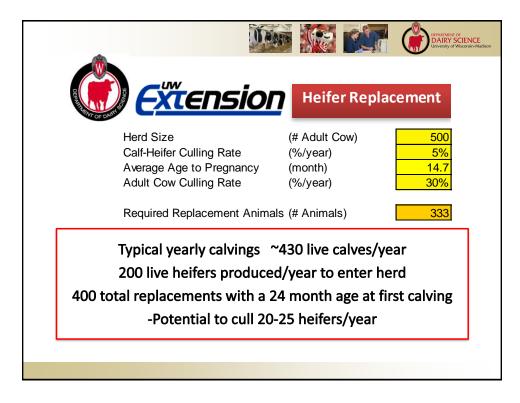
Total Cost to Raise a Dairy Replacement from Birth to Freshening*								
	1999	2007	2013	2015				
Total Cost	\$1259.38	\$1648.77	\$2268.82	\$2105.11				
Days on Feed	743	709	699	699				
Calving Age (months)	24.6	23.9	23.4	23.4				
*Does not include calf value								

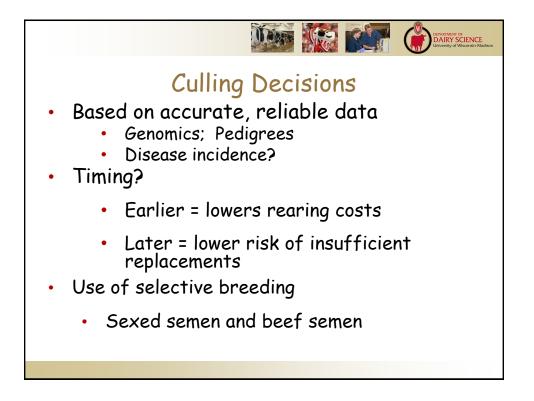


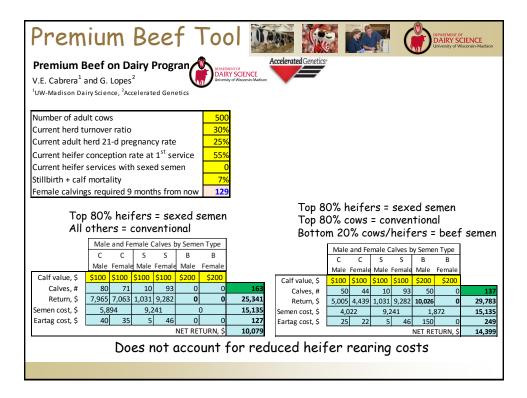


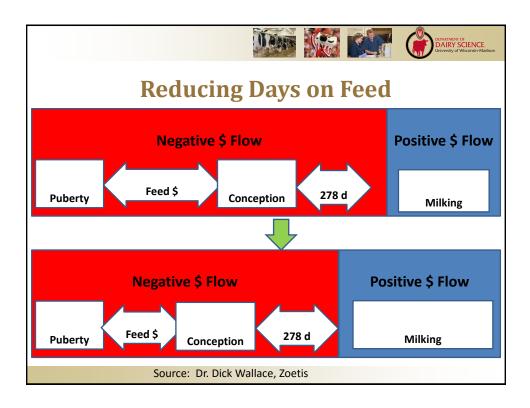
















Calving Age (Averages and Va	riance)				dillo	ersity of Wisconsin
	Your Herd	Goals	Herd:	Sample Herd		
Statistics Summary			Address:	Address		Π I
Average age @ first calving, mo	25.3	23-24 mo	City, State, Zip: City, State - Zip			- I
Minimum calving age, mo	22.6	n/a	Email: email@example.com			Ξ.
Maximum calving age, mo	29.1	n/a	email@example.com			
Heifers calving/year, n	85.0	n/a				
Calving age deviation, mo	1.4	<1.7 mo				ר ו ר
Kurtosis	0.1	n/a	5		Y	
Skewness	0.7	> 1.5				
Range and Variance			Rearing (oct		
Youngest calving age (typical), mo	23.0	> 21 mo	Kearing (.030		
Oldest calving age (typical), mo	28.4	< 28 mo	Excess rearing days,		23.5	0 da
Calving age range (typical), mo	5.4	< 6.0	days/heifer			
Days on feed variance, d	165	< 200	Excess rearing cost, \$/heifer		52.9	\$0
Calving body weight variance, Ibs	281	< 325	Excess herd rearing days,		2000	0 da
Breeding Efficiency			days/he			
True heifer pregnancy rate©, %/mo	43.9	> 42.5	Excess rearing cost, \$/herd		4500	\$0
Average pregnancy age, mo	16.3	14.0-14.5				. · ·
First (start) breeding age, mo	14.0	12.5-13.0	8, 10			
© Copyright: Patrick C. Hoffman Rearing Cost	12/3/201	2	signed to a construction of the construction o	1.		
Excess rearing days, days/heifer	23.5	0 days				
Excess rearing cost, \$/heifer	52.9	\$0	10 12		24 26	
Excess herd rearing days, days/herd	2000	0 days	11 13	3 15 17 19 21 23 Age.mo	25	

