

***RIL - Yield check contrasts for all genotypes and phenotype combinations
with relevant summary statistics.***

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
Test 1	Maturity Date	LMN09-119 - Checks	-3.81	0.82	34.94	-4.65	0.00
		N09-09 - Checks	-1.06	0.82	34.94	-1.30	0.98
		N18-1572 - Checks	-4.22	0.82	34.94	-5.15	0.00
		N18-1595 - Checks	-3.81	0.82	34.94	-4.65	0.00
		N18-1604 - Checks	-2.93	0.82	34.94	-3.57	0.02
		N18-1620 - Checks	-2.65	0.82	34.94	-3.24	0.04
		N18-1632-1 - Checks	-2.40	0.82	34.94	-2.93	0.10
		N18-1632-2 - Checks	-2.81	0.82	34.94	-3.43	0.03
		N18-1635 - Checks	-1.51	0.86	43.07	-1.77	0.78
		N18-1641 - Checks	-0.69	0.82	34.94	-0.84	1.00
		N18-1674 - Checks	-2.51	0.82	34.94	-3.06	0.07
		N18-1682 - Checks	-2.95	0.82	34.94	-3.60	0.02
		N18-1731 - Checks	-3.00	0.82	34.94	-3.66	0.01
		N18-1751 - Checks	-3.23	0.82	34.94	-3.94	0.01
		N18-1763 - Checks	-2.98	0.82	34.94	-3.64	0.01
		N18-1855 - Checks	-1.38	0.82	34.94	-1.68	0.84
	N18-1956 - Checks	0.81	0.86	43.07	0.94	1.00	
	Height (inches)	LMN09-119 - Checks	3.55	1.67	37.37	2.12	0.50
		N09-09 - Checks	4.46	1.67	37.37	2.67	0.17
		N18-1572 - Checks	3.79	1.67	37.37	2.27	0.40
		N18-1595 - Checks	0.59	1.67	37.37	0.35	1.00
		N18-1604 - Checks	1.04	1.67	37.37	0.63	1.00
		N18-1620 - Checks	0.10	1.67	37.37	0.06	1.00
		N18-1632-1 - Checks	3.37	1.67	37.37	2.02	0.59
		N18-1632-2 - Checks	2.37	1.67	37.37	1.42	0.95
		N18-1635 - Checks	1.58	1.67	37.37	0.95	1.00
N18-1641 - Checks		0.10	1.67	37.37	0.06	1.00	
N18-1674 - Checks	4.40	1.67	37.37	2.63	0.19		
N18-1682 - Checks	2.52	1.67	37.37	1.51	0.92		

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1731 - Checks	4.77	1.67	37.37	2.86	0.11
		N18-1751 - Checks	-1.74	1.67	37.37	-1.04	1.00
		N18-1763 - Checks	2.67	1.67	37.37	1.60	0.88
		N18-1855 - Checks	2.45	1.67	37.37	1.47	0.94
		N18-1956 - Checks	7.56	1.67	37.37	4.52	0.00
	Lodging	LMN09-119 - Checks	0.00	0.22	38.00	0.00	1.00
		N09-09 - Checks	-0.42	0.22	38.00	-1.91	0.67
		N18-1572 - Checks	-0.17	0.22	38.00	-0.77	1.00
		N18-1595 - Checks	0.42	0.22	38.00	1.91	0.67
		N18-1604 - Checks	0.83	0.22	38.00	3.83	0.01
		N18-1620 - Checks	-0.50	0.22	38.00	-2.30	0.38
		N18-1632-1 - Checks	-0.50	0.22	38.00	-2.30	0.38
		N18-1632-2 - Checks	-0.33	0.22	38.00	-1.53	0.91
		N18-1635 - Checks	0.42	0.22	38.00	1.91	0.67
		N18-1641 - Checks	0.58	0.22	38.00	2.68	0.17
		N18-1674 - Checks	0.50	0.22	38.00	2.30	0.38
		N18-1682 - Checks	-0.17	0.22	38.00	-0.77	1.00
		N18-1731 - Checks	0.25	0.22	38.00	1.15	0.99
		N18-1751 - Checks	-0.17	0.22	38.00	-0.77	1.00
		N18-1763 - Checks	0.25	0.22	38.00	1.15	0.99
	N18-1855 - Checks	-0.17	0.22	38.00	-0.77	1.00	
	N18-1956 - Checks	0.58	0.22	38.00	2.68	0.17	
	Oil (% dry basis)	LMN09-119 - Checks	-4.23	0.34	38.00	-12.59	0.00
		N09-09 - Checks	-2.90	0.34	38.00	-8.64	0.00
		N18-1572 - Checks	-1.19	0.34	38.00	-3.55	0.02
		N18-1595 - Checks	-2.97	0.34	38.00	-8.83	0.00
		N18-1604 - Checks	-1.13	0.34	38.00	-3.37	0.03
		N18-1620 - Checks	-0.85	0.34	38.00	-2.53	0.23
		N18-1632-1 - Checks	-1.76	0.34	38.00	-5.25	0.00
		N18-1632-2 - Checks	-1.54	0.34	38.00	-4.60	0.00
N18-1635 - Checks		-0.74	0.34	38.00	-2.20	0.44	
N18-1641 - Checks		-1.07	0.34	38.00	-3.18	0.05	

