

Trial Design

Block I

N100 S15

LR	PD	UR	KE	Sat	Dai	MP	LC	Ver	RB	Var	Her	Har
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N200 S15

Dai	Her	LC	KE	Har	Ver	Var	UR	RB	PD	MP	Sat	LR
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N100 S40

Var	KE	Sat	RB	UR	LC	Har	Her	Dai	Ver	PD	MP	LR
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N200 S0

LC	UR	Dai	KE	RB	Ver	PD	Har	Her	Var	LR	MP	Sat
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N100 S0

UR	Dai	LR	RB	MP	Her	Ver	PD	KE	LC	Var	Har	Sat
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N200 S40

LR	Var	Her	Ver	LC	KE	UR	Dai	RB	MP	Har	PD	Sat
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N0 S40

Ver	MP	Sat	UR	PD	Dai	Her	RB	LC	KE	LR	Var	Har
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N0 S15

LR	PD	Dai	Ver	MP	Sat	Her	UR	Var	Har	RB	LC	KE
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N0 S0

Her	UR	Ver	PD	RB	LC	MP	Sat	Har	KE	Var	LR	Dai
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Block II

N0 S40

RB	PD	Sat	UR	LC	Her	KE	LR	Dai	Har	Ver	MP	Var
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N200 S40

LR	Har	Her	MP	Dai	KE	UR	Var	Sat	LC	PD	RB	Ver
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N0 S0

Ver	UR	Dai	Har	KE	PD	LR	Sat	Var	MP	Her	RB	LC
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N0 S15

Dai	MP	Her	LR	PD	RB	Var	Ver	Sat	UR	Har	LC	KE
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N100 S15

Sat	LR	LC	MP	Var	Her	Ver	UR	Har	PD	RB	Dai	KE
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N200 S0

Her	PD	RB	UR	LR	Ver	MP	KE	Var	LC	Har	Sat	Dai
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N200 S15

Dai	Her	LC	KE	LR	RB	Sat	MP	PD	Har	UR	Ver	Var
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N100 S0

LR	PD	Sat	KE	Har	UR	RB	MP	Her	Ver	Dai	Var	LC
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N100 S40

LC	LR	RB	Har	UR	MP	Her	PD	Ver	Var	Sat	Dai	KE
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Block III

N100 S0

Dai	LC	Ver	LR	Var	Sat	KE	MP	RB	Har	Her	UR	PD
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N0 S40

MP	Dai	LC	LR	Sat	UR	Ver	Var	RB	PD	KE	Her	Har
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N200 S15

RB	MP	Har	LC	Var	Ver	KE	UR	Her	Dai	PD	LR	Sat
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NO S0

Her	Har	PD	MP	RB	LR	Sat	Var	KE	Ver	UR	Dai	LC
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N100 S15

Ver	Har	LC	PD	UR	LR	Her	MP	Var	Dai	KE	RB	Sat
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NO S15

Dai	Ver	Sat	PD	LR	Her	MP	RB	KE	Har	LC	Var	UR
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N100 S40

MP	LC	Dai	Har	KE	Her	PD	Var	RB	LR	Sat	Ver	UR
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N200 S0

Har	Sat	MP	KE	UR	Ver	Var	LR	LC	RB	Dai	PD	Her
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N200 S40

Her	LR	MP	LC	PD	RB	Ver	Sat	Har	UR	Dai	Var	KE
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Meteorological data for Woburn Experimental Farm, April to October 201

	Sunshine		Temperature °C		Rain			
	Hours	()	Maximum ()	Minimum ()	mm	()		
April	213.7	(+77.9)	14.8	(+2.54)	3.4	(+0.04)	19.8	(-32.80)
May	205.3	(+22.1)	16.3	(+0.29)	5.4	(-0.67)	55.8	(+3.07)
June	248.9	(+72.0)	21.5	(+2.56)	9.3	(+0.26)	38	(-20.79)
July	173.6	(-19.9)	23.2	(+1.46)	13.3	(+2.10)	16.8	(-28.84)
August	127.6	(-56.8)	20.2	(-1.36)	11.9	(+0.81)	151.8	(+97.30)
September	133.1	(+1.9)	18.3	(+0.06)	9.6	(+0.29)	51	(-7.44)
October	101.6	(-2.2)	14.2	(+0.19)	7.3	(+0.85)	46.4	(-18.27)

Departure from 30-year means (1971-2000) given in brackets.

Data prepared by Tony Scott and provided by Margaret Glendining, Rothamsted Research.

Yield data (kg)

Hermes av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	1.9	2.2	2	2.033333	0.152753
N0 S15	1.9	1.9	2.1	1.966667	0.11547
N0 S40	2.1	2.3	2.1	2.166667	0.11547
N100 S0	2.5	2.7	2.9	2.7	0.2
N100 S15	2.5	3	2.3	2.6	0.360555
N100 S40	2.5	2.5	3.3	2.766667	0.46188
N200 S0	2.9	3	2.5	2.8	0.264575
N200 S15	2.7	3.2	2.7	2.866667	0.288675
N200 S40	2.6	2.7	2.8	2.7	0.1

Rosetta av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	1.9	2.2	1.8	1.966667	0.208167
N0 S15	2	2.4	2	2.133333	0.23094
N0 S40	2.1	2.3	1.4	1.933333	0.472582
N100 S0	2.3	2.1	2.1	2.166667	0.11547
N100 S15	2.4	2.6	2.5	2.5	0.1
N100 S40	2.3	2.6	2.1	2.333333	0.251661
N200 S0	2.6	3.1	2.7	2.8	0.264575
N200 S15	2.1	3.2	2.8	2.7	0.556776
N200 S40	1.9	2.9	3	2.6	0.608276

Saturna av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.1	2	1.6	1.9	0.264575
N0 S15	1.7	2.4	1.9	2	0.360555
N0 S40	2	2.4	1.3	1.9	0.556776
N100 S0	2.4	2.6	1.9	2.3	0.360555
N100 S15	2.4	2.4	2.1	2.3	0.173205
N100 S40	2.2	2.7	1.7	2.2	0.5
N200 S0	2.7	2.5	2.6	2.6	0.1
N200 S15	2.9	2.5	1.8	2.4	0.556776
N200 S40	2.5	2.9	2.3	2.566667	0.305505

P.Dell av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.3	2.2	1.7	2.066667	0.321455
N0 S15	2.5	2.9	1.6	2.333333	0.665833
N0 S40	2.5	2.7	1.7	2.3	0.52915
N100 S0	2.7	2.6	2.2	2.5	0.264575
N100 S15	2.7	2.4	2.4	2.5	0.173205
N100 S40	2.6	2.7	2.1	2.466667	0.321455
N200 S0	3	3.1	2	2.7	0.608276
N200 S15	2.7	3.4	2.6	2.9	0.43589
N200 S40	3.5	2.7	2.7	2.966667	0.46188

Verdi av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.4	2.2	1.4	2	0.52915
N0 S15	1.8	2.9	1.2	1.966667	0.862168
N0 S40	2.1	2.2	1.7	2	0.264575
N100 S0	3.1	3	2.5	2.866667	0.321455
N100 S15	2.5	2.7	2.2	2.466667	0.251661
N100 S40	2.2	3.1	1.9	2.4	0.6245
N200 S0	3.3	3.4	2.5	3.066667	0.493288
N200 S15	2.9	3.6	3.3	3.266667	0.351188
N200 S40	3.4	3.3	2	2.9	0.781025

Russet Burbank av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.22	2.1	2.6	2.306667	0.261024
N0 S15	2.5	2.8	2.2	2.5	0.3
N0 S40	2.1	2.3	2.3	2.233333	0.11547
N100 S0	2.7	2.7	2.7	2.7	5.44E-16
N100 S15	2.2	3.1	2.4	2.566667	0.472582
N100 S40	2.6	2.1	2.7	2.466667	0.321455
N200 S0	2.9	2.4	2.5	2.6	0.264575
N200 S15	2.7	3.1	2.1	2.633333	0.503322
N200 S40	2.7	2.8	2.9	2.8	0.1

King Edwards av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.2	2.1	1.6	1.966667	0.321455
N0 S15	1.9	1.8	2.1	1.933333	0.152753
N0 S40	1.8	2.3	1.7	1.933333	0.321455
N100 S0	3.1	3.1	2.8	3	0.173205
N100 S15	2.8	2.3	2.3	2.466667	0.288675
N100 S40	3	2.9	2.3	2.733333	0.378594
N200 S0	3.1	2.9	2.1	2.7	0.52915
N200 S15	3.2	3.9	3	3.366667	0.472582
N200 S40	3.5	3	2.8	3.1	0.360555

Umatilla av. Yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2	2.1	2	2.033333	0.057735
N0 S15	2.3	1.8	1.9	2	0.264575
N0 S40	2.2	2.5	1.9	2.2	0.3
N100 S0	3.1	2.8	2.4	2.766667	0.351188
N100 S15	2.5	3.2	2.8	2.833333	0.351188
N100 S40	2.5	2.7	2.6	2.6	0.1
N200 S0	2.8	2.7	2.6	2.7	0.1
N200 S15	2.8	3.5	3	3.1	0.360555
N200 S40	2.7	3	2.5	2.733333	0.251661

Maris Piper av.yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.46	2.63	2.39	2.493333	0.123423

N0 S15	2.62	3.2	2.04	2.62	0.58
N0 S40	3	2.12	2.9	2.673333	0.481802
N100 S0	3.3	3.1	2.7	3.033333	0.305505
N100 S15	3.1	3.1	4.2	3.466667	0.635085
N100 S40	2.8	3	2.8	2.866667	0.11547
N200 S0	3.9	3	3.6	3.5	0.458258
N200 S15	3.5	4.2	3.7	3.8	0.360555
N200 S40	3.3	3.7	3.1	3.366667	0.305505

Markies av. Yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.23	2.5	2.24	2.323333	0.15308
N0 S15	2.5	2.6	2	2.366667	0.321455
N0 S40	2.3	1.9	2.2	2.133333	0.208167
N100 S0	3	3.1	2.6	2.9	0.264575
N100 S15	2.8	3.6	3	3.133333	0.416333
N100 S40	2.9	3.5	2.9	3.1	0.34641
N200 S0	3.3	3	3.3	3.2	0.173205
N200 S15	3.1	3.3	3.1	3.166667	0.11547
N200 S40	4.3	3.7	3	3.666667	0.650641

Lady Claire av. Yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	1.4	1.5	1.3	1.4	0.1
N0 S15	1.5	1.5	1.2	1.4	0.173205
N0 S40		1.7	1.6	1.65	0.070711
N100 S0	2.6	2	1.6	2.066667	0.503322
N100 S15	1.6	1.7	1.8	1.7	0.1
N100 S40	1.8	1.7	2	1.833333	0.152753
N200 S0	2.5	2	2.2	2.233333	0.251661
N200 S15	2.1	2.1	2.3	2.166667	0.11547
N200 S40	2.5	2.4	1.7	2.2	0.43589

Daisy av. Yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2	1.6	1.5	1.7	0.264575
N0 S15	1.9	1.9	1.8	1.866667	0.057735
N0 S40	1.8	1.9	1.7	1.8	0.1
N100 S0	2.8	2.8	1.8	2.466667	0.57735
N100 S15	2.3	1.5	1.9	1.9	0.4
N100 S40	2.4	2.5	2.4	2.433333	0.057735
N200 S0	2.5	2.6	1.6	2.233333	0.550757
N200 S15	1.6	2.3	2.4	2.1	0.43589
N200 S40	2.4	3.2	1.2	2.266667	1.006645

Harmony av. Yield

	Block 1	Block 2	Block 3	Av across blocks	SD
N0 S0	2.7	3	2.2	2.633333	0.404145
N0 S15	2.4	2.4	1.8	2.2	0.34641
N0 S40	2.8	2.4	2	2.4	0.4

