

Supplementary Material 1 Genetic (above the diagonal), and phenotypic (below the diagonal) correlations among milk traits, SCS, morphological and beef traits

analyzed. Values reported are means and HPD of the marginal posterior density's region of estimates at 5 and 95% (within brackets).

TRAIT ¹	MY	FY	PY	SCS	F2 UV	F3 UC	F7 RL	HT	RM	ADG	SEUROP	CY
MY		0.758	0.845	0.069	0.330	-0.448	0.060	-0.091	-0.458	-0.071	-0.240	-0.156
		(0.732	(0.829	(-0.001	(0.235	(-0.546 -	(-0.066	(-0.191	(-0.547 -	(-0.362	(-0.491	(-0.363
		0.781)	0.860)	0.141)	0.421)	0.354)	0.182)	0.011)	0.365)	0.187)	0.001)	0.051)
FY	0.768		0.824	0.067	0.286	-0.326	0.045	-0.136	-0.413	-0.092	0.029	-0.103
	(0.752		(0.804	(-0.008	(0.185	(-0.429 -	(-0.086	(-0.241 -	(-0.514 -	(-0.339	(-0.196	(-0.390
	0.802)		0.844)	0.144)	0.383)	0.224)	0.175)	0.033)	0.316)	0.145)	0.233)	0.140)
PY	0.905	0.766		0.088	0.289	-0.423	0.099	-0.169	-0.397	-0.066	0.175	-0.156
	(0.850	(0.244		(0.014	(0.188	(-0.521 -	(-0.031	(-0.274 -	(-0.493	(-0.280	(-0.102	(-0.385
	0.960)	0.247)		0.164)	0.388)	0.322)	0.228)	0.062)	0.299)	0.139)	0.433)	0.073)
SCS	-0.149	-0.08	-0.111		0.246	0.149	0.190	-0.109	-0.158	-0.184	-0.008	-0.259
	(-0.250 -	(-0.120 -	(-0.195 -		(0.120	(0.009	(0.005	(-0.223	(-0.274 -	(-0.452	(-0.219	(-0.475 -
	0.050)	0.020)	0.060)		0.369)	0.284)	0.240)	0.004)	0.039)	0.043)	0.182)	0.054)
F2-UV	0.240	0.172	0.211	-0.001		-0.208	0.097	0.129	-0.319	-0.121	-0.351	-0.359
	(0.211	(-0.080 -	(-0.119 -	(-0.006		(-0.340 -	(-0.062	(-0.005	(-0.441 -	(-0.395	(-0.536 -	(-0.736 -
	0.244)	0.051)	0.085)	0.028)		0.073)	0.260)	0.259)	0.190)	0.144)	0.129)	0.040)
F3-UC	-0.122	-0.067	-0.104	0.012	0.030		0.098	0.079	0.346	-0.128	0.067	0.061
	(-0.137 -	(-0.010	(-0.300	(-0.006	(-0.120		(-0.067	(-0.057	(0.224	(-0.444	(-0.210	(-0.258
	0.101)	0.028)	0.037)	0.028)	0.054)		0.255)	0.209)	0.463)	0.157)	0.334)	0.381)
F7-RL	0.02	0.014	0.021	0.012	0.033	0.01		0.075	-0.324	0.148	-0.156	-0.159
	(0.001	(-0.213	(-0.238	(-0.023	(-0.326	(-0.243		(-0.053	(-0.460 -	(-0.176	(-0.457	(-0.573
	0.038)	0.147)	0.157)	0.056)	0.224)	0.344)		0.197)	0.183)	0.426)	0.157)	0.213)
HT	-0.02	-0.012	-0.023	-0.022	0.007	0.021	0.009		0.075	-0.189	0.208	0.171

	(-0.093 -	(-0.072	(-0.135	(-0.113	(-0.036	(-0.040	(-0.014		(-0.053	(-0.477	(-0.051	(-0.129
	0.002)	0.035)	0.070)	0.011)	0.014)	0.106)	0.040)		0.197)	0.081)	0.463)	0.481)
	-0.134	-0.079	-0.086	0.001	-0.120	0.128	-0.177	0.085		0.656	0.798	0.849
RM	(-0.349 -	(-0.066	(-0.100 -	(-0.095 -	(-0.114 -	(-0.006	(-0.262 -	(0.031		(0.343	(0.556	(0.540
	0.265)	0.006)	0.013)	0.012)	0.227)	0.159)	0.151)	0.180)		0.909)	0.981)	0.991)
	-0.014	-0.018	-0.015	-0.046	-0.034	-0.037	0.043	-0.064	0.582		0.839	0.545
ADG	(-0.069	(-0.045	(-0.021	(-0.110	(-0.437	(-0.169	(-0.313	(-0.105	(0.408		(0.594	(0.156
	0.036)	0.053)	0.085)	0.093)	0.097)	0.264)	0.111)	0.405)	0.719)		0.996)	0.977)
SEURO	-0.057	0.006	0.034	-0.002	-0.133	0.025	-0.052	0.087	0.276	0.621		0.928
P	(-0.122	(-0.088	(-0.106	(-0.257	(-0.211 -	(-0.094	(-0.151	(-0.049	(0.184	(0.614		(0.831
	0.000)	0.031)	0.022)	0.031)	0.014)	0.129)	0.068)	0.183)	0.338)	0.741)		0.990)
	-0.047	-0.024	-0.041	-0.07	-0.109	0.019	-0.041	0.06	0.241	0.545	0.825	
CY	(-0.219	(-0.088	(-0.106	(-0.257 -	(-0.211 -	(-0.094	(-0.151	(-0.049	(0.184	(0.380	(0.780. 1.00)	
	0.034)	0.031)	0.022)	0.031)	0.014)	0.129)	0.068)	0.183)	0.338)	0.994)		
