

Penn State Study Composition

Ron Gargasz
Ron Gargasz Organic Farms
 129 Old Ash Rd
 Volant, PA 16156
 724-530-7220

Gargasz Summer Sample:
 Breed: Limousin x Angus
 Sex: Heifer
 Slaughter Date: 06/06/06
 Estimated Pasture DMI: 50%
 Feeding Strategy: Pasture+ Stored Feeds

Gargasz Fall Sample:
 Breed: Limousin x Angus
 Sex: Heifers (2)
 Slaughter Date: 10/10/06 & 11/03/06
 Estimated Pasture DMI: 40%
 Feeding Strategy: Pasture+ Stored Feeds

Fatty Acid Composition: average of each feeding strategy and Ron Gargasz Samples

Feeding Strategy	Total # Samples	Omega-6		Omega-3		Omega-6:Omega-3		CLA	
		% g/g	Std Err	% g/g	Std Err	Ratio	Std Err	% g/g	Std Err
Retail	9	2.7 ^a	0.3	0.2 ^c	0.1	17.7 ^a	2.4	0.4 ^c	0.1
Pasture	21	2.0 ^a	0.2	0.7 ^a	0.1	3.4 ^c	1.5	0.8 ^a	0.1
Pasture+ Stored Forage & Grain	10	2.3 ^a	0.3	0.8 ^a	0.1	3.4 ^c	2.1	0.7 ^a	0.1
PA-Stored Feeds	12	2.6 ^a	0.3	0.3 ^b	0.1	12.6 ^b	2.0	0.4 ^b	0.1
<i>Gargasz Summer Sample</i>		2.3		1.2		1.9		0.7	
<i>Gargasz Fall Sample</i>		2.4		1.4		1.7		0.8	

Omega-6= (C18:2,trans-9,12)+ (C18:2,cis-9,12)+ (C18:3,cis-6,9,12)+(C20:2,cis-11,14)+ (C20:3,cis-8,11,14)+ (C20:4,cis-5,8,11,14)+ (C22:2,cis-13,16).

Omega-3= (C18:3,cis-9,12,15)+ (C20:3,cis-11,14,17)+ (C22:6,cis-4,7,10,13,16,19).

CLA= (C18:2,cis-9,trans-11)+ (C18:2,trans-10,cis-12).

a, b, c indicate feeding strategies that differed significantly at p<0.05 for given fatty acid