N100 S0	2.7	2.7	3	2.8	0.173205
N100 S15	3.2	3.3	3.2	3.233333	0.057735
N100 S40	2.6	3.4	2.9	2.966667	0.404145
N200 S0	3	3	2.8	2.933333	0.11547
N200 S15	2.9	3.3	2.8	3	0.264575
N200 S40	4	3	3.4	3.466667	0.503322

Analytical results

variety	Rep	Treatment (kg/Ha)	% Moisture	% Solids	Fructose (g/kg DW)	Glucose (g/kg DW)	Sucrose (g/kg DW)
Lady Claire	1	N0 : S0	77.94%	22.06%	0.06	0.16	5.81
Lady Claire	1	N0 : S15	77.30%	22.70%	0.03	0.09	2.77
Lady Claire	1	N0 : S40	*	*	*	*	*
Lady Claire	1	N100 : S0	80.04%	19.96%	0.04	0.10	3.94
Lady Claire	1	N100 : S15	78.69%	21.31%	0.05	0.14	6.54
Lady Claire	1	N100 : S40	79.57%	20.43%	0.05	0.11	5.87
Lady Claire	1	N200 : S0	79.05%	20.95%	0.06	0.18	6.04
Lady Claire	1	N200 : S15	80.59%	19.41%	0.06	0.20	6.61
Lady Claire	1	N200 : S40	79.19%	20.81%	0.05	0.14	6.14
Lady Claire	2	N0 : S0	78.83%	21.17%	0.12	0.35	10.64
Lady Claire	2	N0 : S15	77.90%	22.10%	0.05	0.18	6.34
Lady Claire	2	N0 : S40	78.86%	21.14%	0.04	0.12	5.33
Lady Claire	2	N100 : S0	79.29%	20.71%	0.09	0.20	6.99
Lady Claire	2	N100 : S15	78.27%	21.73%	0.03	0.08	4.43
Lady Claire	2	N100 : S40	81.43%	18.57%	0.05	0.12	4.80
Lady Claire	2	N200 : S0	79.55%	20.45%	0.05	0.13	6.10
Lady Claire	2	N200 : S15	80.25%	19.75%	0.06	0.18	6.18
Lady Claire	2	N200 : S40	79.46%	20.54%	0.03	0.12	6.12
Lady Claire	3	N0 : S0	78.19%	21.81%	0.05	0.15	5.84
Lady Claire	3	N0 : S15	77.27%	22.73%	0.09	0.21	7.02
Lady Claire	3	N0 : S40	78.04%	21.96%	0.10	0.19	7.10
Lady Claire	3	N100 : S0	79.44%	20.56%	0.10	0.21	9.03
Lady Claire	3	N100 : S15	79.65%	20.35%	0.19	0.29	6.33
Lady Claire	3	N100 : S40	79.15%	20.85%	0.06	0.14	6.36
Lady Claire	3	N200 : S0	78.82%	21.18%	0.06	0.14	4.07
Lady Claire	3	N200 : S15	79.88%	20.12%	0.03	0.11	4.91
Lady Claire	3	N200 : S40	77.28%	22.72%	0.03	0.10	4.41
Daisy	1	N0 : S0	76.12%	23.88%	0.08	0.21	7.16
Daisy	1	N0 : S15	77.85%	22.15%	0.19	0.56	7.49
Daisy	1	N0 : S40	*	*	*	*	*
Daisy	1	N100 : S0	77.16%	22.84%	0.16	0.45	5.68
Daisy	1	N100 : S15	77.12%	22.88%	0.09	0.26	7.97
Daisy	1	N100 : S40	76.35%	23.65%	0.28	0.72	11.70
Daisy	1	N200 : S0	76.85%	23.15%	0.74	1.17	8.81
Daisy	1	N200 : S15	77.81%	22.19%	0.09	0.24	9.08
Daisy	1	N200 : S40	76.94%	23.06%	0.26	0.71	5.80
Daisy	2	N0 : S0	76.88%	23.12%	0.10	0.30	8.44
Daisy	2	N0 : S15	77.89%	22.11%	0.36	0.48	8.13
Daisy	2	N0 : S40	76.88%	23.12%	0.29	0.44	9.51
Daisy	2	N100 : S0	75.54%	24.46%	0.24	0.27	6.29
Daisy	2	N100 : S15	78.89%	21.11%	0.14	0.18	6.37
Daisy	2	N100 : S40	77.14%	22.86%	0.37	0.53	10.36
Daisy	2	N200 : S0	76.58%	23.42%	0.23	0.39	8.70
Daisy	2	N200 : S15	77.36%	22.64%	0.25	0.32	8.67
Daisy	2	N200 : S40	75.69%	24.31%	0.34	0.47	8.16

Daisy	3	N0 : S0	78.13%	21.87%	0.64	1.00	8.50
Daisy	3	N0 : S15	76.78%	23.22%	0.39	0.51	8.06
Daisy	3	N0 : S40	78.55%	21.45%	0.32	0.39	7.47
Daisy	3	N100 : S0	77.16%	22.84%	1.08	1.53	16.18
Daisy	3	N100 : S15	77.71%	22.29%	0.73	0.94	8.68
Daisy	3	N100 : S40	78.10%	21.90%	0.35	0.65	11.26
Daisy	3	N200 : S0	79.08%	20.92%	0.69	1.05	9.10
Daisy	3	N200 : S15	74.79%	25.21%	0.26	0.43	7.69
Daisy	3	N200 : S40	79.16%	20.84%	0.65	0.81	8.57
Harmony	1	N0 : S0	82.54%	17.46%	0.10	0.03	0.92
Harmony	1	N0 : S15	81.14%	18.86%	0.06	0.02	0.25
Harmony	1	N0 : S40	82.20%	17.80%	0.15	0.07	0.22
Harmony	1	N100 : S0	82.14%	17.86%	0.10	11.33	0.14
Harmony	1	N100 : S15	79.84%	20.16%	0.06	7.83	0.09
Harmony	1	N100 : S40	81.27%	18.73%	0.26	1.11	0.29
Harmony	1	N200 : S0	82.39%	17.61%	0.23	16.54	0.11
Harmony	1	N200 : S15	81.80%	18.20%	0.18	0.08	0.36
Harmony	1	N200 : S40	81.53%	18.47%	0.11	0.11	0.50
Harmony	2	N0 : S0	81.23%	18.77%	0.90	21.98	10.75
Harmony	2	N0 : S15	82.33%	17.67%	0.99	19.61	7.98
Harmony	2	N0 : S40	81.96%	18.04%	1.07	30.12	9.37
Harmony	2	N100 : S0	82.73%	17.27%	1.55	27.80	13.96
Harmony	2	N100 : S15	82.46%	17.54%	0.97	32.06	13.96
Harmony	2	N100 : S40	83.73%	16.27%	1.59	25.37	13.74
Harmony	2	N200 : S0	83.71%	16.29%	0.15	28.51	13.35
Harmony	2	N200 : S15	81.53%	18.47%	0.32	2.77	16.54
Harmony	2	N200 : S40	78.72%	21.28%	0.16	20.90	13.82
Harmony	3	N0 : S0	81.40%	18.60%	0.54	24.89	11.37
Harmony	3	N0 : S15	83.12%	16.88%	0.39	23.58	9.40
Harmony	3	N0 : S40	81.91%	18.09%	0.60	16.20	8.50
Harmony	3	N100 : S0	82.22%	17.78%	0.07	21.65	13.60
Harmony	3	N100 : S15	83.07%	16.93%	0.73	32.53	17.25
Harmony	3	N100 : S40	83.08%	16.92%	0.46	20.25	8.17
Harmony	3	N200 : S0	80.98%	19.02%	0.58	26.18	13.22
Harmony	3	N200 : S15	84.65%	15.35%	0.22	30.62	12.81
Harmony	3	N200 : S40	82.83%	17.17%	0.46	25.82	13.32
Umatilla	1	N0 : S0	78.72%	21.28%	0.25	14.74	9.31
Umatilla	1	N0 : S15	77.05%	22.95%	0.47	1.01	6.30
Umatilla	1	N0 : S40	78.06%	21.94%	0.85	1.77	8.61
Umatilla	1	N100 : S0	80.51%	19.49%	0.95	1.71	8.99
Umatilla	1	N100 : S15	78.55%	21.45%	0.61	1.19	6.64
Umatilla	1	N100 : S40	79.39%	20.61%	0.63	2.29	10.46
Umatilla	1	N200 : S0	80.38%	19.62%	0.33	0.91	8.42
Umatilla	1	N200 : S15	77.74%	22.26%	0.50	1.36	7.18
Umatilla	1	N200 : S40	79.54%	20.46%	0.20	0.63	9.37
Umatilla	2	N0 : S0	78.77%	21.23%	0.36	0.95	11.40
Umatilla	2	N0 : S15	78.35%	21.65%	0.54	1.03	6.20
Umatilla	2	N0 : S40	80.03%	19.97%	0.04	1.10	9.01
Umatilla	2	N100 : S0	78.43%	21.57%	0.09	2.09	8.72
Umatilla	2	N100 : S15	75.99%	24.01%	0.09	2.20	11.18
Umatilla	2	N100 : S40	79.02%	20.98%	0.05	0.06	0.39
Umatilla	2	N200 : S0	78.16%	21.84%	0.10	3.17	10.70

Umatilla	2	N200 : S15	80.00%	20.00%	1.54	1.88	11.40
Umatilla	2	N200 : S40	78.69%	21.31%	0.26	0.61	8.65
Umatilla	3	N0 : S15	78.48%	21.52%	0.21	2.47	12.07
Umatilla	3	N0 : S40	78.66%	21.34%	0.03	2.88	15.63
Umatilla	3	N100 : S0	76.65%	23.35%	0.10	2.61	13.52
Umatilla	3	N100 : S15	79.19%	20.81%	0.04	2.78	9.87
Umatilla	3	N100 : S40	77.56%	22.44%	0.12	1.31	11.94
Umatilla	3	N200 : S0	77.88%	22.12%	0.07	2.91	14.41
Umatilla	3	N200 : S15	76.85%	23.15%	0.22	2.63	15.22
Umatilla	3	N200 : S40	78.94%	21.06%	0.35	2.16	12.54
Umatilla	3	N0 : S0	79.28%	20.72%	0.13	1.37	10.26
Lady Rosetta	1	N0 : S0	74.75%	25.25%	0.08	0.01	3.19
Lady Rosetta	1	N0 : S15	72.69%	27.31%	0.06	0.05	3.65
Lady Rosetta	1	N0 : S40	74.16%	25.84%	0.10	0.13	3.07
Lady Rosetta	1	N100 : S0	75.36%	24.64%	0.13	0.18	5.36
Lady Rosetta	1	N100 : S15	75.39%	24.61%	0.10	0.02	2.65
Lady Rosetta	1	N100 : S40	74.98%	25.02%	0.20	0.28	6.41
Lady Rosetta	1	N200 : S0	74.42%	25.58%	0.15	0.09	4.26
Lady Rosetta	1	N200 : S15	73.62%	26.38%	0.26	0.23	6.28
Lady Rosetta	1	N200 : S40	71.76%	28.24%	0.17	0.20	5.58
Lady Rosetta	2	N0 : S0	75.22%	24.78%	0.08	0.14	3.06
Lady Rosetta	2	N0 : S15	76.12%	23.88%	0.13	0.19	5.21
Lady Rosetta	2	N0 : S40	75.19%	24.81%	0.16	0.14	4.76
Lady Rosetta	2	N100 : S40	75.33%	24.67%	0.10	0.10	3.85
Lady Rosetta	2	N200 : S0	73.69%	26.31%	0.22	0.18	4.73
Lady Rosetta	2	N200 : S15	73.96%	26.04%	0.11	0.18	4.63
Lady Rosetta	2	N200 : S40	74.35%	25.65%	0.26	0.18	6.54
Lady Rosetta	3	N0 : S0	73.22%	26.78%	0.21	0.11	5.63
Lady Rosetta	3	N0 : S15	74.73%	25.27%	0.19	0.22	4.28
Lady Rosetta	3	N0 : S40	74.70%	25.30%	0.12	0.04	4.59
Lady Rosetta	3	N100 : S0	75.91%	24.09%	0.20	0.01	4.79
Lady Rosetta	3	N100 : S15	74.67%	25.33%	0.10	0.01	4.42
Lady Rosetta	3	N100 : S40	74.47%	25.53%	0.10	0.25	4.23
Lady Rosetta	3	N200 : S0	73.76%	26.24%	0.06	0.00	4.37
Lady Rosetta	3	N200 : S15	72.49%	27.51%	0.27	0.20	5.57
Lady Rosetta	3	N200 : S40	74.35%	25.65%	0.06	0.00	4.48
Lady Rosetta	2	N100 : S0	75.47%	24.53%	0.10	0.02	0.89
Lady Rosetta	2	N100 : S15	75.04%	24.96%	0.09	0.01	5.60
Saturna	1	N0 : S0	76.22%	23.78%	0.09	0.02	1.19
Saturna	1	N0 : S15	76.14%	23.86%	0.22	0.00	3.90
Saturna	1	N0 : S40	77.76%	22.24%	0.12	0.03	2.60
Saturna	1	N100 : S0	74.91%	25.09%	0.14	0.15	6.04
Saturna	1	N100 : S15	74.76%	25.24%	0.11	0.02	2.11
Saturna	1	N100 : S40	76.16%	23.84%	0.08	0.23	5.55
Saturna	1	N200 : S0	76.06%	23.94%	0.19	0.03	0.14
Saturna	1	N200 : S15	75.46%	24.54%	0.12	0.19	5.82
Saturna	1	N200 : S40	75.37%	24.63%	0.11	0.12	5.40
Saturna	2	N0 : S0	75.18%	24.82%	0.22	0.31	4.92
Saturna	2	N0 : S15	75.55%	24.45%	0.12	0.10	5.36
Saturna	2	N0 : S40	77.24%	22.76%	0.10	0.03	3.43
Saturna	2	N100 : S0	77.28%	22.72%	0.10	0.06	5.19
Saturna	2	N100 : S15	78.28%	21.72%	0.11	0.03	1.32

