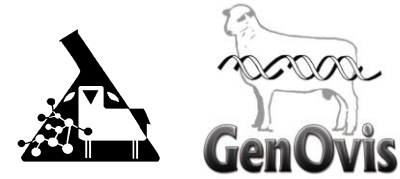


EPDs Distribution by Percentile - July 2018

Race: Border Cheviot (BC)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.25	-0.03	-0.01	0.02	0.05	0.07	0.09	0.15
Birth Weight - Direct (kg)	-1.28	-0.14	-0.01	0.13	0.27	0.36	0.55	1.19
50d Weight - Direct (kg)	-6.68	-1.58	-0.93	-0.26	0.42	0.83	1.61	4.64
Gain 50-100d -Direct (kg)	-8.23	-2.47	-1.59	-0.54	0.43	1.09	2.75	6.83
Ultrasound loin - Direct (mm)	-4.26	-0.55	-0.11	0.28	0.58	0.79	1.38	5.53
Ultrasound fat - Direct (mm)	3.80	1.09	0.58	0.39	0.12	-0.08	-0.23	-1.86
Lamb Survival - Maternal (lambs)	-0.14	0.01	0.02	0.04	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.85	0.09	0.17	0.26	0.36	0.42	0.59	0.90
50d Weight - Maternal (kg)	-4.53	-0.80	-0.33	0.19	0.70	1.03	2.04	3.98
Age 1st Lambing (days)	6.52	3.82	2.69	2.34	1.78	0.80	-0.19	-4.33
# Born 1st Lambing (lambs)	-0.42	-0.25	-0.22	-0.20	-0.17	-0.15	-0.10	0.16
# Total Weights Weaned 1st lambing (lambs)	-5.47	-2.59	-1.98	-1.55	-1.28	-1.12	-0.69	0.08
Lambing Interval (days)	5.74	4.64	4.11	3.86	3.24	2.62	1.93	-0.27
# Born Later Lambing (lambs)	-0.76	-0.45	-0.40	-0.35	-0.28	-0.25	-0.13	0.18
# Total Weights Weaned Later Lambing (Lambs)	-9.74	-5.38	-4.35	-3.23	-2.24	-1.67	-0.24	4.34
Gain Index (GAIN)	-32.13	-10.09	-6.62	-2.74	0.84	3.19	8.54	23.50
Carcass Index (CARC)	-29.29	-9.04	-5.95	-2.70	0.52	2.53	7.10	19.08
Maternal Index (MAT)	-35.14	-17.17	-13.44	-9.53	-6.02	-4.05	0.22	9.99
Maternal Ultrasound Index (MAT-U)	-40.73	-24.62	-20.91	-16.74	-13.04	-10.97	-6.87	4.34
Maternal Higher Prolificacy Index (MAT-HP)	-34.91	-15.47	-11.83	-7.95	-4.49	-2.41	1.78	13.23
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-39.65	-21.69	-18.05	-14.05	-10.37	-8.22	-3.86	5.25

EPDs Distribution by Percentile - July 2018

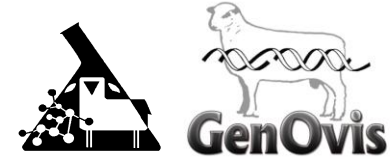
Race: Babydoll (BD)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.34	-0.02	0.03	0.06	0.09	0.11	0.14	0.19
Birth Weight - Direct (kg)	-1.45	-0.39	-0.25	-0.03	0.18	0.29	0.53	1.02
50d Weight - Direct (kg)	-6.74	-2.83	-2.04	-1.20	-0.45	0.08	0.96	3.55
Gain 50-100d -Direct (kg)	-7.52	-3.38	-2.64	-1.60	-0.66	-0.11	1.54	4.20
Ultrasound loin - Direct (mm)	-3.87	-1.35	-0.92	-0.53	-0.22	-0.02	0.41	1.06
Ultrasound fat - Direct (mm)	0.62	0.31	0.07	-0.02	-0.15	-0.29	-0.42	-1.12
Lamb Survival - Maternal (lambs)	-0.15	-0.05	-0.03	0.00	0.02	0.03	0.06	0.13
Birth Weight - Maternal (kg)	-0.74	-0.29	-0.16	0.03	0.18	0.27	0.45	0.71
50d Weight - Maternal (kg)	-2.92	-1.00	-0.47	0.00	0.61	0.97	1.76	2.63
Age 1st Lambing (days)	10.14	4.35	3.16	1.85	0.12	-1.35	-1.89	-9.86
# Born 1st Lambing (lambs)	-0.30	-0.14	-0.05	0.02	0.10	0.20	0.32	0.39
# Total Weights Weaned 1st lambing (lambs)	-4.60	-2.48	-2.15	-1.71	-1.07	-0.43	0.46	1.45
Lambing Interval (days)	4.09	3.00	2.18	1.59	0.71	0.28	-0.55	-6.18
# Born Later Lambing (lambs)	-0.57	-0.28	-0.16	0.00	0.15	0.24	0.37	0.50
# Total Weights Weaned Later Lambing (Lambs)	-8.90	-4.99	-3.91	-2.79	-1.19	-0.14	2.92	5.83
Gain Index (GAIN)	-33.67	-15.48	-11.63	-7.18	-3.43	-0.97	4.69	16.34
Carcass Index (CARC)	-32.81	-14.42	-10.66	-6.29	-2.87	-0.81	4.50	14.50
Maternal Index (MAT)	-30.09	-16.82	-12.46	-7.31	-2.38	0.44	5.22	15.67
Maternal Ultrasound Index (MAT-U)	-34.71	-20.93	-15.56	-9.28	-2.72	0.52	5.52	14.75
Maternal Higher Prolificacy Index (MAT-HP)	-28.76	-16.76	-12.43	-7.64	-2.98	-0.17	4.97	15.98
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-34.10	-20.10	-15.11	-9.54	-3.63	-0.49	4.34	15.16

EPDs Distribution by Percentile - July 2018

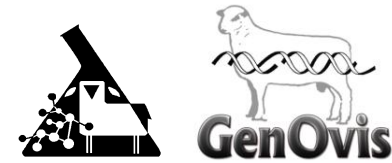
Race: Border Leicester (BL)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.25	-0.03	-0.01	0.02	0.05	0.07	0.09	0.15
Birth Weight - Direct (kg)	-1.28	-0.14	-0.01	0.13	0.27	0.36	0.55	1.19
50d Weight - Direct (kg)	-6.68	-1.58	-0.93	-0.26	0.42	0.83	1.61	4.64
Gain 50-100d -Direct (kg)	-8.23	-2.47	-1.59	-0.54	0.43	1.09	2.75	6.83
Ultrasound loin - Direct (mm)	-4.26	-0.55	-0.11	0.28	0.58	0.79	1.38	5.53
Ultrasound fat - Direct (mm)	3.80	1.09	0.58	0.39	0.12	-0.08	-0.23	-1.86
Lamb Survival - Maternal (lambs)	-0.14	0.01	0.02	0.04	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.85	0.09	0.17	0.26	0.36	0.42	0.59	0.90
50d Weight - Maternal (kg)	-4.53	-0.80	-0.33	0.19	0.70	1.03	2.04	3.98
Age 1st Lambing (days)	6.52	3.82	2.69	2.34	1.78	0.80	-0.19	-4.33
# Born 1st Lambing (lambs)	-0.42	-0.25	-0.22	-0.20	-0.17	-0.15	-0.10	0.16
# Total Weights Weaned 1st lambing (lambs)	-5.47	-2.59	-1.98	-1.55	-1.28	-1.12	-0.69	0.08
Lambing Interval (days)	5.74	4.64	4.11	3.86	3.24	2.62	1.93	-0.27
# Born Later Lambing (lambs)	-0.76	-0.45	-0.40	-0.35	-0.28	-0.25	-0.13	0.18
# Total Weights Weaned Later Lambing (Lambs)	-9.74	-5.38	-4.35	-3.23	-2.24	-1.67	-0.24	4.34
Gain Index (GAIN)	-32.13	-10.09	-6.62	-2.74	0.84	3.19	8.54	23.50
Carcass Index (CARC)	-29.29	-9.04	-5.95	-2.70	0.52	2.53	7.10	19.08
Maternal Index (MAT)	-35.14	-17.17	-13.44	-9.53	-6.02	-4.05	0.22	9.99
Maternal Ultrasound Index (MAT-U)	-40.73	-24.62	-20.91	-16.74	-13.04	-10.97	-6.87	4.34
Maternal Higher Prolificacy Index (MAT-HP)	-34.91	-15.47	-11.83	-7.95	-4.49	-2.41	1.78	13.23
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-39.65	-21.69	-18.05	-14.05	-10.37	-8.22	-3.86	5.25

EPDs Distribution by Percentile - July 2018

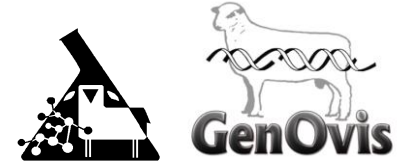
Race: British Milk (BM)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.25	-0.03	-0.01	0.02	0.05	0.07	0.09	0.15
Birth Weight - Direct (kg)	-1.28	-0.14	-0.01	0.13	0.27	0.36	0.55	1.19
50d Weight - Direct (kg)	-6.68	-1.58	-0.93	-0.26	0.42	0.83	1.61	4.64
Gain 50-100d -Direct (kg)	-8.23	-2.47	-1.59	-0.54	0.43	1.09	2.75	6.83
Ultrasound loin - Direct (mm)	-4.26	-0.55	-0.11	0.28	0.58	0.79	1.38	5.53
Ultrasound fat - Direct (mm)	3.80	1.09	0.58	0.39	0.12	-0.08	-0.23	-1.86
Lamb Survival - Maternal (lambs)	-0.14	0.01	0.02	0.04	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.85	0.09	0.17	0.26	0.36	0.42	0.59	0.90
50d Weight - Maternal (kg)	-4.53	-0.80	-0.33	0.19	0.70	1.03	2.04	3.98
Age 1st Lambing (days)	6.52	3.82	2.69	2.34	1.78	0.80	-0.19	-4.33
# Born 1st Lambing (lambs)	-0.42	-0.25	-0.22	-0.20	-0.17	-0.15	-0.10	0.16
# Total Weights Weaned 1st lambing (lambs)	-5.47	-2.59	-1.98	-1.55	-1.28	-1.12	-0.69	0.08
Lambing Interval (days)	5.74	4.64	4.11	3.86	3.24	2.62	1.93	-0.27
# Born Later Lambing (lambs)	-0.76	-0.45	-0.40	-0.35	-0.28	-0.25	-0.13	0.18
# Total Weights Weaned Later Lambing (Lambs)	-9.74	-5.38	-4.35	-3.23	-2.24	-1.67	-0.24	4.34
Gain Index (GAIN)	-32.13	-10.09	-6.62	-2.74	0.84	3.19	8.54	23.50
Carcass Index (CARC)	-29.29	-9.04	-5.95	-2.70	0.52	2.53	7.10	19.08
Maternal Index (MAT)	-35.14	-17.17	-13.44	-9.53	-6.02	-4.05	0.22	9.99
Maternal Ultrasound Index (MAT-U)	-40.73	-24.62	-20.91	-16.74	-13.04	-10.97	-6.87	4.34
Maternal Higher Prolificacy Index (MAT-HP)	-34.91	-15.47	-11.83	-7.95	-4.49	-2.41	1.78	13.23
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-39.65	-21.69	-18.05	-14.05	-10.37	-8.22	-3.86	5.25

