Updated: July 1, 2016

Beefmaster Genomic-Enhanced EPDs Evaluation

Welcome to the Beefmaster breed's first ever genomic-enhanced expected progeny differences (GE-EPDs) evaluation. This is a project that was envisioned by the Beefmaster Educational Endowment Foundation (B.E.E.F.) in 2009 and many Beefmaster breeders worked hard to ensure that the Beefmaster breed achieved the goal of GE-EPDs.

GE-EPDs are the most effective genetic selection tool developed to date. The ability to include DNA derived information in combination with traditional performance EPDs has led to greater genetic improvements at a faster pace, in other species and in other cattle breeds. GE-EPDs will no doubt have the same impact on the Beefmaster breed.

In order to make these first-ever Beefmaster GE-EPDs as visible possible we are posting all of the GE-EPDs together in this document, starting on the next page. You will also find specific animal GE-EPDs by searching animal names or registration numbers through the search function at www.beefmasters.org. In the search feature all of the animals with GE-EPDs are identified by the "Beefmaster Genomics" logo, which will display on their pedigree.

We understand with GE-EPDs being new to the Beefmaster breed there will be questions. The most basic point to understanding GE-EPDs is that the accuracy values for young animals are greatly enhanced. Just because an animal has been genotyped and has GE-EPDs does not mean its EPDs are "better", it means those animals EPDs are more accurate. Increasing the accuracies of EPDs leads to much faster genetic improvement and more buyer confidence. This improved accuracy is why discriminating buyers are demanding GE-EPDs.

Secondly, in this GE-EPD evaluation the ONLY animals included are the ones that have been HD genotyped. This first GE-EPD evaluation is composed of 545 HD genotyped animals. There are some HD genotyped animals that were not included in this first evaluation, for reasons beyond Beefmaster Breeders United's (BBU) control. BBU is working with its genomic vendors to include ALL genotyped animals in the next available genetic evaluation.

If a breeder wants to have GE-EPDs calculated on an animal the breeder must submit at a minimum: birth weight and weaning weight, according to the Weights and Measures program guidelines, in addition to the animal being genotyped. BBU recommends that all animals be HD genotyped, however in the near future BBU will accept and include LD genotyped animals. For more information about Beefmaster GE-EPDs, please contact the BBU office at 210-732-3132 or info@beefmasters.org.

UPDATE JULY 1, 2016

Another 170 genotypes have been added to the BBU animal database which has yielded a total of 704 animals with genotypes and GE-EPDs. They have all been loaded into the search engine and are identified by the BBU Genomics logo.

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C257482	1.40	0.99	11.4	0.99	11.6	0.97	31.0	0.98	0.27	0.84	-0.55	0.71	-0.023	0.66	-0.846	0.69
C663482	1.38	0.97	45.1	0.98	-7.1	0.92	70.5	0.97	1.17	0.95	-0.06	0.92	-0.012	0.89	0.279	0.90
C818452	-0.89	0.91	33.9	0.94	7.5	0.81	53.9	0.92	1.63	0.90	-0.08	0.90	-0.004	0.86	0.345	0.87
C266698	0.51	0.88	5.0	0.93	11.5	0.76	22.1	0.79	0.09	0.50	-0.06	0.37	-0.008	0.31	-0.223	0.38
C326216	1.05	0.84	11.4	0.89	11.0	0.72	27.2	0.69	0.16	0.56	-0.40	0.48	-0.015	0.42	-0.612	0.46
C369948	0.76	0.90	22.9	0.91	9.0	0.74	36.0	0.78	0.19	0.58	-0.11	0.44	-0.010	0.38	-0.304	0.43
C380077	1.26	0.96	22.7	0.98	9.9	0.94	52.9	0.94	0.27	0.83	-0.39	0.92	-0.014	0.90	-0.248	0.91
C391384	0.29	0.88	16.7	0.85	5.4	0.57	36.7	0.57	0.33	0.43	-0.31	0.37	-0.013	0.31	-0.484	0.36
C630805	0.27	0.94	21.4	0.95	13.0	0.85	40.5	0.90	-0.01	0.81	-0.26	0.82	-0.005	0.76	0.152	0.78
C417422	0.84	0.88	14.9	0.89	4.1	0.65	37.7	0.84	0.01	0.53	-0.04	0.29	-0.009	0.22	0.146	0.31
C457574	1.56	0.60	6.2	0.82	14.5	0.62	24.7	0.54	0.00	0.43	-0.45	0.53	-0.016	0.47	-0.394	0.50
C461863	1.83	0.81	20.4	0.79	7.3	0.53	41.8	0.62	0.13	0.48	-0.02	0.37	-0.004	0.30	-0.005	0.36
C629045	-0.92	0.79	20.9	0.84	4.3	0.55	38.7	0.78	0.53	0.44	-0.09	0.32	-0.007	0.24	-0.009	0.32
C492040	2.44	0.97	25.0	0.96	13.4	0.85	47.7	0.93	-0.36	0.77	-0.13	0.58	-0.018	0.51	-0.019	0.55
C494340	1.85	0.89	17.3	0.85	8.8	0.56	31.8	0.79	-0.78	0.50	-0.14	0.32	-0.014	0.25	-0.077	0.33
C512614	0.05	0.91	18.0	0.90	8.8	0.64	42.8	0.87	0.74	0.70	-0.02	0.29	-0.002	0.23	-0.033	0.32
C537489	1.16	0.85	21.2	0.83	11.5	0.48	42.1	0.58	0.20	0.43	-0.18	0.35	-0.007	0.28	-0.062	0.34
C548659	0.27	0.89	13.5	0.90	4.7	0.77	31.3	0.75	-0.12	0.63	-0.26	0.66	-0.008	0.61	-0.644	0.63
C566774	1.12	0.64	7.8	0.86	11.7	0.64	24.5	0.57	-0.21	0.46	-0.22	0.48	-0.003	0.42	-0.431	0.46
C705379	-0.13	0.84	34.4	0.80	11.3	0.50	58.3	0.62	0.25	0.45	0.19	0.51	0.013	0.43	0.123	0.47
C527633	0.48	0.54	2.5	0.79	17.0	0.54	20.5	0.53	0.04	0.44	-0.44	0.43	-0.010	0.38	-0.601	0.42
C529759	1.13	0.95	16.5	0.94	8.0	0.82	43.0	0.90	0.12	0.84	-0.21	0.80	-0.007	0.76	-0.692	0.77
C547097	1.20	0.80	41.8	0.88	9.2	0.64	69.1	0.84	0.29	0.66	-0.04	0.35	-0.006	0.28	0.097	0.35
C548932	1.43	0.65	11.8	0.75	13.6	0.63	30.4	0.53	-0.73	0.44	-0.13	0.46	-0.014	0.39	0.291	0.43
C581666	3.36	0.86	34.1	0.88	13.1	0.66	64.3	0.73	0.18	0.57	-0.19	0.51	-0.008	0.45	0.118	0.49
C577841	4.91	0.96	28.4	0.96	9.5	0.85	55.9	0.87	0.43	0.81	-0.17	0.82	-0.013	0.77	0.018	0.80
C587901	-0.56	0.95	23.3	0.95	13.7	0.79	48.3	0.93	0.72	0.87	-0.10	0.45	-0.006	0.39	0.075	0.45
C587916	4.68	0.92	36.9	0.94	7.6	0.76	76.4	0.93	0.66	0.83	-0.09	0.35	-0.006	0.28	0.075	0.36
C609842	2.38	0.96	16.3	0.96	11.5	0.84	35.6	0.83	-0.23	0.70	-0.27	0.74	-0.010	0.67	-0.081	0.70
C615141	2.11	0.78	17.6	0.87	8.2	0.64	34.6	0.65	0.62	0.60	-0.04	0.57	-0.017	0.50	-0.020	0.53
C617102	1.87	0.70	19.9	0.68	10.9	0.57	40.8	0.62	-0.14	0.51	-0.25	0.42	-0.011	0.36	-0.106	0.40
C615710	1.95	0.98	22.4	0.97	9.4	0.89	49.6	0.95	0.32	0.91	-0.30	0.88	-0.012	0.84	-0.997	0.85
C617557	1.72	0.98	15.3	0.98	5.8	0.91	21.5	0.92	-0.16	0.86	-0.12	0.93	-0.015	0.91	-0.728	0.91
C631430	2.27	0.96	11.7	0.95	4.2	0.79	24.6	0.78	0.03	0.65	-0.02	0.69	-0.020	0.65	-0.682	0.67
C632471	1.73	0.58	25.5	0.79	12.6	0.38	58.9	0.53	0.22	0.42	-0.23	0.39	-0.008	0.34	-0.087	0.38
C658202	-0.34	0.82	17.1	0.76	10.3	0.48	32.8	0.58	0.26	0.45	-0.27	0.41	-0.020	0.36	-0.530	0.39
C686933	1.76	0.80	44.8	0.96	14.2	0.85	71.8	0.86	1.26	0.73	-0.31	0.89	-0.017	0.86	-0.311	0.86
C692514	1.99	0.62	13.9	0.89	7.1	0.79	26.5	0.84	-0.17	0.62	-0.14	0.47	-0.015	0.42	-0.586	0.46
C705841	-1.80	0.96	12.0	0.95	7.7	0.85	33.7	0.88	0.22	0.80	0.00	0.79	-0.001	0.74	-0.300	0.76
C638483	-0.77	0.86	29.3	0.83	6.9	0.57	50.4	0.63	0.74	0.52	-0.35	0.85	-0.013	0.81	0.051	0.81
C654949	0.97	0.85	9.1	0.87	4.8	0.61	27.0	0.69	0.37	0.56	-0.17	0.76	-0.020	0.70	-0.777	0.71
C704457	0.26	0.53	25.5	0.86	1.1	0.61	52.0	0.61	0.29	0.50	-0.13	0.35	-0.004	0.29	-0.344	0.35
C706197	0.76	0.98	17.3	0.97	8.8	0.86	40.0	0.93	-0.10	0.88	-0.01	0.91	-0.001	0.89	-0.654	0.89

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C708643	1.34	0.65	34.2	0.76	7.3	0.54	62.7	0.66	0.74	0.49	-0.36	0.43	-0.019	0.37	-0.375	0.41
C714591	0.85	0.90	27.9	0.93	13.9	0.77	54.6	0.90	0.14	0.87	0.11	0.79	0.002	0.73	0.064	0.75
C735169	0.93	0.88	30.9	0.83	7.8	0.29	52.2	0.56	0.44	0.43	-0.12	0.32	-0.010	0.25	-0.207	0.31
C735644	0.77	0.93	17.6	0.92	10.3	0.76	38.0	0.82	0.24	0.74	-0.26	0.72	-0.018	0.68	-0.152	0.69
C729339	1.06	0.91	4.6	0.88	13.2	0.63	19.7	0.73	-0.17	0.66	-0.05	0.57	0.022	0.49	-0.544	0.53
C734274	2.80	0.45	27.7	0.81	9.0	0.54	47.6	0.70	-0.62	0.68	-0.16	0.34	-0.006	0.27	-0.070	0.33
C754134	0.91	0.84	33.5	0.90	15.6	0.72	54.6	0.89	-0.21	0.84	0.02	0.71	0.005	0.67	-0.035	0.69
C760108	1.91	0.82	19.0	0.83	16.7	0.50	42.8	0.69	0.43	0.59	-0.06	0.61	-0.005	0.53	-0.222	0.54
C744485	3.27	0.58	30.5	0.91	4.6	0.77	58.8	0.69	0.40	0.69	-0.24	0.45	-0.011	0.39	-0.719	0.44
C769942	0.75	0.84	22.8	0.85	7.9	0.47	35.9	0.61	1.11	0.52	-0.25	0.58	-0.019	0.51	-0.069	0.54
C775905	1.57	0.94	33.3	0.93	21.4	0.81	69.7	0.88	0.51	0.76	-0.11	0.90	-0.011	0.87	-0.146	0.87
C776942	0.48	0.72	38.4	0.93	8.8	0.69	77.9	0.79	1.03	0.64	-0.42	0.85	-0.017	0.81	-0.307	0.82
C786332	-2.54	0.85	8.2	0.82	10.1	0.52	33.4	0.70	0.11	0.57	-0.46	0.76	-0.011	0.70	-0.152	0.71
C788172	-0.28	0.88	12.3	0.88	9.9	0.61	29.9	0.78	0.61	0.72	-0.12	0.56	-0.004	0.49	-0.037	0.53
C791791	1.41	0.86	4.3	0.74	11.8	0.48	22.1	0.53	-0.59	0.43	-0.23	0.47	-0.015	0.40	-0.340	0.43
C793242	1.97	0.96	9.3	0.95	-1.3	0.77	22.0	0.78	-0.33	0.63	0.03	0.84	-0.007	0.79	-0.720	0.80
C781749	1.72	0.91	25.7	0.91	6.5	0.56	55.5	0.85	0.67	0.75	-0.06	0.64	0.003	0.57	-0.338	0.60
C787235	3.96	0.88	48.4	0.84	10.4	0.40	85.7	0.75	0.76	0.66	-0.06	0.36	-0.010	0.29	0.211	0.36
C798779	-3.51	0.96	22.2	0.95	11.2	0.81	52.6	0.90	0.36	0.79	-0.21	0.86	-0.011	0.82	0.030	0.83
C809701	2.93	0.89	17.1	0.87	8.7	0.60	39.3	0.77	0.15	0.71	-0.28	0.66	-0.027	0.61	-0.514	0.63
C811336	1.97	0.93	37.6	0.91	12.5	0.78	67.6	0.80	0.69	0.78	-0.15	0.73	-0.010	0.68	-0.045	0.70
C811785	2.89	0.87	18.9	0.81	4.6	0.52	31.6	0.70	-0.31	0.61	-0.08	0.64	-0.008	0.59	-0.424	0.61
C814074	2.15	0.76	29.0	0.82	9.0	0.63	54.2	0.71	-0.19	0.61	0.00	0.64	-0.015	0.57	0.133	0.59
C819738	2.91	0.70	23.4	0.77	14.6	0.46	42.6	0.62	0.03	0.47	-0.23	0.46	-0.010	0.41	-0.499	0.44
C809697	1.86	0.90	19.5	0.87	4.6	0.54	32.4	0.66	0.05	0.51	-0.33	0.63	-0.020	0.57	-0.486	0.59
C817059	2.17	0.98	15.6	0.98	9.5	0.90	25.9	0.93	-0.09	0.90	-0.10	0.93	-0.003	0.91	-0.223	0.92
C821734	2.27	0.93	32.0	0.94	19.1	0.76	55.6	0.79	1.06	0.75	-0.22	0.90	-0.015	0.88	-0.723	0.88
C821966	2.23	0.85	28.5	0.81	16.6	0.41	54.0	0.54	0.53	0.41	-0.32	0.61	-0.008	0.53	-0.490	0.56
C822447	2.27	0.78	31.2	0.88	9.7	0.60	61.6	0.70	0.78	0.61	-0.30	0.75	-0.005	0.69	0.063	0.70
C823650	1.20	0.88	32.4	0.90	10.4	0.70	47.5	0.59	0.67	0.43	0.01	0.70	-0.016	0.63	-0.655	0.66
C831472	2.34	0.87	38.0	0.91	11.8	0.71	62.3	0.90	0.94	0.86	-0.14	0.87	0.000	0.83	0.182	0.85
C834456	-0.87	0.90	30.9	0.89	11.7	0.60	52.2	0.80	0.54	0.76	0.15	0.74	-0.004	0.69	-0.106	0.70
C834516	-0.35	0.76	25.6	0.90	14.0	0.55	45.1	0.66	0.86	0.58	0.19	0.74	-0.009	0.65	0.221	0.69
C839108	1.56	0.70	20.1	0.87	11.5	0.61	39.1	0.76	0.22	0.55	-0.10	0.63	-0.010	0.56	-0.307	0.59
C839906	-0.52	0.90	12.8	0.86	13.2	0.64	20.5	0.69	-0.13	0.54	-0.20	0.57	-0.019	0.50	-0.382	0.53
C837437	3.38	0.91	16.4	0.89	9.4	0.64	29.0	0.76	-0.19	0.68	-0.36	0.66	-0.019	0.61	-0.414	0.63
C841270	-1.68	0.96	23.2	0.94	7.8	0.75	54.0	0.85	0.11	0.73	0.02	0.88	-0.008	0.84	0.100	0.85
C844013	-0.17	0.69	15.8	0.65	10.3	0.44	39.7	0.55	0.10	0.49	0.01	0.50	0.009	0.45	-0.251	0.47
C844030	2.34	0.95	20.1	0.95	7.0	0.71	44.7	0.91	0.02	0.82	0.02	0.77	0.008	0.72	-0.774	0.74
C844442	0.45	0.88	13.9	0.85	11.8	0.46	21.3	0.77	-0.48	0.67	-0.18	0.47	-0.005	0.40	-0.409	0.45
C849237	1.69	0.80	22.3	0.67	9.8	0.37	42.4	0.61	0.14	0.48	-0.20	0.40	-0.011	0.35	0.043	0.39
C849926	0.59	0.89	29.8	0.93	13.5	0.73	60.4	0.92	-0.72	0.89	0.06	0.91	0.002	0.88	0.152	0.89
C853281	-0.01	0.63	16.3	0.66	15.2	0.50	36.5	0.45	-0.29	0.35	0.12	0.50	-0.002	0.42	0.226	0.45