Saturna	2	N100 : S40	77.24%	22.76%	0.19	0.28	6.01
Saturna	2	N200 : S0	77.01%	22.99%	0.10	0.02	0.09
Saturna	2	N200 : S15	76.77%	23.23%	0.14	0.04	5.20
Saturna	2	N200 : S40	75.94%	24.06%	0.16	0.24	7.67
Saturna	3	N0 : S0	75.88%	24.12%	0.21	0.32	7.53
Saturna	3	N0 : S15	77.43%	22.57%	5.01	0.22	0.40
Saturna	3	N0 : S40	77.83%	22.17%	0.22	0.30	7.79
Saturna	3	N100 : S0	77.32%	22.68%	0.16	0.14	7.52
Saturna	3	N100 : S15	77.50%	22.50%	0.44	0.54	7.28
Saturna	3	N100 : S40	78.18%	21.82%	0.58	0.68	7.24
Saturna	3	N200 : S0	80.51%	19.49%	0.43	0.61	9.51
Saturna	3	N200 : S15	77.59%	22.41%	4.56	0.18	0.32
Saturna	3	N200 : S40	76.63%	23.37%	0.29	0.30	7.24
Hermes	1	N0 : S0	74.49%	25.51%	0.21	0.20	8.43
Hermes	1	N0 : S15	75.16%	24.84%	0.11	0.02	0.04
Hermes	1	N0 : S40	76.15%	23.85%	0.14	0.13	7.91
Hermes	1	N100 : S0	75.21%	24.79%	0.13	0.02	2.46
Hermes	1	N100 : S15	74.60%	25.40%	0.10	0.17	8.63
Hermes	1	N100 : S40	74.89%	25.11%	0.24	0.02	3.19
Hermes	1	N200 : S0	75.03%	24.97%	0.16	0.01	1.91
Hermes	1	N200 : S15	76.88%	23.12%	0.22	0.43	7.97
Hermes	1	N200 : S40	77.02%	22.98%	0.17	0.28	8.15
Hermes	2	N0 : S0	76.20%	23.80%	0.07	0.01	3.28
Hermes	2	N0 : S15	76.23%	23.77%	0.19	0.22	7.77
Hermes	2	N0 : S40	76.14%	23.86%	0.12	0.03	4.22
Hermes	2	N100 : S0	75.62%	24.38%	0.26	0.44	4.98
Hermes	2	N100 : S15	76.98%	23.02%	0.21	0.03	1.86
Hermes	2	N100 : S40	76.85%	23.15%	0.19	0.28	6.71
Hermes	2	N200 : S0	76.44%	23.56%	0.16	0.02	0.75
Hermes	2	N200 : S15	77.47%	22.53%	0.37	1.36	7.97
Hermes	2	N200 : S40	76.28%	23.72%	0.17	0.03	3.97
Hermes	3	N0 : S0	74.29%	25.71%	0.12	0.21	8.10
Hermes	3	N0 : S15	76.19%	23.81%	0.37	0.10	7.34
Hermes	3	N0 : S40	75.14%	24.86%	0.44	0.02	5.27
Hermes	3	N100 : S0	74.43%	25.57%	0.08	0.24	7.95
Hermes	3	N100 : S15	75.41%	24.59%	0.12	0.30	7.93
Hermes	3	N100 : S40	76.66%	23.34%	0.11	0.04	6.15
Hermes	3	N200 : S0	77.36%	22.64%	0.15	0.33	9.46
Hermes	3	N200 : S15	74.90%	25.10%	0.13	0.04	3.45
Hermes	3	N200 : S40	76.70%	23.30%	0.35	0.39	8.07
Verdi	1	N0 : S0	75.16%	24.84%	1.35	0.91	5.03
Verdi	1	N0 : S15	74.42%	25.58%	0.16	0.05	4.80
Verdi	1	N0 : S40	75.34%	24.66%	0.57	0.00	5.75
Verdi	1	N100 : S0	77.16%	22.84%	0.68	0.00	5.73
Verdi	1	N100 : S15	74.04%	25.96%	0.14	0.00	3.21
Verdi	1	N100 : S40	73.14%	26.86%	0.22	0.00	4.22
Verdi	1	N200 : S0	83.05%	16.95%	0.14	0.07	4.75
Verdi	1	N200 : S15	73.77%	26.23%	1.10	0.08	2.88
Verdi	1	N200 : S40	75.60%	24.40%	0.13	0.02	3.92
Verdi	2	N0 : S0	74.58%	25.42%	0.12	0.01	2.64
Verdi	2	N0 : S15	74.26%	25.74%	0.12	0.01	7.55
Verdi	2	N0 : S40	74.09%	25.91%	0.10	0.16	7.80

Verdi	2	N100 : S0	74.70%	25.30%	0.45	0.01	3.13
Verdi	2	N100 : S15	74.80%	25.20%	0.11	0.01	3.14
Verdi	2	N100 : S40	74.50%	25.50%	0.12	0.01	4.55
Verdi	2	N200 : S0	73.94%	26.06%	0.32	0.03	3.30
Verdi	2	N200 : S15	76.19%	23.81%	1.48	0.08	4.44
Verdi	2	N200 : S40	73.50%	26.50%	0.14	0.00	6.76
Verdi	3	N0 : S0	72.32%	27.68%	0.19	0.21	9.76
Verdi	3	N0 : S15	75.17%	24.83%	0.21	0.24	9.72
Verdi	3	N0 : S40	74.48%	25.52%	0.65	0.69	9.24
Verdi	3	N100 : S0	73.78%	26.22%	0.39	0.28	8.97
Verdi	3	N100 : S15	73.33%	26.67%	0.41	0.29	8.66
Verdi	3	N100 : S40	74.90%	25.10%	0.29	0.11	7.72
Verdi	3	N200 : S0	74.41%	25.59%	0.67	0.79	10.90
Verdi	3	N200 : S15	74.53%	25.47%	0.59	0.73	9.57
Verdi	3	N200 : S40	76.01%	23.99%	0.95	0.20	11.24
Pentland Dell	1	N0 : S0	77.41%	22.59%	2.33	3.55	9.04
Pentland Dell	1	N0 : S15	78.53%	21.47%	1.58	1.56	4.73
Pentland Dell	1	N0 : S40	79.13%	20.87%	0.94	0.96	4.36
Pentland Dell	1	N100 : S0	78.19%	21.81%	1.25	1.06	6.11
Pentland Dell	1	N100 : S15	79.05%	20.95%	1.07	1.44	6.33
Pentland Dell	1	N100 : S40	76.36%	23.64%	0.81	1.04	7.36
Pentland Dell	1	N200 : S0	77.70%	22.30%	1.70	2.07	9.04
Pentland Dell	1	N200 : S15	79.33%	20.67%	0.12	0.00	5.12
Pentland Dell	1	N200 : S40	77.95%	22.05%	0.83	0.56	6.22
Pentland Dell	2	N0 : S0	78.16%	21.84%	1.42	1.94	5.33
Pentland Dell	2	N0 : S15	80.32%	19.68%	1.56	2.74	6.97
Pentland Dell	2	N0 : S40	79.26%	20.74%	1.27	0.06	3.13
Pentland Dell	2	N100 : S0	77.48%	22.52%	0.91	0.03	1.37
Pentland Dell	2	N100 : S15	78.00%	22.00%	1.35	0.06	2.36
Pentland Dell	2	N100 : S40	78.96%	21.04%	2.01	0.13	4.71
Pentland Dell	2	N200 : S0	73.87%	26.13%	1.75	2.36	6.75
Pentland Dell	2	N200 : S15	77.00%	23.00%	1.61	2.29	7.97
Pentland Dell	2	N200 : S40	76.23%	23.77%	1.42	0.07	4.02
Pentland Dell	3	N0 : S0	78.12%	21.88%	4.09	5.59	10.04
Pentland Dell	3	N0 : S15	78.42%	21.58%	2.14	3.55	9.64
Pentland Dell	3	N0 : S40	78.61%	21.39%	3.32	4.18	6.61
Pentland Dell	3	N100 : S0	79.28%	20.72%	2.32	1.00	3.88
Pentland Dell	3	N100 : S15	77.12%	22.88%	0.79	0.06	4.98
Pentland Dell	3	N100 : S40	77.30%	22.70%	2.26	0.06	3.37
Pentland Dell	3	N200 : S0	76.94%	23.06%	1.56	2.33	9.49
Pentland Dell	3	N200 : S15	*	*	*	*	*
Pentland Dell	3	N200 : S40	78.21%	21.79%	0.86	0.05	0.78
Russet Burbank	1	N0 : S0	78.35%	21.65%	2.11	3.74	7.17
Russet Burbank	1	N0 : S15	75.95%	24.05%	3.25	5.17	10.06
Russet Burbank	1	N0 : S40	75.64%	24.36%	1.78	2.51	7.98
Russet Burbank	1	N100 : S0	77.39%	22.61%	1.28	1.83	8.95
Russet Burbank	1	N100 : S15	78.97%	21.03%	1.99	2.60	9.05
Russet Burbank	1	N100 : S40	80.25%	19.75%	1.92	2.93	9.63
Russet Burbank	1	N200 : S0	78.69%	21.31%	0.78	1.48	8.22
Russet Burbank	1	N200 : S15	77.57%	22.43%	0.90	1.44	7.34
Russet Burbank	1	N200 : S40	78.10%	21.90%	1.23	1.68	8.53
Russet Burbank	2	N0 : S0	79.72%	20.28%	0.90	1.27	9.11