EPDs Distribution by Percentile - July 2018

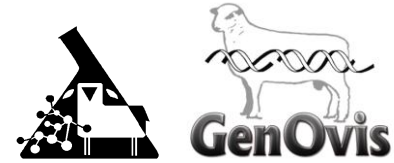
Race: Arcott Canadien (CD)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.23	-0.03	0.01	0.04	0.07	0.09	0.13	0.21
Birth Weight - Direct (kg)	-0.85	0.01	0.17	0.39	0.66	0.80	1.07	1.62
50d Weight - Direct (kg)	-4.68	-0.99	-0.21	0.57	1.36	1.81	2.63	4.81
Gain 50-100d -Direct (kg)	-8.42	-1.51	-0.60	0.37	1.40	2.16	3.91	7.25
Ultrasound loin - Direct (mm)	-5.97	0.16	0.64	1.12	1.61	1.97	2.80	6.13
Ultrasound fat - Direct (mm)	4.25	1.56	0.85	0.66	0.41	0.21	0.02	-1.72
Lamb Survival - Maternal (lambs)	-0.12	0.03	0.05	0.07	0.09	0.10	0.12	0.17
Birth Weight - Maternal (kg)	-0.46	0.30	0.40	0.53	0.65	0.74	0.91	1.43
50d Weight - Maternal (kg)	-3.12	-0.11	0.51	1.22	1.82	2.19	2.87	4.84
Age 1st Lambing (days)	5.24	2.29	1.37	0.96	0.40	-0.09	-0.71	-6.56
# Born 1st Lambing (lambs)	-0.53	-0.29	-0.25	-0.21	-0.17	-0.15	-0.12	0.00
# Total Weights Weaned 1st lambing (lambs)	-3.87	-2.10	-1.72	-1.30	-0.51	0.14	0.91	2.55
Lambing Interval (days)	4.96	2.99	2.33	1.84	1.21	0.59	0.07	-2.62
# Born Later Lambing (lambs)	-0.77	-0.42	-0.34	-0.28	-0.22	-0.18	-0.10	0.14
# Total Weights Weaned Later Lambing (Lambs)	-8.24	-3.82	-2.73	-1.51	0.32	1.90	3.34	5.86
Gain Index (GAIN)	-28.36	-6.53	-2.74	1.26	5.43	8.16	14.34	26.90
Carcass Index (CARC)	-24.02	-6.04	-2.65	0.91	4.62	7.04	12.66	22.61
Maternal Index (MAT)	-27.29	-10.58	-7.02	-3.17	0.91	4.13	10.96	25.06
Maternal Ultrasound Index (MAT-U)	-35.11	-18.35	-14.46	-10.28	-5.93	-2.60	3.84	17.70
Maternal Higher Prolificacy Index (MAT-HP)	-26.38	-9.64	-6.14	-2.28	1.79	4.91	11.93	25.67
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-33.52	-16.00	-12.22	-8.09	-3.74	-0.57	5.94	20.21

EPDs Distribution by Percentile - July 2018

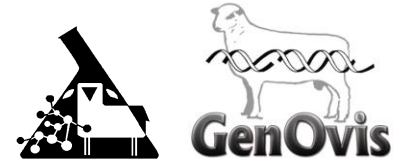
Race: Clun Forest (CF)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.25	-0.03	-0.01	0.02	0.05	0.07	0.09	0.15
Birth Weight - Direct (kg)	-1.28	-0.14	-0.01	0.13	0.27	0.36	0.55	1.19
50d Weight - Direct (kg)	-6.68	-1.58	-0.93	-0.26	0.42	0.83	1.61	4.64
Gain 50-100d -Direct (kg)	-8.23	-2.47	-1.59	-0.54	0.43	1.09	2.75	6.83
Ultrasound loin - Direct (mm)	-4.26	-0.55	-0.11	0.28	0.58	0.79	1.38	5.53
Ultrasound fat - Direct (mm)	3.80	1.09	0.58	0.39	0.12	-0.08	-0.23	-1.86
Lamb Survival - Maternal (lambs)	-0.14	0.01	0.02	0.04	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.85	0.09	0.17	0.26	0.36	0.42	0.59	0.90
50d Weight - Maternal (kg)	-4.53	-0.80	-0.33	0.19	0.70	1.03	2.04	3.98
Age 1st Lambing (days)	6.52	3.82	2.69	2.34	1.78	0.80	-0.19	-4.33
# Born 1st Lambing (lambs)	-0.42	-0.25	-0.22	-0.20	-0.17	-0.15	-0.10	0.16
# Total Weights Weaned 1st lambing (lambs)	-5.47	-2.59	-1.98	-1.55	-1.28	-1.12	-0.69	0.08
Lambing Interval (days)	5.74	4.64	4.11	3.86	3.24	2.62	1.93	-0.27
# Born Later Lambing (lambs)	-0.76	-0.45	-0.40	-0.35	-0.28	-0.25	-0.13	0.18
# Total Weights Weaned Later Lambing (Lambs)	-9.74	-5.38	-4.35	-3.23	-2.24	-1.67	-0.24	4.34
Gain Index (GAIN)	-32.13	-10.09	-6.62	-2.74	0.84	3.19	8.54	23.50
Carcass Index (CARC)	-29.29	-9.04	-5.95	-2.70	0.52	2.53	7.10	19.08
Maternal Index (MAT)	-35.14	-17.17	-13.44	-9.53	-6.02	-4.05	0.22	9.99
Maternal Ultrasound Index (MAT-U)	-40.73	-24.62	-20.91	-16.74	-13.04	-10.97	-6.87	4.34
Maternal Higher Prolificacy Index (MAT-HP)	-34.91	-15.47	-11.83	-7.95	-4.49	-2.41	1.78	13.23
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-39.65	-21.69	-18.05	-14.05	-10.37	-8.22	-3.86	5.25

EPDs Distribution by Percentile - July 2018

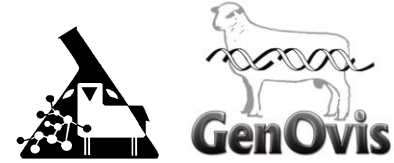
Race: Charollais (CO)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.33	-0.10	-0.05	-0.01	0.01	0.03	0.05	0.11
Birth Weight - Direct (kg)	-1.02	0.04	0.24	0.44	0.63	0.74	0.97	1.80
50d Weight - Direct (kg)	-3.55	-0.25	0.52	1.34	2.14	2.63	3.53	5.04
Gain 50-100d -Direct (kg)	-6.29	-0.27	0.73	1.80	2.75	3.39	4.60	7.30
Ultrasound loin - Direct (mm)	-4.83	-0.65	0.15	0.86	1.58	2.14	3.35	6.15
Ultrasound fat - Direct (mm)	2.69	1.24	0.57	0.31	0.00	-0.27	-0.55	-2.46
Lamb Survival - Maternal (lambs)	-0.12	0.00	0.03	0.06	0.09	0.11	0.13	0.20
Birth Weight - Maternal (kg)	-0.60	0.30	0.45	0.61	0.79	0.96	1.16	1.53
50d Weight - Maternal (kg)	-4.68	-0.30	0.34	1.05	1.78	2.27	3.15	4.77
Age 1st Lambing (days)	6.11	3.05	2.61	2.19	1.47	0.37	-1.06	-7.56
# Born 1st Lambing (lambs)	-0.94	-0.36	-0.28	-0.22	-0.18	-0.15	-0.08	0.06
# Total Weights Weaned 1st lambing (lambs)	-3.81	-1.99	-1.31	-0.70	0.09	0.63	1.33	3.38
Lambing Interval (days)	6.53	5.02	4.26	3.67	2.91	2.26	1.34	-1.20
# Born Later Lambing (lambs)	-1.18	-0.45	-0.37	-0.29	-0.20	-0.16	-0.08	0.16
# Total Weights Weaned Later Lambing (Lambs)	-9.68	-4.54	-3.20	-1.55	0.13	1.11	3.44	9.03
Gain Index (GAIN)	-22.36	-1.77	2.18	6.61	10.62	13.41	18.22	26.80
Carcass Index (CARC)	-17.48	-0.49	3.28	7.43	11.40	13.48	18.15	26.73
Maternal Index (MAT)	-25.52	-9.51	-5.83	-1.99	1.81	4.03	7.62	14.53
Maternal Ultrasound Index (MAT-U)	-36.10	-16.99	-13.33	-9.26	-5.26	-2.43	2.71	15.59
Maternal Higher Prolificacy Index (MAT-HP)	-23.64	-7.17	-3.47	0.48	4.21	6.50	10.30	17.92
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-31.64	-13.30	-9.67	-5.44	-1.72	0.64	5.48	15.57

EPDs Distribution by Percentile - July 2018

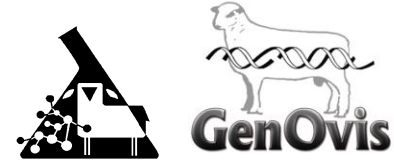
Race: Corriedale (CR)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.25	-0.02	-0.01	0.02	0.04	0.05	0.06	0.10
Birth Weight - Direct (kg)	-0.66	0.08	0.21	0.35	0.49	0.60	0.85	1.44
50d Weight - Direct (kg)	-4.38	-1.69	-1.15	-0.61	0.05	0.62	1.91	5.89
Gain 50-100d -Direct (kg)	-6.74	-2.87	-2.09	-1.36	-0.61	-0.06	1.54	4.69
Ultrasound loin - Direct (mm)	-6.45	-1.07	-0.76	-0.43	-0.17	-0.01	0.36	1.01
Ultrasound fat - Direct (mm)	0.62	0.21	0.06	-0.02	-0.14	-0.24	-0.35	-1.48
Lamb Survival - Maternal (lambs)	-0.06	0.04	0.05	0.06	0.08	0.09	0.11	0.15
Birth Weight - Maternal (kg)	-0.31	0.22	0.32	0.40	0.49	0.55	0.70	1.09
50d Weight - Maternal (kg)	-3.08	-0.13	0.31	0.72	1.18	1.47	2.10	4.70
Age 1st Lambing (days)	4.38	3.05	2.34	2.12	1.42	0.80	-0.31	-1.69
# Born 1st Lambing (lambs)	-0.35	-0.24	-0.21	-0.19	-0.17	-0.16	-0.14	-0.08
# Total Weights Weaned 1st lambing (lambs)	-4.14	-2.73	-2.50	-2.08	-1.64	-1.44	-1.01	0.71
Lambing Interval (days)	4.03	2.77	2.43	2.27	2.14	1.82	1.36	-4.45
# Born Later Lambing (lambs)	-0.59	-0.40	-0.36	-0.32	-0.28	-0.25	-0.20	-0.11
# Total Weights Weaned Later Lambing (Lambs)	-6.22	-4.01	-3.54	-2.96	-2.22	-1.82	-1.13	1.02
Gain Index (GAIN)	-26.24	-12.20	-9.22	-6.38	-3.21	-0.61	5.97	17.91
Carcass Index (CARC)	-23.54	-11.07	-8.39	-5.84	-3.09	-0.94	4.10	15.04
Maternal Index (MAT)	-33.98	-15.72	-12.64	-9.54	-6.70	-4.33	1.16	10.00
Maternal Ultrasound Index (MAT-U)	-35.41	-23.13	-20.20	-17.25	-14.54	-12.58	-7.38	0.59
Maternal Higher Prolificacy Index (MAT-HP)	-32.21	-15.02	-11.97	-8.88	-6.06	-3.75	1.84	11.39
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-34.01	-21.19	-18.21	-15.30	-12.50	-10.37	-4.86	4.55