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C857153	1.73	0.97	17.6	0.96	8.0	0.80	35.4	0.91	0.01	0.84	-0.13	0.93	-0.006	0.91	-0.414	0.91
C857394	1.45	0.92	33.5	0.93	6.4	0.79	50.5	0.87	0.56	0.80	0.15	0.89	0.001	0.86	0.191	0.87
C877795	-0.46	0.89	21.4	0.85	8.9	0.33	45.1	0.77	-0.71	0.64	-0.03	0.45	-0.005	0.37	0.247	0.42
C856834	1.59	0.89	13.7	0.87	11.4	0.52	32.2	0.59	-0.27	0.45	-0.22	0.75	-0.012	0.69	0.030	0.71
C861819	-1.01	0.90	21.2	0.91	9.0	0.67	41.6	0.89	-0.05	0.86	0.11	0.86	0.002	0.82	-0.270	0.83
C862414	0.60	0.47	24.6	0.87	12.6	0.44	41.6	0.68	0.44	0.58	-0.43	0.70	-0.013	0.64	-0.175	0.65
C863323	2.86	0.87	15.4	0.84	10.4	0.43	39.9	0.77	-0.17	0.50	-0.20	0.43	-0.017	0.38	-0.096	0.43
C866617	1.54	0.54	22.1	0.62	9.3	0.35	48.4	0.58	0.06	0.38	-0.03	0.44	-0.005	0.37	0.054	0.41
C867835	-0.63	0.98	7.0	0.97	8.7	0.89	28.9	0.92	0.01	0.83	0.36	0.94	-0.001	0.93	-0.101	0.93
C871306	0.86	0.72	13.7	0.87	2.6	0.61	36.3	0.58	0.00	0.48	-0.18	0.47	-0.014	0.42	-0.076	0.45
C872425	-1.59	0.83	19.3	0.83	13.8	0.48	39.2	0.81	-0.18	0.74	0.10	0.78	-0.001	0.73	-0.210	0.74
C872784	1.95	0.70	23.4	0.62	10.3	0.34	46.6	0.50	0.13	0.43	-0.15	0.44	-0.007	0.39	-0.644	0.42
C874664	1.38	0.62	13.9	0.59	13.4	0.36	35.3	0.48	0.18	0.41	-0.29	0.44	-0.016	0.39	-0.559	0.41
C875097	2.62	0.85	29.0	0.87	7.5	0.54	50.4	0.71	0.77	0.66	0.09	0.66	0.003	0.59	0.361	0.61
C875706	1.27	0.90	12.9	0.85	2.8	0.46	32.4	0.79	-0.20	0.67	-0.15	0.30	-0.008	0.24	-0.410	0.32
C881173	2.71	0.94	34.2	0.92	8.8	0.73	59.3	0.77	1.05	0.68	-0.37	0.83	-0.017	0.78	0.091	0.80
C893778	-3.43	0.95	72.0	0.93	3.7	0.75	113.6	0.90	2.59	0.86	0.08	0.93	-0.016	0.90	0.379	0.91
C874651	1.20	0.68	10.5	0.75	9.3	0.43	31.7	0.62	-0.15	0.53	-0.33	0.73	-0.022	0.67	-0.848	0.68
C877323	-0.82	0.88	5.3	0.84	13.8	0.55	29.3	0.60	-0.20	0.50	-0.05	0.79	-0.005	0.73	-0.257	0.74
C880269	0.25	0.78	31.8	0.78	13.1	0.46	58.0	0.67	0.84	0.48	-0.19	0.64	-0.016	0.59	-0.449	0.60
C880752	0.94	0.90	25.6	0.91	0.3	0.66	51.9	0.88	0.22	0.85	0.09	0.88	-0.001	0.84	-0.101	0.85
C881599	-0.21	0.86	34.2	0.89	7.9	0.71	54.5	0.79	1.08	0.74	-0.26	0.83	-0.014	0.78	0.108	0.80
C883222	3.13	0.98	23.8	0.98	-0.3	0.80	47.5	0.87	0.20	0.86	0.14	0.97	-0.005	0.96	-0.489	0.96
C889892	-3.55	0.89	28.2	0.87	10.8	0.46	53.6	0.74	0.67	0.52	0.04	0.85	0.003	0.81	0.225	0.82
C891352	-0.29	0.70	14.4	0.70	10.1	0.47	34.8	0.53	0.22	0.43	0.08	0.60	-0.004	0.53	-0.134	0.56
C892444	1.80	0.97	37.8	0.96	14.0	0.80	56.1	0.91	0.76	0.84	-0.10	0.95	-0.010	0.93	0.436	0.94
C895277	1.12	0.88	25.0	0.87	6.7	0.49	43.3	0.84	0.41	0.80	0.02	0.87	0.001	0.82	0.214	0.83
C895346	0.51	0.84	22.4	0.83	15.8	0.52	46.8	0.74	0.72	0.64	-0.02	0.62	-0.001	0.56	0.079	0.58
C896591	0.65	0.59	9.5	0.57	7.7	0.36	23.6	0.49	-0.25	0.43	-0.06	0.48	-0.007	0.43	-0.599	0.45
C898727	2.08	0.95	17.7	0.94	10.7	0.72	31.9	0.81	-0.28	0.71	-0.12	0.94	0.010	0.91	0.069	0.92
C902554	1.06	0.82	8.6	0.81	11.8	0.63	35.8	0.66	-0.34	0.47	-0.01	0.75	-0.012	0.70	-0.141	0.71
C888745	1.95	0.89	20.1	0.89	9.0	0.53	31.0	0.75	0.00	0.68	-0.10	0.80	-0.020	0.74	-0.218	0.76
C890344	0.20	0.91	20.8	0.90	11.5	0.63	36.7	0.80	0.15	0.65	-0.24	0.85	0.001	0.81	-0.178	0.82
C891900	-2.00	0.91	21.9	0.81	11.3	0.36	56.3	0.75	-0.09	0.69	-0.22	0.38	-0.021	0.31	-0.176	0.37
C895886	2.06	0.60	18.1	0.53	13.6	0.36	42.8	0.49	0.26	0.42	-0.38	0.48	-0.007	0.42	-0.663	0.45
C896585	0.42	0.62	14.3	0.60	12.9	0.37	39.1	0.49	0.26	0.43	-0.41	0.46	-0.011	0.41	-0.526	0.43
C898770	-0.70	0.36	11.6	0.37	4.1	0.17	26.6	0.33	-0.15	0.29	-0.07	0.27	-0.006	0.20	-0.491	0.23
C899227	1.65	0.83	53.5	0.82	6.4	0.54	80.7	0.70	1.74	0.60	-0.13	0.69	-0.008	0.61	0.305	0.65
C900580	1.96	0.87	22.3	0.85	9.4	0.47	60.3	0.80	0.12	0.73	-0.39	0.44	-0.012	0.39	-0.556	0.43
C901889	-3.71	0.92	70.8	0.90	9.1	0.49	117.5	0.81	1.73	0.76	-0.02	0.86	-0.003	0.81	-0.515	0.83
C902794	-2.10	0.75	15.8	0.73	10.7	0.26	36.5	0.61	0.04	0.58	0.44	0.68	0.016	0.61	0.727	0.63
C904653	0.95	0.72	12.6	0.64	10.1	0.27	30.5	0.45	-0.19	0.33	-0.14	0.41	-0.012	0.35	-0.204	0.38
C910268	2.80	0.39	23.7	0.45	12.3	0.31	42.1	0.40	0.21	0.32	-0.22	0.45	-0.013	0.38	-0.481	0.40

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C911186	-0.47	0.82	-1.3	0.80	9.2	0.44	17.0	0.61	-0.38	0.44	-0.04	0.71	-0.006	0.65	-0.638	0.66
C914302	0.90	0.59	16.2	0.59	11.3	0.50	31.1	0.54	0.21	0.48	-0.09	0.53	0.000	0.49	-0.319	0.50
C914673	3.76	0.81	45.4	0.82	9.3	0.44	74.9	0.81	0.70	0.77	-0.05	0.79	-0.004	0.71	-0.152	0.75
C915230	1.55	0.74	32.8	0.74	9.3	0.46	56.5	0.54	0.81	0.55	0.01	0.74	-0.027	0.68	-0.533	0.69
C919119	0.81	0.79	29.7	0.77	5.7	0.44	48.8	0.56	0.39	0.48	0.22	0.68	0.009	0.62	0.111	0.63
C919125	2.07	0.94	37.6	0.94	13.3	0.75	64.2	0.83	0.71	0.82	0.15	0.92	-0.004	0.89	0.447	0.90
C924173	0.04	0.83	25.9	0.78	7.6	0.35	47.6	0.73	0.92	0.53	0.30	0.77	0.001	0.71	0.057	0.72
C916440	-1.08	0.58	8.1	0.90	16.2	0.67	28.1	0.67	0.32	0.62	0.31	0.71	-0.009	0.63	0.021	0.67
C916826	1.38	0.87	14.2	0.84	6.9	0.58	39.8	0.68	-0.02	0.48	-0.07	0.76	-0.005	0.70	-0.393	0.71
C921700	1.49	0.67	19.3	0.86	7.3	0.56	35.1	0.56	0.03	0.47	-0.27	0.58	-0.008	0.53	-0.262	0.55
C926055	0.88	0.77	20.2	0.75	12.1	0.41	41.9	0.51	0.33	0.42	-0.46	0.73	-0.011	0.66	-0.363	0.67
C927553	0.17	0.80	29.2	0.72	2.8	0.39	51.5	0.56	0.38	0.52	0.01	0.59	-0.005	0.54	0.281	0.56
C927933	2.80	0.75	25.1	0.72	12.7	0.45	46.9	0.55	0.54	0.48	-0.25	0.66	-0.010	0.59	-0.384	0.61
C928548	-0.10	0.86	18.7	0.86	1.6	0.42	39.4	0.85	0.30	0.80	0.01	0.87	-0.002	0.78	0.080	0.83
C928687	1.53	0.40	20.5	0.45	9.6	0.27	42.0	0.39	0.13	0.35	-0.12	0.40	0.005	0.34	-0.587	0.36
C930973	1.68	0.56	15.4	0.60	10.1	0.45	30.8	0.58	0.07	0.48	-0.15	0.52	0.000	0.48	-0.439	0.50
C933042	0.83	0.53	11.6	0.60	11.0	0.38	27.0	0.58	0.09	0.48	-0.14	0.52	0.001	0.48	-0.319	0.50
C937809	0.98	0.80	14.7	0.76	13.7	0.46	42.8	0.55	0.19	0.45	-0.21	0.73	-0.001	0.67	-0.377	0.68
C942010	0.37	0.90	28.7	0.87	8.5	0.65	49.6	0.69	0.72	0.59	0.06	0.83	-0.004	0.78	-0.084	0.79
F42944	0.37	0.27	24.8	0.40	12.0	0.09	48.6	0.28	0.47	0.24	-0.36	0.27	-0.009	0.20	-0.173	0.23
C927018	-0.34	0.75	11.4	0.57	7.6	0.32	27.5	0.48	0.08	0.41	0.18	0.51	-0.006	0.45	-0.406	0.47
C928728	1.47	0.66	11.1	0.59	8.0	0.39	25.2	0.51	-0.27	0.42	-0.04	0.51	0.005	0.45	-0.377	0.47
C930525	1.71	0.84	21.9	0.82	8.0	0.45	40.3	0.63	0.20	0.54	-0.07	0.82	0.019	0.77	0.244	0.78
C932331	1.43	0.73	13.5	0.70	6.9	0.45	34.9	0.61	-0.03	0.49	-0.27	0.54	-0.011	0.48	-0.591	0.51
C932975	2.37	0.77	16.3	0.67	8.9	0.39	29.4	0.56	-0.19	0.47	-0.18	0.61	-0.015	0.55	-0.258	0.57
C938602	-0.74	0.86	14.7	0.84	8.4	0.40	34.9	0.57	0.19	0.67	-0.12	0.88	-0.014	0.85	-0.005	0.86
C940465	2.30	0.96	32.8	0.94	5.7	0.59	60.7	0.81	0.89	0.75	-0.03	0.93	0.014	0.90	0.010	0.91
C940586	0.41	0.66	32.5	0.64	3.7	0.39	62.1	0.55	0.74	0.48	-0.03	0.56	-0.002	0.50	-0.732	0.52
C944935	1.38	0.70	23.1	0.65	12.9	0.41	48.9	0.58	0.34	0.42	-0.14	0.67	-0.015	0.60	-0.137	0.62
C945131	1.67	0.65	19.3	0.63	15.0	0.51	39.4	0.52	0.27	0.42	-0.40	0.59	-0.017	0.52	-0.167	0.54
C947207	1.59	0.82	22.6	0.76	12.8	0.43	46.5	0.55	0.19	0.44	-0.19	0.61	-0.006	0.55	-0.456	0.57
C947413	2.45	0.94	32.2	0.92	9.3	0.52	59.4	0.88	0.40	0.78	0.00	0.81	0.024	0.76	-0.520	0.77
C948321	0.72	0.56	30.6	0.54	11.2	0.37	56.0	0.39	0.68	0.35	0.05	0.33	-0.002	0.26	0.117	0.29
C948507	1.10	0.53	16.4	0.54	8.2	0.40	35.1	0.51	0.15	0.47	-0.03	0.52	-0.003	0.48	-0.350	0.49
C948597	3.64	0.66	8.9	0.67	10.0	0.39	27.6	0.51	-0.26	0.43	-0.19	0.64	-0.012	0.57	-0.390	0.59
C953094	3.20	0.93	34.1	0.90	3.1	0.40	55.3	0.69	1.25	0.62	-0.26	0.90	-0.020	0.86	-0.284	0.87
C939567	0.58	0.57	21.8	0.51	8.8	0.36	42.8	0.46	0.11	0.40	-0.08	0.42	-0.001	0.38	-0.345	0.40
C941847	0.75	0.83	47.2	0.93	5.0	0.60	74.9	0.84	1.44	0.67	-0.15	0.81	-0.012	0.76	0.218	0.77
C948930	1.57	0.80	18.4	0.79	11.0	0.33	33.2	0.56	0.57	0.51	0.27	0.71	-0.002	0.65	-0.305	0.66
C950757	0.01	0.86	26.2	0.83	7.8	0.35	47.6	0.65	0.87	0.51	0.09	0.78	0.004	0.72	0.199	0.74
C951166	-3.94	0.94	36.0	0.92	8.1	0.58	63.2	0.73	1.29	0.81	-0.15	0.92	-0.034	0.90	-0.180	0.90
C951711	-1.83	0.60	26.0	0.57	13.0	0.40	46.1	0.41	1.03	0.34	-0.02	0.42	-0.008	0.35	0.006	0.37
C951715	0.64	0.93	19.7	0.92	11.2	0.55	46.1	0.74	0.42	0.76	-0.28	0.89	-0.007	0.86	0.275	0.87