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1674 - Checks	-1.17	0.34	38.00	-3.48	0.02
		N18-1682 - Checks	-1.43	0.34	38.00	-4.25	0.00
		N18-1731 - Checks	-2.07	0.34	38.00	-6.16	0.00
		N18-1751 - Checks	-2.07	0.34	38.00	-6.16	0.00
		N18-1763 - Checks	-2.73	0.34	38.00	-8.13	0.00
		N18-1855 - Checks	-1.90	0.34	38.00	-5.65	0.00
		N18-1956 - Checks	-1.04	0.34	38.00	-3.11	0.06
	Protein (% dry basis)	LMN09-119 - Checks	10.10	0.48	38.00	20.84	0.00
		N09-09 - Checks	5.69	0.48	38.00	11.74	0.00
		N18-1572 - Checks	4.41	0.48	38.00	9.10	0.00
		N18-1595 - Checks	6.47	0.48	38.00	13.35	0.00
		N18-1604 - Checks	2.97	0.48	38.00	6.13	0.00
		N18-1620 - Checks	2.38	0.48	38.00	4.92	0.00
		N18-1632-1 - Checks	5.93	0.48	38.00	12.24	0.00
		N18-1632-2 - Checks	5.59	0.48	38.00	11.54	0.00
		N18-1635 - Checks	2.76	0.48	38.00	5.71	0.00
		N18-1641 - Checks	2.37	0.48	38.00	4.88	0.00
		N18-1674 - Checks	4.16	0.48	38.00	8.60	0.00
		N18-1682 - Checks	4.15	0.48	38.00	8.56	0.00
		N18-1731 - Checks	5.19	0.48	38.00	10.71	0.00
		N18-1751 - Checks	3.84	0.48	38.00	7.93	0.00
		N18-1763 - Checks	6.54	0.48	38.00	13.50	0.00
		N18-1855 - Checks	6.62	0.48	38.00	13.67	0.00
		N18-1956 - Checks	3.63	0.48	38.00	7.50	0.00
	Yield (kg/ha)	LMN09-119 - Checks	-381.92	168.17	38.00	-2.27	0.39
		N09-09 - Checks	-318.57	168.17	38.00	-1.89	0.69
		N18-1572 - Checks	-300.20	168.17	38.00	-1.79	0.77
		N18-1595 - Checks	49.78	168.17	38.00	0.30	1.00
N18-1604 - Checks		51.20	168.17	38.00	0.30	1.00	
N18-1620 - Checks		283.29	168.17	38.00	1.68	0.83	
N18-1632-1 - Checks		130.70	168.17	38.00	0.78	1.00	
N18-1632-2 - Checks		205.12	168.17	38.00	1.22	0.99	