EPDs Distribution by Percentile - July 2018

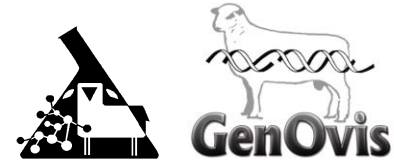
Race: Lacaune (CU)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.30	-0.05	-0.02	0.01	0.04	0.08	0.15	0.32
Birth Weight - Direct (kg)	-1.27	-0.17	-0.05	0.08	0.24	0.36	0.60	1.90
50d Weight - Direct (kg)	-5.70	-1.35	-0.72	0.01	0.92	1.60	2.75	6.56
Gain 50-100d -Direct (kg)	-9.82	-1.99	-1.22	-0.37	0.68	1.39	2.65	10.79
Ultrasound loin - Direct (mm)	-4.73	-0.93	-0.56	-0.23	0.16	0.42	1.00	5.14
Ultrasound fat - Direct (mm)	2.58	0.48	0.30	0.21	0.09	-0.08	-0.23	-1.80
Lamb Survival - Maternal (lambs)	-0.22	0.01	0.04	0.05	0.06	0.07	0.09	0.18
Birth Weight - Maternal (kg)	-1.17	0.07	0.18	0.25	0.32	0.37	0.53	1.18
50d Weight - Maternal (kg)	-5.18	-0.55	-0.07	0.32	0.71	0.98	1.59	5.41
Age 1st Lambing (days)	7.62	2.99	1.70	0.84	-0.70	-2.16	-3.19	-25.00
# Born 1st Lambing (lambs)	-0.54	-0.19	-0.17	-0.13	-0.01	0.10	0.27	0.58
# Total Weights Weaned 1st lambing (lambs)	-6.93	-2.15	-1.98	-1.80	-0.43	0.61	2.28	6.47
Lambing Interval (days)	6.04	3.24	2.31	1.81	1.36	1.24	0.70	-5.65
# Born Later Lambing (lambs)	-0.71	-0.28	-0.24	-0.17	-0.01	0.14	0.37	0.90
# Total Weights Weaned Later Lambing (Lambs)	-11.08	-3.36	-2.79	-1.82	0.11	1.52	3.89	9.22
Gain Index (GAIN)	-34.21	-8.34	-5.14	-1.32	3.39	6.69	12.26	40.58
Carcass Index (CARC)	-30.23	-8.21	-4.98	-1.53	2.66	5.52	10.39	35.64
Maternal Index (MAT)	-31.79	-11.69	-8.32	-4.47	-0.08	2.86	9.23	24.07
Maternal Ultrasound Index (MAT-U)	-38.87	-16.87	-13.78	-9.72	-1.72	5.36	15.57	33.18
Maternal Higher Prolificacy Index (MAT-HP)	-31.72	-11.12	-7.68	-3.79	0.68	3.53	9.11	27.44
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.85	-15.43	-12.18	-8.07	-0.85	5.30	14.06	35.99

EPDs Distribution by Percentile - July 2018

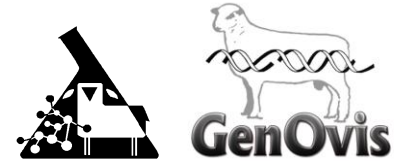
Race: Dorset à cornes (DH)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.36	-0.05	-0.01	0.02	0.05	0.08	0.13	0.26
Birth Weight - Direct (kg)	-1.43	-0.14	0.03	0.23	0.47	0.64	0.97	1.84
50d Weight - Direct (kg)	-5.75	-1.11	-0.35	0.53	1.45	2.12	3.44	6.32
Gain 50-100d -Direct (kg)	-9.49	-1.96	-1.03	0.12	1.40	2.21	3.67	10.74
Ultrasound loin - Direct (mm)	-7.09	-0.18	0.23	0.74	1.40	1.92	2.91	7.17
Ultrasound fat - Direct (mm)	4.71	0.82	0.48	0.36	0.20	0.05	-0.10	-1.92
Lamb Survival - Maternal (lambs)	-0.10	0.05	0.07	0.09	0.11	0.13	0.15	0.25
Birth Weight - Maternal (kg)	-0.71	0.23	0.34	0.47	0.59	0.67	0.84	1.53
50d Weight - Maternal (kg)	-4.27	-0.36	0.16	0.71	1.24	1.57	2.22	6.71
Age 1st Lambing (days)	9.75	4.94	4.15	3.68	2.82	1.90	0.72	-7.08
# Born 1st Lambing (lambs)	-0.66	-0.38	-0.33	-0.29	-0.26	-0.24	-0.20	0.05
# Total Weights Weaned 1st lambing (lambs)	-4.89	-2.05	-1.53	-0.87	-0.25	0.07	0.55	2.49
Lambing Interval (days)	9.06	3.68	2.85	2.45	1.82	1.23	0.11	-7.27
# Born Later Lambing (lambs)	-0.90	-0.44	-0.38	-0.33	-0.28	-0.25	-0.19	0.19
# Total Weights Weaned Later Lambing (Lambs)	-13.39	-3.52	-2.24	-0.97	0.05	0.61	1.60	6.80
Gain Index (GAIN)	-35.09	-7.70	-3.77	1.00	5.98	9.17	15.07	34.12
Carcass Index (CARC)	-30.60	-6.92	-3.30	1.13	5.78	8.72	14.07	31.05
Maternal Index (MAT)	-35.51	-12.63	-8.72	-4.50	-0.22	2.27	6.80	20.70
Maternal Ultrasound Index (MAT-U)	-41.34	-20.38	-16.55	-12.22	-7.89	-5.40	-1.10	12.32
Maternal Higher Prolificacy Index (MAT-HP)	-34.65	-11.51	-7.54	-3.15	1.31	3.99	8.73	24.59
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-40.22	-17.95	-14.00	-9.47	-4.94	-2.22	2.50	18.11

EPDs Distribution by Percentile - July 2018

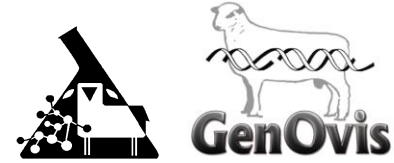
Race: Dorper (DO)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.15	0.01	0.03	0.05	0.07	0.08	0.10	0.16
Birth Weight - Direct (kg)	-1.25	-0.25	-0.10	0.02	0.17	0.28	0.46	0.80
50d Weight - Direct (kg)	-4.08	-1.03	-0.45	0.15	0.76	1.13	1.83	3.14
Gain 50-100d -Direct (kg)	-5.84	-1.70	-0.78	0.55	1.91	2.50	3.81	7.53
Ultrasound loin - Direct (mm)	-5.87	0.34	0.94	1.88	2.89	3.45	4.72	6.98
Ultrasound fat - Direct (mm)	6.60	3.23	1.96	1.39	0.72	0.34	0.06	-2.33
Lamb Survival - Maternal (lambs)	-0.07	0.01	0.03	0.04	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.46	0.03	0.13	0.23	0.32	0.36	0.46	0.85
50d Weight - Maternal (kg)	-3.01	-0.52	-0.02	0.50	0.91	1.17	1.74	2.85
Age 1st Lambing (days)	3.61	1.97	1.73	1.54	0.96	0.16	-0.64	-6.94
# Born 1st Lambing (lambs)	-0.52	-0.27	-0.24	-0.21	-0.18	-0.16	-0.14	-0.05
# Total Weights Weaned 1st lambing (lambs)	-5.57	-2.95	-2.52	-2.19	-1.87	-1.63	-1.39	-0.81
Lambing Interval (days)	3.18	1.94	1.51	1.19	0.67	0.19	-0.27	-2.12
# Born Later Lambing (lambs)	-0.70	-0.44	-0.39	-0.34	-0.30	-0.28	-0.24	-0.11
# Total Weights Weaned Later Lambing (Lambs)	-8.10	-5.26	-4.48	-3.78	-3.11	-2.68	-1.54	0.18
Gain Index (GAIN)	-23.80	-6.28	-2.68	1.82	6.29	8.68	13.31	24.49
Carcass Index (CARC)	-19.86	-6.54	-3.26	1.10	5.26	7.52	12.02	21.31
Maternal Index (MAT)	-28.30	-11.88	-8.02	-3.84	-0.02	2.28	6.01	13.63
Maternal Ultrasound Index (MAT-U)	-35.98	-20.60	-16.56	-12.76	-9.53	-7.70	-4.08	3.02
Maternal Higher Prolificacy Index (MAT-HP)	-27.21	-10.64	-7.06	-2.82	1.08	3.27	7.04	13.62
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-33.87	-17.99	-13.98	-9.93	-6.51	-4.57	-0.85	6.54

EPDs Distribution by Percentile - July 2018

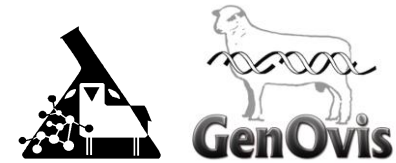
Race: Dorset sans corne (DP)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.36	-0.05	-0.01	0.02	0.05	0.08	0.13	0.26
Birth Weight - Direct (kg)	-1.43	-0.14	0.03	0.23	0.47	0.64	0.97	1.84
50d Weight - Direct (kg)	-5.75	-1.11	-0.35	0.53	1.45	2.12	3.44	6.32
Gain 50-100d -Direct (kg)	-9.49	-1.96	-1.03	0.12	1.40	2.21	3.67	10.74
Ultrasound loin - Direct (mm)	-7.09	-0.18	0.23	0.74	1.40	1.92	2.91	7.17
Ultrasound fat - Direct (mm)	4.71	0.82	0.48	0.36	0.20	0.05	-0.10	-1.92
Lamb Survival - Maternal (lambs)	-0.10	0.05	0.07	0.09	0.11	0.13	0.15	0.25
Birth Weight - Maternal (kg)	-0.71	0.23	0.34	0.47	0.59	0.67	0.84	1.53
50d Weight - Maternal (kg)	-4.27	-0.36	0.16	0.71	1.24	1.57	2.22	6.71
Age 1st Lambing (days)	9.75	4.94	4.15	3.68	2.82	1.90	0.72	-7.08
# Born 1st Lambing (lambs)	-0.66	-0.38	-0.33	-0.29	-0.26	-0.24	-0.20	0.05
# Total Weights Weaned 1st lambing (lambs)	-4.89	-2.05	-1.53	-0.87	-0.25	0.07	0.55	2.49
Lambing Interval (days)	9.06	3.68	2.85	2.45	1.82	1.23	0.11	-7.27
# Born Later Lambing (lambs)	-0.90	-0.44	-0.38	-0.33	-0.28	-0.25	-0.19	0.19
# Total Weights Weaned Later Lambing (Lambs)	-13.39	-3.52	-2.24	-0.97	0.05	0.61	1.60	6.80
Gain Index (GAIN)	-35.09	-7.70	-3.77	1.00	5.98	9.17	15.07	34.12
Carcass Index (CARC)	-30.60	-6.92	-3.30	1.13	5.78	8.72	14.07	31.05
Maternal Index (MAT)	-35.51	-12.63	-8.72	-4.50	-0.22	2.27	6.80	20.70
Maternal Ultrasound Index (MAT-U)	-41.34	-20.38	-16.55	-12.22	-7.89	-5.40	-1.10	12.32
Maternal Higher Prolificacy Index (MAT-HP)	-34.65	-11.51	-7.54	-3.15	1.31	3.99	8.73	24.59
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-40.22	-17.95	-14.00	-9.47	-4.94	-2.22	2.50	18.11