Russet Burbank	2	N0 : S15	76.06%	23.94%	1.13	2.01	8.54
Russet Burbank	2	N0 : S40	80.05%	19.95%	1.88	2.69	8.57
Russet Burbank	2	N100 : S0	76.48%	23.52%	1.31	2.37	9.75
Russet Burbank	2	N100 : S15	78.61%	21.39%	1.18	1.86	8.84
Russet Burbank	2	N100 : S40	78.79%	21.21%	1.13	1.79	7.33
Russet Burbank	2	N200 : S0	78.56%	21.44%	2.53	3.88	9.94
Russet Burbank	2	N200 : S15	77.22%	22.78%	2.01	2.90	10.75
Russet Burbank	2	N200 : S40	78.13%	21.87%	0.75	1.35	8.45
Russet Burbank	3	N0 : S0	76.81%	23.19%	4.40	6.10	9.22
Russet Burbank	3	N0 : S15	76.02%	23.98%	3.45	4.82	11.57
Russet Burbank	3	N0 : S40	75.72%	24.28%	2.80	4.02	10.03
Russet Burbank	3	N100 : S0	79.38%	20.62%	0.73	1.73	7.55
Russet Burbank	3	N100 : S15	76.10%	23.90%	1.43	2.32	8.97
Russet Burbank	3	N100 : S40	76.34%	23.66%	2.54	4.06	11.11
Russet Burbank	3	N200 : S0	75.92%	24.08%	2.09	3.71	10.58
Russet Burbank	3	N200 : S15	76.79%	23.21%	1.22	2.50	7.85
Russet Burbank	3	N200 : S40	78.53%	21.47%	1.11	1.90	9.36
King Edward	1	N0 : S0	77.58%	22.42%	0.21	0.39	8.28
King Edward	1	N0 : S15	79.20%	20.80%	0.69	1.22	10.60
King Edward	1	N0 : S40	78.81%	21.19%	0.41	0.59	8.46
King Edward	1	N100 : S0	79.59%	20.41%	0.64	1.45	8.76
King Edward	1	N100 : S15	78.55%	21.45%	0.33	0.77	10.63
King Edward	1	N100 : S40	79.73%	20.27%	0.34	1.01	8.48
King Edward	1	N200 : S0	71.86%	28.14%	0.20	0.37	7.72
King Edward	1	N200 : S15	78.13%	21.87%	0.00	0.02	0.02
King Edward	1	N200 : S40	79.78%	20.22%	0.80	2.04	7.91
King Edward	2	N0 : S0	78.15%	21.85%	0.29	0.62	8.51
King Edward	2	N0 : S15	79.69%	20.31%	0.68	1.31	12.69
King Edward	2	N0 : S40	77.36%	22.64%	0.21	0.48	5.96
King Edward	2	N100 : S0	79.83%	20.17%	1.60	2.23	11.94
King Edward	2	N100 : S15	79.46%	20.54%	0.92	1.54	9.48
King Edward	2	N100 : S40	78.40%	21.60%	0.27	0.85	8.75
King Edward	2	N200 : S0	77.60%	22.40%	1.03	2.49	13.47
King Edward	2	N200 : S15	77.75%	22.25%	0.33	0.83	9.82
King Edward	2	N200 : S40	78.96%	21.04%	0.15	0.61	9.90
King Edward	3	N0 : S0	77.75%	22.25%	0.87	1.26	10.98
King Edward	3	N0 : S15	79.08%	20.92%	2.53	4.51	13.92
King Edward	3	N0 : S40	77.77%	22.23%	1.34	1.95	10.32
King Edward	3	N100 : S0	78.14%	21.86%	3.31	4.87	10.10
King Edward	3	N100 : S15	78.45%	21.55%	1.52	2.30	11.54
King Edward	3	N100 : S40	79.25%	20.75%	1.25	1.92	12.74
King Edward	3	N200 : S0	77.98%	22.02%	1.30	2.30	12.50
King Edward	3	N200 : S15	78.54%	21.46%	0.52	2.35	10.99
King Edward	3	N200 : S40	79.40%	20.60%	1.09	2.46	10.76
Markies	1	N0 : S0	74.75%	25.25%	0.12	0.70	9.50
Markies	1	N0 : S15	75.43%	24.57%	0.33	1.28	11.39
Markies	1	N0 : S40	75.15%	24.85%	0.07	0.17	8.40
Markies	1	N100 : S0	75.76%	24.24%	0.08	0.18	9.12
Markies	1	N100 : S15	75.70%	24.30%	0.11	0.22	9.01
Markies	1	N100 : S40	76.13%	23.87%	0.34	0.24	6.00
Markies	1	N200 : S0	73.67%	26.33%	0.04	0.14	8.75
Markies	1	N200 : S15	74.71%	25.29%	0.21	0.37	11.04

Markies	1	N200 : S40	77.33%	22.67%	0.17	0.32	7.00
Markies	2	N0 : S0	76.14%	23.86%	0.07	0.32	9.23
Markies	2	N0 : S15	75.67%	24.33%	0.06	0.15	9.89
Markies	2	N0 : S40	76.91%	23.09%	0.20	0.24	7.29
Markies	2	N100 : S0	76.51%	23.49%	0.24	0.04	4.25
Markies	2	N100 : S15	77.33%	22.67%	0.08	0.15	8.62
Markies	2	N100 : S40	76.98%	23.02%	0.10	0.18	9.34
Markies	2	N200 : S0	75.36%	24.64%	0.10	1.27	10.28
Markies	2	N200 : S15	75.24%	24.76%	0.11	0.47	9.03
Markies	2	N200 : S40	75.23%	24.77%	0.62	1.77	8.99
Markies	3	N0 : S0	74.65%	25.35%	0.08	0.16	8.88
Markies	3	N0 : S15	74.77%	25.23%	0.39	0.55	11.46
Markies	3	N0 : S40	75.66%	24.34%	0.13	0.24	7.66
Markies	3	N100 : S0	75.57%	24.43%	0.11	0.19	7.35
Markies	3	N100 : S15	75.52%	24.48%	0.49	0.82	10.47
Markies	3	N100 : S40	74.86%	25.14%	0.22	0.09	8.30
Markies	3	N200 : S0	76.49%	23.51%	0.35	1.17	12.16
Markies	3	N200 : S15	76.15%	23.85%	0.16	0.90	11.43
Markies	3	N200 : S40	73.61%	26.39%	0.40	0.53	13.40
Maris Piper	1	N0 : S0	76.16%	23.84%	0.15	0.19	8.83
Maris Piper	1	N0 : S15	76.78%	23.22%	0.29	0.35	8.87
Maris Piper	1	N0 : S40	77.39%	22.61%	0.48	0.82	8.60
Maris Piper	1	N100 : S0	76.71%	23.29%	0.30	0.36	8.63
Maris Piper	1	N100 : S15	75.76%	24.24%	0.15	0.08	7.81
Maris Piper	1	N100 : S40	75.90%	24.10%	0.20	0.27	7.04
Maris Piper	1	N200 : S0	76.94%	23.06%	0.52	0.61	8.93
Maris Piper	1	N200 : S15	76.06%	23.94%	0.15	0.02	1.20
Maris Piper	1	N200 : S40	74.30%	25.70%	0.28	0.40	10.20
Maris Piper	2	N0 : S0	76.38%	23.62%	0.23	0.06	8.24
Maris Piper	2	N0 : S15	77.63%	22.37%	0.08	0.12	0.91
Maris Piper	2	N0 : S40	75.95%	24.05%	0.18	0.21	8.66
Maris Piper	2	N100 : S0	77.02%	22.98%	0.68	1.12	10.09
Maris Piper	2	N100 : S15	76.76%	23.24%	0.53	0.54	7.62
Maris Piper	2	N100 : S40	78.66%	21.34%	0.61	0.18	8.73
Maris Piper	2	N200 : S0	75.68%	24.32%	0.45	1.65	13.75
Maris Piper	2	N200 : S15	76.63%	23.37%	0.46	0.98	10.92
Maris Piper	2	N200 : S40	76.41%	23.59%	0.31	0.30	6.62
Maris Piper	3	N0 : S0	77.90%	22.10%	2.50	4.94	12.63
Maris Piper	3	N0 : S15	76.81%	23.19%	0.86	0.03	9.78
Maris Piper	3	N0 : S40	76.99%	23.01%	0.70	0.50	9.13
Maris Piper	3	N100 : S0	74.45%	25.55%	0.36	0.10	8.69
Maris Piper	3	N100 : S15	76.49%	23.51%	0.50	0.49	9.72
Maris Piper	3	N100 : S40	75.72%	24.28%	0.45	0.06	6.87
Maris Piper	3	N200 : S0	75.96%	24.04%	0.43	0.41	11.62
Maris Piper	3	N200 : S15	75.86%	24.14%	0.43	1.83	10.63
Maris Piper	3	N200 : S40	76.59%	23.41%	0.65	0.07	8.07

variety	Rep	Treatment (kg/Ha)	Alanine mmol/kg DW	Glycine mmol/kg DW	Valine mmol/kg DW	Leucine mmol/kg DW	Isoleucine mmol/kg DW	Threonine mmol/kg DW
Lady Claire	1	N0 : S0	ND	ND	ND	ND	ND	ND
Lady Claire	1	N0 : S15	ND	ND	ND	ND	ND	ND
Lady Claire	1	N0 : S40	*	*	*	*	*	*
Lady Claire	1	N100 : S0	ND	ND	ND	ND	ND	ND
Lady Claire	1	N100 : S15	ND	ND	ND	ND	ND	ND
Lady Claire	1	N100 : S40	5.06	ND	ND	ND	ND	ND
Lady Claire	1	N200 : S0	5.14	ND	ND	ND	ND	ND
Lady Claire	1	N200 : S15	ND	ND	7.65	ND	ND	ND
Lady Claire	1	N200 : S40	ND	ND	6.45	ND	ND	ND
Lady Claire	2	N0 : S0	ND	ND	5.77	ND	ND	ND
Lady Claire	2	N0 : S15	ND	ND	4.68	ND	ND	ND
Lady Claire	2	N0 : S40	ND	ND	ND	ND	ND	ND
Lady Claire	2	N100 : S0	ND	ND	4.64	ND	ND	ND
Lady Claire	2	N100 : S15	ND	ND	ND	ND	ND	ND
Lady Claire	2	N100 : S40	ND	ND	5.57	ND	ND	ND
Lady Claire	2	N200 : S0	ND	ND	7.48	ND	ND	ND
Lady Claire	2	N200 : S15	ND	ND	7.24	ND	ND	ND
Lady Claire	2	N200 : S40	ND	ND	5.49	ND	ND	ND
Lady Claire	3	N0 : S0	ND	ND	5.27	ND	ND	ND
Lady Claire	3	N0 : S15	ND	ND	4.42	ND	ND	ND
Lady Claire	3	N0 : S40	ND	ND	ND	ND	ND	ND
Lady Claire	3	N100 : S0	ND	ND	7.17	ND	ND	ND
Lady Claire	3	N100 : S15	ND	ND	7.26	ND	ND	ND
Lady Claire	3	N100 : S40	ND	ND	6.35	ND	ND	ND
Lady Claire	3	N200 : S0	ND	ND	6.53	ND	ND	ND
Lady Claire	3	N200 : S15	ND	ND	8.47	ND	ND	ND
Lady Claire	3	N200 : S40	ND	ND	6.64	ND	ND	ND
Daisy	1	N0 : S0	ND	ND	5.30	ND	ND	ND
Daisy	1	N0 : S15	ND	ND	7.77	ND	ND	ND
Daisy	1	N0 : S40	*	*	*	*	*	*
Daisy	1	N100 : S0	ND	ND	6.20	ND	ND	ND
Daisy	1	N100 : S15	ND	ND	6.86	ND	ND	ND
Daisy	1	N100 : S40	ND	ND	5.68	ND	ND	ND
Daisy	1	N200 : S0	ND	ND	7.14	ND	ND	ND
Daisy	1	N200 : S15	ND	ND	9.30	ND	ND	ND
Daisy	1	N200 : S40	ND	ND	6.52	ND	ND	ND
Daisy	2	N0 : S0	ND	ND	4.63	ND	ND	ND
Daisy	2	N0 : S15	ND	ND	5.38	ND	ND	ND
Daisy	2	N0 : S40	ND	ND	4.51	ND	ND	ND
Daisy	2	N100 : S0	ND	ND	5.77	ND	ND	ND
Daisy	2	N100 : S15	ND	ND	8.88	ND	ND	ND
Daisy	2	N100 : S40	ND	ND	6.11	ND	ND	ND
Daisy	2	N200 : S0	ND	ND	6.11	ND	ND	ND
Daisy	2	N200 : S15	ND	ND	7.14	ND	ND	ND
Daisy	2	N200 : S40	ND	ND	6.51	ND	ND	ND
Daisy	3	N0 : S0	ND	ND	6.58	ND	ND	ND
Daisy	3	N0 : S15	ND	ND	8.26	ND	ND	ND

