1 Supplementary Material

2 Fatty acid concentrations in plasma (mg/100g of total fatty acids) for the 3 geographical

3 groups*

9

10

	Northwest		Northeast		Southwest	
	Mean	SD	Mean	SD	Mean	SD
14:0	2698 bc	1211	1962 ^a	683	1606 ^a	584
16:0	26460	3755	27409	2466	26666	2906
$16:1^{\dagger}$	2010 ^c	1596	1815 ^c	805	1254 ^{ab}	784
18:0	1679 bc	532	3003 ^a	469	3007 ^a	844
18:1	25001 ^c	4005	25825 ^c	4083	27777 ^{ab}	4619
18:2n-6	28961	5819	29119	5562	27490	6367
$18:3n-6^{\dagger}$	31 bc	21	21 ^{ac}	19	56 ^{ab}	67
$18:4n-3^{\dagger}$	65 bc	70	14 ^{ac}	12	20^{ab}	28
$\mathbf{20:1}^{\dagger}$	390 bc	440	165 ^{ac}	98	217^{ab}	125
20:3n-6	303 bc	129	573 ^{ac}	188	718 ^{ab}	339
20:4n-6	8318 ^b	2026	5777 bc	1392	7185 ^b	1761
$20:4\text{n-3}^{\dagger}$	123 bc	119	21 ^a	24	19 ^a	21
$20:5\text{n-3}^{\dagger}$	865 bc	676	1547 ^{ac}	1105	490^{ab}	464
$22:4n-6^{\dagger}$	415 bc	255	78 ^a	36	96 ^a	45
22:5n-3	881 bc	577	356 ^a	181	498 ^a	205
22:6n-3	1799 ^{bc}	973	2313 ^a	889	2271 ^a	987

^{*} Differences between groups were assessed using ANOVA controlling for gender with

1

⁵ Scheffe post hoc tests on the variable showing significance

^{6 &}lt;sup>†</sup>Statistics performed on logged data where data were not normally distributed

⁷ abc Mean values within a row were significantly different (P = 0.015): a significantly different

⁸ from NW, ^bsignificantly different from NE and ^csignificantly different from SW