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1635 - Checks	-20.87	168.17	38.00	-0.12	1.00
		N18-1641 - Checks	-113.40	168.17	38.00	-0.67	1.00
		N18-1674 - Checks	-47.25	168.17	38.00	-0.28	1.00
		N18-1682 - Checks	163.63	168.17	38.00	0.97	1.00
		N18-1731 - Checks	-102.78	168.17	38.00	-0.61	1.00
		N18-1751 - Checks	-22.34	168.17	38.00	-0.13	1.00
		N18-1763 - Checks	-328.02	168.17	38.00	-1.95	0.64
		N18-1855 - Checks	-324.77	168.17	38.00	-1.93	0.66
		N18-1956 - Checks	-805.33	168.17	38.00	-4.79	0.00
	Seed Weight (grams)	LMN09-119 - Checks	2.30	0.42	38.00	5.45	0.00
		N09-09 - Checks	0.58	0.42	38.00	1.37	0.96
		N18-1572 - Checks	1.40	0.42	38.00	3.32	0.03
		N18-1595 - Checks	0.21	0.42	38.00	0.50	1.00
		N18-1604 - Checks	0.58	0.42	38.00	1.37	0.96
		N18-1620 - Checks	-0.30	0.42	38.00	-0.71	1.00
		N18-1632-1 - Checks	0.58	0.42	38.00	1.37	0.96
		N18-1632-2 - Checks	0.50	0.42	38.00	1.18	0.99
		N18-1635 - Checks	0.69	0.42	38.00	1.63	0.86
		N18-1641 - Checks	-0.09	0.42	38.00	-0.21	1.00
		N18-1674 - Checks	0.48	0.42	38.00	1.13	0.99
		N18-1682 - Checks	-0.04	0.42	38.00	-0.11	1.00
		N18-1731 - Checks	2.58	0.42	38.00	6.11	0.00
		N18-1751 - Checks	0.61	0.42	38.00	1.45	0.94
		N18-1763 - Checks	-0.68	0.42	38.00	-1.61	0.88
		N18-1855 - Checks	2.34	0.42	38.00	5.56	0.00
		N18-1956 - Checks	0.92	0.42	38.00	2.19	0.46
		Seed Quality	LMN09-119 - Checks	-0.10	0.14	35.93	-0.71
	N09-09 - Checks		-0.15	0.14	35.93	-1.06	1.00
	N18-1572 - Checks		-0.08	0.14	35.93	-0.54	1.00
	N18-1595 - Checks		0.02	0.14	35.93	0.17	1.00
	N18-1604 - Checks		0.00	0.14	35.93	0.00	1.00
	N18-1620 - Checks		-0.03	0.14	35.93	-0.19	1.00