EPDs Distribution by Percentile - July 2018

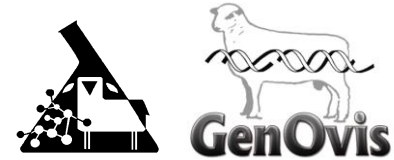
Race: East Friesian (EF)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.28	-0.05	-0.02	0.02	0.05	0.06	0.09	0.13
Birth Weight - Direct (kg)	-0.72	-0.07	0.03	0.15	0.26	0.34	0.53	1.11
50d Weight - Direct (kg)	-4.25	-0.46	-0.03	0.41	0.86	1.14	1.76	3.46
Gain 50-100d -Direct (kg)	-6.89	-1.83	-1.05	-0.53	-0.09	0.23	1.05	4.17
Ultrasound loin - Direct (mm)	-1.84	-0.36	-0.17	0.00	0.15	0.25	0.46	1.39
Ultrasound fat - Direct (mm)	0.52	0.19	0.10	0.05	-0.01	-0.08	-0.14	-0.74
Lamb Survival - Maternal (lambs)	-0.15	0.01	0.03	0.05	0.06	0.07	0.09	0.12
Birth Weight - Maternal (kg)	-0.59	0.03	0.13	0.22	0.33	0.39	0.51	0.72
50d Weight - Maternal (kg)	-2.70	-0.48	0.07	0.73	1.29	1.61	2.25	3.27
Age 1st Lambing (days)	8.03	4.13	4.12	1.98	0.18	-0.48	-1.23	-7.29
# Born 1st Lambing (lambs)	-0.31	-0.17	-0.12	-0.06	-0.01	0.01	0.05	0.13
# Total Weights Weaned 1st lambing (lambs)	-4.66	-3.09	-2.58	-2.31	-2.07	-1.94	-1.58	0.34
Lambing Interval (days)	6.85	3.80	2.62	2.25	1.50	0.99	0.32	-3.21
# Born Later Lambing (lambs)	-0.57	-0.32	-0.17	-0.05	0.03	0.07	0.14	0.25
# Total Weights Weaned Later Lambing (Lambs)	-10.98	-7.38	-5.92	-4.13	-3.16	-2.69	-1.41	1.97
Gain Index (GAIN)	-26.20	-5.74	-3.07	-0.84	1.23	2.60	5.41	17.83
Carcass Index (CARC)	-23.14	-5.09	-2.69	-0.73	1.11	2.29	4.77	15.86
Maternal Index (MAT)	-21.71	-9.84	-6.71	-3.32	-0.54	1.03	3.86	12.09
Maternal Ultrasound Index (MAT-U)	-29.93	-17.95	-12.98	-8.64	-5.39	-3.57	-0.47	7.17
Maternal Higher Prolificacy Index (MAT-HP)	-22.30	-8.62	-5.90	-2.90	-0.49	0.96	3.89	13.76
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-28.10	-15.19	-11.15	-7.50	-4.58	-2.98	0.05	8.04

EPDs Distribution by Percentile - July 2018

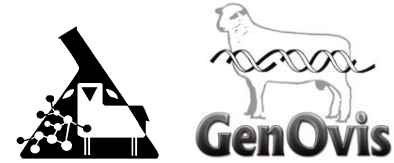
Race: Finnois (FN)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.25	-0.06	-0.03	0.01	0.03	0.05	0.07	0.13
Birth Weight - Direct (kg)	-1.57	-0.78	-0.60	-0.44	-0.31	-0.24	-0.12	0.11
50d Weight - Direct (kg)	-6.10	-2.41	-1.75	-1.17	-0.63	-0.31	0.34	1.26
Gain 50-100d -Direct (kg)	-7.05	-2.20	-1.46	-0.67	0.04	0.49	1.38	3.21
Ultrasound loin - Direct (mm)	-2.62	-0.74	-0.47	-0.19	0.08	0.25	0.54	0.90
Ultrasound fat - Direct (mm)	0.48	0.12	-0.03	-0.08	-0.18	-0.29	-0.39	-1.16
Lamb Survival - Maternal (lambs)	-0.22	-0.09	-0.05	-0.01	0.00	0.01	0.03	0.08
Birth Weight - Maternal (kg)	-1.07	-0.44	-0.24	-0.14	-0.05	0.00	0.12	0.54
50d Weight - Maternal (kg)	-3.82	-0.94	-0.41	0.06	0.44	0.75	1.42	3.81
Age 1st Lambing (days)	8.06	5.91	3.47	1.84	-0.54	-1.51	-2.53	-11.38
# Born 1st Lambing (lambs)	-0.13	0.13	0.18	0.24	0.30	0.34	0.40	0.57
# Total Weights Weaned 1st lambing (lambs)	-4.44	-1.80	-0.61	-0.07	0.51	0.77	1.19	2.76
Lambing Interval (days)	6.49	4.52	3.65	2.60	0.53	-0.23	-0.63	-3.21
# Born Later Lambing (lambs)	-0.21	0.25	0.35	0.49	0.60	0.65	0.79	1.24
# Total Weights Weaned Later Lambing (Lambs)	-5.54	-1.72	-0.89	0.36	1.85	2.77	4.81	9.33
Gain Index (GAIN)	-31.71	-10.13	-7.19	-4.04	-1.16	0.73	3.71	9.02
Carcass Index (CARC)	-26.91	-8.64	-5.96	-3.16	-0.54	1.10	3.75	7.90
Maternal Index (MAT)	-19.12	-5.32	-2.39	0.65	3.30	4.75	7.98	13.98
Maternal Ultrasound Index (MAT-U)	-15.20	-1.63	2.28	6.75	10.46	12.58	17.49	28.94
Maternal Higher Prolificacy Index (MAT-HP)	-21.24	-6.41	-3.42	-0.44	2.20	3.67	6.94	12.29
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-18.36	-3.38	0.33	4.50	7.77	9.65	13.46	23.36

EPDs Distribution by Percentile - July 2018

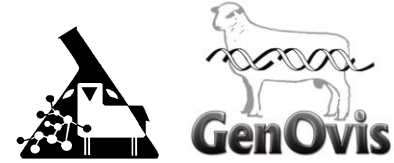
Race: Hampshire (HA)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.59	-0.04	-0.01	0.02	0.06	0.07	0.10	0.18
Birth Weight - Direct (kg)	-1.38	0.08	0.25	0.47	0.68	0.80	1.05	1.66
50d Weight - Direct (kg)	-4.33	-0.46	0.42	1.40	2.34	2.88	3.81	6.83
Gain 50-100d -Direct (kg)	-8.41	-0.99	0.45	1.95	3.19	3.96	5.60	9.08
Ultrasound loin - Direct (mm)	-6.08	-0.35	0.25	0.90	1.62	2.18	3.23	6.74
Ultrasound fat - Direct (mm)	4.17	1.21	0.51	0.34	0.12	-0.11	-0.34	-2.88
Lamb Survival - Maternal (lambs)	-0.12	0.03	0.05	0.07	0.09	0.10	0.12	0.18
Birth Weight - Maternal (kg)	-0.71	0.21	0.35	0.52	0.68	0.76	0.91	1.38
50d Weight - Maternal (kg)	-3.97	-0.07	0.50	1.14	1.79	2.19	2.91	4.71
Age 1st Lambing (days)	4.02	2.81	2.37	2.12	1.63	0.99	0.42	-3.49
# Born 1st Lambing (lambs)	-0.45	-0.29	-0.25	-0.22	-0.19	-0.18	-0.14	-0.01
# Total Weights Weaned 1st lambing (lambs)	-3.93	-1.52	-1.22	-0.91	-0.63	-0.47	-0.18	0.98
Lambing Interval (days)	8.70	6.29	5.48	4.92	3.86	3.11	2.66	-4.37
# Born Later Lambing (lambs)	-0.71	-0.48	-0.41	-0.36	-0.31	-0.27	-0.20	0.05
# Total Weights Weaned Later Lambing (Lambs)	-9.62	-3.28	-2.16	-1.08	0.00	0.73	2.59	5.08
Gain Index (GAIN)	-30.75	-4.00	1.44	7.37	12.34	15.39	21.22	32.62
Carcass Index (CARC)	-27.89	-3.11	2.15	7.74	12.60	15.35	20.43	31.52
Maternal Index (MAT)	-30.05	-10.51	-5.56	-0.37	4.05	6.67	11.86	21.26
Maternal Ultrasound Index (MAT-U)	-36.12	-18.01	-13.70	-8.77	-4.56	-2.08	2.32	13.54
Maternal Higher Prolificacy Index (MAT-HP)	-29.70	-8.65	-3.48	2.00	6.52	9.18	14.45	23.70
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-34.85	-14.85	-10.09	-4.87	-0.49	2.14	6.62	18.79

EPDs Distribution by Percentile - July 2018

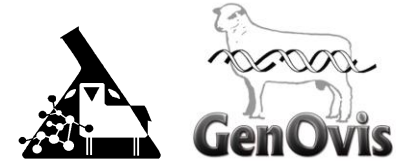
Race: Ile de France (IF)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.42	0.03	0.08	0.11	0.14	0.17	0.21	0.32
Birth Weight - Direct (kg)	-0.99	-0.19	0.08	0.24	0.39	0.49	0.70	1.03
50d Weight - Direct (kg)	-5.07	-0.87	0.17	1.07	1.77	2.21	3.02	4.07
Gain 50-100d -Direct (kg)	-8.30	-2.14	-0.54	0.78	2.02	2.78	4.01	6.13
Ultrasound loin - Direct (mm)	-2.66	0.58	1.25	1.97	2.57	2.92	3.77	8.42
Ultrasound fat - Direct (mm)	2.62	1.13	0.82	0.67	0.42	0.12	-0.20	-1.66
Lamb Survival - Maternal (lambs)	-0.17	-0.03	0.00	0.03	0.05	0.06	0.07	0.11
Birth Weight - Maternal (kg)	-0.27	0.16	0.27	0.39	0.48	0.56	0.68	1.03
50d Weight - Maternal (kg)	-2.84	-0.16	0.35	1.02	1.56	1.83	2.27	3.74
Age 1st Lambing (days)	6.31	4.16	3.15	2.75	2.05	1.12	0.56	-6.75
# Born 1st Lambing (lambs)	-0.52	-0.38	-0.35	-0.30	-0.26	-0.18	-0.03	0.14
# Total Weights Weaned 1st lambing (lambs)	-6.26	-3.42	-2.89	-2.54	-2.23	-1.89	-1.65	-0.51
Lambing Interval (days)	6.27	4.78	2.90	2.33	1.50	0.33	-0.47	-3.22
# Born Later Lambing (lambs)	-0.76	-0.53	-0.45	-0.33	-0.25	-0.23	-0.20	-0.15
# Total Weights Weaned Later Lambing (Lambs)	-8.41	-4.39	-3.47	-2.44	-1.54	-1.17	-0.67	2.10
Gain Index (GAIN)	-31.56	-6.78	-1.24	4.40	8.66	11.25	16.25	25.39
Carcass Index (CARC)	-26.27	-4.81	0.04	4.85	8.98	11.37	16.08	22.15
Maternal Index (MAT)	-38.68	-13.52	-7.08	-1.91	2.14	4.33	8.10	17.42
Maternal Ultrasound Index (MAT-U)	-43.37	-23.92	-17.66	-11.21	-7.34	-5.33	-1.55	5.92
Maternal Higher Prolificacy Index (MAT-HP)	-36.44	-11.69	-5.47	-0.26	3.94	6.07	10.20	19.52
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-41.46	-20.10	-13.85	-8.24	-3.90	-1.54	2.33	10.56

EPDs Distribution by Percentile - July 2018

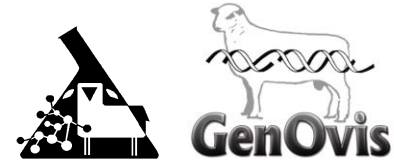
Race: Icelandic (IL)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.16	-0.02	0.01	0.03	0.05	0.06	0.08	0.11
Birth Weight - Direct (kg)	-1.18	-0.39	-0.24	-0.11	0.00	0.06	0.19	1.17
50d Weight - Direct (kg)	-4.12	-1.75	-1.24	-0.74	-0.22	0.08	0.66	2.29
Gain 50-100d -Direct (kg)	-6.30	-2.73	-1.84	-0.94	-0.10	0.31	1.16	3.66
Ultrasound loin - Direct (mm)	-5.28	-1.21	-0.32	0.29	0.87	1.41	2.70	4.63
Ultrasound fat - Direct (mm)	2.38	0.72	0.40	0.28	0.11	-0.05	-0.25	-1.18
Lamb Survival - Maternal (lambs)	-0.04	0.03	0.05	0.06	0.07	0.08	0.10	0.14
Birth Weight - Maternal (kg)	-0.40	0.09	0.18	0.26	0.34	0.39	0.48	0.68
50d Weight - Maternal (kg)	-2.55	-0.48	-0.10	0.31	0.64	0.84	1.13	2.05
Age 1st Lambing (days)	4.59	3.09	2.26	1.95	1.65	1.37	0.87	-3.14
# Born 1st Lambing (lambs)	-0.44	-0.29	-0.27	-0.25	-0.22	-0.20	-0.17	-0.15
# Total Weights Weaned 1st lambing (lambs)	-3.79	-2.33	-2.08	-1.90	-1.72	-1.60	-1.39	-0.93
Lambing Interval (days)	3.09	2.79	2.59	2.47	2.28	2.01	1.74	0.67
# Born Later Lambing (lambs)	-0.54	-0.37	-0.34	-0.31	-0.29	-0.26	-0.22	-0.16
# Total Weights Weaned Later Lambing (Lambs)	-6.05	-3.59	-2.98	-2.45	-2.02	-1.76	-1.31	-0.52
Gain Index (GAIN)	-22.50	-10.56	-7.52	-4.23	-1.14	0.55	3.66	8.21
Carcass Index (CARC)	-22.33	-10.11	-7.11	-3.93	-0.87	1.18	4.08	10.32
Maternal Index (MAT)	-25.99	-14.92	-12.00	-9.29	-6.88	-5.50	-2.87	0.75
Maternal Ultrasound Index (MAT-U)	-32.04	-21.74	-19.26	-16.53	-14.33	-13.08	-10.89	-6.81
Maternal Higher Prolificacy Index (MAT-HP)	-24.81	-14.01	-11.15	-8.16	-5.50	-4.01	-1.34	3.45
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-30.37	-19.73	-17.26	-14.17	-11.61	-10.14	-7.83	-3.55