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C951724	-0.27	0.62	28.2	0.59	11.4	0.45	52.2	0.45	0.71	0.41	-0.28	0.42	-0.009	0.35	0.193	0.38
C951914	1.15	0.65	26.4	0.65	14.1	0.37	51.3	0.51	0.43	0.47	-0.13	0.57	-0.013	0.51	-0.501	0.53
C954335	-0.04	0.76	33.4	0.79	12.1	0.27	65.1	0.76	0.44	0.63	0.06	0.73	0.014	0.64	0.492	0.68
C954343	0.90	0.80	22.4	0.78	13.8	0.30	44.7	0.77	-0.70	0.77	0.17	0.79	-0.002	0.65	0.012	0.74
C955208	-1.86	0.94	64.2	0.92	11.9	0.52	93.1	0.83	1.50	0.76	0.18	0.90	-0.003	0.87	0.216	0.88
C955655	0.40	0.96	19.5	0.95	6.3	0.41	38.2	0.76	0.01	0.62	0.01	0.93	-0.011	0.91	-0.505	0.91
C960174	1.53	0.89	27.4	0.88	4.2	0.53	47.1	0.70	0.02	0.61	-0.16	0.85	-0.013	0.81	-0.335	0.82
C960675	-1.88	0.61	49.7	0.56	10.6	0.31	83.5	0.53	1.03	0.41	-0.23	0.55	-0.005	0.48	-0.294	0.50
C961701	1.78	0.62	32.9	0.60	15.4	0.47	55.5	0.48	0.39	0.38	-0.16	0.32	-0.012	0.25	0.156	0.29
C962016	1.92	0.57	17.4	0.60	12.6	0.32	36.1	0.47	0.18	0.41	-0.34	0.44	-0.014	0.39	-0.591	0.41
C962394	2.06	0.64	26.5	0.61	8.8	0.32	46.3	0.48	0.26	0.42	-0.26	0.45	-0.016	0.39	-0.892	0.42
C962594	3.24	0.52	23.2	0.55	10.1	0.37	41.4	0.47	-0.12	0.38	-0.23	0.47	-0.004	0.42	-0.055	0.44
C962595	-2.39	0.67	15.5	0.64	13.3	0.40	40.1	0.51	0.11	0.42	-0.14	0.57	-0.002	0.52	-0.526	0.53
C967715	1.91	0.69	12.7	0.65	11.9	0.40	36.8	0.51	0.27	0.52	-0.58	0.65	-0.022	0.57	-0.539	0.60
C968864	-1.08	0.73	23.5	0.74	13.0	0.23	46.1	0.49	0.94	0.52	0.09	0.71	-0.005	0.64	0.146	0.66
C957225	0.35	0.71	19.8	0.64	7.6	0.33	38.1	0.52	0.22	0.44	-0.01	0.66	-0.008	0.59	-0.142	0.61
C963878	0.85	0.86	21.8	0.82	12.6	0.34	45.3	0.64	0.34	0.63	0.19	0.76	-0.008	0.70	0.306	0.71
C965778	1.72	0.91	21.2	0.87	7.2	0.44	51.4	0.73	0.13	0.59	0.10	0.82	0.001	0.77	-0.745	0.78
C967502	1.57	0.69	16.3	0.69	5.6	0.41	31.4	0.57	-0.14	0.47	-0.09	0.55	-0.010	0.48	-0.469	0.51
C968247	1.08	0.82	17.9	0.77	11.0	0.32	35.4	0.54	0.18	0.45	-0.15	0.52	0.000	0.48	0.200	0.50
C968248	1.40	0.93	26.6	0.87	10.0	0.39	44.4	0.69	-0.01	0.68	-0.17	0.87	-0.004	0.83	0.273	0.84
C968599	0.25	0.67	19.9	0.66	6.0	0.42	41.3	0.60	0.23	0.46	-0.14	0.56	0.000	0.50	-0.491	0.52
C970050	1.44	0.61	31.7	0.54	10.5	0.29	53.5	0.46	0.33	0.40	-0.26	0.56	-0.001	0.50	0.212	0.51
C972446	2.58	0.87	48.1	0.86	9.7	0.23	74.9	0.57	1.01	0.44	-0.54	0.83	-0.014	0.78	-0.030	0.79
C974019	2.12	0.86	30.4	0.84	12.0	0.29	50.7	0.55	0.76	0.60	-0.17	0.88	-0.007	0.85	0.244	0.85
C974855	1.05	0.50	23.9	0.50	13.7	0.33	43.2	0.46	0.22	0.41	-0.03	0.45	-0.009	0.41	-0.044	0.43
C977067	2.58	0.50	16.3	0.57	5.7	0.38	36.2	0.48	0.01	0.41	-0.34	0.43	-0.012	0.38	-0.498	0.41
C977259	2.25	0.74	28.8	0.63	11.1	0.32	45.3	0.60	0.21	0.53	-0.10	0.53	-0.007	0.40	0.281	0.49
C977955	1.37	0.67	20.7	0.64	15.4	0.39	38.8	0.52	0.31	0.43	-0.24	0.52	-0.013	0.46	-0.365	0.48
C978528	-0.94	0.79	21.3	0.75	9.1	0.40	37.6	0.56	0.29	0.48	-0.08	0.70	0.002	0.63	-0.124	0.65
C978529	1.10	0.68	23.9	0.60	10.3	0.39	42.4	0.49	0.26	0.41	-0.29	0.63	-0.005	0.57	-0.009	0.59
C978534	0.25	0.63	22.4	0.60	7.5	0.41	39.8	0.49	0.29	0.41	-0.25	0.63	0.003	0.57	0.048	0.58
C981924	0.89	0.82	34.2	0.80	7.0	0.28	52.0	0.69	1.09	0.63	-0.03	0.77	0.002	0.70	0.180	0.72
C982445	2.26	0.53	21.1	0.52	11.8	0.31	42.2	0.45	0.16	0.39	-0.25	0.46	-0.007	0.41	-0.432	0.43
C985363	1.81	0.66	37.7	0.63	14.8	0.38	59.1	0.49	0.98	0.43	-0.17	0.59	-0.010	0.53	-0.617	0.55
C1043594	-0.12	0.38	32.3	0.46	13.0	0.14	56.3	0.40	0.79	0.38	-0.03	0.35	-0.003	0.29	0.072	0.32
C977252	1.87	0.92	26.4	0.90	4.6	0.37	55.4	0.69	0.53	0.63	0.05	0.87	0.003	0.83	-0.570	0.84
C977453	1.79	0.34	20.0	0.33	11.3	0.15	39.5	0.30	0.17	0.27	-0.24	0.31	-0.010	0.24	-0.293	0.26
C978538	1.15	0.60	13.1	0.57	2.0	0.38	30.5	0.49	-0.30	0.43	-0.32	0.57	-0.022	0.50	-0.496	0.52
C978568	2.22	0.88	21.3	0.84	10.5	0.24	49.1	0.75	0.15	0.53	0.00	0.83	-0.009	0.78	-0.251	0.79
C979238	0.34	0.56	16.2	0.54	9.2	0.30	29.7	0.47	-0.12	0.40	-0.05	0.47	0.004	0.42	-0.188	0.44
C980748	0.18	0.36	11.7	0.41	8.0	0.26	29.6	0.37	0.00	0.32	-0.11	0.34	-0.009	0.28	-0.462	0.31
C981108	0.81	0.46	21.1	0.42	9.6	0.17	47.7	0.32	0.16	0.26	-0.01	0.28	-0.007	0.22	-0.018	0.25

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C982288	-0.08	0.63	24.3	0.59	9.5	0.39	41.5	0.49	0.33	0.41	-0.30	0.64	-0.008	0.58	0.126	0.59
C982289	0.65	0.63	21.6	0.59	7.6	0.39	38.6	0.49	0.16	0.43	-0.26	0.64	-0.010	0.58	0.029	0.59
C983063	1.47	0.75	37.9	0.73	7.2	0.32	66.0	0.57	0.94	0.53	0.00	0.65	-0.004	0.58	0.104	0.60
C983167	1.52	0.57	11.6	0.54	7.7	0.36	31.7	0.47	-0.04	0.41	-0.23	0.54	-0.011	0.47	-0.566	0.49
C985404	2.34	0.58	16.0	0.54	5.5	0.30	41.3	0.46	0.06	0.41	-0.11	0.44	-0.008	0.40	-0.563	0.42
C985787	-0.95	0.71	36.3	0.67	6.4	0.32	66.0	0.48	1.09	0.40	0.08	0.60	0.005	0.53	0.125	0.55
C985950	-0.33	0.66	55.4	0.65	6.7	0.30	95.2	0.57	1.65	0.54	-0.07	0.63	-0.008	0.56	0.158	0.58
C987386	1.53	0.71	28.1	0.66	10.4	0.24	48.9	0.46	0.52	0.37	-0.14	0.70	0.006	0.63	-0.186	0.64
C988569	0.49	0.77	43.3	0.81	9.5	0.22	60.6	0.77	2.05	0.69	0.25	0.80	0.004	0.69	0.135	0.75
C989984	1.92	0.83	44.9	0.80	5.7	0.22	66.6	0.68	0.81	0.52	0.20	0.78	-0.004	0.71	0.396	0.74
C991208	0.90	0.61	21.6	0.52	7.1	0.28	35.3	0.42	0.10	0.35	-0.26	0.52	-0.015	0.47	0.060	0.48
C991700	1.61	0.48	21.5	0.46	4.6	0.28	40.7	0.42	0.18	0.35	-0.18	0.43	-0.011	0.38	-0.489	0.39
C992673	1.32	0.46	22.9	0.47	10.0	0.30	46.3	0.41	0.35	0.36	-0.17	0.42	-0.012	0.38	-0.305	0.39
C995785	1.72	0.58	18.2	0.57	13.0	0.38	39.5	0.47	0.28	0.41	-0.35	0.54	-0.005	0.48	-0.668	0.50
C997024	1.13	0.68	36.2	0.65	5.4	0.36	65.7	0.56	0.96	0.52	-0.11	0.64	-0.012	0.58	-0.736	0.60
C997109	1.21	0.68	16.1	0.66	7.7	0.36	37.7	0.48	-0.23	0.40	0.27	0.67	0.001	0.61	0.086	0.62
C997349	3.45	0.60	25.7	0.59	7.6	0.35	47.6	0.45	0.05	0.39	-0.04	0.60	-0.009	0.52	0.206	0.54
F43655	0.37	0.30	20.9	0.37	11.4	0.26	36.8	0.31	0.36	0.28	-0.09	0.35	-0.001	0.28	-0.082	0.30
F43657	0.00	0.30	17.9	0.35	5.6	0.22	34.7	0.30	0.21	0.28	-0.04	0.35	0.000	0.28	-0.240	0.30
F43659	0.03	0.31	24.4	0.37	12.9	0.24	42.3	0.34	0.48	0.28	-0.13	0.40	0.001	0.33	-0.095	0.35
C1000562	0.02	0.83	40.1	0.82	13.0	0.26	68.1	0.56	1.18	0.57	-0.06	0.80	-0.013	0.75	0.488	0.76
C1000606	1.84	0.48	17.5	0.48	5.8	0.32	37.9	0.45	-0.02	0.41	-0.25	0.42	-0.014	0.37	-0.844	0.39
C1000635	0.12	0.64	40.2	0.63	6.1	0.37	68.0	0.51	0.80	0.46	-0.16	0.60	-0.013	0.55	-0.565	0.56
C1000918	0.94	0.87	49.4	0.85	12.4	0.25	63.4	0.56	0.90	0.59	0.05	0.86	-0.003	0.82	-0.140	0.83
C1001385	-0.38	0.55	32.0	0.53	8.6	0.22	55.2	0.40	0.91	0.34	-0.23	0.37	-0.014	0.31	0.064	0.34
C1003641	1.51	0.56	16.2	0.56	12.5	0.23	41.5	0.44	0.08	0.35	-0.15	0.45	-0.005	0.39	-0.724	0.41
C1006666	1.11	0.62	19.6	0.58	4.9	0.32	38.0	0.48	0.02	0.41	-0.24	0.54	-0.014	0.48	-0.469	0.50
C1010473	3.82	0.63	24.1	0.60	6.4	0.41	46.9	0.51	0.48	0.46	-0.35	0.51	-0.020	0.46	-0.309	0.48
C1010556	2.30	0.62	11.4	0.62	7.7	0.34	32.5	0.57	-0.29	0.55	0.07	0.64	-0.003	0.57	-0.590	0.59
C1010557	1.07	0.75	42.3	0.73	3.9	0.30	64.1	0.57	0.95	0.55	0.16	0.65	0.005	0.58	-0.471	0.60
C1010559	2.46	0.70	28.5	0.68	7.1	0.34	52.6	0.58	0.11	0.56	-0.22	0.65	-0.010	0.59	-0.259	0.60
C991886	-0.61	0.50	12.0	0.58	13.9	0.36	32.9	0.53	0.23	0.38	-0.28	0.45	-0.014	0.39	-0.475	0.42
C992832	1.17	0.65	25.2	0.62	9.8	0.22	41.4	0.47	0.33	0.40	-0.28	0.64	-0.021	0.58	0.456	0.59
C992850	-0.65	0.87	24.4	0.81	10.5	0.22	38.5	0.54	0.31	0.50	-0.10	0.81	-0.005	0.76	0.393	0.77
C993056	1.08	0.67	33.8	0.54	12.8	0.28	58.7	0.44	0.65	0.38	0.00	0.37	-0.001	0.31	0.083	0.34
C994103	1.81	0.47	19.3	0.47	6.6	0.33	37.0	0.43	-0.14	0.38	-0.19	0.45	0.003	0.40	-0.164	0.41
C994584	-2.28	0.84	37.1	0.82	6.9	0.27	65.4	0.75	0.58	0.66	0.50	0.77	0.019	0.71	0.449	0.72
C995153	0.47	0.69	18.4	0.59	7.6	0.31	31.9	0.49	0.16	0.41	-0.01	0.50	0.000	0.44	-0.603	0.46
C995171	0.30	0.52	21.2	0.42	8.6	0.20	36.5	0.37	0.15	0.32	-0.08	0.37	-0.011	0.31	-0.027	0.33
C995891	1.83	0.61	22.5	0.60	4.9	0.33	47.4	0.57	0.12	0.45	-0.24	0.47	-0.011	0.43	-0.677	0.45
C996016	1.78	0.45	14.8	0.54	8.7	0.37	33.8	0.45	-0.04	0.40	-0.17	0.40	-0.011	0.34	-0.613	0.37
C996427	-1.14	0.88	40.0	0.83	10.4	0.29	58.7	0.57	0.94	0.48	0.23	0.80	0.005	0.74	-0.135	0.75
C997063	2.04	0.55	25.0	0.52	6.8	0.20	47.9	0.41	0.55	0.36	0.14	0.42	0.001	0.36	-0.570	0.39

