



DAIRY SCIENCE 2007

Meeting the challenges for pasture-based dairying

Cow diets and management impact nutrient losses from dairy farms in US

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Impact of feed management on milk production, feed N (FNUE) and feed P (FPUE) use efficiencies on 54 Wisconsin dairy farms

Practice	Practice use	Daily milk production kg/cow	FNUE	FPUE
				%
Use of total mixed rations	Yes	33.5 a	27.0 a	28.9
	No	26.1 b	24.1 b	29.0
Balance rations at least 4x/ y	Yes	30.6 a	26.5 a	30.0 a
	No	24.7 b	21.0 b	24.8 b



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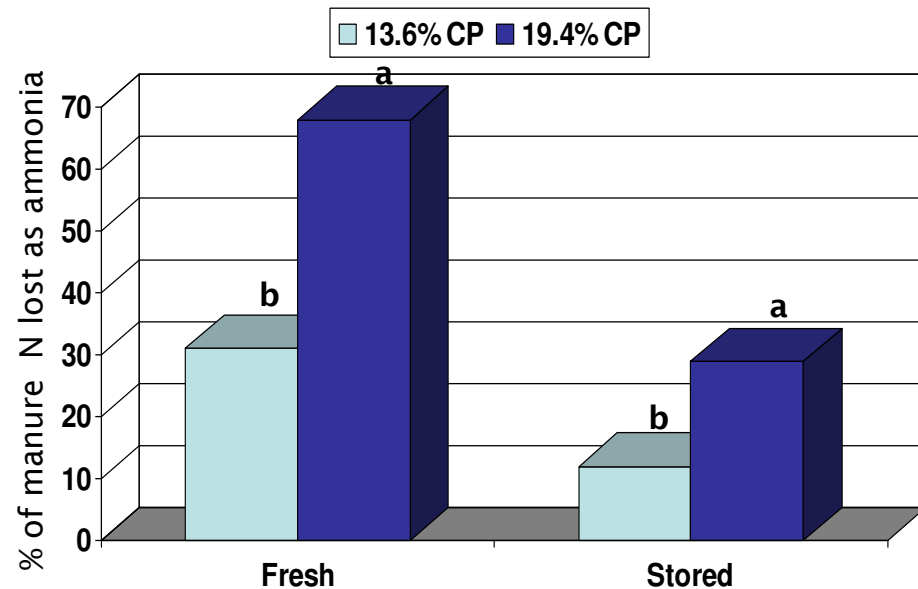
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Diet CP impacts on ammonia losses

Urine N production

	13.6% CP	19.4% CP
Manure N g/cow/d	222 b	314 a
% Urine N	52 b	68 a
% Fecal N	48 a	32 b

Ammonia emissions after manure application to soil



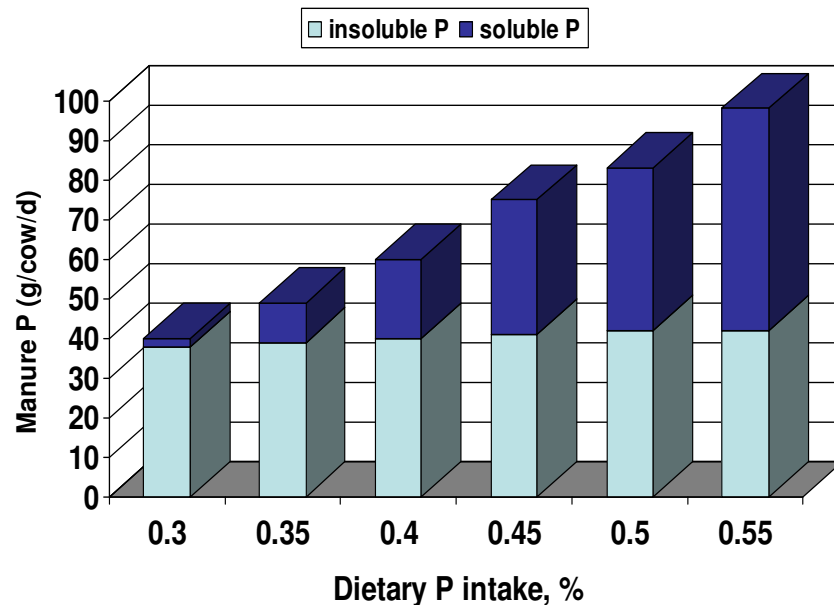


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Diet P impacts on runoff P

Manure P



Runoff P