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1632-1 - Checks	0.02	0.14	35.93	0.17	1.00
		N18-1632-2 - Checks	-0.03	0.14	35.93	-0.19	1.00
		N18-1635 - Checks	-0.08	0.14	35.93	-0.52	1.00
		N18-1641 - Checks	0.12	0.14	35.93	0.87	1.00
		N18-1674 - Checks	-0.15	0.14	35.93	-1.06	1.00
		N18-1682 - Checks	0.02	0.14	35.93	0.17	1.00
		N18-1731 - Checks	0.07	0.14	35.93	0.52	1.00
		N18-1751 - Checks	0.02	0.14	35.93	0.17	1.00
		N18-1763 - Checks	-0.08	0.14	35.93	-0.54	1.00
		N18-1855 - Checks	0.20	0.14	35.93	1.39	0.96
		N18-1956 - Checks	0.30	0.14	35.93	2.10	0.52
	Protein + Oil (% dry basis)	LMN09-119 - Checks	5.86	0.32	38.00	18.14	0.00
		N09-09 - Checks	2.78	0.32	38.00	8.60	0.00
		N18-1572 - Checks	3.21	0.32	38.00	9.93	0.00
		N18-1595 - Checks	3.50	0.32	38.00	10.82	0.00
		N18-1604 - Checks	1.84	0.32	38.00	5.68	0.00
		N18-1620 - Checks	1.53	0.32	38.00	4.74	0.00
		N18-1632-1 - Checks	4.16	0.32	38.00	12.88	0.00
		N18-1632-2 - Checks	4.05	0.32	38.00	12.52	0.00
		N18-1635 - Checks	2.02	0.32	38.00	6.26	0.00
		N18-1641 - Checks	1.30	0.32	38.00	4.01	0.00
		N18-1674 - Checks	2.99	0.32	38.00	9.26	0.00
		N18-1682 - Checks	2.72	0.32	38.00	8.40	0.00
		N18-1731 - Checks	3.12	0.32	38.00	9.65	0.00
		N18-1751 - Checks	1.77	0.32	38.00	5.48	0.00
		N18-1763 - Checks	3.80	0.32	38.00	11.77	0.00
		N18-1855 - Checks	4.72	0.32	38.00	14.62	0.00
		N18-1956 - Checks	2.59	0.32	38.00	8.01	0.00
		Meal Protein	LMN09-119 - Checks	9.29	0.45	38.00	20.81
	N09-09 - Checks		5.04	0.45	38.00	11.29	0.00
	N18-1572 - Checks		4.52	0.45	38.00	10.11	0.00
	N18-1595 - Checks		5.90	0.45	38.00	13.21	0.00

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1604 - Checks	2.88	0.45	38.00	6.45	0.00
		N18-1620 - Checks	2.35	0.45	38.00	5.27	0.00
		N18-1632-1 - Checks	5.97	0.45	38.00	13.37	0.00
		N18-1632-2 - Checks	5.70	0.45	38.00	12.77	0.00
		N18-1635 - Checks	2.85	0.45	38.00	6.38	0.00
		N18-1641 - Checks	2.21	0.45	38.00	4.95	0.00
		N18-1674 - Checks	4.26	0.45	38.00	9.54	0.00
		N18-1682 - Checks	4.09	0.45	38.00	9.17	0.00
		N18-1731 - Checks	4.94	0.45	38.00	11.06	0.00
		N18-1751 - Checks	3.38	0.45	38.00	7.57	0.00
		N18-1763 - Checks	6.12	0.45	38.00	13.69	0.00
		N18-1855 - Checks	6.69	0.45	38.00	14.99	0.00
		N18-1956 - Checks	3.69	0.45	38.00	8.26	0.00
		Test 2	Maturity Date	N09-09 - Checks	2.77	1.28	37.42
N18-1575 - Checks	2.01			1.28	37.42	1.57	0.88
N18-1577 - Checks	1.94			1.28	37.42	1.52	0.91
N18-1579 - Checks	0.36			1.28	37.42	0.28	1.00
N18-1586 - Checks	1.35			1.28	37.42	1.06	1.00
N18-1615 - Checks	1.60			1.28	37.42	1.25	0.98
N18-1627 - Checks	-0.05			1.28	37.42	-0.04	1.00
N18-1628 - Checks	4.66			1.28	37.42	3.64	0.01
N18-1643 - Checks	2.70			1.28	37.42	2.11	0.49
N18-1659 - Checks	1.04			1.28	37.42	0.81	1.00
N18-1661 - Checks	1.04			1.28	37.42	0.81	1.00
N18-1761 - Checks	-0.92			1.28	37.42	-0.72	1.00
N18-1769 - Checks	-1.01			1.28	37.42	-0.79	1.00
N18-1783 - Checks	0.58			1.28	37.42	0.45	1.00
N18-1796 - Checks	1.32			1.28	37.42	1.03	1.00
N18-1820 - Checks	1.51			1.28	37.42	1.18	0.99
Height (inches)	N09-09 - Checks		3.94	1.55	37.35	2.55	0.22
	N18-1575 - Checks		1.44	1.55	37.35	0.93	1.00
	N18-1577 - Checks		2.06	1.55	37.35	1.33	0.97