EPDs Distribution by Percentile - July 2018

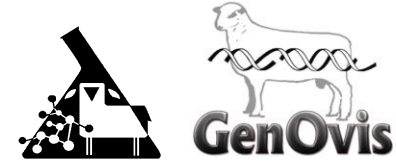
Race: Katahdin (KA)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.20	-0.03	-0.01	0.01	0.02	0.03	0.05	0.12
Birth Weight - Direct (kg)	-1.32	-0.43	-0.20	0.04	0.25	0.37	0.59	1.02
50d Weight - Direct (kg)	-6.69	-1.97	-1.16	-0.25	0.61	1.08	2.01	3.90
Gain 50-100d -Direct (kg)	-7.61	-2.58	-1.47	-0.30	0.78	1.46	2.57	7.62
Ultrasound loin - Direct (mm)	-3.25	-1.83	-1.35	-0.83	-0.51	-0.33	0.00	0.90
Ultrasound fat - Direct (mm)	0.13	-0.06	-0.17	-0.23	-0.35	-0.65	-0.90	-1.60
Lamb Survival - Maternal (lambs)	-0.09	0.00	0.03	0.05	0.06	0.07	0.09	0.13
Birth Weight - Maternal (kg)	-0.37	0.16	0.27	0.38	0.46	0.52	0.65	1.19
50d Weight - Maternal (kg)	-2.66	-0.35	0.15	0.60	1.07	1.37	1.86	3.51
Age 1st Lambing (days)	6.10	3.62	2.52	2.26	1.69	0.64	-0.99	-6.22
# Born 1st Lambing (lambs)	-0.31	-0.21	-0.18	-0.15	-0.10	-0.08	-0.02	0.15
# Total Weights Weaned 1st lambing (lambs)	-3.67	-1.83	-1.33	-0.84	-0.32	-0.11	0.19	0.96
Lambing Interval (days)	4.40	3.76	3.32	3.06	2.76	2.42	2.00	-0.59
# Born Later Lambing (lambs)	-0.52	-0.26	-0.21	-0.15	-0.11	-0.07	0.01	0.35
# Total Weights Weaned Later Lambing (Lambs)	-4.86	-2.31	-1.75	-0.94	0.61	1.90	4.66	7.73
Gain Index (GAIN)	-34.60	-10.96	-6.48	-1.79	2.67	5.49	9.95	24.15
Carcass Index (CARC)	-28.68	-9.05	-4.89	-0.84	3.04	5.17	9.48	22.61
Maternal Index (MAT)	-30.12	-13.96	-9.59	-5.28	-1.25	0.87	4.96	12.96
Maternal Ultrasound Index (MAT-U)	-32.22	-17.89	-13.81	-9.35	-5.17	-3.17	0.46	9.87
Maternal Higher Prolificacy Index (MAT-HP)	-30.73	-13.17	-8.59	-4.27	-0.05	2.11	6.40	16.33
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-32.43	-16.49	-12.09	-7.63	-3.45	-1.26	2.62	13.96

EPDs Distribution by Percentile - July 2018

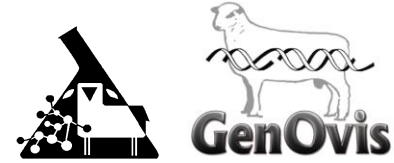
Race: North Country Cheviot (NC)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.20	-0.03	0.00	0.03	0.04	0.05	0.07	0.14
Birth Weight - Direct (kg)	-0.91	0.05	0.21	0.38	0.59	0.73	1.01	1.62
50d Weight - Direct (kg)	-4.88	-1.52	-1.00	-0.35	0.35	0.81	1.77	3.76
Gain 50-100d -Direct (kg)	-7.11	-2.17	-1.26	-0.16	0.91	1.58	3.01	5.90
Ultrasound loin - Direct (mm)	-5.56	-1.02	-0.60	-0.28	0.06	0.27	0.75	2.36
Ultrasound fat - Direct (mm)	2.01	0.56	0.29	0.18	0.02	-0.13	-0.24	-1.30
Lamb Survival - Maternal (lambs)	-0.10	0.01	0.04	0.06	0.08	0.09	0.11	0.15
Birth Weight - Maternal (kg)	-0.51	0.20	0.32	0.46	0.60	0.69	0.83	1.23
50d Weight - Maternal (kg)	-3.79	-0.46	-0.02	0.48	0.97	1.25	1.88	4.55
Age 1st Lambing (days)	4.60	2.76	2.02	1.81	1.45	0.87	-0.55	-4.34
# Born 1st Lambing (lambs)	-0.42	-0.28	-0.24	-0.21	-0.19	-0.17	-0.13	-0.03
# Total Weights Weaned 1st lambing (lambs)	-4.58	-2.74	-2.38	-2.02	-1.73	-1.59	-1.36	-0.88
Lambing Interval (days)	4.91	3.55	3.18	2.92	2.38	1.86	1.36	-2.92
# Born Later Lambing (lambs)	-0.78	-0.47	-0.40	-0.34	-0.28	-0.24	-0.17	0.09
# Total Weights Weaned Later Lambing (Lambs)	-10.28	-5.97	-4.51	-3.41	-2.48	-1.94	-0.96	1.66
Gain Index (GAIN)	-27.65	-9.89	-6.69	-2.78	1.14	3.79	9.24	21.09
Carcass Index (CARC)	-25.29	-9.27	-6.50	-3.07	0.39	2.87	7.99	18.42
Maternal Index (MAT)	-34.56	-16.04	-12.87	-9.35	-5.95	-3.65	1.27	13.30
Maternal Ultrasound Index (MAT-U)	-43.69	-24.22	-20.82	-17.07	-13.71	-11.69	-8.03	2.34
Maternal Higher Prolificacy Index (MAT-HP)	-31.70	-14.71	-11.57	-8.00	-4.49	-2.07	3.25	15.22
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-39.71	-21.49	-18.20	-14.48	-11.03	-8.89	-4.50	3.30

EPDs Distribution by Percentile - July 2018

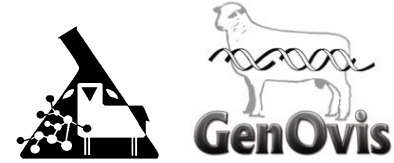
Race: Outaouais (OU)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.30	-0.11	-0.07	-0.03	0.00	0.01	0.04	0.08
Birth Weight - Direct (kg)	-1.41	-0.72	-0.62	-0.51	-0.40	-0.31	-0.12	0.32
50d Weight - Direct (kg)	-4.55	-1.53	-0.68	0.00	0.63	1.16	2.45	4.25
Gain 50-100d -Direct (kg)	-7.62	-3.22	-2.31	-1.09	0.19	1.00	2.36	5.69
Ultrasound loin - Direct (mm)	-2.28	-0.80	-0.56	-0.27	0.04	0.24	0.66	1.47
Ultrasound fat - Direct (mm)	0.50	0.21	0.06	-0.01	-0.12	-0.22	-0.31	-0.86
Lamb Survival - Maternal (lambs)	-0.13	-0.03	-0.01	0.01	0.03	0.03	0.05	0.12
Birth Weight - Maternal (kg)	-0.60	-0.15	-0.07	-0.01	0.05	0.08	0.17	0.78
50d Weight - Maternal (kg)	-2.54	-0.07	0.43	0.85	1.22	1.43	1.97	7.23
Age 1st Lambing (days)	5.03	2.26	1.20	0.73	-0.52	-2.10	-3.22	-10.45
# Born 1st Lambing (lambs)	-0.27	0.07	0.13	0.19	0.24	0.29	0.36	0.53
# Total Weights Weaned 1st lambing (lambs)	-2.84	-1.42	-1.02	0.25	1.20	1.62	2.17	3.30
Lambing Interval (days)	6.01	4.18	3.42	2.80	1.73	0.72	-0.38	-3.66
# Born Later Lambing (lambs)	-0.34	0.07	0.15	0.23	0.32	0.39	0.51	0.90
# Total Weights Weaned Later Lambing (Lambs)	-5.87	-2.34	-1.56	-0.60	0.16	0.68	1.62	5.98
Gain Index (GAIN)	-28.77	-9.76	-6.36	-2.48	1.84	4.37	10.00	21.71
Carcass Index (CARC)	-25.55	-8.64	-5.61	-2.10	1.74	4.09	9.09	19.57
Maternal Index (MAT)	-21.63	-4.49	-1.86	1.08	4.44	7.22	12.56	22.84
Maternal Ultrasound Index (MAT-U)	-19.52	-3.84	-1.03	2.36	6.50	9.62	15.67	21.63
Maternal Higher Prolificacy Index (MAT-HP)	-23.71	-5.65	-2.95	0.21	3.73	6.58	12.03	19.92
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-22.33	-5.15	-2.31	1.21	5.39	8.55	14.21	20.97

EPDs Distribution by Percentile - July 2018

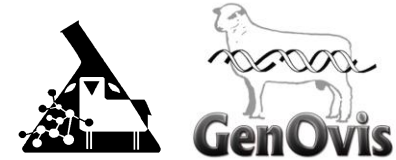
Race: Oxford (OX)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.18	-0.02	0.00	0.02	0.03	0.04	0.06	0.12
Birth Weight - Direct (kg)	-1.54	-0.14	0.03	0.21	0.40	0.52	0.79	1.57
50d Weight - Direct (kg)	-4.81	-1.28	-0.54	0.33	1.26	1.86	3.36	7.07
Gain 50-100d -Direct (kg)	-8.49	-1.85	-0.68	0.79	2.18	3.07	4.70	8.64
Ultrasound loin - Direct (mm)	-4.48	-0.57	-0.25	0.17	0.62	0.94	1.75	5.20
Ultrasound fat - Direct (mm)	1.42	0.65	0.40	0.29	0.14	-0.02	-0.14	-0.80
Lamb Survival - Maternal (lambs)	-0.08	0.02	0.03	0.05	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.57	0.07	0.17	0.30	0.44	0.52	0.69	1.03
50d Weight - Maternal (kg)	-4.20	-0.60	-0.07	0.53	1.12	1.50	2.28	5.00
Age 1st Lambing (days)	8.86	4.14	2.92	2.25	1.42	0.61	-0.17	-3.24
# Born 1st Lambing (lambs)	-0.43	-0.26	-0.23	-0.20	-0.18	-0.16	-0.13	-0.01
# Total Weights Weaned 1st lambing (lambs)	-4.21	-2.00	-1.68	-1.38	-1.09	-0.91	-0.64	0.77
Lambing Interval (days)	6.06	4.47	3.74	3.26	2.63	2.02	1.44	-1.16
# Born Later Lambing (lambs)	-0.66	-0.40	-0.36	-0.31	-0.26	-0.23	-0.16	0.11
# Total Weights Weaned Later Lambing (Lambs)	-9.99	-4.20	-3.27	-2.24	-1.32	-0.82	0.30	2.44
Gain Index (GAIN)	-31.15	-7.84	-3.41	2.30	7.86	11.12	17.94	34.12
Carcass Index (CARC)	-27.62	-7.27	-3.39	1.81	6.82	9.73	15.66	29.35
Maternal Index (MAT)	-31.90	-13.57	-9.09	-4.19	0.14	2.82	8.93	30.10
Maternal Ultrasound Index (MAT-U)	-38.22	-20.27	-15.98	-11.26	-7.08	-4.72	0.29	14.47
Maternal Higher Prolificacy Index (MAT-HP)	-30.73	-12.29	-7.78	-2.65	2.02	4.79	11.00	31.36
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.43	-17.94	-13.50	-8.39	-3.86	-1.30	4.02	19.36

