

Genotype	Traits		Type		AA + AB versus BB, dominant model							AA versus AB + BB, recessive model						AA + BB versus AB, completely overdomn. model					
					n	I ²	SMD	95 %	CI	% Weight	p	I ²	SMD	95 %	CI	% Weight	p	I ²	SMD	95 %	CI	% Weight	p
CSN3	Daily milk yield	Dairy	8	0.0	0.071	-0.062	0.224	74.47	0.295	28.0	0.09	0.010	0.173	86.24	0.027	47.6*	0.067	-0.015	0.149	83.62	0.111		
		Other	3	63.5*	-0.11	-0.332	0.102	25.53	0.365	0.0	-0.01	-0.317	0.091	13.76	0.278		-0.023	-0.209	0.162	16.38	0.805		
		Overall	11	0.0	0.026	-0.089	0.141	100.00	0.655	29.4	0.06	-0.012	0.139	100.00	0.100	28.8	0.052	-0.023	0.127	100.00	0.175		
	Lactation milk yield	Dairy	18	34.7*	0.079	-0.039	0.196	69.00	0.171	47.0*	0.06	-0.018	0.138	71.36	0.130	42.5*	0.029	-0.047	0.106	69.86	0.449		
		Other	10	60.8*	-0.11	-0.35	0.132	31.00	0.394	33.2	-0.2	-0.288	-0.104	28.64	0.031	6.6*	-0.066	-0.157	0.024	30.14	0.150		
		Overall	28	47.6**	0.022	-0.087	0.132	100.00	0.691	51.8**	0	-0.069	0.076	100.00	0.918	36.6**	0.002	-0.06	0.064	100.00	0.952		
	Fat yield	Dairy	13	70.5**	0.033	-0.167	0.233	64.36	0.746	75.4**	0.13	0.006	0.255	72.05	0.040	76.4**	0.132	0.003	0.261	68.82	0.046		
		Other	7	8.9	0.002	-0.13	0.133	35.64	0.980	0.0	-0.3	-0.409	-0.133	27.95	0.000	0.0	-0.18	-0.291	-0.069	31.18	0.001		
		Overall	20	61.1**	0.018	-0.118	0.154	100.00	0.800	74.3**	0.02	-0.091	0.135	100.00	0.703	73.5**	0.035	-0.073	0.143	100.00	0.524		
	Fat content	Dairy	22	54.5**	-0.161	-0.294	-0.03	66.94	0.018	56.3**	-0	-0.100	0.1	75.07	0.636	25.0	-0.002	-0.039	0.035	85.28	0.909		
		Other	10	0.0	-0.01	-0.115	0.1	33.06	0.887	0.0	-0	-0.110	0.100	24.93	0.923	33.06	0.003	-0.087	0.093	14.72	0.947		
		Overall	32	45.6**	-0.1	-0.2	-0.01	100.00	0.035	42.6**	-0	-0.078	0.049	100.00	0.654	12.1	-0.001	-0.036	0.033	100.00	0.936		
	Protein yield	Dairy	8	48.5*	-0.07	-0.266	0.125	81.80	0.478	16.0	0	-0.041	0.043	96.85	0.966	50.0*	0.06	-0.044	0.163	87.71	0.258		
		Other	1	0	0.03	-0.23	0.29	18.2	0.819		-0.1	-0.322	0.147	3.15	0.464		-0.085	-0.29	0.119	12.29	0.413		
		Overall	9	41.6*	-0.04	-0.201	0.114	100.00	0.588	9.7	-0	-0.044	0.04	100.00	0.930	45.7*	0.037	-0.054	0.129	100.00	0.425		
	Protein content	Dairy	17	75.2**	-0.33	-0.520	-0.13	83.203	0.001	53.9**	-0.1	-0.221	-0.064	79.83	0.000	46.6*	-0.048	-0.122	0.026	79.14	0.207		
