**Table S2.** Effect of diet on milk fatty acid composition in cows

		Treatment <sup>1</sup>			SEM	P
	HF	HF-RS	LF	LF-SO	n= 12	
Fatty acid	(	g/100 g of fatt	y acids) -			
C4:0	3.10	2.99	2.98	2.95	0.082	0.57
C5:0	0.005	0.010	0.073	0.005	0.034	0.44
C6:0	2.19°	1.85 <sup>b</sup>	2.25 <sup>c</sup>	1.64 <sup>a</sup>	0.041	0.001
C7:0	$0.022^{c}$	$0.014^{b}$	$0.023^{\mathrm{c}}$	$0.005^{a}$	0.001	0.001
C8:0	1.40°	1.06 <sup>b</sup>	1.45 <sup>c</sup>	$0.88^{a}$	0.029	0.001
C9:0	$0.030^{\circ}$	$0.018^{b}$	0.031 <sup>c</sup>	$0.012^{a}$	0.002	0.001
C10:0	3.28°	2.19 <sup>b</sup>	3.41 <sup>c</sup>	1.82 <sup>a</sup>	0.075	0.001
C10:1	0.39°	$0.26^{\mathrm{b}}$	0.41 <sup>c</sup>	$0.19^{a}$	0.010	0.001
C11:0	0.06°	$0.03^{\mathrm{b}}$	$0.05^{\rm c}$	$0.02^{a}$	0.004	0.001
C12:0	3.81°	$2.40^{\rm b}$	3.92°	$2.06^{a}$	0.077	0.001
C13:0	$0.10^{b}$	$0.09^{\mathrm{b}}$	$0.10^{b}$	$0.07^{a}$	0.005	0.001
iso14	$0.18^{b}$	$0.17^{b}$	$0.14^{a}$	$0.12^{a}$	0.006	0.001
C14:0	12.41°	9.58 <sup>b</sup>	12.46°	8.59 <sup>a</sup>	0.196	0.001
iso15	0.36°	0.34°	$0.30^{\mathrm{b}}$	$0.25^{a}$	0.010	0.001
ante15	0.68°	0.65°	0.59 <sup>b</sup>	$0.49^{a}$	0.018	0.001
C14:1cis9	1.24 <sup>b</sup>	$0.87^{a}$	1.16 <sup>b</sup>	$0.79^{a}$	0.031	0.001
C15:0	1.30°	1.21 <sup>b</sup>	1.16 <sup>b</sup>	$0.96^{a}$	0.024	0.001
iso16	0.33°	$0.28^{\mathrm{b}}$	$0.30^{\mathrm{bc}}$	$0.24^{a}$	0.009	0.001
C16:0	33.11 <sup>c</sup>	23.20 <sup>b</sup>	32.87°	19.82 <sup>a</sup>	0.600	0.001
iso17	$0.41^{b}$	$0.38^{a}$	$0.38^{a}$	0.44°	0.008	0.001
C16:1tr9	$0.06^{a}$	$0.07^{\rm a}$	$0.05^{a}$	$0.27^{\mathrm{b}}$	0.011	0.001
C16:1tr11	$0.010^{a}$	$0.026^{b}$	$0.014^{a}$	$0.042^{c}$	0.002	0.001