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C997068	1.58	0.68	21.5	0.65	12.7	0.20	45.7	0.41	0.24	0.31	-0.14	0.68	-0.011	0.60	0.380	0.61
C997335	1.59	0.59	8.5	0.57	4.9	0.35	26.8	0.47	-0.19	0.41	-0.09	0.46	-0.012	0.41	-0.481	0.43
C997339	2.03	0.65	22.5	0.62	7.0	0.33	52.4	0.52	0.29	0.42	-0.01	0.58	0.008	0.53	-0.244	0.54
C997363	0.17	0.64	14.0	0.62	15.2	0.31	37.1	0.47	0.08	0.39	-0.08	0.58	0.004	0.51	-0.789	0.53
C997468	0.43	0.58	17.1	0.56	10.1	0.23	37.8	0.42	0.28	0.33	-0.43	0.56	-0.019	0.47	-0.023	0.49
C997780	1.79	0.73	13.2	0.70	8.4	0.19	33.6	0.45	0.07	0.34	-0.22	0.71	-0.010	0.64	-0.237	0.65
C997805	1.87	0.62	25.3	0.60	7.0	0.38	44.5	0.50	0.25	0.43	-0.03	0.59	0.016	0.53	-0.077	0.55
C1000244	2.56	0.63	27.0	0.56	4.8	0.23	45.0	0.44	0.62	0.37	-0.10	0.56	-0.007	0.50	-0.280	0.51
C1002667	-0.07	0.70	36.0	0.65	8.3	0.21	56.9	0.46	0.98	0.39	0.01	0.71	0.023	0.65	0.488	0.66
C1003654	1.98	0.47	20.2	0.47	6.8	0.21	44.5	0.41	0.09	0.34	0.03	0.43	-0.001	0.38	-0.624	0.39
C1003990	2.44	0.34	19.8	0.35	11.2	0.15	39.1	0.31	0.08	0.28	-0.32	0.31	-0.015	0.25	-0.464	0.27
C1004002	-0.08	0.62	18.2	0.60	7.4	0.41	34.4	0.48	0.11	0.41	-0.23	0.63	0.018	0.57	0.042	0.59
C1004004	1.59	0.61	30.2	0.57	10.5	0.39	47.9	0.48	0.43	0.41	-0.41	0.59	-0.014	0.54	0.105	0.55
C1004151	1.30	0.57	16.8	0.55	2.3	0.32	33.8	0.49	0.06	0.43	0.02	0.47	-0.005	0.43	-0.559	0.45
C1005060	2.70	0.56	29.4	0.47	5.7	0.22	50.3	0.41	0.72	0.36	-0.29	0.46	-0.015	0.42	-0.148	0.43
C1005186	0.12	0.47	39.7	0.46	7.0	0.20	69.8	0.42	0.84	0.38	-0.09	0.44	-0.009	0.39	-0.473	0.41
C1005248	0.42	0.43	26.2	0.43	7.7	0.20	44.5	0.39	0.57	0.34	-0.12	0.37	-0.010	0.31	-0.497	0.33
C1006436	-2.22	0.55	22.3	0.58	11.2	0.40	41.2	0.45	0.65	0.36	0.01	0.47	-0.002	0.40	0.192	0.43
C1006483	0.58	0.53	24.3	0.56	5.4	0.34	49.1	0.39	0.59	0.31	0.02	0.43	-0.016	0.35	0.132	0.37
C1006656	1.29	0.51	16.0	0.52	10.4	0.39	34.1	0.46	-0.11	0.41	-0.14	0.49	0.003	0.43	-0.631	0.45
C1007306	1.32	0.59	28.3	0.53	9.9	0.28	55.8	0.45	0.50	0.37	-0.20	0.48	-0.016	0.44	-0.094	0.46
C1009946	1.46	0.70	27.5	0.67	9.6	0.40	51.3	0.62	0.31	0.45	-0.08	0.72	-0.012	0.65	-0.255	0.67
C1009953	1.81	0.64	22.2	0.62	10.6	0.40	48.4	0.57	0.43	0.47	-0.36	0.65	0.003	0.59	-0.433	0.60
C1009956	1.11	0.69	19.2	0.64	7.4	0.24	39.1	0.59	0.32	0.42	0.07	0.67	-0.001	0.61	-0.242	0.62
C1009965	-0.50	0.69	12.2	0.62	5.8	0.26	27.1	0.47	0.39	0.39	-0.24	0.66	-0.013	0.60	-0.283	0.61
C1010450	1.13	0.70	34.2	0.63	10.4	0.19	57.3	0.59	0.83	0.51	-0.13	0.26	-0.008	0.19	0.064	0.26
C1010552	0.94	0.76	31.0	0.74	9.9	0.24	55.2	0.58	0.63	0.52	-0.15	0.76	-0.019	0.70	-0.153	0.71
C1011003	0.42	0.57	30.8	0.54	8.6	0.29	55.1	0.41	0.64	0.34	0.05	0.40	-0.005	0.33	0.264	0.36
C1012021	1.19	0.81	30.4	0.72	5.4	0.25	56.9	0.56	0.74	0.43	0.14	0.72	0.002	0.66	0.201	0.67
C1013450	-1.11	0.43	17.9	0.42	10.9	0.18	32.7	0.37	0.42	0.33	-0.09	0.39	0.003	0.34	0.090	0.35
C1013684	1.75	0.61	29.6	0.60	6.6	0.34	51.8	0.46	0.41	0.45	-0.06	0.65	-0.020	0.58	-0.398	0.59
C1013686	1.63	0.77	29.7	0.69	5.9	0.27	50.5	0.50	-0.08	0.55	-0.10	0.68	-0.029	0.61	-0.421	0.62
C1013701	-1.16	0.57	32.5	0.55	7.6	0.31	57.3	0.43	0.97	0.43	-0.15	0.57	-0.019	0.50	-0.137	0.51
C1013710	-1.07	0.54	27.2	0.55	9.3	0.32	51.1	0.44	0.62	0.38	-0.20	0.58	-0.013	0.51	-0.374	0.53
C1013756	2.62	0.57	27.5	0.56	11.4	0.23	55.1	0.45	0.46	0.38	-0.31	0.54	-0.021	0.48	-0.405	0.49
C1013757	1.01	0.54	23.3	0.52	11.2	0.20	46.2	0.39	0.28	0.33	-0.11	0.35	-0.008	0.29	-0.323	0.32
C1014292	1.76	0.48	30.4	0.49	6.6	0.27	50.7	0.42	0.43	0.39	-0.02	0.48	-0.016	0.43	-0.357	0.44
C1014293	0.02	0.45	19.1	0.44	5.3	0.21	36.5	0.36	0.07	0.31	-0.08	0.43	0.000	0.37	-0.529	0.39
C1014300	-1.22	0.48	31.0	0.48	9.5	0.22	54.8	0.41	0.89	0.38	-0.15	0.48	-0.011	0.43	-0.139	0.45
C1014301	-2.46	0.46	21.8	0.46	5.7	0.25	41.9	0.40	0.55	0.39	-0.05	0.45	-0.019	0.40	-0.344	0.41
C1014302	-2.70	0.46	21.0	0.46	6.3	0.25	41.9	0.40	0.55	0.39	-0.06	0.45	-0.018	0.40	-0.306	0.41
C1014303	-2.08	0.46	22.5	0.46	6.3	0.25	43.2	0.40	0.59	0.39	-0.12	0.45	-0.019	0.40	-0.254	0.41
C1016238	2.32	0.51	20.8	0.46	8.6	0.18	40.6	0.38	-0.05	0.30	-0.19	0.33	-0.007	0.26	-0.247	0.29

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1016709	0.88	0.49	24.2	0.46	10.3	0.27	40.1	0.42	0.42	0.38	-0.21	0.40	-0.017	0.36	-0.080	0.37
C1017610	-1.00	0.54	31.3	0.53	9.3	0.27	58.1	0.42	0.84	0.50	-0.13	0.56	-0.025	0.49	-0.267	0.51
C1017611	-1.80	0.51	29.7	0.52	9.4	0.21	53.1	0.41	1.22	0.48	0.21	0.55	-0.019	0.47	-0.014	0.49
C1017616	-1.00	0.53	27.3	0.53	10.7	0.27	51.7	0.43	1.05	0.48	-0.29	0.54	-0.013	0.47	-0.241	0.49
C1018047	0.76	0.58	6.8	0.56	9.8	0.32	26.0	0.47	-0.19	0.40	-0.26	0.53	-0.011	0.47	-0.647	0.48
C1018128	1.37	0.51	19.0	0.51	7.2	0.30	38.3	0.43	0.18	0.36	-0.15	0.45	-0.006	0.40	-0.660	0.41
C1019742	1.90	0.50	24.0	0.54	5.0	0.26	46.3	0.45	0.32	0.39	-0.08	0.58	0.010	0.51	-0.320	0.53
C1019749	0.89	0.61	26.2	0.56	8.7	0.34	52.6	0.49	0.16	0.43	-0.26	0.59	-0.008	0.53	-0.387	0.54
C1021906	1.54	0.42	21.9	0.45	5.8	0.29	42.2	0.42	-0.02	0.38	-0.22	0.45	-0.012	0.40	-0.439	0.41
C1022062	-0.93	0.75	37.2	0.69	8.2	0.23	64.3	0.49	0.97	0.41	-0.12	0.60	-0.018	0.53	0.137	0.55
C1022814	-1.07	0.57	25.9	0.56	15.9	0.28	46.9	0.45	0.36	0.39	0.01	0.56	-0.007	0.49	-0.500	0.51
C1024275	1.56	0.59	25.4	0.58	9.0	0.30	51.7	0.58	0.15	0.44	-0.01	0.43	0.016	0.38	-0.519	0.41
C1012523	1.37	0.58	47.4	0.56	9.6	0.20	79.5	0.43	1.25	0.37	-0.08	0.61	-0.041	0.54	0.342	0.55
C1013640	-1.63	0.56	14.1	0.54	13.5	0.26	36.1	0.40	0.20	0.34	-0.02	0.56	-0.006	0.48	0.040	0.50
C1014014	0.86	0.56	19.1	0.51	8.5	0.20	35.0	0.43	-0.07	0.38	-0.17	0.55	-0.005	0.48	0.164	0.49
C1015280	2.45	0.42	27.9	0.43	5.1	0.20	46.7	0.39	0.57	0.35	-0.22	0.42	-0.011	0.37	-0.260	0.39
C1017235	1.33	0.45	6.2	0.45	3.8	0.30	18.8	0.42	-0.35	0.36	-0.16	0.41	-0.012	0.36	-0.717	0.38
C1017564	0.95	0.60	21.3	0.57	9.1	0.33	39.2	0.48	0.14	0.41	-0.12	0.61	-0.001	0.55	-0.016	0.56
C1018012	2.48	0.58	31.3	0.47	6.9	0.22	52.8	0.42	0.90	0.36	-0.26	0.46	-0.012	0.42	-0.104	0.43
C1018343	1.10	0.69	17.9	0.60	4.3	0.23	40.4	0.50	-0.08	0.38	-0.14	0.29	-0.009	0.22	-0.433	0.27
C1018773	-1.04	0.62	32.1	0.59	10.5	0.21	50.0	0.46	0.76	0.41	0.03	0.54	0.009	0.49	0.256	0.50
C1018800	0.95	0.61	26.0	0.56	9.0	0.34	45.1	0.48	0.29	0.41	-0.22	0.57	0.002	0.52	0.072	0.53
C1020027	1.16	0.60	35.0	0.61	5.7	0.36	64.6	0.59	0.82	0.48	-0.05	0.62	-0.003	0.56	-0.395	0.57
C1020529	1.59	0.59	32.3	0.56	6.9	0.25	56.7	0.53	0.65	0.41	-0.11	0.46	0.003	0.41	-0.301	0.43
C1020704	2.78	0.80	49.1	0.77	9.0	0.21	71.2	0.52	1.39	0.62	-0.19	0.80	0.017	0.74	0.408	0.75
C1020837	1.71	0.57	29.1	0.54	9.3	0.21	47.3	0.44	0.50	0.42	-0.18	0.49	0.001	0.43	0.208	0.45
C1020938	0.50	0.33	15.3	0.34	9.7	0.15	38.3	0.31	0.02	0.28	-0.08	0.31	0.000	0.24	-0.458	0.27
C1020979	0.89	0.46	20.5	0.44	6.0	0.18	33.5	0.37	0.32	0.31	-0.17	0.44	-0.004	0.39	-0.086	0.40
C1021495	-1.88	0.55	16.6	0.54	10.6	0.26	40.4	0.45	0.42	0.41	-0.01	0.57	-0.035	0.50	-0.230	0.52
C1021532	-1.07	0.79	32.6	0.77	6.9	0.19	61.0	0.58	0.98	0.53	-0.03	0.72	0.000	0.66	0.109	0.67
C1022061	-0.65	0.57	54.7	0.56	14.1	0.26	79.6	0.46	1.28	0.39	0.02	0.52	-0.001	0.45	0.269	0.47
C1022363	1.78	0.79	41.4	0.81	12.4	0.23	67.7	0.55	0.89	0.51	0.19	0.64	0.000	0.57	0.277	0.59
C1022471	-0.11	0.76	37.1	0.76	6.3	0.26	64.1	0.47	0.86	0.35	-0.17	0.67	0.000	0.60	0.189	0.62
C1023293	0.89	0.53	15.1	0.50	10.4	0.19	35.8	0.39	0.17	0.33	-0.14	0.40	-0.003	0.33	-0.168	0.36
C1024354	1.79	0.46	31.9	0.47	7.9	0.25	57.1	0.44	0.80	0.39	-0.08	0.46	0.010	0.42	0.189	0.43
C1024697	1.76	0.52	24.3	0.45	7.6	0.20	47.8	0.42	0.39	0.38	-0.28	0.41	-0.016	0.37	-0.188	0.38
C1025642	1.05	0.63	56.2	0.59	12.0	0.24	84.6	0.46	1.74	0.41	-0.01	0.57	-0.010	0.51	0.116	0.52
C1025644	2.08	0.58	52.3	0.58	12.2	0.24	80.1	0.46	1.56	0.40	-0.01	0.60	-0.003	0.54	0.190	0.55
C1026964	0.69	0.34	21.6	0.37	10.4	0.18	46.1	0.33	0.25	0.30	-0.30	0.36	-0.004	0.30	-0.512	0.32
C1026986	1.26	0.54	30.5	0.52	6.7	0.21	54.5	0.42	0.48	0.36	0.05	0.57	0.000	0.49	-0.325	0.51
C1027839	-0.72	0.56	23.3	0.55	10.4	0.26	49.3	0.45	1.02	0.52	-0.30	0.59	-0.030	0.51	-0.436	0.53
C1027841	-2.91	0.72	46.3	0.70	7.1	0.25	73.6	0.51	1.57	0.59	-0.20	0.74	-0.018	0.67	-0.565	0.69
C1027868	-0.41	0.54	31.5	0.49	8.4	0.17	45.3	0.37	0.45	0.35	0.03	0.44	-0.004	0.39	-0.219	0.41