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1579 - Checks	1.70	1.55	37.35	1.10	0.99
		N18-1586 - Checks	0.15	1.55	37.35	0.10	1.00
		N18-1615 - Checks	1.50	1.55	37.35	0.97	1.00
		N18-1627 - Checks	2.86	1.55	37.35	1.85	0.70
		N18-1628 - Checks	5.09	1.55	37.35	3.29	0.03
		N18-1643 - Checks	0.27	1.59	40.25	0.17	1.00
		N18-1659 - Checks	2.63	1.55	37.35	1.70	0.81
		N18-1661 - Checks	4.93	1.55	37.35	3.18	0.05
		N18-1761 - Checks	-0.13	1.55	37.35	-0.08	1.00
		N18-1769 - Checks	-1.75	1.55	37.35	-1.13	0.99
		N18-1783 - Checks	3.19	1.55	37.35	2.06	0.53
		N18-1796 - Checks	3.81	1.55	37.35	2.47	0.26
		N18-1820 - Checks	1.57	1.55	37.35	1.01	1.00
		Lodging	N09-09 - Checks	0.46	0.26	37.16	1.77
	N18-1575 - Checks		0.51	0.26	37.16	1.95	0.62
	N18-1577 - Checks		0.87	0.26	37.16	3.34	0.03
	N18-1579 - Checks		0.63	0.26	37.16	2.43	0.28
	N18-1586 - Checks		0.44	0.26	37.16	1.71	0.80
	N18-1615 - Checks		0.39	0.26	37.16	1.52	0.90
	N18-1627 - Checks		0.18	0.26	37.16	0.68	1.00
	N18-1628 - Checks		1.19	0.26	37.16	4.61	0.00
	N18-1643 - Checks		0.32	0.26	37.16	1.22	0.98
	N18-1659 - Checks		0.43	0.26	37.16	1.66	0.83
	N18-1661 - Checks		0.96	0.26	37.16	3.71	0.01
	N18-1761 - Checks		0.16	0.26	37.16	0.62	1.00
	N18-1769 - Checks		0.10	0.26	37.16	0.38	1.00
	N18-1783 - Checks		0.51	0.26	37.16	1.95	0.62
	N18-1796 - Checks	0.90	0.26	37.16	3.46	0.02	
	N18-1820 - Checks	0.49	0.26	37.16	1.90	0.66	
	Oil (% dry basis)	N09-09 - Checks	-1.29	0.26	37.87	-5.03	0.00
		N18-1575 - Checks	-0.81	0.26	37.87	-3.18	0.05
		N18-1577 - Checks	-1.68	0.26	37.87	-6.57	0.00

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1579 - Checks	0.20	0.26	37.87	0.79	1.00
		N18-1586 - Checks	-0.68	0.26	37.87	-2.64	0.17
		N18-1615 - Checks	0.40	0.26	37.87	1.57	0.88
		N18-1627 - Checks	-0.71	0.26	37.87	-2.79	0.12
		N18-1628 - Checks	-1.84	0.26	37.87	-7.18	0.00
		N18-1643 - Checks	0.30	0.26	37.87	1.18	0.99
		N18-1659 - Checks	-1.41	0.26	37.87	-5.51	0.00
		N18-1661 - Checks	0.04	0.26	37.87	0.17	1.00
		N18-1761 - Checks	-1.82	0.26	37.87	-7.11	0.00
		N18-1769 - Checks	-1.57	0.26	37.87	-6.11	0.00
		N18-1783 - Checks	-0.55	0.26	37.87	-2.14	0.47
		N18-1796 - Checks	-1.15	0.26	37.87	-4.50	0.00
		N18-1820 - Checks	0.55	0.26	37.87	2.13	0.48
		Protein (% dry basis)	N09-09 - Checks	3.27	0.46	37.88	7.10
	N18-1575 - Checks		5.76	0.46	37.88	12.53	0.00
	N18-1577 - Checks		6.11	0.46	37.88	13.28	0.00
	N18-1579 - Checks		0.69	0.46	37.88	1.51	0.91
	N18-1586 - Checks		3.15	0.46	37.88	6.86	0.00
	N18-1615 - Checks		0.74	0.46	37.88	1.61	0.86
	N18-1627 - Checks		3.14	0.46	37.88	6.82	0.00
	N18-1628 - Checks		6.78	0.46	37.88	14.75	0.00
	N18-1643 - Checks		1.43	0.46	37.88	3.12	0.05
	N18-1659 - Checks		5.22	0.46	37.88	11.36	0.00
	N18-1661 - Checks		0.96	0.46	37.88	2.10	0.50
	N18-1761 - Checks		6.58	0.46	37.88	14.31	0.00
	N18-1769 - Checks		5.72	0.46	37.88	12.45	0.00
	N18-1783 - Checks		3.88	0.46	37.88	8.43	0.00
	N18-1796 - Checks	4.68	0.46	37.88	10.18	0.00	
	N18-1820 - Checks	0.54	0.46	37.88	1.18	0.99	
	Yield (kg/ha)	N09-09 - Checks	101.32	194.43	38.00	0.52	1.00
		N18-1575 - Checks	-157.08	194.43	38.00	-0.81	1.00
		N18-1577 - Checks	164.27	194.43	38.00	0.84	1.00

