

University of Minnesota Beef Research Update

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Fertilizer Value of Manure

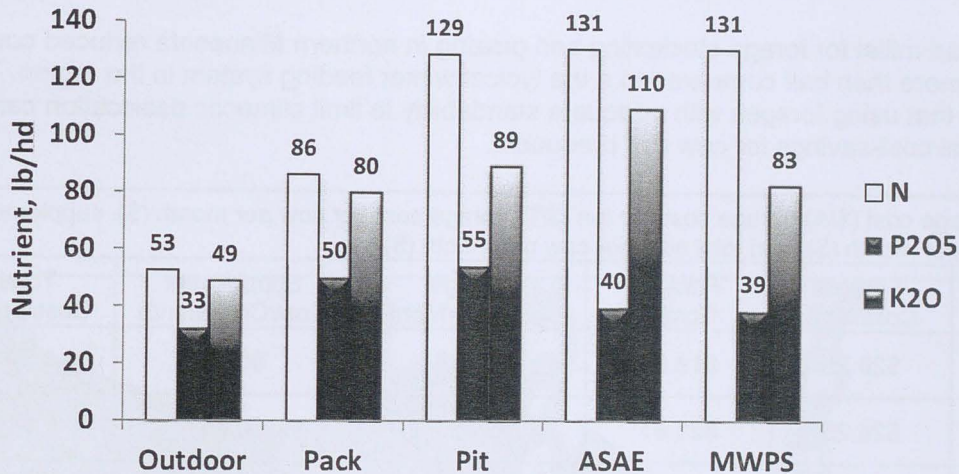
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Differences do exist in capacity of each feedlot design evaluated to retain nutrients from manure; those on slatted-floors over a pit retaining the most nutrient value. Further, even at lower nutrient retention values, net value of manure was at a minimum of \$22/head for open and manure pack feedlots and at a maximum of \$42/head for feedlots on slats with a manure pit.



Estimated annual manure nutrient yield (lb/hd) derived from outdoor lot (manure yield: 3 ton/hd), manure pack (manure yield: 5 ton/hd) or confinement pit (manure yield: 2,500 gal/hd) cattle feedlots. Estimates of manure nutrient yield derived from commonly accessed publications (ASAE D384.2 MAR 2005; MWPS-18 Sec. 1, 2nd ed. 2004) are provided as a reference.

Effects of Change in Body Composition on Oocyte Competence in Beef Cattle

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Body condition score (BCS) of recipient altered diameter of the preovulatory follicle and subsequent CL as well as progesterone concentrations; however, this was not reflected in pregnancy rates, but tended to impact weaning weights of the resulting offspring. Furthermore, BCS of the embryo donor did not affect pregnancy establishment or overall embryo quality score, but impacted the number of freezable embryos collected and the percentage of freezable embryos per flush.

Effect of body condition score (BCS) of donor and embryo recipient on pregnancy success.							
	Recipient BCS ^a		Donor BCS ^b		P-Value		
	R6	R4	D6	D4	Receipt	Donor	R*D
BCS @ Calving	5.2 ± 0.04	5.2 ± 0.04	5.2 ± 0.04	5.2 ± 0.03	NS	NS	NS
BCS @ ET	6.1 ± 0.05	4.1 ± 0.04	.	.	<0.001	NS	NS
Pregnancy rate, n (%)	24/44 (54.5%)	21/41 (51.2%)	23/43 (53.5%)	22/42 (52.4%)	NS	NS	NS

^aBCS of embryo recipient at time of embryo transfer.

^bBCS of embryo donor at time of embryo recovery.