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1027870	0.92	0.53	31.7	0.52	11.1	0.18	49.0	0.38	0.89	0.47	-0.52	0.57	-0.032	0.49	-0.497	0.51
C1027871	1.24	0.52	35.5	0.53	11.0	0.20	53.9	0.38	0.25	0.47	-0.10	0.56	0.001	0.47	-0.097	0.49
C1027872	-1.42	0.53	24.3	0.54	9.3	0.27	50.1	0.42	0.46	0.51	-0.09	0.58	-0.023	0.50	-0.197	0.52
C1027873	-0.34	0.54	36.1	0.54	11.3	0.29	62.9	0.43	1.04	0.50	-0.26	0.57	-0.028	0.50	-0.061	0.52
C1027910	1.57	0.53	33.8	0.53	12.6	0.20	52.1	0.39	0.35	0.49	-0.09	0.51	-0.003	0.43	-0.125	0.45
C1027911	-2.13	0.53	26.5	0.54	10.8	0.25	51.4	0.45	0.83	0.50	-0.15	0.52	-0.022	0.45	-0.267	0.47
C1027914	-1.89	0.54	27.2	0.50	9.7	0.25	52.0	0.40	0.82	0.36	-0.29	0.45	-0.032	0.40	-0.237	0.42
C1027915	1.30	0.53	33.4	0.48	14.0	0.19	46.7	0.36	0.42	0.32	-0.02	0.40	-0.002	0.35	0.014	0.37
C1027918	-2.21	0.57	34.6	0.56	6.4	0.25	60.6	0.45	1.19	0.42	-0.05	0.49	-0.018	0.44	-0.418	0.46
C1027922	-0.42	0.55	27.3	0.53	7.6	0.17	40.3	0.38	0.34	0.35	0.04	0.57	-0.002	0.49	-0.261	0.51
C1027925	-1.74	0.55	25.1	0.53	5.2	0.25	48.1	0.42	0.67	0.39	-0.15	0.57	-0.020	0.50	-0.320	0.51
C1028026	0.67	0.54	9.6	0.53	10.6	0.20	24.6	0.49	-0.31	0.32	0.08	0.59	-0.002	0.50	0.141	0.52
C1028230	-0.07	0.56	40.0	0.54	14.2	0.19	69.5	0.53	0.92	0.39	0.12	0.44	0.011	0.37	0.340	0.41
C1028252	-1.77	0.56	30.5	0.57	9.8	0.22	46.8	0.55	1.36	0.41	0.21	0.47	0.003	0.40	0.034	0.43
C1029121	0.61	0.57	21.3	0.52	10.7	0.20	44.9	0.40	0.32	0.33	-0.38	0.56	-0.019	0.47	-0.759	0.50
C1030676	1.56	0.53	16.6	0.44	8.1	0.18	32.9	0.37	0.15	0.32	0.07	0.35	-0.005	0.29	-0.256	0.32
C1031033	1.66	0.53	18.7	0.50	11.3	0.18	41.0	0.39	0.16	0.34	-0.12	0.38	-0.009	0.32	-0.021	0.34
C1032914	1.80	0.50	20.1	0.48	9.4	0.32	43.2	0.45	0.11	0.41	-0.30	0.42	-0.013	0.38	-0.660	0.39
C1036184	1.90	0.58	27.0	0.59	9.0	0.32	51.0	0.53	0.39	0.43	-0.13	0.56	-0.012	0.50	-0.810	0.52
S23646	-0.60	0.34	30.7	0.47	11.9	0.24	52.3	0.38	0.58	0.32	-0.09	0.55	-0.003	0.46	0.172	0.48
S23647	-1.10	0.33	20.1	0.46	8.3	0.23	40.5	0.37	0.23	0.32	0.07	0.55	0.002	0.46	0.003	0.48
S23648	-0.52	0.33	22.5	0.46	6.2	0.23	43.8	0.35	0.33	0.32	0.11	0.55	-0.001	0.46	0.023	0.48
C1025784	0.63	0.55	32.3	0.48	9.4	0.20	55.3	0.43	0.84	0.39	-0.09	0.46	-0.004	0.41	-0.144	0.43
C1026965	0.59	0.34	22.4	0.37	8.6	0.16	49.3	0.34	0.32	0.30	-0.25	0.39	-0.005	0.32	-0.477	0.34
C1027423	2.51	0.47	18.2	0.48	11.8	0.32	38.2	0.45	-0.14	0.41	-0.16	0.44	-0.003	0.40	-0.588	0.41
C1027832	-1.23	0.52	24.3	0.50	7.7	0.17	37.3	0.37	0.30	0.35	0.02	0.44	-0.003	0.39	-0.445	0.41
C1028542	-1.28	0.40	26.0	0.49	7.4	0.18	49.5	0.42	0.81	0.29	0.19	0.52	-0.007	0.42	0.354	0.44
C1028545	-2.50	0.37	23.7	0.47	10.4	0.15	44.0	0.41	0.64	0.29	0.09	0.51	0.004	0.42	0.306	0.44
C1028850	1.43	0.55	40.8	0.55	11.7	0.28	65.0	0.43	0.89	0.34	-0.02	0.59	-0.012	0.50	0.024	0.52
C1028865	1.10	0.55	38.9	0.54	16.7	0.27	65.4	0.43	1.08	0.33	0.08	0.59	0.011	0.51	-0.020	0.53
C1028879	2.01	0.53	34.5	0.52	15.4	0.19	54.3	0.38	0.71	0.31	-0.07	0.55	-0.014	0.47	0.340	0.48
C1028883	1.53	0.54	32.4	0.53	14.7	0.20	55.7	0.38	0.51	0.33	0.01	0.58	0.006	0.50	0.246	0.51
C1029120	0.48	0.53	18.3	0.51	6.5	0.22	38.6	0.45	0.06	0.37	0.05	0.52	-0.001	0.46	-0.518	0.47
C1030388	2.56	0.55	26.6	0.52	7.1	0.22	51.2	0.40	0.23	0.33	-0.13	0.54	-0.010	0.47	-0.352	0.49
C1030403	0.61	0.50	14.4	0.49	8.7	0.22	33.6	0.42	-0.09	0.35	-0.11	0.42	-0.013	0.37	-0.392	0.39
C1030667	1.27	0.59	24.8	0.59	8.7	0.35	48.9	0.58	0.32	0.45	-0.17	0.46	0.003	0.41	-0.480	0.44
C1030668	1.11	0.58	21.3	0.57	7.8	0.26	48.9	0.56	0.27	0.42	-0.02	0.41	0.005	0.36	-0.710	0.39
C1030669	1.11	0.58	21.2	0.56	7.8	0.26	48.8	0.50	0.27	0.41	-0.02	0.41	0.005	0.36	-0.711	0.38
C1030671	1.30	0.60	27.5	0.58	4.9	0.28	53.6	0.57	0.48	0.42	-0.12	0.44	0.006	0.40	-0.271	0.42
C1031063	2.56	0.54	22.4	0.52	11.0	0.20	44.7	0.39	0.18	0.34	0.06	0.55	-0.011	0.47	0.115	0.49
C1031691	1.21	0.56	23.0	0.55	9.1	0.25	50.5	0.45	0.41	0.39	-0.18	0.56	-0.024	0.50	-0.099	0.51
C1031909	-2.32	0.54	33.6	0.53	12.5	0.24	55.7	0.41	1.12	0.37	0.06	0.58	-0.012	0.50	-0.363	0.51
C1031910	1.14	0.55	31.2	0.53	6.6	0.22	54.3	0.45	0.55	0.39	0.11	0.55	-0.012	0.43	-0.573	0.50

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1031923	1.63	0.52	39.3	0.51	12.3	0.18	55.7	0.38	0.52	0.32	0.00	0.58	0.003	0.50	0.062	0.52
C1031961	-0.96	0.54	27.5	0.50	10.2	0.25	48.8	0.40	0.91	0.39	-0.24	0.54	-0.025	0.41	-0.161	0.49
C1031962	1.25	0.55	30.2	0.51	11.6	0.18	49.5	0.39	0.53	0.38	-0.20	0.54	-0.012	0.41	-0.402	0.49
C1031963	1.45	0.54	28.0	0.48	8.4	0.21	48.0	0.40	0.29	0.35	-0.14	0.47	-0.003	0.42	-0.183	0.43
C1031968	-1.29	0.55	30.7	0.54	9.6	0.29	55.7	0.43	0.99	0.40	0.17	0.59	-0.009	0.52	-0.386	0.53
C1031969	-0.66	0.54	37.9	0.52	9.2	0.18	55.2	0.38	0.95	0.36	0.06	0.59	-0.014	0.52	-0.303	0.53
C1031970	1.72	0.53	29.8	0.52	12.7	0.25	47.1	0.38	0.47	0.33	-0.11	0.58	-0.003	0.51	-0.395	0.52
C1031971	-0.27	0.55	29.3	0.54	9.6	0.28	52.7	0.44	0.88	0.40	-0.08	0.59	-0.015	0.52	-0.358	0.53
C1031973	-2.25	0.55	32.8	0.54	8.3	0.26	60.1	0.43	0.90	0.40	-0.15	0.60	-0.020	0.53	-0.004	0.54
C1031983	1.78	0.57	25.2	0.49	4.9	0.27	49.3	0.45	0.52	0.40	-0.17	0.47	-0.007	0.43	-0.339	0.44
C1032081	-0.50	0.57	41.8	0.56	12.0	0.24	68.6	0.45	1.39	0.40	-0.03	0.60	0.001	0.54	-0.012	0.55
C1032083	0.17	0.57	44.2	0.56	11.5	0.24	71.2	0.45	1.40	0.40	0.02	0.60	-0.007	0.54	0.106	0.55
C1032180	-1.21	0.54	17.2	0.46	8.7	0.16	31.2	0.38	0.14	0.34	-0.09	0.46	-0.007	0.40	0.046	0.42
C1032181	1.22	0.54	23.1	0.45	8.2	0.19	37.9	0.40	0.04	0.35	-0.21	0.44	-0.009	0.39	0.126	0.40
C1032627	-0.15	0.33	35.3	0.35	8.7	0.13	59.2	0.29	0.82	0.27	-0.19	0.37	-0.014	0.30	-0.173	0.32
C1033245	-0.73	0.62	61.5	0.62	10.2	0.30	102.5	0.57	2.17	0.56	-0.26	0.61	-0.005	0.54	0.129	0.56
C1033293	-0.10	0.54	22.4	0.55	5.5	0.25	43.3	0.50	0.46	0.48	-0.10	0.40	-0.004	0.33	0.142	0.37
C1033707	1.91	0.60	17.6	0.55	15.0	0.32	38.3	0.43	0.33	0.37	-0.25	0.61	-0.022	0.53	-0.529	0.55
C1033708	1.03	0.56	13.9	0.55	15.2	0.32	34.2	0.43	0.26	0.37	-0.29	0.60	-0.013	0.53	-0.729	0.55
C1033966	2.90	0.55	28.2	0.55	9.4	0.15	51.0	0.49	0.48	0.35	-0.22	0.56	-0.026	0.48	-0.229	0.50
C1034925	1.64	0.58	24.7	0.57	3.4	0.32	45.2	0.49	0.34	0.43	-0.02	0.60	-0.009	0.54	-0.369	0.55
C1035391	0.82	0.51	16.0	0.41	11.9	0.14	37.7	0.34	0.16	0.28	-0.12	0.40	-0.008	0.34	-0.468	0.36
C1035501	1.57	0.47	16.3	0.44	9.6	0.20	34.9	0.37	-0.07	0.32	-0.17	0.35	-0.012	0.29	-0.693	0.32
C1035911	-0.67	0.64	43.1	0.58	11.7	0.26	66.2	0.49	0.93	0.45	0.05	0.56	-0.017	0.50	0.299	0.51
C1036135	1.70	0.41	28.4	0.42	9.3	0.17	49.1	0.34	0.16	0.30	-0.29	0.39	-0.013	0.32	-0.361	0.34
C1036703	2.98	0.52	26.4	0.51	8.5	0.16	51.5	0.48	0.20	0.35	0.01	0.53	-0.010	0.47	-0.129	0.48
C1036953	-0.70	0.55	29.3	0.54	6.3	0.20	54.1	0.44	0.71	0.36	-0.19	0.59	-0.012	0.52	-0.421	0.53
C1037620	2.46	0.58	25.5	0.56	8.4	0.27	54.5	0.47	0.47	0.41	0.11	0.61	0.006	0.54	-0.108	0.56
C1037922	1.17	0.56	27.7	0.54	7.7	0.16	50.9	0.40	0.34	0.32	-0.08	0.59	-0.010	0.52	-0.239	0.54
C1037934	1.17	0.57	27.4	0.55	7.3	0.20	51.1	0.44	0.33	0.36	-0.07	0.60	-0.013	0.53	-0.324	0.54
C1038805	0.53	0.45	23.5	0.45	5.3	0.18	47.8	0.40	0.42	0.35	-0.15	0.43	-0.008	0.38	-0.559	0.39
C1039182	-0.86	0.42	21.5	0.43	13.6	0.23	44.4	0.39	0.18	0.35	0.02	0.40	-0.006	0.35	-0.597	0.37
C1039348	2.19	0.54	33.3	0.54	9.8	0.21	55.3	0.50	0.73	0.49	-0.07	0.58	-0.001	0.50	0.349	0.52
C1039360	0.54	0.52	46.0	0.50	11.5	0.19	69.4	0.35	1.25	0.29	-0.13	0.39	-0.010	0.33	0.127	0.35
C1039640	-0.48	0.54	32.6	0.53	11.5	0.20	54.7	0.41	0.91	0.37	-0.26	0.59	-0.018	0.51	0.141	0.53
C1039642	1.28	0.55	38.0	0.47	13.0	0.21	60.0	0.41	1.08	0.37	-0.19	0.45	-0.001	0.40	-0.027	0.42
C1039653	0.04	0.53	39.2	0.52	11.0	0.17	59.5	0.38	0.79	0.35	-0.03	0.59	-0.012	0.52	-0.294	0.53
C1039654	-1.02	0.55	34.2	0.53	8.8	0.23	59.2	0.42	0.92	0.38	-0.38	0.60	-0.037	0.52	0.098	0.54
C1039655	-1.42	0.52	24.1	0.53	10.1	0.27	48.5	0.41	0.49	0.36	-0.10	0.58	-0.022	0.50	-0.116	0.52
C1039656	2.10	0.53	26.8	0.52	8.8	0.24	44.6	0.40	0.23	0.34	-0.20	0.59	-0.010	0.51	-0.118	0.53
C1039657	-1.30	0.53	32.2	0.52	10.5	0.25	58.5	0.40	0.75	0.37	-0.18	0.59	-0.029	0.51	-0.359	0.53
C1039660	-1.46	0.52	37.8	0.52	8.9	0.26	62.7	0.40	1.07	0.36	-0.15	0.57	-0.014	0.49	-0.292	0.51
C1039662	1.15	0.52	36.0	0.50	11.6	0.16	52.7	0.36	0.48	0.34	0.18	0.57	-0.006	0.49	-0.201	0.50