Daisy	3	N0 : S40	ND	ND	6.05	ND	ND	ND
Daisy	3	N100 : S0	ND	ND	6.46	ND	ND	ND
Daisy	3	N100 : S15	ND	ND	6.23	ND	ND	ND
Daisy	3	N100 : S40	ND	ND	9.05	ND	ND	ND
Daisy	3	N200 : S0	ND	ND	7.31	ND	ND	ND
Daisy	3	N200 : S15	ND	ND	5.77	ND	ND	ND
Daisy	3	N200 : S40	ND	ND	ND	ND	ND	ND
Harmony	1	N0 : S0	ND	ND	ND	ND	ND	ND
Harmony	1	N0 : S15	ND	ND	ND	ND	ND	ND
Harmony	1	N0 : S40	*	*	*	*	*	*
Harmony	1	N100 : S0	ND	ND	6.96	ND	ND	ND
Harmony	1	N100 : S15	ND	ND	5.26	ND	ND	ND
Harmony	1	N100 : S40	ND	ND	6.62	ND	ND	ND
Harmony	1	N200 : S0	ND	ND	10.68	ND	ND	ND
Harmony	1	N200 : S15	ND	ND	10.35	ND	ND	ND
Harmony	1	N200 : S40	ND	ND	8.15	ND	ND	ND
Harmony	2	N0 : S0	ND	ND	5.97	ND	ND	ND
Harmony	2	N0 : S15	ND	ND	ND	ND	ND	ND
Harmony	2	N0 : S40	ND	ND	6.12	ND	ND	ND
Harmony	2	N100 : S0	ND	ND	8.15	ND	ND	ND
Harmony	2	N100 : S15	ND	ND	5.76	ND	ND	ND
Harmony	2	N100 : S40	ND	ND	7.58	ND	ND	ND
Harmony	2	N200 : S0	ND	ND	10.77	ND	ND	ND
Harmony	2	N200 : S15	ND	ND	7.96	ND	ND	ND
Harmony	2	N200 : S40	ND	ND	11.84	ND	ND	ND
Harmony	3	N0 : S0	ND	ND	8.89	ND	ND	ND
Harmony	3	N0 : S15	ND	ND	ND	ND	ND	ND
Harmony	3	N0 : S40	ND	ND	5.80	ND	ND	ND
Harmony	3	N100 : S0	ND	ND	5.67	ND	ND	ND
Harmony	3	N100 : S15	ND	ND	8.59	ND	ND	ND
Harmony	3	N100 : S40	ND	ND	9.84	ND	ND	ND
Harmony	3	N200 : S0	ND	ND	7.88	ND	ND	ND
Harmony	3	N200 : S15	ND	ND	9.08	ND	ND	ND
Harmony	3	N200 : S40	ND	ND	9.42	ND	ND	ND
Umatilla	1	N0 : S0	ND	ND	9.49	ND	ND	ND
Umatilla	1	N0 : S15	ND	ND	9.73	ND	ND	ND
Umatilla	1	N0 : S40	ND	ND	13.13	ND	5.02	ND
Umatilla	1	N100 : S0	ND	ND	12.37	ND	ND	ND
Umatilla	1	N100 : S15	ND	ND	12.51	ND	ND	ND
Umatilla	1	N100 : S40	ND	ND	13.05	ND	4.97	ND
Umatilla	1	N200 : S0	ND	ND	15.08	ND	5.77	ND
Umatilla	1	N200 : S15	ND	ND	13.11	ND	4.98	ND
Umatilla	1	N200 : S40	4.85	ND	14.39	ND	5.83	ND
Umatilla	2	N0 : S0	ND	ND	9.69	ND	ND	ND
Umatilla	2	N0 : S15	ND	ND	9.69	ND	ND	ND
Umatilla	2	N0 : S40	ND	ND	10.41	ND	ND	ND
Umatilla	2	N100 : S0	ND	ND	11.27	ND	ND	ND
Umatilla	2	N100 : S15	ND	ND	10.93	ND	ND	ND
Umatilla	2	N100 : S40	ND	ND	10.66	ND	ND	ND
Umatilla	2	N200 : S0	ND	ND	11.74	ND	ND	ND

Umatilla	2	N200 : S15	ND	ND	14.92	ND	5.66	ND
Umatilla	2	N200 : S40	5.09	ND	15.44	ND	5.60	ND
Umatilla	3	N0 : S15	ND	ND	11.03	ND	ND	ND
Umatilla	3	N0 : S40	ND	ND	12.97	ND	4.57	ND
Umatilla	3	N100 : S0	ND	ND	9.91	ND	ND	ND
Umatilla	3	N100 : S15	4.71	ND	13.71	ND	4.91	ND
Umatilla	3	N100 : S40	ND	ND	10.61	ND	ND	ND
Umatilla	3	N200 : S0	ND	ND	12.41	ND	4.39	ND
Umatilla	3	N200 : S15	ND	ND	9.46	ND	ND	ND
Umatilla	3	N200 : S40	ND	ND	14.73	ND	5.68	ND
Umatilla	3	N0 : S0	ND	ND	10.97	ND	ND	ND
Lady Rosetta	1	N0 : S0	ND	ND	ND	ND	ND	ND
Lady Rosetta	1	N0 : S15	ND	ND	ND	ND	ND	ND
Lady Rosetta	1	N0 : S40	ND	ND	ND	ND	ND	ND
Lady Rosetta	1	N100 : S0	ND	ND	4.92	ND	ND	ND
Lady Rosetta	1	N100 : S15	ND	ND	4.78	ND	ND	ND
Lady Rosetta	1	N100 : S40	ND	ND	7.38	ND	4.19	ND
Lady Rosetta	1	N200 : S0	ND	ND	4.44	ND	ND	ND
Lady Rosetta	1	N200 : S15	ND	ND	5.00	ND	ND	ND
Lady Rosetta	1	N200 : S40	ND	ND	5.43	ND	ND	3.81
Lady Rosetta	2	N0 : S0	ND	ND	ND	ND	ND	ND
Lady Rosetta	2	N0 : S15	ND	ND	ND	ND	ND	ND
Lady Rosetta	2	N0 : S40	ND	ND	ND	ND	ND	ND
Lady Rosetta	2	N100 : S40	*	*	*	*	*	*
Lady Rosetta	2	N200 : S0	ND	ND	3.91	ND	ND	ND
Lady Rosetta	2	N200 : S15	ND	ND	5.11	ND	ND	ND
Lady Rosetta	2	N200 : S40	ND	ND	4.02	ND	ND	ND
Lady Rosetta	3	N0 : S0	ND	ND	3.96	ND	ND	ND
Lady Rosetta	3	N0 : S15	ND	ND	ND	ND	ND	ND
Lady Rosetta	3	N0 : S40	ND	ND	ND	ND	ND	ND
Lady Rosetta	3	N100 : S0	ND	ND	4.16	ND	ND	ND
Lady Rosetta	3	N100 : S15	ND	ND	3.80	ND	ND	ND
Lady Rosetta	3	N100 : S40	ND	ND	3.95	ND	ND	ND
Lady Rosetta	3	N200 : S0	ND	ND	4.32	ND	ND	ND
Lady Rosetta	3	N200 : S15	4.74	ND	4.53	ND	ND	3.64
Lady Rosetta	3	N200 : S40	4.43	ND	4.35	ND	ND	ND
Lady Rosetta	2	N100 : S0	4.36	ND	3.89	ND	ND	ND
Lady Rosetta	2	N100 : S15	ND	ND	3.91	ND	ND	ND
Saturna	1	N0 : S0	ND	ND	4.41	ND	ND	ND
Saturna	1	N0 : S15	ND	ND	ND	ND	ND	ND
Saturna	1	N0 : S40	ND	ND	ND	ND	ND	ND
Saturna	1	N100 : S0	ND	ND	ND	ND	ND	ND
Saturna	1	N100 : S15	*	*	*	*	*	*
Saturna	1	N100 : S40	ND	ND	ND	ND	ND	ND
Saturna	1	N200 : S0	ND	ND	ND	ND	ND	ND
Saturna	1	N200 : S15	ND	ND	5.62	ND	ND	ND
Saturna	1	N200 : S40	ND	ND	5.96	ND	ND	ND
Saturna	2	N0 : S0	ND	ND	ND	ND	ND	ND
Saturna	2	N0 : S15	ND	ND	4.20	ND	ND	ND
Saturna	2	N0 : S40	ND	ND	5.14	ND	ND	ND

Saturna	2	N100 : S0	ND	ND	5.53	ND	ND	ND
Saturna	2	N100 : S15	ND	ND	4.41	ND	ND	ND
Saturna	2	N100 : S40	ND	ND	7.24	ND	ND	ND
Saturna	2	N200 : S0	ND	ND	5.46	ND	ND	ND
Saturna	2	N200 : S15	ND	ND	7.97	ND	4.50	ND
Saturna	2	N200 : S40	ND	ND	6.11	ND	ND	ND
Saturna	3	N0 : S0	ND	ND	4.10	ND	ND	ND
Saturna	3	N0 : S15	ND	ND	5.57	ND	ND	ND
Saturna	3	N0 : S40	ND	ND	5.18	ND	ND	ND
Saturna	3	N100 : S0	ND	ND	5.40	ND	ND	ND
Saturna	3	N100 : S15	ND	ND	5.14	ND	ND	ND
Saturna	3	N100 : S40	ND	ND	6.23	ND	ND	ND
Saturna	3	N200 : S0	5.13	ND	7.60	ND	ND	ND
Saturna	3	N200 : S15	ND	ND	5.60	ND	ND	ND
Saturna	3	N200 : S40	ND	ND	7.68	ND	ND	ND
Hermes	1	N0 : S0	5.04	ND	7.22	ND	ND	ND
Hermes	1	N0 : S15	ND	ND	6.38	ND	ND	ND
Hermes	1	N0 : S40	ND	ND	7.37	ND	ND	ND
Hermes	1	N100 : S0	ND	ND	7.64	ND	ND	4.44
Hermes	1	N100 : S15	ND	ND	7.07	ND	ND	ND
Hermes	1	N100 : S40	4.82	ND	8.52	ND	4.50	5.85
Hermes	1	N200 : S0	5.82	ND	10.19	ND	4.92	6.10
Hermes	1	N200 : S15	8.03	ND	16.15	5.08	7.58	5.62
Hermes	1	N200 : S40	5.63	ND	10.99	ND	5.32	ND
Hermes	2	N0 : S0	4.34	ND	7.75	ND	ND	4.67
Hermes	2	N0 : S15	ND	ND	7.48	ND	ND	ND
Hermes	2	N0 : S40	4.56	ND	8.27	ND	4.21	4.60
Hermes	2	N100 : S0	ND	ND	5.43	ND	ND	ND
Hermes	2	N100 : S15	4.64	ND	8.44	ND	4.16	4.82
Hermes	2	N100 : S40	4.63	ND	8.42	ND	4.35	ND
Hermes	2	N200 : S0	4.89	ND	7.33	ND	ND	5.77
Hermes	2	N200 : S15	5.98	ND	10.05	ND	4.80	ND
Hermes	2	N200 : S40	4.75	ND	9.18	ND	4.07	5.53
Hermes	3	N0 : S0	ND	ND	5.86	ND	ND	ND
Hermes	3	N0 : S15	ND	ND	6.72	ND	ND	4.43
Hermes	3	N0 : S40	ND	ND	5.71	ND	ND	4.28
Hermes	3	N100 : S0	ND	ND	6.35	ND	ND	ND
Hermes	3	N100 : S15	ND	ND	8.81	ND	4.49	ND
Hermes	3	N100 : S40	5.82	ND	8.71	ND	4.37	6.03
Hermes	3	N200 : S0	5.38	ND	10.50	ND	4.90	4.29
Hermes	3	N200 : S15	4.62	ND	9.13	ND	4.48	5.44
Hermes	3	N200 : S40	4.47	ND	7.56	ND	ND	ND
Verdi	1	N0 : S0	ND	ND	ND	ND	ND	ND
Verdi	1	N0 : S15	ND	ND	ND	ND	ND	ND
Verdi	1	N0 : S40	ND	ND	ND	ND	ND	ND
Verdi	1	N100 : S0	ND	ND	ND	ND	ND	ND
Verdi	1	N100 : S15	ND	ND	ND	ND	ND	ND
Verdi	1	N100 : S40	ND	ND	ND	ND	ND	ND
Verdi	1	N200 : S0	ND	ND	ND	ND	ND	ND
Verdi	1	N200 : S15	ND	ND	ND	ND	ND	ND