EPDs Distribution by Percentile - July 2018

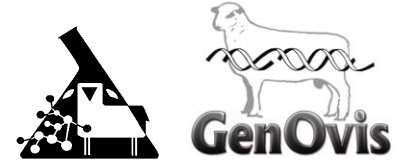
Race: Polypay (PO)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.34	-0.06	-0.02	0.02	0.05	0.08	0.12	0.22
Birth Weight - Direct (kg)	-1.23	-0.24	-0.01	0.20	0.38	0.48	0.67	1.79
50d Weight - Direct (kg)	-5.98	-1.97	-1.09	-0.15	0.77	1.35	2.40	5.85
Gain 50-100d -Direct (kg)	-8.35	-2.26	-1.29	-0.27	0.75	1.40	2.69	6.63
Ultrasound loin - Direct (mm)	-6.52	-0.94	-0.43	0.10	0.69	1.13	1.64	6.68
Ultrasound fat - Direct (mm)	2.18	0.47	0.25	0.13	-0.03	-0.19	-0.33	-1.47
Lamb Survival - Maternal (lambs)	-0.18	-0.02	0.01	0.04	0.06	0.08	0.10	0.17
Birth Weight - Maternal (kg)	-0.73	0.00	0.10	0.21	0.31	0.38	0.51	1.03
50d Weight - Maternal (kg)	-4.06	-0.72	-0.23	0.31	0.95	1.40	2.16	4.31
Age 1st Lambing (days)	7.72	4.58	3.63	3.16	2.44	1.51	0.17	-10.14
# Born 1st Lambing (lambs)	-0.39	-0.14	-0.10	-0.06	-0.03	-0.01	0.03	0.15
# Total Weights Weaned 1st lambing (lambs)	-5.44	-1.32	-0.39	0.69	1.67	2.13	2.75	4.13
Lambing Interval (days)	3.80	1.31	0.95	0.44	-0.84	-1.94	-2.89	-7.65
# Born Later Lambing (lambs)	-0.55	-0.18	-0.11	-0.04	0.03	0.07	0.15	0.53
# Total Weights Weaned Later Lambing (Lambs)	-7.81	-2.23	-1.13	0.11	1.23	1.94	3.18	6.18
Gain Index (GAIN)	-32.04	-10.73	-6.41	-1.75	2.81	5.59	10.79	25.47
Carcass Index (CARC)	-28.50	-9.46	-5.53	-1.39	2.59	5.06	9.52	22.38
Maternal Index (MAT)	-31.04	-10.70	-6.67	-1.63	3.01	5.34	9.07	19.31
Maternal Ultrasound Index (MAT-U)	-34.20	-12.41	-8.05	-3.07	1.25	3.51	7.34	17.40
Maternal Higher Prolificacy Index (MAT-HP)	-31.37	-10.87	-6.91	-1.83	2.82	5.21	9.15	19.86
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-32.86	-12.44	-8.25	-3.15	1.35	3.77	7.87	18.65

EPDs Distribution by Percentile - July 2018

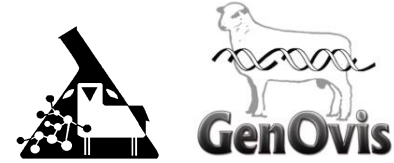
Race: Arcott Rideau (RI)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.76	-0.04	0.00	0.05	0.09	0.11	0.16	0.41
Birth Weight - Direct (kg)	-1.63	-0.39	-0.23	-0.04	0.14	0.24	0.44	1.41
50d Weight - Direct (kg)	-5.43	-1.08	-0.39	0.37	1.13	1.59	2.46	5.90
Gain 50-100d -Direct (kg)	-8.51	-0.89	-0.01	1.03	2.09	2.77	4.08	15.00
Ultrasound loin - Direct (mm)	-6.24	-0.72	-0.28	0.13	0.55	0.86	1.68	5.61
Ultrasound fat - Direct (mm)	4.93	0.94	0.53	0.39	0.19	0.00	-0.17	-2.31
Lamb Survival - Maternal (lambs)	-0.31	-0.06	-0.04	-0.01	0.01	0.02	0.04	0.18
Birth Weight - Maternal (kg)	-1.42	-0.38	-0.24	-0.11	0.02	0.10	0.25	1.47
50d Weight - Maternal (kg)	-4.49	-0.48	0.02	0.52	0.98	1.27	1.85	10.06
Age 1st Lambing (days)	13.67	3.39	2.26	1.74	0.78	-0.57	-1.98	-15.72
# Born 1st Lambing (lambs)	-0.19	0.22	0.30	0.39	0.46	0.51	0.60	0.99
# Total Weights Weaned 1st lambing (lambs)	-3.91	0.94	2.10	3.06	3.78	4.13	4.83	7.06
Lambing Interval (days)	6.72	3.59	2.01	1.27	0.30	-0.58	-1.33	-6.83
# Born Later Lambing (lambs)	-0.35	0.26	0.36	0.48	0.59	0.67	0.80	1.31
# Total Weights Weaned Later Lambing (Lambs)	-5.43	0.93	2.28	3.87	5.26	6.01	7.65	14.64
Gain Index (GAIN)	-33.13	-4.13	-0.51	3.67	7.94	10.64	15.68	46.39
Carcass Index (CARC)	-30.25	-4.11	-0.88	2.80	6.52	8.93	13.46	42.78
Maternal Index (MAT)	-21.17	1.92	5.76	10.28	14.86	17.63	22.41	41.79
Maternal Ultrasound Index (MAT-U)	-23.74	7.92	13.29	19.73	25.75	29.04	34.59	48.13
Maternal Higher Prolificacy Index (MAT-HP)	-21.90	0.46	4.18	8.52	13.01	15.73	20.52	43.10
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-23.62	5.45	10.36	16.21	21.82	24.96	30.31	47.08

EPDs Distribution by Percentile - July 2018

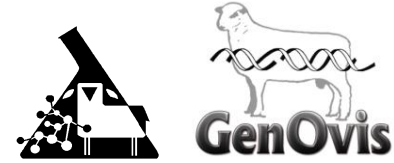
Race: Rouge de l'Ouest (RO)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.17	-0.04	0.00	0.04	0.07	0.09	0.12	0.14
Birth Weight - Direct (kg)	-1.54	-0.06	0.11	0.27	0.44	0.57	0.76	0.98
50d Weight - Direct (kg)	-6.46	-1.61	-1.12	-0.60	-0.14	0.18	0.78	1.20
Gain 50-100d -Direct (kg)	-6.50	-2.41	-1.69	-1.06	-0.36	0.08	1.30	3.42
Ultrasound loin - Direct (mm)	-2.84	-0.64	-0.37	0.09	1.06	1.48	2.26	4.08
Ultrasound fat - Direct (mm)	1.15	0.40	0.15	0.05	-0.08	-0.18	-0.27	-0.79
Lamb Survival - Maternal (lambs)	-0.10	-0.01	0.02	0.04	0.06	0.07	0.09	0.11
Birth Weight - Maternal (kg)	-0.29	0.12	0.22	0.33	0.43	0.52	0.67	0.82
50d Weight - Maternal (kg)	-3.19	-0.91	-0.53	-0.12	0.31	0.59	1.19	2.31
Age 1st Lambing (days)	4.29	2.35	1.21	0.92	0.48	-0.48	-1.40	-4.52
# Born 1st Lambing (lambs)	-0.38	-0.28	-0.25	-0.23	-0.22	-0.21	-0.19	-0.11
# Total Weights Weaned 1st lambing (lambs)	-4.77	-3.35	-2.88	-2.71	-2.61	-2.50	-2.23	-1.40
Lambing Interval (days)	3.70	2.51	2.21	1.98	1.44	0.72	-0.26	-3.05
# Born Later Lambing (lambs)	-0.69	-0.51	-0.48	-0.44	-0.42	-0.39	-0.35	-0.16
# Total Weights Weaned Later Lambing (Lambs)	-9.95	-7.43	-6.99	-6.50	-5.80	-5.13	-4.28	-2.14
Gain Index (GAIN)	-27.08	-10.43	-7.85	-5.13	-2.27	-0.75	3.10	8.42
Carcass Index (CARC)	-24.19	-9.24	-6.91	-4.28	-0.94	0.77	4.74	9.55
Maternal Index (MAT)	-33.17	-18.70	-15.91	-13.14	-10.40	-9.12	-6.44	-1.35
Maternal Ultrasound Index (MAT-U)	-38.01	-27.44	-25.20	-22.80	-20.60	-19.18	-16.78	-10.27
Maternal Higher Prolificacy Index (MAT-HP)	-30.48	-16.94	-14.11	-11.33	-8.40	-6.90	-3.74	1.43
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.57	-24.25	-21.86	-19.41	-16.86	-15.50	-12.59	-7.07

EPDs Distribution by Percentile - July 2018

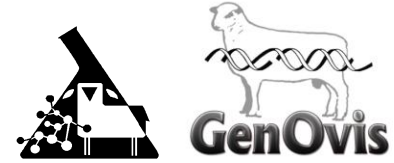
Race: Romanov (RV)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.31	0.00	0.04	0.07	0.11	0.14	0.19	0.30
Birth Weight - Direct (kg)	-1.73	-0.73	-0.57	-0.38	-0.22	-0.13	0.07	1.22
50d Weight - Direct (kg)	-6.49	-2.73	-1.89	-1.02	-0.29	0.15	1.00	3.75
Gain 50-100d -Direct (kg)	-8.42	-2.66	-1.71	-0.76	0.14	0.70	1.90	7.97
Ultrasound loin - Direct (mm)	-5.40	-1.47	-1.07	-0.64	-0.22	0.06	0.67	3.34
Ultrasound fat - Direct (mm)	3.07	0.51	0.31	0.21	0.02	-0.19	-0.37	-1.98
Lamb Survival - Maternal (lambs)	-0.39	-0.14	-0.11	-0.09	-0.06	-0.04	-0.02	0.12
Birth Weight - Maternal (kg)	-1.62	-0.76	-0.63	-0.49	-0.38	-0.31	-0.16	0.37
50d Weight - Maternal (kg)	-4.55	-0.98	-0.42	0.09	0.51	0.79	1.31	3.74
Age 1st Lambing (days)	7.55	1.46	0.02	-0.70	-1.56	-2.72	-3.81	-21.17
# Born 1st Lambing (lambs)	-0.22	0.44	0.55	0.66	0.73	0.77	0.85	1.08
# Total Weights Weaned 1st lambing (lambs)	-5.19	-0.88	0.00	0.74	1.44	1.74	2.14	3.23
Lambing Interval (days)	3.03	0.60	-0.06	-0.45	-1.52	-2.92	-4.35	-8.05
# Born Later Lambing (lambs)	-0.35	0.54	0.73	0.90	1.04	1.12	1.25	1.58
# Total Weights Weaned Later Lambing (Lambs)	-8.96	-0.53	1.46	3.57	5.17	5.93	7.24	10.07
Gain Index (GAIN)	-34.59	-12.21	-7.91	-3.44	0.39	2.68	7.68	24.71
Carcass Index (CARC)	-32.22	-11.63	-7.87	-3.81	-0.24	2.04	6.89	24.10
Maternal Index (MAT)	-20.92	-1.92	4.51	11.37	16.77	19.47	24.53	37.64
Maternal Ultrasound Index (MAT-U)	-27.52	7.18	16.75	26.05	32.75	36.13	41.92	51.60
Maternal Higher Prolificacy Index (MAT-HP)	-24.32	-4.59	1.18	7.22	12.17	14.81	20.19	33.84
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-26.03	2.81	11.09	19.21	25.23	28.48	34.50	45.47