		Other	3	37.5	-0.14	-0.378	0.095	19.77	0.241	86.5**	0.07	-0.292	0.44	20.17	0.692	73.9**	0.133	-0.116	0.381	20.86	0.825		
		Overall	20	72.2**	-0.28	-0.438	-0.11	100.00	0.001	68.1**	-0.1	-0.192	-0.021	100.00	0.015	58.5**	-0.009	-0.085	0.068	100.00	0.297		
BLG	Daily milk yield	Dairy	6	68.8**	0.137	-0.112	0.386	59.55	0.281	70.7**	-0.1	-0.418	0.208	58.19	0.512	17.8	-0.186	-0.33	-0.043	59.83	0.011		
		Other	4	0.0	0.027	-0.138	0.192	40.45	0.747	48.7	-0.4	-0.642	-0.078	41.81	0.012	65.3*	-0.28	-0.554	-0.005	40.47	0.046		
		Overall	10	50.3*	0.099	-0.052	0.25	100.00	0.200	69.2**	-0.2	-0.439	0.285	100.00	0.080	41.3*	-0.221	-0.354	-0.088	100.00	0.001		
	Lactation milk yield	Dairy	17	73.9**	0.092	-0.023	0.207	64.36	0.118	70.1**	0.14	-0.013	0.224	62.39	0.075	0.0	-0.019	-0.045	0.008	63.48	0.177		
		Other	9	96.7**	-0.37	-0.869	0.121	36.66	0.138	96.4**	0.09	-0.426	0.601	37.61	0.738	97.9**	0.3	-0.274	0.874	36.52	0.306		
		Overall	26	92.3**	-0.05	-0.2	0.106	100.00	0.546	90.9**	0.13	-0.058	0.309	100.00	0.181	93.7**	0.1	-0.06	0.276	100.00	0.222		
	Fat yield	Dairy	11	84.8**	0.012	-0.225	0.248	57.89	0.523	93.7**	0.3	-0.171	0.777	59.03	0.211	87.0**	0.247	-0.006	0.5	56.52	0.056		
		Other	6	14.3	0.035	-0.059	0.129	42.11	0.470	61.8*	-0	-0.204	0.152	40.97	0.776	62.8*	-0.055	-0.198	0.088	43.48	0.451		
		Overall	17	83.8**	0.023	-0.101	0.148	100.00	0.714	90.7**	0.18	-0.050	0.412	100.00	0.125	83.1**	0.107	-0.026	0.239	100.00	0.114		
	Fat content	Dairy	19	84.5**	-0.167	-0.309	-0.03	69.18	0.021	28.8	-0.1	-0.222	-0.047	69.58	0.003	85.6**	0.064	-0.08	0.207	68.34	0.386		
		Other	8	89.7**	-0.18	-0.494	-0.144	30.82	0.282	77.9**	0.05	-0.219	0.317	30.42	0.718	74.8**	0.147	-0.05	0.344	31.66	0.144		
		Overall	27	85.8**	-0.17	-0.288	-0.04	100.00	0.008	56.9**	-0.1	-0.186	0.006	100.00	0.065	83.1**	0.091	-0.019	0.201	100.00	0.106		
	Protein yield	Dairy	6	90.6**	0.131	-0.175	0.438	64.31	0.402	97.1**	0.37	-0.196	0.935	65.77	0.200	87.8**	0.11	-0.12	0.34	64.51	0.349		
		Other	3	0.0	-0.02	-0.125	0.086	35.69	0.716	76.8*	-0.2	-0.546	0.116	34.23	0.203	0.0	-0.05	-0.147	0.047	35.49	0.315		
		Overall	9	85.9**	0.039	-0.134	0.212	100.00	0.660	95.7**	0.15	-0.199	0.495	100.00	0.404	81.3**	0.013	-0.122	0.149	100.00	0.846		