Verdi	1	N200 : S40	ND	ND	ND	ND	ND	ND
Verdi	2	N0 : S0	ND	ND	ND	ND	ND	ND
Verdi	2	N0 : S15	ND	ND	ND	ND	ND	ND
Verdi	2	N0 : S40	ND	ND	ND	ND	ND	ND
Verdi	2	N100 : S0	ND	ND	ND	ND	ND	ND
Verdi	2	N100 : S15	ND	ND	ND	ND	ND	ND
Verdi	2	N100 : S40	ND	ND	ND	ND	ND	ND
Verdi	2	N200 : S0	ND	ND	ND	ND	ND	ND
Verdi	2	N200 : S15	ND	ND	ND	ND	ND	ND
Verdi	2	N200 : S40	ND	ND	ND	ND	ND	ND
Verdi	3	N0 : S0	ND	ND	ND	ND	ND	ND
Verdi	3	N0 : S15	ND	ND	ND	ND	ND	ND
Verdi	3	N0 : S40	ND	ND	ND	ND	ND	ND
Verdi	3	N100 : S0	ND	ND	ND	ND	ND	ND
Verdi	3	N100 : S15	ND	ND	ND	ND	ND	ND
Verdi	3	N100 : S40	ND	ND	ND	ND	ND	ND
Verdi	3	N200 : S0	ND	ND	ND	ND	ND	ND
Verdi	3	N200 : S15	ND	ND	ND	ND	ND	ND
Verdi	3	N200 : S40	ND	ND	ND	ND	ND	ND
Pentland Del	1	N0 : S0	4.63	ND	8.35	ND	ND	4.49
Pentland Del	1	N0 : S15	ND	ND	7.47	ND	ND	ND
Pentland Del	1	N0 : S40	5.40	ND	11.12	ND	ND	ND
Pentland Del	1	N100 : S0	6.74	ND	8.38	ND	ND	ND
Pentland Del	1	N100 : S15	8.11	ND	13.16	ND	5.44	ND
Pentland Del	1	N100 : S40	5.50	ND	8.67	ND	ND	ND
Pentland Del	1	N200 : S0	7.33	ND	8.65	ND	ND	4.98
Pentland Del	1	N200 : S15	8.88	ND	12.23	ND	ND	6.28
Pentland Del	1	N200 : S40	6.73	ND	10.55	ND	ND	ND
Pentland Del	2	N0 : S0	4.42	ND	8.62	ND	ND	4.72
Pentland Del	2	N0 : S15	8.20	ND	10.84	ND	ND	4.99
Pentland Del	2	N0 : S40	5.77	ND	11.62	ND	4.75	ND
Pentland Del	2	N100 : S0	5.47	ND	9.17	ND	ND	ND
Pentland Del	2	N100 : S15	7.30	ND	11.08	ND	ND	ND
Pentland Del	2	N100 : S40	8.62	ND	13.30	ND	5.54	ND
Pentland Del	2	N200 : S0	7.09	ND	7.09	ND	ND	4.18
Pentland Del	2	N200 : S15	6.50	ND	9.66	ND	ND	5.50
Pentland Del	2	N200 : S40	7.83	ND	10.11	ND	4.27	ND
Pentland Del	3	N0 : S0	4.58	ND	8.79	ND	ND	ND
Pentland Del	3	N0 : S15	5.13	ND	9.47	ND	ND	ND
Pentland Del	3	N0 : S40	4.91	ND	8.94	ND	ND	ND
Pentland Del	3	N100 : S0	6.59	ND	12.08	ND	ND	ND
Pentland Del	3	N100 : S15	8.56	ND	10.40	ND	4.33	ND
Pentland Del	3	N100 : S40	6.73	ND	8.96	ND	ND	ND
Pentland Del	3	N200 : S0	6.48	ND	10.75	ND	4.24	ND
Pentland Del	3	N200 : S15	*	*	*	*	*	*
Pentland Del	3	N200 : S40	7.28	ND	10.24	ND	ND	ND
usset Burbar	1	N0 : S0	ND	ND	9.87	ND	ND	ND
usset Burbar	1	N0 : S15	ND	ND	6.29	ND	ND	ND
usset Burbar	1	N0 : S40	ND	ND	7.45	ND	ND	ND
usset Burbar	1	N100 : S0	ND	ND	12.31	ND	4.86	ND

usset Burbar	1	N100 : S15	ND	ND	11.24	ND	ND	ND
usset Burbar	1	N100 : S40	ND	ND	13.95	ND	5.18	ND
usset Burbar	1	N200 : S0	5.73	ND	17.65	ND	7.17	4.90
usset Burbar	1	N200 : S15	ND	ND	10.30	ND	ND	ND
usset Burbar	1	N200 : S40	ND	ND	14.37	ND	5.14	ND
usset Burbar	2	N0 : S0	ND	ND	12.82	ND	4.81	ND
usset Burbar	2	N0 : S15	ND	ND	9.86	ND	3.99	ND
usset Burbar	2	N0 : S40	ND	ND	11.95	ND	ND	ND
usset Burbar	2	N100 : S0	ND	ND	13.37	ND	4.89	ND
usset Burbar	2	N100 : S15	ND	ND	13.96	ND	5.71	ND
usset Burbar	2	N100 : S40	ND	ND	11.32	ND	ND	ND
usset Burbar	2	N200 : S0	5.28	ND	15.74	ND	5.88	ND
usset Burbar	2	N200 : S15	ND	ND	13.11	ND	5.02	ND
usset Burbar	2	N200 : S40	5.99	ND	15.54	ND	6.07	4.45
usset Burbar	3	N0 : S0	5.18	ND	16.23	ND	6.20	ND
usset Burbar	3	N0 : S15	ND	ND	11.92	ND	4.71	ND
usset Burbar	3	N0 : S40	ND	ND	12.10	ND	4.77	ND
usset Burbar	3	N100 : S0	18.76	ND	16.41	ND	6.25	13.34
usset Burbar	3	N100 : S15	4.86	ND	12.89	ND	5.08	ND
usset Burbar	3	N100 : S40	5.41	ND	14.29	ND	5.64	4.15
usset Burbar	3	N200 : S0	7.66	ND	20.80	4.39	8.19	5.81
usset Burbar	3	N200 : S15	5.50	ND	14.25	ND	5.63	ND
usset Burbar	3	N200 : S40	10.63	ND	27.29	6.34	11.79	6.18
King Edward	1	N0 : S0	5.27	ND	8.62	ND	ND	ND
King Edward	1	N0 : S15	8.84	ND	12.19	ND	ND	ND
King Edward	1	N0 : S40	7.15	ND	8.77	ND	ND	ND
King Edward	1	N100 : S0	12.98	ND	11.72	ND	ND	ND
King Edward	1	N100 : S15	12.93	ND	11.53	ND	4.60	ND
King Edward	1	N100 : S40	15.25	ND	11.68	ND	ND	ND
King Edward	1	N200 : S0	7.12	ND	8.33	ND	3.38	ND
King Edward	1	N200 : S15	9.70	ND	10.96	ND	4.49	ND
King Edward	1	N200 : S40	12.69	ND	14.42	ND	6.12	5.10
King Edward	2	N0 : S0	8.20	ND	8.61	ND	ND	ND
King Edward	2	N0 : S15	7.57	ND	10.25	ND	ND	ND
King Edward	2	N0 : S40	9.33	ND	10.98	ND	4.36	ND
King Edward	2	N100 : S0	10.60	ND	12.42	ND	ND	4.96
King Edward	2	N100 : S15	12.28	ND	13.12	ND	4.82	5.15
King Edward	2	N100 : S40	7.78	ND	10.17	ND	ND	ND
King Edward	2	N200 : S0	13.22	ND	10.87	ND	4.46	ND
King Edward	2	N200 : S15	11.38	ND	11.23	ND	4.58	4.37
King Edward	2	N200 : S40	10.81	ND	13.30	ND	5.27	5.11
King Edward	3	N0 : S0	4.45	ND	9.76	ND	ND	ND
King Edward	3	N0 : S15	7.78	ND	11.25	ND	ND	ND
King Edward	3	N0 : S40	ND	ND	8.54	ND	ND	ND
King Edward	3	N100 : S0	6.31	ND	19.71	ND	7.55	5.70
King Edward	3	N100 : S15	10.99	ND	14.66	ND	5.40	5.94
King Edward	3	N100 : S40	13.28	ND	15.55	ND	6.25	6.23
King Edward	3	N200 : S0	8.09	ND	11.12	ND	ND	4.37
King Edward	3	N200 : S15	12.86	ND	13.92	ND	5.32	4.93
King Edward	3	N200 : S40	13.82	ND	13.66	ND	5.22	5.14