C16:1cis9	1.49 <sup>b</sup>	$1.07^{a}$	1.38 <sup>b</sup>	0.96°	0.053	0.001
C16:1cis11	0.034 <sup>b</sup>	$0.029^{ab}$	$0.030^{ab}$	$0.025^{a}$	0.003	0.09
C17:0	$0.58^{d}$	0.55°	$0.52^{b}$	$0.47^{a}$	0.007	0.001
iso18	0.061 <sup>c</sup>	$0.055^{\mathrm{b}}$	$0.052^{b}$	$0.044^{a}$	0.002	0.001
C17:1	0.23 <sup>b</sup>	$0.22^{b}$	0.19 <sup>a</sup>	$0.18^{a}$	0.007	0.001
C18:0	8.33°	15.44 <sup>c</sup>	9.21 a	13.85 <sup>b</sup>	0.455	0.001
C18:1tr4	$0.006^{\mathrm{a}}$	$0.031^{b}$	$0.007^{a}$	0.045°	0.003	0.001
C18:1tr5	$0.005^{\mathrm{a}}$	$0.021^{b}$	$0.007^{a}$	$0.032^{c}$	0.003	0.001
C18:1tr6,7,8	$0.12^{a}$	$0.36^{b}$	$0.13^{a}$	0.68°	0.015	0.001
C18:1tr9	$0.16^{a}$	$0.30^{b}$	0.16 <sup>a</sup>	0.53°	0.011	0.001
C18:1tr10	$0.17^{\mathrm{a}}$	$0.30^{a}$	0.19 <sup>a</sup>	1.34 <sup>b</sup>	0.097	0.001
C18:1t11	$0.96^{\mathrm{a}}$	1.20 <sup>a</sup>	$0.77^{a}$	5.17 <sup>b</sup>	0.173	0.001
C18:1tr12	$0.12^{a}$	$0.29^{b}$	$0.14^{a}$	0.70°	0.012	0.001
C18:1t13	0.31 a	$0.60^{\mathrm{b}}$	$0.34^{a}$	0.95°	0.051	0.001
C18:1cis9	17.32 <sup>a</sup>	26.08 <sup>b</sup>	17.32 <sup>a</sup>	25.34 <sup>b</sup>	0.504	0.001
C18:1cis11	0.51 ab	0.54 <sup>b</sup>	$0.47^{a}$	$0.55^{\mathrm{b}}$	0.016	0.02
C18:1cis12	$0.09^{\rm a}$	$0.11^{a}$	$0.10^{a}$	$0.30^{b}$	0.009	0.001
C18:1cis13	$0.04^{\rm a}$	$0.07^{\mathrm{b}}$	$0.04^{a}$	$0.08^{b}$	0.004	0.001
C18:1cis14	$0.16^{a}$	$0.30^{b}$	$0.18^{a}$	0.51 <sup>c</sup>	0.011	0.001
C19:0	$0.054^{\rm bc}$	0.058°	$0.048^{b}$	$0.018^{a}$	0.000	0.001
C18:1cis15+tr17	$0.07^{\rm a}$	$0.10^{b}$	$0.07^{a}$	0.14 <sup>c</sup>	0.004	0.001
C18:2c9tr13	0.11 <sup>a</sup>	$0.17^{b}$	$0.10^{a}$	0.28°	0.007	0.001
C18:2c9t12	$0.029^{\mathrm{a}}$	$0.062^{b}$	$0.041^{a}$	0.118 <sup>c</sup>	0.006	0.001
C18:2t11c15	$0.035^{ab}$	0.062°	$0.024^{a}$	$0.042^{b}$	0.005	0.001
18:2n-6	1.11 <sup>b</sup>	$0.88^{a}$	1.23°	$1.33^{d}$	0.031	0.001
C20:0	0.13 a	$0.26^{b}$	0.13 a	0.13 a	0.007	0.001

C18:3n6	$0.020^{a}$	$0.010^{a}$	$0.027^{b}$	0.016 <sup>a</sup>	0.003	0.002
C20:1cis8	$0.11^{a}$	$0.20^{\mathrm{b}}$	$0.10^{a}$	$0.11^{a}$	0.006	0.001
C20:1cis11	$0.026^{a}$	$0.055^{\mathrm{b}}$	$0.023^{a}$	$0.037^{a}$	0.006	0.007
C18:3n3	$0.38^{c}$	0.38°	$0.30^{\mathrm{b}}$	$0.22^{a}$	0.009	0.001
CLA(c9tr11)	$0.45^{a}$	0.51 a	0.35 a	$2.27^{\rm b}$	0.085	0.001
C21:0	0.012	0.011	0.011	0.008	0.003	0.95
Total CLA	$0.49^{a}$	0.56 <sup>a</sup>	$0.38^{a}$	2.35 <sup>b</sup>	0.087	0.001
C20:2n6	0.01	0.01	0.01	0.01	0.002	0.08
C22:0	$0.06^{b}$	$0.08^{\mathrm{c}}$	$0.05^{a}$	$0.06^{b}$	0.003	0.001
C20:3n6	$0.07^{\mathrm{b}}$	$0.05^{a}$	$0.07^{\mathrm{b}}$	$0.05^{\rm a}$	0.002	0.001
C20:4n6	$0.10^{\mathrm{c}}$	$0.07^{\mathrm{b}}$	$0.10^{\mathrm{c}}$	$0.06^{a}$	0.002	0.001
C22:2n6	$0.023^{\mathrm{b}}$	$0.022^{b}$	$0.026^{\mathrm{b}}$	$0.013^{a}$	0.002	0.008
C24:0	0.037	0.038	0.037	0.032	0.003	0.64
C20:5n3	$0.042^{c}$	$0.036^{\mathrm{bc}}$	$0.034^{b}$	$0.013^{a}$	0.003	0.001
C22:4n6	$0.012^{c}$	$0.0001^{a}$	$0.008^{\mathrm{bc}}$	$0.004^{ab}$	0.002	0.005
C22:5n3	0.069°	$0.061^{b}$	0.073 <sup>c</sup>	$0.043^{a}$	0.003	0.001
<sup>a-c</sup> Means within a row with diff <sup>1</sup> Treatments: HF = high forage <sup>2</sup> CLA = conjugated linoleic aci	HF-RS = high			ds; LF = low fo	orage; LF-S	SO = low forage with sunflowe