	Protein content	Dairy	15	97.4**	0.003	-0.181	0.187	77.62	0.975	94.1**	0.21	0.003	0.415	77.11	0.047	96.4**	0.118	-0.042	0.279	77.11	0.149		
		Other	4	79.5**	-0.29	-0.569	-0.01	22.38	0.046	0.0	-0	-0.165	0.079	22.89	0.489	61.0*	0.158	-0.025	0.342	22.89	0.091		
		Overall	19	96.7**	-0.06	-0.221	0.093	100.00	0.424	92.5**	0.14	-0.027	0.31	100.00	0.100	95.5**	0.135	-0.001	0.271	100.00	0.052		
CSN2	Daily milk yield	Dairy	2	0.0	0.029	-0.97	1.028	45.15	0.955	0.0	-0.1	-0.259	0.158	53.02	0.634	0.0	-0.054	-0.266	0.158	52.52	0.619		
		Other	2	0.158	-0.748	1.064	54.85	0.733	84.0**	0.25	-0.215	0.721	46.98	0.289	85.1**	0.25	-0.235	0.735	47.48	0.312			
		Overall	4	0.0	0.099	-0.572	0.777	100.00	0.771	65.1**	0.1	-0.142	0.348	100.00	0.410	67.0**	0.101	-0.154	0.357	100.00	0.437		
	Lactation milk yield	Dairy	7	0.0	-0.02	-0.953	0.908	52.51	0.816	0.0	0.01	-0.144	0.158	38.18	0.927	54.3*	-0.228	-0.646	0.189	24.78	0.283		
		Other	6	91.8**	0.022	-0.16	0.203	47.49	0.963	85.9**	0.08	-0.218	0.376	61.82	0.603	2.3	0.195	0.091	0.298	75.22	0.000		
		Overall	13	79.8**	-0.02	-0.444	0.409	100.00	0.936	74.5**	0.04	-0.147	0.234	100.00	0.653	48.9*	0.101	-0.052	0.254	100.00	0.195		
	Fat yield	Dairy	5	27.0	0.086	-0.283	0.455	80.90	0.649	89.3**	-0.6	-1.296	0.049	67.12	0.069	89.7**	-0.606	-1.327	0.114	66.84	0.099		
		Other	2	0.0	0.009	-0.75	0.769	19.10	0.981	0.0	0.3	0.040	0.552	32.88	0.023	0.0	0.298	0.04	0.555	33.16	0.023		
		Overall	7	0.0	0.071	-0.261	0.403	100.00	0.675	86.5**	-0.3	-0.726	0.151	100.00	0.199	87.2**	-0.282	-0.747	0.183	100.00	0.235		
	Fat content	Dairy	8	0.0	-0.05	-0.404	0.309	86.58	0.794	0.0	-0	-0.138	0.122	60.65	0.902	0.0	-0.003	-0.14	0.134	59.80	0.966		
		Other	4	-0.05	-0.853	0.859	13.42	0.919	83.5**	0.07	-0.391	0.528	39.35	0.770	83.4**	0.069	-0.389	0.527	40.20	0.768			
		Overall	12	0.0	-0.047	-0.379	0.284	100.00	0.779	49.8*	0.04	-0.133	0.204	100.00	0.679	50.6*	0.042	-0.132	0.216	100.00	0.635		
	Protein content	Dairy	6	0.0	-0	-0.382	0.381	100.00	0.997	0.0	-0	-0.162	0.106	72.46	0.683	0.0	-0.031	-0.172	0.11	72.23	0.667		
		Other	2	0	0	0	0.00	0.00	0.00	87.0**	0.37	-0.358	1.107	27.54	0.317	86.4**	0.367	-0.351	1.084	27.77	0.317		
		Overall	8	0.0	-0	-0.382	0.381	100.00	0.997	60.6*	0.09	-0.134	0.303	100.00	0.448	59.2*	0.083	-0.136	0.301	100.00	0.457		