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1039663	-1.67	0.55	33.6	0.52	10.4	0.26	59.6	0.41	0.87	0.37	-0.21	0.58	-0.021	0.50	-0.155	0.52
C1039664	1.16	0.51	41.4	0.50	12.9	0.16	59.2	0.36	0.77	0.32	-0.14	0.57	-0.009	0.49	-0.104	0.50
C1039674	1.90	0.55	33.2	0.53	11.2	0.19	53.6	0.41	0.72	0.36	-0.15	0.59	-0.005	0.51	0.054	0.53
C1039675	1.07	0.55	36.1	0.53	10.7	0.15	53.0	0.38	0.60	0.35	0.00	0.60	0.005	0.52	-0.163	0.54
C1039676	0.98	0.55	37.5	0.53	10.7	0.15	55.6	0.38	0.66	0.35	-0.07	0.60	0.003	0.52	-0.210	0.54
C1039677	0.95	0.55	38.5	0.53	10.9	0.15	55.7	0.38	0.66	0.35	-0.03	0.60	-0.011	0.52	0.023	0.54
C1039678	1.34	0.55	40.4	0.53	10.3	0.15	57.9	0.38	0.73	0.35	-0.01	0.60	0.006	0.52	0.054	0.54
C1039679	0.92	0.55	39.7	0.53	11.6	0.15	57.9	0.38	0.86	0.35	-0.06	0.60	0.009	0.52	-0.322	0.54
C1039684	0.38	0.54	34.3	0.52	11.0	0.17	52.3	0.38	0.54	0.35	-0.20	0.59	-0.020	0.51	-0.412	0.53
C1039685	-0.73	0.55	27.9	0.53	9.2	0.25	53.2	0.42	0.56	0.39	0.00	0.60	-0.028	0.52	-0.055	0.54
C1039687	1.33	0.53	40.7	0.52	9.7	0.17	60.7	0.38	0.69	0.35	-0.28	0.59	-0.021	0.51	-0.130	0.53
C1039688	0.03	0.56	32.4	0.54	8.7	0.20	54.7	0.43	0.76	0.38	-0.10	0.59	0.005	0.52	0.138	0.53
C1039697	0.55	0.56	23.0	0.53	10.8	0.17	40.3	0.41	0.49	0.36	-0.04	0.58	0.018	0.51	-0.038	0.53
C1039698	1.28	0.57	28.2	0.56	7.3	0.24	49.4	0.45	0.41	0.40	-0.06	0.61	-0.023	0.54	-0.501	0.55
C1040092	-1.24	0.54	30.4	0.53	10.4	0.25	55.0	0.41	0.91	0.37	-0.40	0.60	-0.039	0.52	-0.318	0.53
C1040096	-2.09	0.56	39.4	0.53	7.3	0.26	67.3	0.44	1.12	0.41	-0.16	0.57	-0.024	0.51	-0.450	0.52
C1040098	0.73	0.55	47.5	0.53	9.4	0.18	69.0	0.40	0.93	0.37	-0.16	0.59	-0.007	0.51	-0.347	0.53
C1040099	0.48	0.55	43.1	0.53	9.6	0.14	59.8	0.39	0.92	0.35	0.08	0.60	0.013	0.53	-0.061	0.54
C1040100	0.39	0.55	43.2	0.53	10.9	0.14	61.3	0.39	1.00	0.35	0.06	0.60	0.020	0.53	0.534	0.54
C1040104	-0.92	0.53	42.1	0.54	8.3	0.22	67.5	0.42	1.23	0.39	-0.05	0.59	-0.010	0.52	0.497	0.53
C1040105	-0.38	0.52	39.7	0.53	11.2	0.14	55.9	0.38	0.89	0.35	-0.02	0.60	0.014	0.53	0.162	0.54
C1040106	-2.49	0.56	33.3	0.54	8.3	0.22	55.1	0.43	1.10	0.39	-0.21	0.59	-0.016	0.52	0.074	0.53
C1040108	-2.22	0.56	38.1	0.55	8.4	0.22	62.1	0.43	1.20	0.39	0.02	0.60	0.007	0.53	0.254	0.55
C1040109	-2.01	0.56	37.2	0.55	7.7	0.22	59.7	0.43	1.19	0.39	-0.09	0.60	-0.010	0.53	0.080	0.55
C1040110	-2.43	0.56	37.0	0.55	7.8	0.22	60.8	0.43	1.16	0.39	-0.08	0.60	-0.003	0.53	0.221	0.55
C1041683	2.98	0.57	31.5	0.56	7.2	0.24	59.1	0.45	0.63	0.42	-0.16	0.61	-0.032	0.54	-0.553	0.55
C1041684	2.90	0.57	32.1	0.56	6.3	0.24	60.8	0.45	0.73	0.42	-0.24	0.61	-0.039	0.54	-0.569	0.55
C1041685	3.42	0.57	26.7	0.56	7.6	0.24	53.9	0.45	0.44	0.42	-0.20	0.61	-0.041	0.54	-0.562	0.55
C1041686	5.22	0.57	37.5	0.56	7.3	0.24	67.8	0.45	0.69	0.42	-0.12	0.61	-0.029	0.54	-0.354	0.55
C1041891	1.23	0.53	34.9	0.49	11.2	0.16	59.2	0.37	0.73	0.32	-0.20	0.40	-0.014	0.32	0.014	0.35
C1041892	0.83	0.54	25.1	0.50	6.2	0.18	46.4	0.40	0.49	0.34	0.06	0.38	-0.004	0.32	0.093	0.35
C1042959	1.09	0.56	21.7	0.55	7.3	0.21	46.0	0.55	0.09	0.38	-0.09	0.36	0.004	0.30	-0.293	0.34
C1043790	0.70	0.57	36.7	0.57	4.1	0.25	68.6	0.50	0.92	0.43	-0.17	0.50	-0.012	0.47	-0.764	0.48
C1045525	1.49	0.55	24.8	0.53	9.9	0.17	47.3	0.41	0.41	0.35	-0.50	0.58	-0.014	0.50	-0.600	0.52
C1045540	1.90	0.56	21.7	0.55	13.2	0.29	43.7	0.44	0.29	0.39	0.01	0.60	-0.009	0.53	-0.405	0.54
C1045543	1.11	0.55	22.0	0.53	9.9	0.17	43.2	0.41	0.36	0.35	-0.29	0.58	-0.017	0.50	-0.551	0.52
C1045544	2.00	0.56	29.0	0.55	13.5	0.29	52.4	0.44	0.58	0.39	-0.02	0.60	-0.006	0.53	-0.159	0.54
C1045548	2.62	0.54	38.0	0.53	8.8	0.17	64.2	0.39	0.52	0.32	-0.09	0.57	-0.004	0.49	0.225	0.51
C1045677	-1.48	0.53	9.5	0.52	12.7	0.26	30.5	0.44	-0.07	0.38	0.02	0.44	-0.004	0.40	-0.753	0.42
C1037114	2.22	0.55	30.9	0.46	7.1	0.18	49.7	0.40	0.51	0.36	-0.13	0.44	-0.004	0.39	0.085	0.41
C1038165	0.87	0.42	29.9	0.40	9.7	0.20	48.8	0.37	0.57	0.34	-0.18	0.38	-0.007	0.32	-0.138	0.34
C1038860	0.71	0.49	30.6	0.48	9.2	0.18	53.9	0.43	0.59	0.30	-0.17	0.45	-0.005	0.35	-0.209	0.39
C1038861	0.23	0.50	20.9	0.49	9.9	0.20	37.2	0.43	0.26	0.30	-0.10	0.45	-0.007	0.35	-0.248	0.39

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1039132	1.85	0.58	29.9	0.58	11.0	0.32	48.1	0.49	0.47	0.43	-0.06	0.50	0.005	0.46	0.325	0.48
C1039647	1.06	0.56	27.7	0.55	10.1	0.23	48.6	0.43	0.67	0.40	-0.11	0.48	-0.015	0.43	-0.045	0.45
C1039993	1.10	0.58	23.4	0.57	8.5	0.24	41.3	0.48	0.00	0.52	0.03	0.49	-0.001	0.45	-0.219	0.46
C1041102	0.15	0.51	23.2	0.46	9.3	0.19	43.2	0.40	0.52	0.30	-0.13	0.26	-0.007	0.19	-0.044	0.23
C1041755	2.82	0.42	20.5	0.42	9.6	0.15	46.0	0.35	0.26	0.31	-0.15	0.36	-0.012	0.30	-0.513	0.32
C1041883	1.70	0.35	22.6	0.38	9.2	0.14	44.2	0.32	0.52	0.30	-0.06	0.36	-0.010	0.30	-0.068	0.32
C1042036	1.45	0.57	34.2	0.56	11.2	0.33	57.9	0.48	0.60	0.48	0.07	0.56	0.003	0.49	0.499	0.51
C1042967	1.43	0.57	23.4	0.56	9.1	0.26	48.8	0.55	0.35	0.43	-0.16	0.42	0.008	0.37	-0.554	0.39
C1042974	1.10	0.54	21.2	0.53	9.6	0.22	44.9	0.46	0.26	0.39	-0.23	0.38	0.000	0.31	-0.417	0.34
C1042976	1.45	0.56	20.9	0.55	9.0	0.26	46.4	0.50	0.22	0.42	-0.11	0.42	0.009	0.37	-0.651	0.39
C1042990	1.58	0.37	15.3	0.37	9.2	0.14	36.0	0.33	-0.01	0.29	-0.19	0.35	-0.004	0.28	-0.415	0.31
C1043381	2.02	0.55	18.7	0.55	2.8	0.33	32.8	0.48	-0.21	0.42	-0.26	0.45	-0.015	0.40	-0.614	0.42
C1043411	0.82	0.55	22.0	0.52	5.2	0.22	40.1	0.42	0.56	0.36	-0.27	0.54	-0.003	0.48	-0.107	0.49
C1043415	2.62	0.53	20.5	0.52	8.8	0.21	41.4	0.43	0.01	0.36	0.07	0.57	0.008	0.50	-0.222	0.51
C1043417	0.66	0.54	15.6	0.48	8.7	0.19	34.8	0.40	-0.07	0.36	-0.31	0.51	-0.009	0.44	-0.144	0.46
C1043420	-1.02	0.55	21.6	0.52	9.0	0.18	37.2	0.40	0.21	0.35	-0.07	0.55	0.002	0.48	0.018	0.49
C1043424	0.28	0.53	22.6	0.48	6.1	0.16	44.6	0.38	0.38	0.32	-0.05	0.51	-0.004	0.43	-0.117	0.45
C1043603	2.00	0.54	32.5	0.54	11.6	0.24	54.9	0.43	0.88	0.50	-0.20	0.58	0.001	0.51	-0.145	0.52
C1043606	-0.59	0.55	39.3	0.54	8.8	0.26	66.8	0.44	1.53	0.52	-0.12	0.59	-0.029	0.52	0.187	0.53
C1043608	0.99	0.52	33.2	0.50	8.3	0.15	56.4	0.38	0.35	0.47	-0.31	0.51	-0.036	0.44	-0.249	0.45
C1043609	-2.05	0.54	27.1	0.53	8.7	0.20	44.7	0.42	0.99	0.49	-0.10	0.54	-0.010	0.47	0.116	0.49
C1043610	-1.27	0.51	26.5	0.49	5.6	0.15	47.2	0.38	0.10	0.47	-0.03	0.52	-0.020	0.44	-0.314	0.46
C1043611	-0.27	0.53	28.4	0.52	9.9	0.20	47.7	0.42	0.97	0.48	-0.22	0.55	-0.007	0.48	0.122	0.50
C1043615	1.53	0.52	23.5	0.50	9.2	0.19	46.0	0.38	0.16	0.37	-0.26	0.55	-0.018	0.47	-0.515	0.48
C1043616	1.93	0.52	21.2	0.50	8.6	0.19	43.0	0.38	0.09	0.37	-0.38	0.55	-0.034	0.47	-0.533	0.48
C1043617	2.48	0.54	32.3	0.53	8.7	0.23	58.2	0.43	0.71	0.38	-0.07	0.58	0.013	0.51	0.007	0.52
C1043618	0.55	0.53	36.9	0.52	12.1	0.20	54.9	0.38	0.52	0.36	-0.14	0.56	-0.010	0.48	-0.172	0.50
C1043619	-1.36	0.54	32.5	0.53	9.6	0.25	57.7	0.41	1.07	0.38	-0.07	0.59	0.000	0.52	-0.202	0.53
C1043620	-1.45	0.55	24.8	0.53	9.2	0.25	50.4	0.41	0.68	0.37	-0.31	0.59	-0.037	0.51	-0.184	0.53
C1043621	1.71	0.52	35.2	0.50	10.3	0.16	54.3	0.36	0.91	0.34	-0.12	0.58	0.032	0.50	0.181	0.51
C1043623	-0.29	0.54	22.4	0.53	6.9	0.24	41.7	0.42	0.13	0.36	-0.23	0.59	-0.034	0.51	-0.216	0.52
C1043624	0.54	0.54	25.2	0.52	10.6	0.19	45.7	0.40	0.52	0.34	-0.09	0.59	0.006	0.51	0.171	0.52
C1043625	1.63	0.54	27.1	0.52	9.3	0.16	50.2	0.41	0.43	0.36	-0.17	0.59	-0.022	0.51	0.075	0.53
C1043629	0.78	0.55	34.0	0.54	11.8	0.23	53.3	0.42	0.70	0.37	-0.08	0.58	0.008	0.50	0.228	0.52
C1043630	0.19	0.52	36.8	0.51	9.9	0.16	59.4	0.37	1.10	0.35	-0.29	0.57	-0.009	0.49	0.065	0.51
C1043632	1.03	0.54	23.9	0.52	11.9	0.19	42.1	0.39	0.38	0.34	-0.23	0.58	0.004	0.50	0.114	0.52
C1043635	1.87	0.42	39.5	0.42	8.1	0.13	62.0	0.33	0.95	0.33	-0.21	0.43	0.001	0.37	-0.060	0.39
C1043663	1.86	0.57	18.6	0.54	8.9	0.22	44.6	0.44	0.32	0.37	-0.21	0.58	-0.012	0.51	-0.388	0.53
C1043912	-1.37	0.55	52.1	0.55	9.3	0.25	89.5	0.47	0.93	0.53	-0.17	0.58	0.002	0.51	0.097	0.52
C1043933	0.18	0.54	21.7	0.45	6.6	0.17	44.1	0.39	0.40	0.32	0.03	0.44	-0.006	0.38	-0.029	0.40
C1043943	1.36	0.53	69.6	0.52	13.5	0.19	110.5	0.42	2.38	0.49	0.23	0.55	0.035	0.46	0.187	0.48
C1043981	1.40	0.54	23.8	0.53	8.0	0.18	53.2	0.44	0.36	0.36	-0.16	0.55	0.000	0.48	-0.401	0.50
C1044015	1.56	0.58	35.7	0.57	11.0	0.32	55.6	0.49	0.62	0.43	-0.09	0.50	0.005	0.46	0.389	0.48