Winter Grazing Stockpiled Forage Millet to Reduce Winter Feed Costs in Minnesota

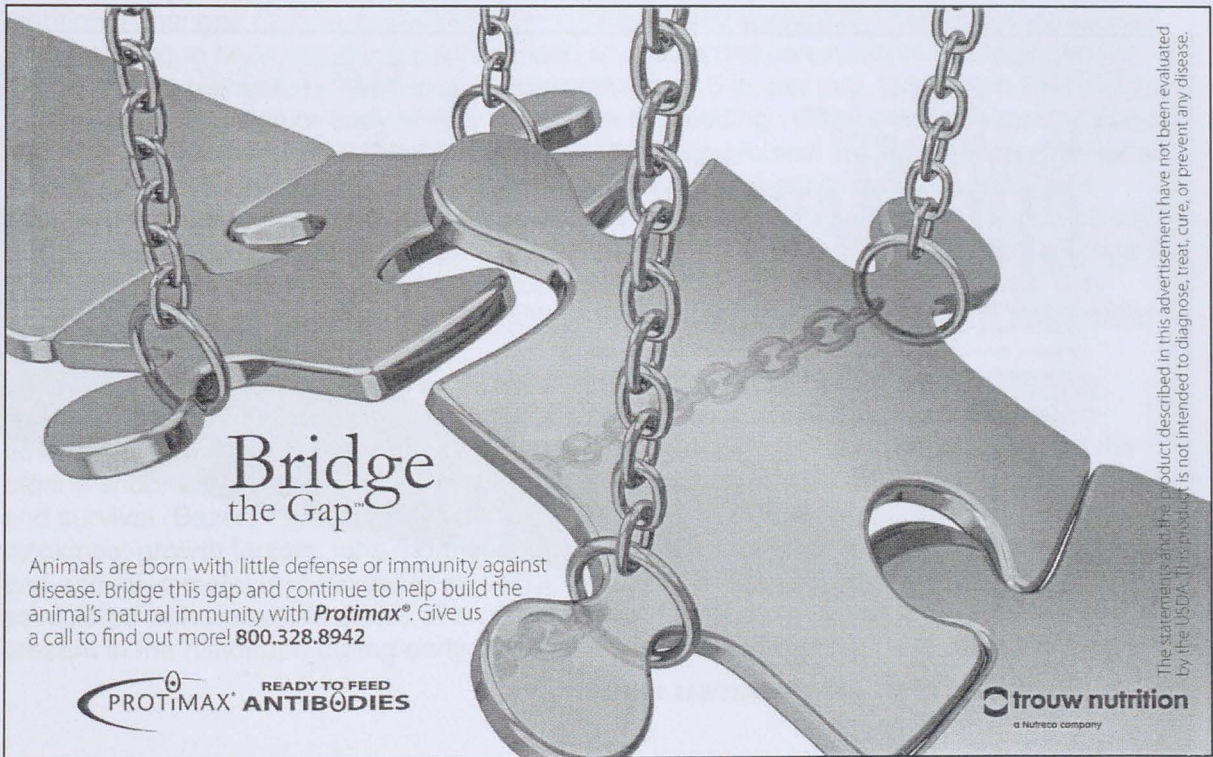
E. Mousel, A. Bridges, and R. Mathison

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Using Pearl millet for forage stockpiling and grazing in northern Minnesota reduced cow winter costs by more than half compared to a the typical winter feeding system in the region. This suggests that using forages with adequate standability to limit climactic desiccation can result in substantial cost-savings for cow calf producers.

Total forage cost (\$/A), forage cost per ton (\$/T), forage cost per cow per month (\$), supplement cost per cow per month (\$), and total cost per cow per month (\$).					
	Forage Cost/Acre	Forage Cost/T	Forage Cost/Cow/Month	Supplement Cost/Cow/Month	Total Feed Cost/Cow/Month
Rep 1	\$26.25	\$19.58	\$7.83	\$6.75	\$14.58
Rep 2	\$26.25	\$21.51	\$8.60	\$6.75	\$15.35
Control		\$72.51	\$36.25	\$8.10	\$44.35

Notes



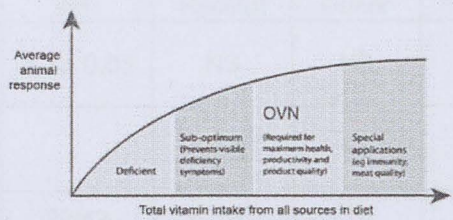
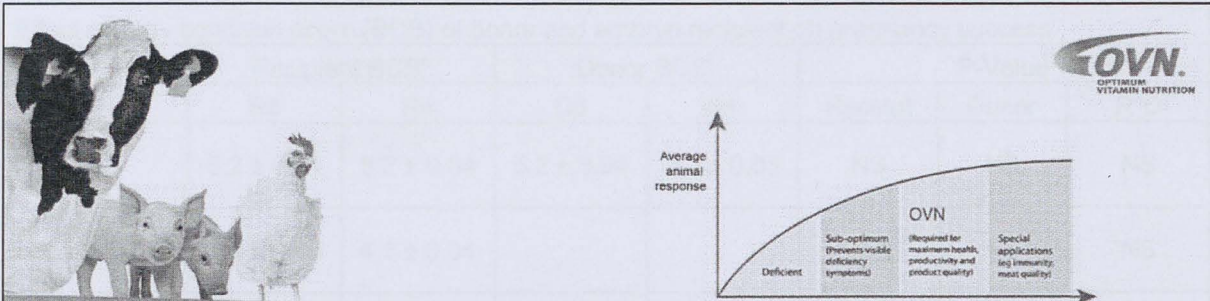
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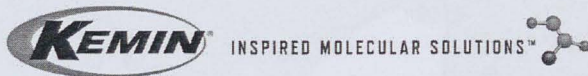


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