Markies	1	N0 : S0	7.02	ND	4.67	ND	ND	ND
Markies	1	N0 : S15	6.70	ND	5.11	ND	ND	ND
Markies	1	N0 : S40	4.91	ND	4.10	ND	ND	11.50
Markies	1	N100 : S0	6.42	ND	4.47	ND	ND	12.93
Markies	1	N100 : S15	7.13	ND	4.42	ND	ND	11.50
Markies	1	N100 : S40	4.31	ND	5.08	ND	ND	12.76
Markies	1	N200 : S0	4.14	ND	4.58	ND	ND	ND
Markies	1	N200 : S15	7.12	ND	9.18	ND	4.74	ND
Markies	1	N200 : S40	8.16	ND	9.78	ND	ND	18.39
Markies	2	N0 : S0	7.85	ND	ND	ND	ND	ND
Markies	2	N0 : S15	7.09	ND	4.10	ND	ND	ND
Markies	2	N0 : S40	*	*	*	*	*	*
Markies	2	N100 : S0	5.65	ND	5.82	ND	ND	15.94
Markies	2	N100 : S15	8.94	ND	6.21	ND	ND	15.64
Markies	2	N100 : S40	6.26	ND	5.04	ND	ND	13.99
Markies	2	N200 : S0	7.86	ND	7.67	ND	ND	ND
Markies	2	N200 : S15	7.19	ND	6.23	ND	ND	ND
Markies	2	N200 : S40	9.35	ND	7.70	ND	ND	16.33
Markies	3	N0 : S0	4.92	ND	3.87	ND	ND	ND
Markies	3	N0 : S15	7.46	ND	5.25	ND	ND	ND
Markies	3	N0 : S40	5.68	ND	4.45	ND	ND	12.62
Markies	3	N100 : S0	5.29	ND	6.20	ND	ND	13.99
Markies	3	N100 : S15	4.90	ND	5.85	ND	ND	12.39
Markies	3	N100 : S40	6.07	ND	5.12	ND	ND	12.39
Markies	3	N200 : S0	7.49	ND	8.31	ND	ND	ND
Markies	3	N200 : S15	6.86	ND	8.64	ND	ND	ND
Markies	3	N200 : S40	*	*	*	*	*	*
Maris Piper	1	N0 : S0	6.62	ND	7.04	ND	ND	12.01
Maris Piper	1	N0 : S15	6.43	ND	7.86	ND	ND	11.73
Maris Piper	1	N0 : S40	7.81	ND	8.32	ND	ND	14.32
Maris Piper	1	N100 : S0	6.98	ND	8.90	ND	4.16	14.58
Maris Piper	1	N100 : S15	7.31	ND	7.89	ND	ND	13.55
Maris Piper	1	N100 : S40	5.71	ND	7.49	ND	4.02	12.68
Maris Piper	1	N200 : S0	7.74	ND	9.41	ND	4.93	15.47
Maris Piper	1	N200 : S15	7.08	ND	6.12	ND	ND	13.04
Maris Piper	1	N200 : S40	4.53	ND	7.74	ND	4.11	12.42
Maris Piper	2	N0 : S0	7.69	ND	5.68	ND	ND	10.13
Maris Piper	2	N0 : S15	5.72	ND	8.05	ND	ND	12.38
Maris Piper	2	N0 : S40	6.32	ND	6.97	ND	ND	11.35
Maris Piper	2	N100 : S0	8.74	ND	8.85	ND	4.42	14.33
Maris Piper	2	N100 : S15	7.81	ND	7.90	ND	4.18	13.89
Maris Piper	2	N100 : S40	6.04	ND	8.77	ND	ND	14.21
Maris Piper	2	N200 : S0	6.66	ND	9.43	ND	4.71	13.75
Maris Piper	2	N200 : S15	7.91	ND	9.50	ND	4.51	15.25
Maris Piper	2	N200 : S40	7.32	ND	9.87	ND	4.89	15.15
Maris Piper	3	N0 : S0	6.35	ND	8.76	ND	ND	12.75
Maris Piper	3	N0 : S15	4.32	ND	7.55	ND	ND	12.96
Maris Piper	3	N0 : S40	7.95	ND	9.30	ND	4.50	14.08
Maris Piper	3	N100 : S0	6.26	ND	8.63	ND	4.18	14.87
Maris Piper	3	N100 : S15	4.68	ND	10.21	ND	4.77	14.73

Maris Piper	3	N100 : S40	ND	ND	6.46	ND	ND	11.77
Maris Piper	3	N200 : S0	4.03	ND	9.09	ND	4.49	13.65
Maris Piper	3	N200 : S15	4.89	ND	9.51	ND	4.34	14.15
Maris Piper	3	N200 : S40	5.21	ND	10.01	ND	4.89	14.41

Rep	Treatment (kg/Ha)	Serine mmol/kg DW	Proline mmol/kg DW	Asparagine mmol/kg DW	Aspartic acid mmol/kg DW	Methionine mmol/kg DW	Glutamic acid mmol/kg DW
1	N0 : S0	6.44	ND	68.37	17.90	ND	23.40
1	N0 : S15	5.20	ND	53.04	15.11	ND	20.28
1	N0 : S40	*	*	*	*	*	*
1	N100 : S0	5.95	ND	68.81	16.64	ND	22.08
1	N100 : S15	7.39	10.16	104.07	18.40	ND	23.17
1	N100 : S40	7.55	10.19	105.95	17.90	ND	25.32
1	N200 : S0	7.18	6.69	100.14	19.45	ND	20.82
1	N200 : S15	ND	9.76	37.02	10.76	ND	13.38
1	N200 : S40	ND	5.71	33.51	9.12	ND	12.04
2	N0 : S0	ND	ND	21.49	9.05	ND	12.73
2	N0 : S15	ND	ND	14.53	8.31	ND	11.43
2	N0 : S40	ND	ND	10.71	7.62	ND	10.99
2	N100 : S0	ND	ND	17.79	7.66	ND	10.31
2	N100 : S15	ND	ND	18.97	8.61	ND	10.53
2	N100 : S40	ND	6.23	31.88	11.19	ND	12.79
2	N200 : S0	ND	10.15	36.97	9.68	ND	13.77
2	N200 : S15	ND	7.14	38.60	9.87	ND	12.71
2	N200 : S40	ND	5.86	32.45	7.71	ND	11.88
3	N0 : S0	ND	ND	21.40	8.41	ND	14.42
3	N0 : S15	ND	ND	15.88	7.86	ND	10.86
3	N0 : S40	ND	ND	10.01	7.60	ND	11.00
3	N100 : S0	ND	5.97	38.94	10.05	ND	13.82
3	N100 : S15	ND	ND	26.11	9.67	ND	13.17
3	N100 : S40	ND	9.64	30.62	9.46	ND	13.05
3	N200 : S0	ND	4.82	35.17	9.54	ND	13.00
3	N200 : S15	ND	6.96	36.81	9.64	ND	13.09
3	N200 : S40	ND	10.15	39.04	10.01	ND	13.73
1	N0 : S0	ND	ND	5.88	7.75	ND	8.34
1	N0 : S15	ND	ND	8.13	9.33	ND	10.63
1	N0 : S40	*	*	*	*	*	*
1	N100 : S0	ND	ND	6.54	9.09	ND	8.75
1	N100 : S15	ND	ND	11.97	9.32	ND	10.88
1	N100 : S40	ND	ND	6.03	8.83	ND	9.31
1	N200 : S0	ND	ND	11.21	10.31	ND	9.93
1	N200 : S15	ND	8.05	22.59	11.43	ND	10.86
1	N200 : S40	ND	ND	11.30	9.15	ND	9.51
2	N0 : S0	ND	ND	ND	7.59	ND	9.08
2	N0 : S15	ND	ND	ND	8.05	ND	9.25
2	N0 : S40	ND	ND	ND	8.25	ND	9.64
2	N100 : S0	ND	ND	7.39	9.28	ND	9.05
2	N100 : S15	ND	9.89	17.26	10.40	ND	11.42
2	N100 : S40	ND	ND	9.46	9.92	ND	9.87
2	N200 : S0	ND	4.77	10.65	10.03	ND	9.14
2	N200 : S15	ND	5.21	17.06	9.56	ND	11.29
2	N200 : S40	ND	ND	5.26	8.99	ND	9.21
3	N0 : S0	ND	ND	5.14	10.96	ND	10.88
3	N0 : S15	ND	18.09	16.89	12.51	ND	8.93

3	NO : S40	ND	ND	6.53	10.66	ND	11.13
3	N100 : S0	ND	4.92	8.25	10.62	ND	9.41
3	N100 : S15	ND	ND	7.61	9.56	ND	8.95
3	N100 : S40	ND	17.30	19.80	11.75	ND	9.08
3	N200 : S0	ND	ND	11.89	10.67	ND	10.16
3	N200 : S15	ND	ND	10.15	8.85	ND	8.82
3	N200 : S40	ND	ND	6.37	6.81	ND	5.87
1	NO : S0	ND	ND	7.43	8.15	ND	7.64
1	NO : S15	ND	ND	11.28	6.69	ND	6.39
1	NO : S40	*	*	*	*	*	*
1	N100 : S0	ND	ND	48.81	13.65	ND	14.25
1	N100 : S15	ND	ND	37.10	12.64	ND	10.90
1	N100 : S40	ND	ND	51.91	13.26	ND	12.22
1	N200 : S0	ND	ND	75.63	17.15	ND	15.62
1	N200 : S15	ND	ND	70.10	15.64	ND	14.08
1	N200 : S40	ND	ND	46.21	14.49	ND	14.75
2	NO : S0	ND	ND	34.73	12.59	ND	13.06
2	NO : S15	ND	ND	12.22	ND	ND	ND
2	NO : S40	ND	ND	40.20	11.62	ND	12.36
2	N100 : S0	ND	ND	40.20	13.34	ND	13.99
2	N100 : S15	ND	ND	37.37	10.22	ND	11.37
2	N100 : S40	ND	ND	47.15	15.54	ND	14.65
2	N200 : S0	ND	ND	72.19	15.61	ND	14.69
2	N200 : S15	ND	ND	70.04	13.91	ND	14.29
2	N200 : S40	ND	5.59	58.51	13.86	ND	15.43
3	NO : S0	ND	ND	64.85	14.00	ND	15.09
3	NO : S15	ND	ND	29.42	12.69	ND	13.98
3	NO : S40	ND	ND	40.52	13.53	ND	15.02
3	N100 : S0	ND	ND	37.85	14.15	ND	14.27
3	N100 : S15	ND	ND	62.35	15.27	ND	15.18
3	N100 : S40	ND	ND	62.15	15.80	ND	15.68
3	N200 : S0	ND	ND	58.70	14.22	ND	13.45
3	N200 : S15	ND	ND	76.13	15.39	ND	15.58
3	N200 : S40	ND	ND	57.56	12.99	ND	12.28
1	NO : S0	ND	ND	62.95	14.74	ND	15.69
1	NO : S15	ND	ND	46.87	13.38	ND	13.80
1	NO : S40	ND	6.30	60.73	17.02	4.58	19.10
1	N100 : S0	ND	ND	63.07	16.25	ND	17.62
1	N100 : S15	ND	11.09	72.11	14.86	4.63	14.54
1	N100 : S40	ND	6.87	67.72	13.58	4.70	13.95
1	N200 : S0	ND	ND	84.34	17.65	ND	17.58
1	N200 : S15	ND	4.48	89.17	13.92	4.63	14.38
1	N200 : S40	ND	5.63	81.23	14.91	5.18	15.82
2	NO : S0	ND	ND	47.09	14.74	ND	16.61
2	NO : S15	ND	7.53	52.83	14.21	ND	16.64
2	NO : S40	ND	ND	49.50	13.99	ND	17.24
2	N100 : S0	ND	ND	56.17	14.08	ND	17.28
2	N100 : S15	ND	ND	52.58	12.05	ND	15.70
2	N100 : S40	ND	ND	44.67	13.34	ND	17.54
2	N200 : S0	ND	ND	65.99	13.25	ND	14.98