EPDs Distribution by Percentile - July 2018

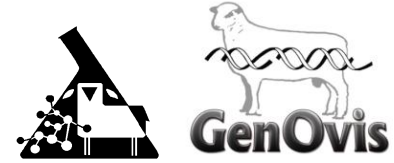
Race: Romney (RY)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.17	-0.04	0.00	0.04	0.07	0.09	0.12	0.14
Birth Weight - Direct (kg)	-1.54	-0.06	0.11	0.27	0.44	0.57	0.76	0.98
50d Weight - Direct (kg)	-6.46	-1.61	-1.12	-0.60	-0.14	0.18	0.78	1.20
Gain 50-100d -Direct (kg)	-6.50	-2.41	-1.69	-1.06	-0.36	0.08	1.30	3.42
Ultrasound loin - Direct (mm)	-2.84	-0.64	-0.37	0.09	1.06	1.48	2.26	4.08
Ultrasound fat - Direct (mm)	1.15	0.40	0.15	0.05	-0.08	-0.18	-0.27	-0.79
Lamb Survival - Maternal (lambs)	-0.10	-0.01	0.02	0.04	0.06	0.07	0.09	0.11
Birth Weight - Maternal (kg)	-0.29	0.12	0.22	0.33	0.43	0.52	0.67	0.82
50d Weight - Maternal (kg)	-3.19	-0.91	-0.53	-0.12	0.31	0.59	1.19	2.31
Age 1st Lambing (days)	4.29	2.35	1.21	0.92	0.48	-0.48	-1.40	-4.52
# Born 1st Lambing (lambs)	-0.38	-0.28	-0.25	-0.23	-0.22	-0.21	-0.19	-0.11
# Total Weights Weaned 1st lambing (lambs)	-4.77	-3.35	-2.88	-2.71	-2.61	-2.50	-2.23	-1.40
Lambing Interval (days)	3.70	2.51	2.21	1.98	1.44	0.72	-0.26	-3.05
# Born Later Lambing (lambs)	-0.69	-0.51	-0.48	-0.44	-0.42	-0.39	-0.35	-0.16
# Total Weights Weaned Later Lambing (Lambs)	-9.95	-7.43	-6.99	-6.50	-5.80	-5.13	-4.28	-2.14
Gain Index (GAIN)	-27.08	-10.43	-7.85	-5.13	-2.27	-0.75	3.10	8.42
Carcass Index (CARC)	-24.19	-9.24	-6.91	-4.28	-0.94	0.77	4.74	9.55
Maternal Index (MAT)	-33.17	-18.70	-15.91	-13.14	-10.40	-9.12	-6.44	-1.35
Maternal Ultrasound Index (MAT-U)	-38.01	-27.44	-25.20	-22.80	-20.60	-19.18	-16.78	-10.27
Maternal Higher Prolificacy Index (MAT-HP)	-30.48	-16.94	-14.11	-11.33	-8.40	-6.90	-3.74	1.43
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.57	-24.25	-21.86	-19.41	-16.86	-15.50	-12.59	-7.07

EPDs Distribution by Percentile - July 2018

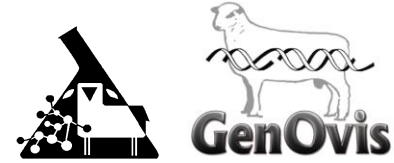
Race: Scottish Blackface (SB)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.30	-0.05	-0.02	0.01	0.04	0.08	0.15	0.32
Birth Weight - Direct (kg)	-1.27	-0.17	-0.05	0.08	0.24	0.36	0.60	1.90
50d Weight - Direct (kg)	-5.70	-1.35	-0.72	0.01	0.92	1.60	2.75	6.56
Gain 50-100d -Direct (kg)	-9.82	-1.99	-1.22	-0.37	0.68	1.39	2.65	10.79
Ultrasound loin - Direct (mm)	-4.73	-0.93	-0.56	-0.23	0.16	0.42	1.00	5.14
Ultrasound fat - Direct (mm)	2.58	0.48	0.30	0.21	0.09	-0.08	-0.23	-1.80
Lamb Survival - Maternal (lambs)	-0.22	0.01	0.04	0.05	0.06	0.07	0.09	0.18
Birth Weight - Maternal (kg)	-1.17	0.07	0.18	0.25	0.32	0.37	0.53	1.18
50d Weight - Maternal (kg)	-5.18	-0.55	-0.07	0.32	0.71	0.98	1.59	5.41
Age 1st Lambing (days)	7.62	2.99	1.70	0.84	-0.70	-2.16	-3.19	-25.00
# Born 1st Lambing (lambs)	-0.54	-0.19	-0.17	-0.13	-0.01	0.10	0.27	0.58
# Total Weights Weaned 1st lambing (lambs)	-6.93	-2.15	-1.98	-1.80	-0.43	0.61	2.28	6.47
Lambing Interval (days)	6.04	3.24	2.31	1.81	1.36	1.24	0.70	-5.65
# Born Later Lambing (lambs)	-0.71	-0.28	-0.24	-0.17	-0.01	0.14	0.37	0.90
# Total Weights Weaned Later Lambing (Lambs)	-11.08	-3.36	-2.79	-1.82	0.11	1.52	3.89	9.22
Gain Index (GAIN)	-34.21	-8.34	-5.14	-1.32	3.39	6.69	12.26	40.58
Carcass Index (CARC)	-30.23	-8.21	-4.98	-1.53	2.66	5.52	10.39	35.64
Maternal Index (MAT)	-31.79	-11.69	-8.32	-4.47	-0.08	2.86	9.23	24.07
Maternal Ultrasound Index (MAT-U)	-38.87	-16.87	-13.78	-9.72	-1.72	5.36	15.57	33.18
Maternal Higher Prolificacy Index (MAT-HP)	-31.72	-11.12	-7.68	-3.79	0.68	3.53	9.11	27.44
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.85	-15.43	-12.18	-8.07	-0.85	5.30	14.06	35.99

EPDs Distribution by Percentile - July 2018

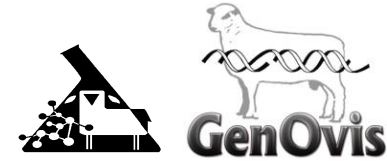
Race: Shropshire (SH)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.18	-0.02	0.00	0.02	0.03	0.04	0.06	0.12
Birth Weight - Direct (kg)	-1.54	-0.14	0.03	0.21	0.40	0.52	0.79	1.57
50d Weight - Direct (kg)	-4.81	-1.28	-0.54	0.33	1.26	1.86	3.36	7.07
Gain 50-100d -Direct (kg)	-8.49	-1.85	-0.68	0.79	2.18	3.07	4.70	8.64
Ultrasound loin - Direct (mm)	-4.48	-0.57	-0.25	0.17	0.62	0.94	1.75	5.20
Ultrasound fat - Direct (mm)	1.42	0.65	0.40	0.29	0.14	-0.02	-0.14	-0.80
Lamb Survival - Maternal (lambs)	-0.08	0.02	0.03	0.05	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.57	0.07	0.17	0.30	0.44	0.52	0.69	1.03
50d Weight - Maternal (kg)	-4.20	-0.60	-0.07	0.53	1.12	1.50	2.28	5.00
Age 1st Lambing (days)	8.86	4.14	2.92	2.25	1.42	0.61	-0.17	-3.24
# Born 1st Lambing (lambs)	-0.43	-0.26	-0.23	-0.20	-0.18	-0.16	-0.13	-0.01
# Total Weights Weaned 1st lambing (lambs)	-4.21	-2.00	-1.68	-1.38	-1.09	-0.91	-0.64	0.77
Lambing Interval (days)	6.06	4.47	3.74	3.26	2.63	2.02	1.44	-1.16
# Born Later Lambing (lambs)	-0.66	-0.40	-0.36	-0.31	-0.26	-0.23	-0.16	0.11
# Total Weights Weaned Later Lambing (Lambs)	-9.99	-4.20	-3.27	-2.24	-1.32	-0.82	0.30	2.44
Gain Index (GAIN)	-31.15	-7.84	-3.41	2.30	7.86	11.12	17.94	34.12
Carcass Index (CARC)	-27.62	-7.27	-3.39	1.81	6.82	9.73	15.66	29.35
Maternal Index (MAT)	-31.90	-13.57	-9.09	-4.19	0.14	2.82	8.93	30.10
Maternal Ultrasound Index (MAT-U)	-38.22	-20.27	-15.98	-11.26	-7.08	-4.72	0.29	14.47
Maternal Higher Prolificacy Index (MAT-HP)	-30.73	-12.29	-7.78	-2.65	2.02	4.79	11.00	31.36
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.43	-17.94	-13.50	-8.39	-3.86	-1.30	4.02	19.36

EPDs Distribution by Percentile - July 2018

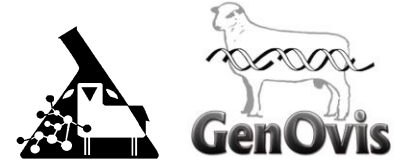
Race: Southdown (SO)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.18	-0.02	0.00	0.02	0.03	0.04	0.06	0.12
Birth Weight - Direct (kg)	-1.54	-0.14	0.03	0.21	0.40	0.52	0.79	1.57
50d Weight - Direct (kg)	-4.81	-1.28	-0.54	0.33	1.26	1.86	3.36	7.07
Gain 50-100d -Direct (kg)	-8.49	-1.85	-0.68	0.79	2.18	3.07	4.70	8.64
Ultrasound loin - Direct (mm)	-4.48	-0.57	-0.25	0.17	0.62	0.94	1.75	5.20
Ultrasound fat - Direct (mm)	1.42	0.65	0.40	0.29	0.14	-0.02	-0.14	-0.80
Lamb Survival - Maternal (lambs)	-0.08	0.02	0.03	0.05	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.57	0.07	0.17	0.30	0.44	0.52	0.69	1.03
50d Weight - Maternal (kg)	-4.20	-0.60	-0.07	0.53	1.12	1.50	2.28	5.00
Age 1st Lambing (days)	8.86	4.14	2.92	2.25	1.42	0.61	-0.17	-3.24
# Born 1st Lambing (lambs)	-0.43	-0.26	-0.23	-0.20	-0.18	-0.16	-0.13	-0.01
# Total Weights Weaned 1st lambing (lambs)	-4.21	-2.00	-1.68	-1.38	-1.09	-0.91	-0.64	0.77
Lambing Interval (days)	6.06	4.47	3.74	3.26	2.63	2.02	1.44	-1.16
# Born Later Lambing (lambs)	-0.66	-0.40	-0.36	-0.31	-0.26	-0.23	-0.16	0.11
# Total Weights Weaned Later Lambing (Lambs)	-9.99	-4.20	-3.27	-2.24	-1.32	-0.82	0.30	2.44
Gain Index (GAIN)	-31.15	-7.84	-3.41	2.30	7.86	11.12	17.94	34.12
Carcass Index (CARC)	-27.62	-7.27	-3.39	1.81	6.82	9.73	15.66	29.35
Maternal Index (MAT)	-31.90	-13.57	-9.09	-4.19	0.14	2.82	8.93	30.10
Maternal Ultrasound Index (MAT-U)	-38.22	-20.27	-15.98	-11.26	-7.08	-4.72	0.29	14.47
Maternal Higher Prolificacy Index (MAT-HP)	-30.73	-12.29	-7.78	-2.65	2.02	4.79	11.00	31.36
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.43	-17.94	-13.50	-8.39	-3.86	-1.30	4.02	19.36