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1044701	-1.92	0.41	28.1	0.41	7.9	0.20	53.0	0.37	0.70	0.31	-0.02	0.38	-0.009	0.31	-0.194	0.33
C1044809	2.43	0.55	33.1	0.52	8.2	0.22	56.0	0.43	0.67	0.38	-0.14	0.47	-0.003	0.42	0.313	0.44
C1044811	-0.79	0.54	16.7	0.50	9.0	0.16	31.9	0.39	0.14	0.34	-0.08	0.54	-0.007	0.47	0.049	0.49
C1044812	1.25	0.53	27.1	0.49	6.9	0.14	47.2	0.38	0.55	0.32	-0.07	0.53	-0.014	0.45	0.407	0.47
C1045046	0.65	0.42	38.0	0.42	9.4	0.13	60.2	0.34	1.04	0.35	-0.17	0.42	0.003	0.36	0.119	0.38
C1045155	2.89	0.52	55.3	0.51	12.3	0.18	88.1	0.42	1.35	0.35	0.02	0.56	0.004	0.47	-0.024	0.49
C1045327	-0.24	0.51	36.9	0.50	7.2	0.18	63.7	0.49	0.90	0.45	0.07	0.54	0.013	0.45	0.007	0.47
C1045627	2.42	0.57	28.1	0.55	6.5	0.29	52.4	0.46	0.46	0.40	0.00	0.59	-0.001	0.52	-0.385	0.53
C1045835	0.36	0.54	35.4	0.53	7.8	0.20	63.5	0.42	0.67	0.35	0.09	0.59	-0.003	0.51	-0.166	0.53
C1045854	-0.83	0.55	17.3	0.53	14.8	0.26	36.9	0.42	0.30	0.36	0.25	0.58	0.002	0.50	-0.469	0.51
C1046094	1.53	0.52	45.4	0.54	10.8	0.20	76.9	0.52	0.58	0.52	-0.13	0.57	-0.006	0.47	0.155	0.50
C1047171	1.80	0.51	31.4	0.47	5.1	0.14	54.0	0.38	0.81	0.31	0.11	0.53	-0.009	0.45	0.196	0.47
C1047172	1.45	0.56	28.7	0.53	8.2	0.23	57.5	0.43	0.51	0.37	-0.30	0.58	-0.021	0.50	-0.326	0.52
C1047173	1.37	0.53	17.2	0.49	7.2	0.14	43.9	0.37	0.15	0.30	-0.05	0.39	-0.010	0.33	-0.731	0.35
C1047175	0.94	0.52	28.8	0.45	7.9	0.20	59.9	0.41	0.63	0.35	-0.16	0.43	-0.019	0.38	-0.589	0.40
C1047176	1.47	0.53	34.1	0.45	9.2	0.14	61.8	0.38	0.78	0.31	-0.35	0.44	-0.011	0.39	-0.020	0.40
C1047178	1.26	0.56	29.7	0.53	8.5	0.23	58.0	0.43	0.54	0.37	-0.13	0.58	-0.009	0.50	-0.330	0.52
C1047181	1.62	0.55	27.2	0.46	8.6	0.24	56.0	0.42	0.42	0.36	-0.12	0.44	-0.014	0.40	-0.315	0.41
C1047182	1.14	0.56	28.6	0.53	8.4	0.23	56.4	0.43	0.44	0.37	-0.23	0.58	-0.019	0.50	-0.355	0.52
C1047824	0.07	0.44	30.1	0.45	3.8	0.28	53.6	0.43	0.32	0.38	-0.22	0.42	-0.012	0.37	-0.385	0.39
C1048541	1.68	0.52	18.7	0.49	3.6	0.18	39.5	0.38	-0.09	0.33	-0.16	0.52	-0.004	0.43	-0.595	0.45
C1048748	1.89	0.56	24.4	0.55	7.9	0.30	51.3	0.46	0.39	0.41	-0.17	0.58	-0.008	0.51	-0.571	0.52
C1048786	1.66	0.57	22.8	0.54	7.4	0.22	49.0	0.44	0.40	0.37	0.05	0.59	0.002	0.52	-0.239	0.54
C1048791	1.78	0.57	24.5	0.54	8.1	0.22	50.1	0.44	0.52	0.37	0.00	0.59	-0.004	0.52	-0.312	0.54
C1048793	1.88	0.57	25.5	0.54	9.1	0.22	51.9	0.44	0.52	0.37	-0.08	0.59	-0.013	0.52	-0.327	0.54
C1048794	1.90	0.57	25.3	0.54	8.8	0.22	53.2	0.44	0.53	0.37	0.01	0.59	-0.012	0.52	-0.341	0.54
C1048798	0.79	0.54	25.5	0.43	6.6	0.14	51.4	0.37	0.60	0.30	-0.05	0.42	-0.001	0.36	-0.595	0.38
C1048983	0.67	0.51	32.4	0.50	10.5	0.18	61.6	0.40	0.63	0.35	-0.12	0.54	0.005	0.47	-0.652	0.48
C1049022	0.94	0.40	26.0	0.39	10.2	0.12	48.1	0.36	0.53	0.32	-0.15	0.26	-0.008	0.19	-0.052	0.22
C1049180	1.56	0.33	19.75	0.34	9.87	0.15	42.35	0.33	0.17	0.31	-0.14	0.31	0.00	0.25	-0.47	0.27
C1049181	2.32	0.46	23.65	0.47	13.98	0.29	46.81	0.45	0.64	0.40	-0.20	0.42	-0.01	0.38	-0.52	0.39
C1049726	0.83	0.36	16.00	0.36	8.68	0.19	35.26	0.32	-0.07	0.29	-0.14	0.32	0.00	0.26	-0.43	0.28
C1049727	1.92	0.34	17.71	0.36	11.74	0.15	35.17	0.31	-0.08	0.28	-0.17	0.31	-0.01	0.25	-0.40	0.27
C1049760	1.42	0.32	27.77	0.41	11.53	0.11	50.18	0.29	0.38	0.25	-0.06	0.42	0.00	0.22	-0.07	0.35
C1049763	0.34	0.40	18.20	0.48	6.47	0.19	38.52	0.39	0.03	0.33	-0.13	0.49	-0.01	0.34	-0.53	0.44
C1049928	2.53	0.56	13.14	0.53	3.26	0.29	34.29	0.46	-0.14	0.40	-0.04	0.48	0.00	0.43	-0.41	0.45
C1049929	2.46	0.56	12.09	0.55	3.89	0.29	32.54	0.46	-0.14	0.40	-0.12	0.60	-0.02	0.53	-0.57	0.55
C1049930	2.47	0.56	16.25	0.55	3.26	0.29	35.89	0.46	-0.02	0.40	-0.04	0.60	-0.01	0.53	-0.55	0.55
C1049932	1.49	0.57	22.25	0.56	10.63	0.26	45.80	0.44	0.34	0.37	-0.04	0.60	-0.02	0.53	-0.55	0.54
C1049934	1.14	0.57	31.41	0.56	11.90	0.24	59.19	0.44	0.63	0.37	-0.13	0.60	-0.01	0.54	-0.02	0.55
C1049935	2.87	0.56	27.97	0.54	3.73	0.28	51.78	0.45	0.25	0.40	-0.02	0.60	-0.02	0.53	-0.55	0.54
C1049936	1.24	0.57	29.64	0.56	11.16	0.24	56.27	0.44	0.53	0.37	-0.23	0.61	-0.01	0.54	0.13	0.55
C1049937	2.87	0.56	29.73	0.54	4.24	0.28	54.49	0.45	0.33	0.40	-0.03	0.60	-0.01	0.53	-0.37	0.54

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1049938	3.04	0.56	16.35	0.55	3.09	0.29	37.69	0.46	-0.10	0.40	0.07	0.60	0.00	0.53	-0.34	0.55
C1049939	1.99	0.56	15.93	0.55	2.55	0.30	34.29	0.46	-0.06	0.41	0.00	0.59	0.00	0.52	-0.46	0.53
C1050719	-0.09	0.54	29.53	0.51	12.78	0.18	54.21	0.35	0.59	0.28	0.19	0.56	0.00	0.47	0.13	0.49
C1051165	1.18	0.47	29.20	0.48	2.50	0.32	51.57	0.47	0.30	0.42	-0.23	0.44	-0.01	0.40	-0.69	0.41
C1051623	1.57	0.47	20.90	0.48	3.77	0.30	40.42	0.46	0.14	0.40	0.08	0.46	0.00	0.42	-0.47	0.43
C1052270	-1.32	0.55	42.58	0.55	6.67	0.25	73.01	0.46	1.44	0.52	-0.17	0.59	-0.03	0.52	-0.39	0.53
C1052271	-1.71	0.53	42.84	0.51	7.36	0.14	67.77	0.38	1.36	0.35	-0.08	0.58	0.01	0.50	-0.16	0.52
C1052272	2.70	0.53	31.40	0.51	7.61	0.19	55.87	0.40	0.44	0.48	-0.31	0.55	-0.03	0.47	-0.14	0.49
C1052273	1.19	0.54	41.03	0.53	10.18	0.17	59.27	0.40	0.88	0.48	0.01	0.58	-0.01	0.51	-0.29	0.52
C1052359	-0.89	0.54	36.57	0.54	9.80	0.19	58.03	0.42	0.98	0.49	0.19	0.56	0.00	0.48	1.11	0.50
C1052362	1.52	0.54	41.79	0.53	8.46	0.17	60.54	0.40	0.59	0.48	0.02	0.58	-0.01	0.51	-0.36	0.52
C1052363	-0.37	0.54	24.60	0.52	7.38	0.17	38.77	0.39	0.03	0.47	0.01	0.57	-0.01	0.49	-0.28	0.51
C1052364	-0.57	0.51	43.07	0.50	9.42	0.17	69.21	0.38	1.12	0.48	-0.21	0.58	-0.03	0.49	-0.17	0.51
C1052365	-0.83	0.52	32.68	0.53	8.57	0.25	57.67	0.42	0.90	0.50	-0.11	0.57	-0.02	0.49	-0.04	0.51
C1052366	-1.67	0.54	28.27	0.53	8.54	0.25	50.05	0.43	0.61	0.50	-0.14	0.59	-0.02	0.51	-0.09	0.53
C1052367	1.04	0.53	43.48	0.51	10.96	0.15	62.18	0.39	0.71	0.48	0.07	0.57	0.00	0.49	-0.25	0.51
C1052368	-0.45	0.51	42.97	0.50	7.95	0.14	66.89	0.38	1.21	0.49	-0.19	0.56	-0.01	0.48	-0.21	0.50
C1052369	-0.30	0.54	41.44	0.53	7.91	0.22	69.54	0.44	1.19	0.49	-0.36	0.59	-0.04	0.52	0.15	0.53
C1052370	-1.02	0.50	28.00	0.51	10.63	0.19	53.16	0.38	0.98	0.47	-0.30	0.57	-0.02	0.49	-0.35	0.51
C1052371	-2.31	0.52	20.43	0.51	5.69	0.17	38.93	0.38	0.42	0.48	-0.06	0.57	0.00	0.49	-0.85	0.50
C1052372	-0.93	0.50	29.15	0.50	9.89	0.19	53.59	0.37	1.07	0.45	-0.29	0.57	-0.02	0.49	-0.61	0.50
C1052373	-0.87	0.52	16.62	0.50	7.94	0.16	36.10	0.38	-0.14	0.45	-0.21	0.57	-0.03	0.48	-0.38	0.50
C1052375	0.69	0.52	47.94	0.51	9.32	0.14	71.20	0.38	1.42	0.49	-0.34	0.55	-0.02	0.47	0.11	0.48
C1052376	3.71	0.52	47.81	0.51	10.63	0.14	69.76	0.38	1.37	0.49	-0.24	0.57	0.01	0.49	0.20	0.51
C1052377	-1.33	0.55	31.28	0.54	10.60	0.25	54.15	0.42	1.10	0.51	-0.35	0.59	-0.03	0.51	-0.31	0.53
C1052378	-1.53	0.54	36.64	0.53	10.77	0.25	63.18	0.42	1.03	0.50	-0.24	0.45	-0.03	0.39	-0.11	0.41
C1052379	-0.92	0.55	38.43	0.54	8.39	0.26	67.30	0.44	1.19	0.52	-0.02	0.59	-0.02	0.52	0.04	0.53
C1052380	-1.85	0.55	30.95	0.54	8.64	0.25	55.71	0.44	0.98	0.52	-0.25	0.59	-0.03	0.52	-0.34	0.53
C1052381	-0.04	0.53	41.61	0.52	11.09	0.16	61.29	0.38	1.04	0.35	-0.03	0.57	-0.02	0.49	-0.28	0.51
C1052382	-0.58	0.53	39.98	0.53	10.86	0.17	58.28	0.40	0.69	0.49	-0.08	0.58	-0.01	0.51	0.01	0.52
C1052383	2.47	0.52	50.11	0.51	10.05	0.14	76.20	0.38	1.55	0.49	-0.17	0.57	0.00	0.49	0.11	0.50
C1052384	-1.15	0.53	35.63	0.53	9.89	0.19	52.87	0.39	0.51	0.49	0.07	0.58	0.00	0.50	-0.07	0.52
C1052385	1.35	0.51	33.79	0.50	12.24	0.16	50.37	0.38	0.35	0.48	0.07	0.55	-0.01	0.47	-0.38	0.49
C1052386	1.77	0.53	38.15	0.53	12.45	0.20	56.90	0.39	0.15	0.50	0.05	0.55	0.00	0.47	0.07	0.49
C1052997	2.68	0.53	21.22	0.50	9.52	0.16	39.15	0.39	0.16	0.33	0.10	0.55	-0.01	0.47	-0.50	0.48
C1052998	0.36	0.55	18.22	0.52	8.26	0.18	39.81	0.39	0.31	0.31	-0.11	0.57	-0.01	0.49	-0.85	0.50
C1052999	0.65	0.54	20.33	0.51	8.00	0.18	42.96	0.38	0.38	0.31	-0.18	0.43	-0.02	0.37	-0.82	0.39
C1053000	1.13	0.54	20.11	0.45	9.48	0.18	42.59	0.37	0.24	0.30	-0.15	0.43	-0.02	0.37	-0.88	0.39
C1053001	0.86	0.55	20.47	0.52	9.06	0.18	42.91	0.39	0.37	0.31	-0.33	0.57	-0.02	0.49	-0.71	0.50
C1053002	0.54	0.55	18.82	0.52	8.18	0.18	41.96	0.39	0.28	0.31	-0.16	0.57	-0.02	0.49	-0.83	0.50
C1053003	2.32	0.53	17.05	0.50	9.09	0.16	34.36	0.40	0.03	0.33	0.23	0.55	-0.01	0.46	-0.52	0.48
C1053004	2.16	0.53	18.78	0.50	8.92	0.17	36.89	0.40	0.22	0.33	-0.12	0.55	-0.01	0.46	-0.55	0.48
C1053005	2.06	0.53	18.03	0.50	9.56	0.16	35.92	0.39	0.04	0.33	-0.11	0.55	-0.01	0.46	-0.55	0.48