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1579 - Checks	292.57	194.43	38.00	1.50	0.91
		N18-1586 - Checks	281.69	194.43	38.00	1.45	0.93
		N18-1615 - Checks	463.66	194.43	38.00	2.38	0.30
		N18-1627 - Checks	271.09	194.43	38.00	1.39	0.95
		N18-1628 - Checks	-557.45	194.43	38.00	-2.87	0.10
		N18-1643 - Checks	-192.04	194.43	38.00	-0.99	1.00
		N18-1659 - Checks	12.34	194.43	38.00	0.06	1.00
		N18-1661 - Checks	217.42	194.43	38.00	1.12	0.99
		N18-1761 - Checks	207.98	194.43	38.00	1.07	1.00
		N18-1769 - Checks	-263.53	194.43	38.00	-1.36	0.96
		N18-1783 - Checks	-472.74	194.43	38.00	-2.43	0.27
		N18-1796 - Checks	322.11	194.43	38.00	1.66	0.83
		N18-1820 - Checks	286.93	194.43	38.00	1.48	0.92
		Seed Weight (grams)	N09-09 - Checks	2.19	0.60	38.00	3.64
	N18-1575 - Checks		2.71	0.60	38.00	4.51	0.00
	N18-1577 - Checks		0.95	0.60	38.00	1.57	0.88
	N18-1579 - Checks		0.07	0.60	38.00	0.12	1.00
	N18-1586 - Checks		-0.82	0.60	38.00	-1.36	0.96
	N18-1615 - Checks		1.48	0.60	38.00	2.46	0.26
	N18-1627 - Checks		2.56	0.60	38.00	4.25	0.00
	N18-1628 - Checks		-0.02	0.60	38.00	-0.03	1.00
	N18-1643 - Checks		0.46	0.60	38.00	0.76	1.00
	N18-1659 - Checks		-0.53	0.60	38.00	-0.88	1.00
	N18-1661 - Checks		-0.39	0.60	38.00	-0.64	1.00
	N18-1761 - Checks		0.82	0.60	38.00	1.37	0.96
	N18-1769 - Checks		1.29	0.60	38.00	2.15	0.46
	N18-1783 - Checks		0.55	0.60	38.00	0.91	1.00
	N18-1796 - Checks	-0.96	0.60	38.00	-1.60	0.86	
	N18-1820 - Checks	1.38	0.60	38.00	2.30	0.36	
	Seed Quality	N09-09 - Checks	0.07	0.14	33.57	0.51	1.00
		N18-1575 - Checks	-0.18	0.14	33.57	-1.26	0.98
		N18-1577 - Checks	-0.02	0.14	33.57	-0.12	1.00