EPDs Distribution by Percentile - July 2018

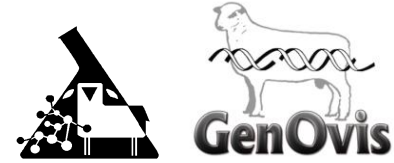
Race: Suffolk (SU)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.87	-0.08	-0.04	-0.03	-0.01	0.00	0.03	0.18
Birth Weight - Direct (kg)	-1.75	0.16	0.34	0.57	0.78	0.91	1.18	2.24
50d Weight - Direct (kg)	-6.56	0.30	1.02	1.99	2.95	3.52	4.62	8.56
Gain 50-100d -Direct (kg)	-8.85	-0.02	0.96	2.52	4.08	5.00	6.67	17.63
Ultrasound loin - Direct (mm)	-8.86	-1.49	-0.89	-0.06	0.76	1.38	2.99	9.18
Ultrasound fat - Direct (mm)	7.11	0.53	0.10	-0.02	-0.17	-0.31	-0.49	-2.53
Lamb Survival - Maternal (lambs)	-0.21	0.01	0.04	0.07	0.09	0.10	0.13	0.24
Birth Weight - Maternal (kg)	-1.07	0.30	0.41	0.51	0.64	0.73	0.92	1.73
50d Weight - Maternal (kg)	-6.77	0.08	0.59	1.20	1.86	2.30	3.17	8.63
Age 1st Lambing (days)	8.39	4.50	3.67	3.24	2.54	1.68	-0.52	-7.62
# Born 1st Lambing (lambs)	-0.49	-0.23	-0.20	-0.18	-0.15	-0.13	-0.08	0.15
# Total Weights Weaned 1st lambing (lambs)	-3.38	-1.25	-0.86	-0.17	0.51	0.88	1.51	3.50
Lambing Interval (days)	6.65	4.19	3.57	3.32	3.01	2.79	2.25	-2.14
# Born Later Lambing (lambs)	-0.79	-0.33	-0.28	-0.24	-0.19	-0.15	-0.07	0.43
# Total Weights Weaned Later Lambing (Lambs)	-7.33	-1.66	-0.51	0.89	2.39	3.34	5.24	13.28
Gain Index (GAIN)	-36.68	0.09	4.10	9.84	15.59	19.06	25.46	54.10
Carcass Index (CARC)	-29.74	-0.03	4.09	9.76	15.42	18.81	24.66	50.24
Maternal Index (MAT)	-34.47	-5.91	-1.43	3.95	9.19	12.52	18.38	36.17
Maternal Ultrasound Index (MAT-U)	-36.25	-11.20	-6.97	-1.47	3.72	6.72	12.19	27.07
Maternal Higher Prolificacy Index (MAT-HP)	-34.29	-4.33	0.21	5.80	11.27	14.67	20.56	41.76
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-36.61	-8.70	-4.31	1.43	6.95	10.14	15.85	34.07

EPDs Distribution by Percentile - July 2018

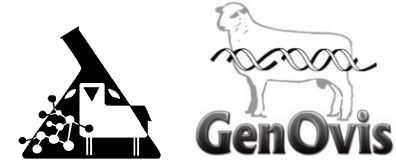
Race: Tunis (TU)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.15	0.01	0.03	0.05	0.07	0.08	0.10	0.16
Birth Weight - Direct (kg)	-1.25	-0.25	-0.10	0.02	0.17	0.28	0.46	0.80
50d Weight - Direct (kg)	-4.08	-1.03	-0.45	0.15	0.76	1.13	1.83	3.14
Gain 50-100d -Direct (kg)	-5.84	-1.70	-0.78	0.55	1.91	2.50	3.81	7.53
Ultrasound loin - Direct (mm)	-5.87	0.34	0.94	1.88	2.89	3.45	4.72	6.98
Ultrasound fat - Direct (mm)	6.60	3.23	1.96	1.39	0.72	0.34	0.06	-2.33
Lamb Survival - Maternal (lambs)	-0.07	0.01	0.03	0.04	0.06	0.07	0.09	0.14
Birth Weight - Maternal (kg)	-0.46	0.03	0.13	0.23	0.32	0.36	0.46	0.85
50d Weight - Maternal (kg)	-3.01	-0.52	-0.02	0.50	0.91	1.17	1.74	2.85
Age 1st Lambing (days)	3.61	1.97	1.73	1.54	0.96	0.16	-0.64	-6.94
# Born 1st Lambing (lambs)	-0.52	-0.27	-0.24	-0.21	-0.18	-0.16	-0.14	-0.05
# Total Weights Weaned 1st lambing (lambs)	-5.57	-2.95	-2.52	-2.19	-1.87	-1.63	-1.39	-0.81
Lambing Interval (days)	3.18	1.94	1.51	1.19	0.67	0.19	-0.27	-2.12
# Born Later Lambing (lambs)	-0.70	-0.44	-0.39	-0.34	-0.30	-0.28	-0.24	-0.11
# Total Weights Weaned Later Lambing (Lambs)	-8.10	-5.26	-4.48	-3.78	-3.11	-2.68	-1.54	0.18
Gain Index (GAIN)	-23.80	-6.28	-2.68	1.82	6.29	8.68	13.31	24.49
Carcass Index (CARC)	-19.86	-6.54	-3.26	1.10	5.26	7.52	12.02	21.31
Maternal Index (MAT)	-28.30	-11.88	-8.02	-3.84	-0.02	2.28	6.01	13.63
Maternal Ultrasound Index (MAT-U)	-35.98	-20.60	-16.56	-12.76	-9.53	-7.70	-4.08	3.02
Maternal Higher Prolificacy Index (MAT-HP)	-27.21	-10.64	-7.06	-2.82	1.08	3.27	7.04	13.62
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-33.87	-17.99	-13.98	-9.93	-6.51	-4.57	-0.85	6.54

EPDs Distribution by Percentile - July 2018

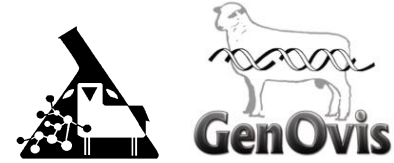
Race: Texel (TX)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.31	-0.03	0.01	0.03	0.06	0.07	0.11	0.19
Birth Weight - Direct (kg)	-1.22	-0.02	0.17	0.34	0.50	0.60	0.81	1.29
50d Weight - Direct (kg)	-4.51	-0.61	0.14	0.93	1.71	2.15	2.96	4.64
Gain 50-100d -Direct (kg)	-5.67	-2.17	-1.35	-0.53	0.34	0.90	1.96	6.08
Ultrasound loin - Direct (mm)	-4.10	0.46	1.19	2.12	3.09	3.73	4.90	9.46
Ultrasound fat - Direct (mm)	3.69	0.97	0.54	0.41	0.23	0.07	-0.11	-1.42
Lamb Survival - Maternal (lambs)	-0.14	0.01	0.03	0.05	0.07	0.08	0.10	0.17
Birth Weight - Maternal (kg)	-0.56	0.15	0.28	0.39	0.49	0.56	0.70	1.11
50d Weight - Maternal (kg)	-4.17	-0.88	-0.14	0.46	1.06	1.40	2.00	3.45
Age 1st Lambing (days)	4.54	2.42	1.20	0.67	0.08	-0.45	-1.36	-6.27
# Born 1st Lambing (lambs)	-0.59	-0.43	-0.32	-0.25	-0.20	-0.18	-0.15	0.02
# Total Weights Weaned 1st lambing (lambs)	-6.30	-3.06	-2.22	-1.73	-1.34	-1.17	-0.87	-0.25
Lambing Interval (days)	4.95	3.40	2.77	2.56	2.07	1.45	0.93	-1.62
# Born Later Lambing (lambs)	-1.03	-0.71	-0.50	-0.43	-0.37	-0.33	-0.21	-0.04
# Total Weights Weaned Later Lambing (Lambs)	-9.27	-5.80	-4.66	-3.71	-2.62	-1.98	-0.73	0.86
Gain Index (GAIN)	-21.29	-6.77	-3.35	-0.13	2.94	4.98	9.61	24.39
Carcass Index (CARC)	-20.29	-4.88	-1.92	1.44	4.74	7.00	11.20	23.60
Maternal Index (MAT)	-30.84	-16.64	-11.95	-8.50	-5.61	-3.98	-0.32	10.07
Maternal Ultrasound Index (MAT-U)	-43.94	-27.81	-21.61	-17.71	-14.40	-12.43	-8.94	1.07
Maternal Higher Prolificacy Index (MAT-HP)	-28.46	-13.90	-9.84	-6.39	-3.48	-1.70	1.81	14.17
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-39.55	-22.98	-17.91	-14.20	-10.96	-9.15	-5.35	7.00

EPDs Distribution by Percentile - July 2018

Race: Dorper Blanc (WD)



Trait	Min	25%	50%	75%	90%	95%	99%	Max
Lamb Survival - Direct (lambs)	-0.31	-0.03	0.01	0.03	0.06	0.07	0.11	0.19
Birth Weight - Direct (kg)	-1.22	-0.02	0.17	0.34	0.50	0.60	0.81	1.29
50d Weight - Direct (kg)	-4.51	-0.61	0.14	0.93	1.71	2.15	2.96	4.64
Gain 50-100d -Direct (kg)	-5.67	-2.17	-1.35	-0.53	0.34	0.90	1.96	6.08
Ultrasound loin - Direct (mm)	-4.10	0.46	1.19	2.12	3.09	3.73	4.90	9.46
Ultrasound fat - Direct (mm)	3.69	0.97	0.54	0.41	0.23	0.07	-0.11	-1.42
Lamb Survival - Maternal (lambs)	-0.14	0.01	0.03	0.05	0.07	0.08	0.10	0.17
Birth Weight - Maternal (kg)	-0.56	0.15	0.28	0.39	0.49	0.56	0.70	1.11
50d Weight - Maternal (kg)	-4.17	-0.88	-0.14	0.46	1.06	1.40	2.00	3.45
Age 1st Lambing (days)	4.54	2.42	1.20	0.67	0.08	-0.45	-1.36	-6.27
# Born 1st Lambing (lambs)	-0.59	-0.43	-0.32	-0.25	-0.20	-0.18	-0.15	0.02
# Total Weights Weaned 1st lambing (lambs)	-6.30	-3.06	-2.22	-1.73	-1.34	-1.17	-0.87	-0.25
Lambing Interval (days)	4.95	3.40	2.77	2.56	2.07	1.45	0.93	-1.62
# Born Later Lambing (lambs)	-1.03	-0.71	-0.50	-0.43	-0.37	-0.33	-0.21	-0.04
# Total Weights Weaned Later Lambing (Lambs)	-9.27	-5.80	-4.66	-3.71	-2.62	-1.98	-0.73	0.86
Gain Index (GAIN)	-21.29	-6.77	-3.35	-0.13	2.94	4.98	9.61	24.39
Carcass Index (CARC)	-20.29	-4.88	-1.92	1.44	4.74	7.00	11.20	23.60
Maternal Index (MAT)	-30.84	-16.64	-11.95	-8.50	-5.61	-3.98	-0.32	10.07
Maternal Ultrasound Index (MAT-U)	-43.94	-27.81	-21.61	-17.71	-14.40	-12.43	-8.94	1.07
Maternal Higher Prolificacy Index (MAT-HP)	-28.46	-13.90	-9.84	-6.39	-3.48	-1.70	1.81	14.17
Maternal Ultrasound Higher Prolificacy Index (MAT-UHP)	-39.55	-22.98	-17.91	-14.20	-10.96	-9.15	-5.35	7.00