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1053006	1.68	0.52	15.18	0.49	8.89	0.16	31.61	0.39	0.00	0.33	-0.02	0.40	-0.01	0.34	-0.48	0.36
C1053007	2.21	0.52	15.18	0.49	8.30	0.17	32.19	0.39	0.05	0.33	-0.07	0.50	-0.01	0.42	-0.49	0.44
C1053008	2.20	0.52	19.84	0.49	9.98	0.16	37.25	0.39	0.25	0.33	0.00	0.50	-0.01	0.42	-0.47	0.44
C1053291	-0.75	0.53	31.71	0.53	11.74	0.19	57.85	0.39	1.03	0.49	0.07	0.58	-0.02	0.50	0.14	0.51
C1053295	-0.45	0.53	37.50	0.52	14.02	0.18	63.36	0.39	0.81	0.49	-0.22	0.58	-0.01	0.50	0.10	0.51
C1053647	-0.38	0.53	27.81	0.51	7.89	0.17	40.89	0.37	0.36	0.35	-0.02	0.44	-0.01	0.39	-0.27	0.41
C1053806	1.10	0.48	18.81	0.49	8.95	0.23	46.09	0.47	0.16	0.41	-0.17	0.47	-0.02	0.42	-0.13	0.44
C1054057	-0.17	0.52	42.10	0.51	9.90	0.16	62.17	0.38	0.96	0.36	-0.01	0.45	-0.01	0.39	-0.07	0.41
C1056472	0.65	0.52	26.33	0.49	8.84	0.32	53.20	0.46	0.41	0.42	-0.12	0.45	0.00	0.40	-0.60	0.42
C1059917	2.34	0.53	24.42	0.49	4.75	0.18	45.54	0.40	0.70	0.34	-0.27	0.55	-0.02	0.47	-0.16	0.49
M10411	-1.12	0.44	33.43	0.45	9.41	0.20	58.20	0.38	0.89	0.35	-0.13	0.38	-0.02	0.33	-0.16	0.35
C1049210	0.80	0.30	23.45	0.30	8.02	0.11	43.04	0.28	0.31	0.25	-0.16	0.28	-0.01	0.22	-0.33	0.24
C1049213	0.61	0.27	13.19	0.28	8.19	0.09	35.74	0.27	-0.16	0.25	-0.13	0.27	0.00	0.21	-0.53	0.23
C1049923	0.36	0.57	20.08	0.54	8.20	0.20	37.56	0.43	0.10	0.38	0.00	0.48	-0.01	0.44	-0.16	0.45
C1051751	0.90	0.53	21.93	0.46	6.51	0.21	43.83	0.42	0.07	0.36	-0.03	0.42	0.00	0.37	-0.54	0.39
C1051752	1.37	0.46	20.95	0.46	10.62	0.30	38.55	0.44	0.33	0.40	-0.28	0.43	-0.01	0.39	-0.37	0.40
C1051753	1.20	0.55	14.64	0.54	8.34	0.33	29.96	0.48	0.00	0.42	-0.29	0.46	-0.01	0.41	-0.69	0.43
C1051754	1.63	0.54	24.57	0.53	3.12	0.26	49.27	0.46	0.26	0.40	-0.04	0.46	0.00	0.41	-0.44	0.43
C1051755	2.39	0.54	34.82	0.53	9.89	0.32	62.52	0.48	0.76	0.41	-0.30	0.44	-0.01	0.40	-0.39	0.42
C1051756	0.52	0.51	19.38	0.45	9.28	0.21	34.97	0.38	0.28	0.32	-0.25	0.37	-0.01	0.31	-0.58	0.33
C1051757	0.55	0.50	19.98	0.44	8.13	0.17	40.01	0.37	0.26	0.31	-0.19	0.35	-0.01	0.29	-0.69	0.31
C1051758	-0.30	0.51	19.46	0.46	6.62	0.19	37.90	0.38	0.26	0.31	-0.04	0.35	0.00	0.29	-0.43	0.32
C1051759	-1.64	0.49	15.57	0.44	5.26	0.15	30.16	0.35	0.25	0.29	-0.03	0.34	-0.01	0.28	-0.54	0.31
C1051760	0.80	0.53	19.96	0.50	11.97	0.22	45.47	0.43	0.15	0.36	0.10	0.44	0.00	0.39	-0.61	0.41
C1052221	1.48	0.42	17.47	0.42	8.54	0.11	36.17	0.36	-0.31	0.32	-0.24	0.39	0.00	0.33	-0.30	0.35
C1052222	0.83	0.41	14.79	0.41	8.65	0.11	30.81	0.36	-0.25	0.32	-0.23	0.39	-0.01	0.34	-0.29	0.35
C1053638	-0.34	0.53	51.23	0.51	6.80	0.14	76.77	0.37	1.55	0.35	-0.11	0.56	0.00	0.49	0.09	0.50
C1053639	-2.47	0.55	42.65	0.54	11.78	0.26	65.96	0.44	1.45	0.40	-0.10	0.56	-0.03	0.49	-0.32	0.51
C1053642	-0.86	0.56	37.75	0.55	10.89	0.26	61.89	0.44	1.05	0.50	-0.21	0.57	-0.02	0.50	-0.40	0.52
C1053643	2.55	0.55	38.43	0.54	9.45	0.19	59.72	0.40	1.04	0.50	-0.07	0.58	0.00	0.51	0.00	0.52
C1053644	2.28	0.55	37.08	0.54	9.38	0.19	59.40	0.41	0.87	0.50	-0.10	0.58	0.00	0.51	0.04	0.52
C1053645	2.45	0.54	41.35	0.53	6.38	0.17	67.52	0.41	1.17	0.49	-0.13	0.57	-0.01	0.49	-0.18	0.51
C1053997	0.43	0.51	26.01	0.49	8.06	0.22	47.84	0.42	0.21	0.36	-0.04	0.42	-0.01	0.38	-0.40	0.39
C1053998	-0.55	0.51	16.23	0.50	9.54	0.26	36.24	0.44	-0.01	0.38	0.07	0.43	-0.01	0.39	-0.76	0.41
C1053999	1.44	0.53	30.46	0.52	14.30	0.31	54.24	0.46	0.61	0.40	-0.26	0.53	-0.02	0.47	-0.61	0.48
C1054001	0.78	0.55	12.09	0.55	3.09	0.34	28.10	0.49	-0.18	0.43	-0.05	0.55	-0.01	0.49	-0.53	0.50
C1054828	0.22	0.56	7.54	0.53	6.08	0.29	17.13	0.45	-0.11	0.40	-0.18	0.55	-0.01	0.49	-0.55	0.50
C1054829	0.04	0.55	15.05	0.52	7.16	0.19	31.09	0.42	0.04	0.37	-0.22	0.55	-0.01	0.48	-0.09	0.49
C1054836	-0.73	0.55	18.95	0.52	8.38	0.15	34.15	0.38	0.44	0.33	-0.22	0.58	0.00	0.50	0.12	0.52
C1054837	-0.68	0.55	13.43	0.52	7.98	0.14	27.41	0.38	0.19	0.33	-0.21	0.58	-0.02	0.50	-0.02	0.52
C1054838	-0.35	0.55	19.32	0.52	8.50	0.14	33.68	0.38	0.35	0.33	-0.20	0.58	-0.01	0.50	0.05	0.52
C1054839	0.99	0.54	36.21	0.51	7.28	0.14	59.43	0.39	0.79	0.32	-0.13	0.57	0.00	0.49	0.42	0.50
C1054840	0.72	0.54	23.85	0.51	7.56	0.14	43.70	0.39	0.36	0.32	-0.02	0.57	-0.01	0.49	0.25	0.50

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
C1054942	2.44	0.55	18.66	0.54	9.01	0.33	35.25	0.48	-0.05	0.42	-0.30	0.46	-0.02	0.41	-0.61	0.43
C1055664	2.38	0.51	34.53	0.50	10.28	0.20	57.47	0.38	0.72	0.47	-0.45	0.55	-0.01	0.47	0.03	0.49
C1055665	0.98	0.50	31.67	0.42	12.35	0.17	46.68	0.34	0.39	0.31	-0.04	0.39	0.00	0.34	-0.25	0.36
C1055666	2.31	0.51	45.25	0.49	8.49	0.13	67.87	0.36	1.42	0.46	-0.14	0.56	0.00	0.48	0.26	0.50
C1055668	1.84	0.49	36.62	0.47	8.26	0.15	56.52	0.35	0.81	0.34	-0.17	0.40	0.01	0.35	-0.06	0.37
C1055669	-0.46	0.53	32.37	0.52	8.00	0.25	57.53	0.43	0.45	0.49	0.12	0.57	-0.01	0.50	-0.10	0.51
C1055670	-1.34	0.48	27.74	0.45	12.10	0.25	49.93	0.38	0.75	0.35	-0.12	0.41	-0.02	0.36	-0.08	0.37
C1055671	2.59	0.52	34.48	0.51	10.91	0.20	55.52	0.38	0.93	0.48	-0.21	0.56	0.01	0.49	-0.24	0.50
C1055672	1.79	0.53	56.23	0.52	7.93	0.17	82.08	0.40	1.43	0.48	-0.18	0.56	0.00	0.49	-0.01	0.50
C1055673	2.03	0.51	32.79	0.51	8.60	0.19	46.60	0.39	0.80	0.48	-0.10	0.54	0.00	0.46	-0.04	0.48
C1055674	2.15	0.50	38.68	0.51	10.54	0.18	61.69	0.37	1.13	0.47	-0.24	0.56	0.00	0.48	0.19	0.50
C1055676	-0.41	0.51	28.11	0.51	10.09	0.16	48.95	0.38	0.48	0.48	-0.22	0.56	0.00	0.49	-0.10	0.50
C1055792	-0.76	0.55	49.71	0.55	6.65	0.24	89.10	0.52	1.34	0.47	-0.16	0.46	0.00	0.41	-0.29	0.43
C1055793	-0.59	0.55	47.66	0.55	6.43	0.24	89.92	0.52	1.31	0.47	-0.18	0.46	0.00	0.41	-0.30	0.43
C1055794	-0.81	0.55	46.93	0.54	7.32	0.24	86.85	0.48	1.26	0.40	-0.19	0.46	-0.01	0.41	-0.21	0.43
C1055821	2.06	0.55	20.16	0.54	8.37	0.33	36.73	0.48	-0.01	0.42	-0.24	0.46	-0.01	0.41	-0.61	0.43
C1055822	1.26	0.50	19.14	0.45	7.70	0.18	36.13	0.37	0.14	0.32	-0.08	0.35	0.00	0.29	-0.70	0.31
C1055842	2.08	0.46	19.96	0.46	12.77	0.33	41.33	0.45	0.24	0.40	-0.38	0.43	-0.01	0.39	-0.38	0.40
C1056162	1.30	0.51	14.37	0.47	8.42	0.20	32.67	0.39	-0.04	0.33	-0.21	0.39	-0.01	0.33	-0.55	0.35
C1056176	1.17	0.39	29.67	0.47	12.29	0.17	51.38	0.38	0.39	0.34	0.13	0.49	0.00	0.41	0.27	0.43
C1056177	0.55	0.32	25.19	0.44	11.14	0.14	46.82	0.36	0.35	0.31	-0.15	0.47	-0.01	0.39	-0.05	0.41
C1056225	1.24	0.54	27.30	0.53	6.00	0.22	45.58	0.42	0.71	0.36	-0.39	0.58	-0.02	0.51	-0.14	0.53
C1056227	0.90	0.57	18.87	0.51	9.12	0.24	39.53	0.46	0.04	0.41	0.07	0.58	0.00	0.52	-0.24	0.53
C1056229	0.47	0.53	28.49	0.45	10.45	0.16	47.68	0.38	0.60	0.32	-0.10	0.55	-0.01	0.48	0.10	0.49
C1056235	0.43	0.53	28.49	0.51	9.43	0.16	45.73	0.38	0.40	0.34	-0.08	0.57	0.00	0.50	0.16	0.51
C1056237	1.43	0.54	18.84	0.52	4.83	0.18	35.22	0.41	0.54	0.34	-0.27	0.58	-0.02	0.50	-0.34	0.52
C1056265	0.60	0.57	20.06	0.51	9.02	0.24	38.86	0.46	0.00	0.41	-0.06	0.58	-0.01	0.52	-0.39	0.53
C1056469	1.16	0.56	28.75	0.56	11.01	0.34	50.25	0.49	0.63	0.42	-0.23	0.47	-0.01	0.43	-0.44	0.44
C1056910	1.43	0.46	30.03	0.47	10.02	0.29	44.24	0.44	0.48	0.40	-0.04	0.44	-0.01	0.40	0.03	0.41
C1057911	1.37	0.34	18.60	0.35	9.62	0.13	38.78	0.32	0.02	0.28	-0.09	0.31	0.00	0.24	-0.60	0.27
C1057913	0.84	0.33	23.85	0.35	9.18	0.13	46.99	0.33	0.21	0.29	-0.14	0.30	0.00	0.24	-0.39	0.27
C1058217	-0.62	0.41	9.65	0.41	9.77	0.17	26.47	0.36	-0.15	0.31	-0.08	0.39	-0.01	0.33	-0.76	0.35
C1058724	0.69	0.54	21.11	0.49	7.85	0.21	44.62	0.47	0.05	0.37	-0.14	0.36	0.00	0.30	-0.40	0.33
C1058725	1.08	0.47	26.33	0.38	7.15	0.14	53.42	0.37	0.45	0.30	-0.06	0.32	0.00	0.26	-0.29	0.29
C1060287	0.25	0.57	19.34	0.51	8.91	0.23	37.24	0.46	0.33	0.40	-0.04	0.49	0.00	0.45	-0.22	0.46
C1060296	-0.28	0.54	35.88	0.49	7.17	0.17	58.61	0.40	0.77	0.34	-0.19	0.52	0.00	0.45	-0.01	0.47
M10415	-0.62	0.40	34.76	0.40	8.11	0.12	59.26	0.31	0.91	0.31	-0.13	0.35	-0.01	0.29	-0.27	0.31
M10416	-0.45	0.46	28.82	0.44	8.58	0.09	49.78	0.33	0.72	0.38	0.00	0.48	0.00	0.39	0.19	0.41
M10417	-0.20	0.44	27.24	0.43	9.31	0.11	49.87	0.33	0.71	0.39	-0.14	0.46	-0.01	0.37	0.11	0.39
M10418	3.22	0.46	27.72	0.44	8.62	0.14	50.71	0.34	0.53	0.30	-0.17	0.33	-0.01	0.27	0.01	0.29
P186374	1.25	0.43	27.44	0.44	7.29	0.19	49.44	0.41	0.39	0.35	-0.04	0.43	0.00	0.38	-0.15	0.40
P186377	1.28	0.50	18.77	0.41	3.71	0.19	36.32	0.38	0.02	0.32	-0.05	0.39	0.00	0.33	-0.67	0.35
P187031	-0.98	0.26	9.12	0.43	7.08	0.09	25.37	0.30	0.00	0.25	-0.04	0.52	0.00	0.43	-0.21	0.45

regnum	bwepd	bwacc	wwepd	wwacc	ywepd	ywacc	milkepd	milkacc	scepd	scacc	reaepd	reaacc	marbepd	marbacc	fatepd	fatacc
P187032	-0.80	0.33	25.82	0.49	9.67	0.14	45.83	0.34	0.58	0.28	-0.04	0.56	-0.01	0.47	0.24	0.49
P187033	-0.95	0.28	17.07	0.47	8.47	0.09	36.05	0.32	0.17	0.27	-0.01	0.57	0.00	0.48	0.07	0.50
P187034	1.45	0.30	30.99	0.47	10.53	0.11	52.72	0.34	0.56	0.28	-0.01	0.56	-0.01	0.47	0.32	0.49
P187035	0.03	0.32	23.70	0.48	7.20	0.12	46.75	0.33	0.51	0.26	0.02	0.55	-0.01	0.46	0.13	0.48
P187036	0.31	0.32	29.79	0.48	10.20	0.11	51.45	0.34	0.57	0.27	0.03	0.57	0.00	0.49	-0.05	0.50
P187037	0.66	0.32	30.82	0.47	12.61	0.10	53.97	0.33	0.67	0.27	0.03	0.56	0.00	0.47	-0.09	0.49
P187038	0.97	0.31	29.49	0.47	12.10	0.08	48.95	0.32	0.60	0.26	-0.09	0.57	-0.01	0.48	0.19	0.50
P187039	-0.27	0.28	27.54	0.47	10.43	0.10	48.20	0.33	0.54	0.27	-0.07	0.57	0.00	0.48	0.01	0.50
P187040	-0.79	0.30	22.83	0.46	7.78	0.09	43.54	0.33	0.53	0.26	0.11	0.55	-0.01	0.46	0.28	0.48
P187041	0.41	0.32	26.07	0.48	12.03	0.09	47.61	0.32	0.43	0.27	-0.05	0.57	0.00	0.49	-0.02	0.50
P187042	0.33	0.32	11.82	0.42	10.09	0.16	29.46	0.34	0.00	0.31	0.00	0.32	-0.01	0.26	-0.14	0.29
P187043	-1.73	0.29	12.88	0.47	9.73	0.08	31.06	0.34	0.21	0.26	0.09	0.57	0.00	0.47	0.22	0.49
P187044	0.48	0.27	25.78	0.43	9.92	0.10	44.05	0.31	0.47	0.25	-0.05	0.52	0.00	0.43	0.07	0.45
P187045	-0.75	0.28	16.57	0.47	7.93	0.10	36.34	0.32	0.22	0.27	0.10	0.57	0.00	0.48	-0.08	0.50
C1060604	0.61	0.39	25.07	0.39	8.43	0.12	42.45	0.33	0.45	0.31	-0.18	0.39	-0.01	0.34	0.07	0.36
C1062137	1.35	0.32	26.53	0.33	9.56	0.12	49.22	0.31	0.44	0.29	-0.06	0.34	0.00	0.27	-0.46	0.29