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1579 - Checks	-0.07	0.14	33.57	-0.50	1.00
		N18-1586 - Checks	-0.14	0.14	33.57	-1.01	1.00
		N18-1615 - Checks	-0.25	0.14	33.57	-1.78	0.76
		N18-1627 - Checks	-0.07	0.14	33.57	-0.50	1.00
		N18-1628 - Checks	0.29	0.14	33.57	2.04	0.55
		N18-1643 - Checks	0.02	0.15	36.04	0.16	1.00
		N18-1659 - Checks	0.04	0.14	33.57	0.26	1.00
		N18-1661 - Checks	0.21	0.14	33.57	1.53	0.90
		N18-1761 - Checks	-0.05	0.14	33.57	-0.38	1.00
		N18-1769 - Checks	0.18	0.14	33.57	1.28	0.98
		N18-1783 - Checks	0.07	0.14	33.57	0.52	1.00
		N18-1796 - Checks	-0.21	0.14	33.57	-1.52	0.91
		N18-1820 - Checks	0.04	0.14	33.57	0.26	1.00
		Protein + Oil (% dry basis)	N09-09 - Checks	1.98	0.36	37.93	5.53
	N18-1575 - Checks		4.95	0.36	37.93	13.84	0.00
	N18-1577 - Checks		4.42	0.36	37.93	12.37	0.00
	N18-1579 - Checks		0.90	0.36	37.93	2.51	0.23
	N18-1586 - Checks		2.47	0.36	37.93	6.92	0.00
	N18-1615 - Checks		1.14	0.36	37.93	3.19	0.04
	N18-1627 - Checks		2.42	0.36	37.93	6.78	0.00
	N18-1628 - Checks		4.94	0.36	37.93	13.82	0.00
	N18-1643 - Checks		1.74	0.36	37.93	4.86	0.00
	N18-1659 - Checks		3.81	0.36	37.93	10.66	0.00
	N18-1661 - Checks		1.01	0.36	37.93	2.82	0.12
	N18-1761 - Checks		4.76	0.36	37.93	13.31	0.00
	N18-1769 - Checks		4.16	0.36	37.93	11.63	0.00
	N18-1783 - Checks		3.33	0.36	37.93	9.31	0.00
	N18-1796 - Checks	3.53	0.36	37.93	9.86	0.00	
	N18-1820 - Checks	1.09	0.36	37.93	3.04	0.07	
	Meal Protein	N09-09 - Checks	3.09	0.47	37.91	6.58	0.00
		N18-1575 - Checks	6.24	0.47	37.91	13.28	0.00
		N18-1577 - Checks	6.12	0.47	37.91	13.03	0.00

Test name ^a	pheno ^b	contrast ^c	estimate ^d	SE ^e	df ^f	t.ratio	p.value
		N18-1579 - Checks	0.93	0.47	37.91	1.97	0.60
		N18-1586 - Checks	3.30	0.47	37.91	7.03	0.00
		N18-1615 - Checks	1.09	0.47	37.91	2.32	0.34
		N18-1627 - Checks	3.25	0.47	37.91	6.93	0.00
		N18-1628 - Checks	6.81	0.47	37.91	14.49	0.00
		N18-1643 - Checks	1.85	0.47	37.91	3.93	0.01
		N18-1659 - Checks	5.27	0.47	37.91	11.21	0.00
		N18-1661 - Checks	1.16	0.47	37.91	2.46	0.26
		N18-1761 - Checks	6.58	0.47	37.91	14.02	0.00
		N18-1769 - Checks	5.75	0.47	37.91	12.24	0.00
		N18-1783 - Checks	4.22	0.47	37.91	8.97	0.00
		N18-1796 - Checks	4.79	0.47	37.91	10.19	0.00
		N18-1820 - Checks	0.93	0.47	37.91	1.98	0.60

^aThe test which a RIL and it's associated checks belong to.

^bThe phenotype .

^cThe contrast label in the form RIL name - Checks.

^dThe estimated difference between the RIL and the check average.

^eThe standard error on the estimation of the contrast.

^fDegrees of freedom.