2	N200 : S15	ND	8.21	105.93	16.76	5.33	11.87
2	N200 : S40	ND	10.70	84.57	13.99	5.51	17.92
3	NO : S15	ND	6.39	51.69	14.58	ND	14.90
3	NO : S40	ND	7.48	62.28	13.57	ND	18.34
3	N100 : S0	ND	5.70	68.92	13.19	ND	15.16
3	N100 : S15	ND	8.01	87.29	15.14	ND	18.43
3	N100 : S40	ND	ND	58.01	12.97	ND	14.98
3	N200 : S0	ND	8.50	70.03	14.68	4.53	17.21
3	N200 : S15	ND	7.29	69.08	12.87	ND	15.20
3	N200 : S40	ND	9.61	81.49	14.25	ND	17.08
3	NO : S0	ND	ND	47.44	14.40	ND	15.29
1	NO : S0	ND	ND	19.82	8.28	ND	15.46
1	NO : S15	ND	ND	20.22	8.87	ND	17.17
1	NO : S40	ND	ND	20.01	8.19	ND	15.47
1	N100 : S0	ND	ND	37.67	10.15	ND	19.34
1	N100 : S15	ND	13.09	47.66	9.38	ND	17.77
1	N100 : S40	ND	ND	67.14	14.62	ND	19.03
1	N200 : S0	ND	ND	46.00	9.47	ND	17.29
1	N200 : S15	ND	3.89	39.04	10.04	ND	19.24
1	N200 : S40	ND	9.17	60.44	7.96	ND	14.48
2	NO : S0	ND	ND	25.18	8.63	ND	16.45
2	NO : S15	ND	ND	26.08	9.47	ND	19.34
2	NO : S40	ND	ND	22.76	9.17	ND	18.84
2	N100 : S40	*	*	*	*	*	*
2	N200 : S0	ND	ND	26.68	9.99	ND	18.38
2	N200 : S15	ND	ND	40.41	7.41	ND	16.61
2	N200 : S40	ND	ND	38.28	7.48	ND	15.99
3	NO : S0	ND	ND	40.84	12.04	ND	15.07
3	NO : S15	ND	ND	20.46	8.90	ND	17.11
3	NO : S40	ND	ND	18.01	8.93	ND	18.38
3	N100 : S0	ND	7.90	36.32	8.93	ND	15.33
3	N100 : S15	ND	ND	21.24	9.28	ND	17.47
3	N100 : S40	ND	7.22	35.86	10.07	ND	17.10
3	N200 : S0	ND	11.07	38.76	8.46	ND	15.61
3	N200 : S15	ND	ND	38.87	5.64	ND	14.59
3	N200 : S40	ND	5.80	34.89	7.33	ND	19.06
2	N100 : S0	ND	ND	38.06	7.12	ND	18.43
2	N100 : S15	ND	ND	21.10	5.89	ND	16.71
1	NO : S0	ND	ND	48.26	13.11	ND	16.83
1	NO : S15	ND	ND	41.64	12.88	ND	16.15
1	NO : S40	ND	ND	39.32	13.19	ND	16.24
1	N100 : S0	ND	ND	36.84	11.92	ND	16.45
1	N100 : S15	*	*	*	*	*	*
1	N100 : S40	ND	ND	16.82	7.29	ND	14.46
1	N200 : S0	ND	ND	49.48	12.44	ND	17.14
1	N200 : S15	ND	ND	56.62	12.94	ND	19.95
1	N200 : S40	ND	ND	62.25	16.08	ND	20.06
2	NO : S0	ND	ND	38.80	12.67	ND	17.62
2	NO : S15	ND	ND	39.18	13.66	ND	18.92
2	NO : S40	ND	ND	53.28	13.62	ND	16.46

2	N100 : S0	ND	ND	55.66	15.41	ND	19.72
2	N100 : S15	ND	ND	64.28	14.47	ND	17.56
2	N100 : S40	ND	ND	65.27	17.24	ND	21.29
2	N200 : S0	ND	ND	74.15	14.76	ND	15.78
2	N200 : S15	ND	ND	80.25	15.97	ND	16.91
2	N200 : S40	ND	ND	80.31	13.41	ND	18.32
3	NO : S0	ND	ND	49.66	11.32	ND	18.21
3	NO : S15	ND	ND	50.07	14.09	ND	19.80
3	NO : S40	ND	ND	51.81	14.37	ND	22.37
3	N100 : S0	ND	ND	76.71	14.25	ND	19.44
3	N100 : S15	ND	ND	59.90	13.61	ND	19.42
3	N100 : S40	ND	ND	68.51	17.40	ND	20.20
3	N200 : S0	ND	ND	81.64	17.24	ND	22.79
3	N200 : S15	ND	ND	87.01	14.64	ND	18.18
3	N200 : S40	ND	ND	82.84	15.72	ND	16.69
1	NO : S0	ND	ND	65.41	12.66	ND	20.50
1	NO : S15	ND	ND	63.08	12.43	ND	22.13
1	NO : S40	ND	ND	62.05	15.05	ND	23.80
1	N100 : S0	ND	ND	67.46	13.51	ND	17.91
1	N100 : S15	ND	ND	77.78	15.74	ND	20.99
1	N100 : S40	ND	ND	76.79	14.45	ND	19.75
1	N200 : S0	3.94	ND	90.63	14.85	ND	20.91
1	N200 : S15	6.06	ND	116.65	18.41	4.27	23.94
1	N200 : S40	4.37	ND	84.94	15.69	ND	23.95
2	NO : S0	ND	ND	86.20	14.03	ND	24.75
2	NO : S15	ND	ND	64.66	16.03	ND	25.40
2	NO : S40	ND	ND	75.31	12.40	ND	20.01
2	N100 : S0	ND	ND	54.37	15.15	ND	20.56
2	N100 : S15	ND	ND	80.51	13.88	ND	20.13
2	N100 : S40	ND	ND	81.67	16.09	ND	22.01
2	N200 : S0	ND	ND	106.69	14.87	ND	21.96
2	N200 : S15	ND	ND	80.71	14.27	ND	17.47
2	N200 : S40	ND	ND	116.72	14.70	ND	21.17
3	NO : S0	ND	ND	46.04	12.84	ND	19.30
3	NO : S15	ND	ND	58.10	13.58	ND	20.06
3	NO : S40	ND	ND	56.91	12.28	ND	19.01
3	N100 : S0	ND	ND	64.52	11.20	ND	16.32
3	N100 : S15	ND	ND	81.23	14.98	ND	21.44
3	N100 : S40	ND	ND	81.94	13.65	ND	20.49
3	N200 : S0	ND	ND	126.18	18.15	ND	26.70
3	N200 : S15	ND	ND	103.44	12.59	ND	17.24
3	N200 : S40	ND	ND	91.45	14.42	ND	22.31
1	NO : S0	ND	ND	33.85	9.95	ND	23.22
1	NO : S15	ND	ND	31.07	9.98	ND	20.63
1	NO : S40	ND	ND	25.63	8.36	ND	21.98
1	N100 : S0	ND	ND	31.06	10.27	ND	23.04
1	N100 : S15	ND	ND	28.63	8.47	ND	18.52
1	N100 : S40	ND	ND	44.97	10.74	ND	22.34
1	N200 : S0	ND	ND	80.85	16.63	ND	31.70
1	N200 : S15	ND	ND	59.99	11.12	ND	21.04

1	N200 : S40	ND	ND	79.29	13.93	ND	26.79
2	NO : S0	ND	ND	22.21	9.01	ND	20.11
2	NO : S15	ND	ND	24.04	9.61	ND	22.81
2	NO : S40	ND	ND	20.78	9.06	ND	20.07
2	N100 : S0	ND	ND	43.80	9.29	ND	20.91
2	N100 : S15	ND	ND	68.24	16.37	ND	28.58
2	N100 : S40	ND	ND	49.77	14.34	ND	25.49
2	N200 : S0	ND	ND	52.45	9.84	ND	19.46
2	N200 : S15	ND	ND	87.28	11.82	ND	24.48
2	N200 : S40	ND	ND	44.60	10.61	ND	21.05
3	NO : S0	ND	ND	18.25	6.93	ND	17.93
3	NO : S15	ND	ND	38.90	8.79	ND	20.31
3	NO : S40	ND	ND	20.11	6.62	ND	16.97
3	N100 : S0	ND	ND	35.29	6.50	ND	17.19
3	N100 : S15	ND	ND	22.73	6.62	ND	17.34
3	N100 : S40	ND	ND	44.50	7.65	ND	18.32
3	N200 : S0	ND	ND	60.91	7.75	ND	18.60
3	N200 : S15	ND	ND	48.44	6.89	ND	17.34
3	N200 : S40	ND	7.12	55.81	8.75	ND	18.99
1	NO : S0	ND	ND	40.29	15.84	ND	24.94
1	NO : S15	ND	ND	47.43	12.72	ND	22.65
1	NO : S40	5.52	4.86	64.24	16.55	ND	24.53
1	N100 : S0	ND	ND	49.21	14.96	ND	20.38
1	N100 : S15	7.05	8.94	90.20	22.36	ND	26.59
1	N100 : S40	5.26	ND	55.30	17.64	ND	22.86
1	N200 : S0	4.86	6.70	65.01	18.24	ND	23.93
1	N200 : S15	5.67	16.17	88.13	17.12	ND	21.62
1	N200 : S40	5.96	7.71	79.97	21.22	4.41	26.78
2	NO : S0	4.71	ND	48.92	13.21	ND	25.77
2	NO : S15	ND	ND	47.64	13.28	ND	25.71
2	NO : S40	6.15	6.78	74.12	18.79	ND	25.65
2	N100 : S0	5.34	ND	61.69	18.09	ND	26.34
2	N100 : S15	5.96	13.11	85.68	22.47	ND	28.90
2	N100 : S40	7.04	12.87	84.54	23.97	ND	26.12
2	N200 : S0	ND	ND	44.63	13.01	ND	18.86
2	N200 : S15	4.97	18.70	75.06	16.26	ND	23.39
2	N200 : S40	6.62	6.28	62.90	18.53	ND	23.32
3	NO : S0	5.71	5.03	51.23	19.72	ND	26.03
3	NO : S15	5.73	9.38	53.68	18.57	ND	23.38
3	NO : S40	5.77	6.83	52.84	18.46	ND	25.70
3	N100 : S0	7.17	24.39	103.11	21.96	ND	25.32
3	N100 : S15	6.32	12.51	72.33	19.06	ND	23.51
3	N100 : S40	5.10	10.33	60.91	17.90	ND	26.10
3	N200 : S0	6.13	17.07	71.25	21.16	ND	24.99
3	N200 : S15	*	*	*	*	*	*
3	N200 : S40	5.94	11.59	74.94	17.34	ND	21.17
1	NO : S0	ND	ND	58.50	14.08	ND	16.81
1	NO : S15	ND	ND	31.46	8.01	ND	9.31
1	NO : S40	ND	ND	42.00	12.27	ND	15.56
1	N100 : S0	4.77	ND	75.71	15.18	ND	13.83

1	N100 : S15	4.87	7.20	88.48	16.34	ND	15.48
1	N100 : S40	6.24	5.63	97.75	19.08	ND	19.26
1	N200 : S0	6.14	5.06	118.88	17.06	5.86	15.71
1	N200 : S15	ND	ND	61.26	13.65	ND	15.18
1	N200 : S40	5.68	ND	87.49	17.57	ND	17.17
2	NO : S0	5.30	ND	72.74	14.90	ND	19.88
2	NO : S15	ND	ND	50.51	12.68	ND	15.24
2	NO : S40	ND	ND	71.04	15.61	ND	16.35
2	N100 : S0	5.06	ND	78.94	16.66	ND	16.25
2	N100 : S15	5.16	ND	91.09	16.21	4.66	16.85
2	N100 : S40	4.68	ND	70.79	14.42	ND	16.17
2	N200 : S0	5.94	4.80	95.40	15.64	4.67	16.48
2	N200 : S15	5.21	4.47	100.50	16.66	ND	16.81
2	N200 : S40	6.12	6.01	115.00	16.92	5.28	16.79
3	NO : S0	5.41	ND	72.43	20.87	4.20	23.63
3	NO : S15	4.94	ND	53.32	14.44	ND	14.88
3	NO : S40	4.35	ND	57.15	15.80	ND	17.57
3	N100 : S0	8.66	7.10	54.05	19.12	4.78	24.00
3	N100 : S15	4.33	ND	62.66	13.49	ND	14.74
3	N100 : S40	5.29	ND	85.11	16.99	4.54	17.97
3	N200 : S0	7.72	7.83	125.25	21.92	6.09	21.07
3	N200 : S15	5.27	ND	77.17	16.21	4.33	16.21
3	N200 : S40	9.45	5.55	147.40	25.14	7.87	25.34
1	NO : S0	ND	4.33	40.63	11.79	ND	21.35
1	NO : S15	5.99	4.67	43.85	14.66	ND	24.36
1	NO : S40	4.99	ND	41.03	12.50	ND	20.11
1	N100 : S0	6.26	6.17	36.89	14.86	ND	23.07
1	N100 : S15	8.12	5.07	49.44	15.44	ND	25.11
1	N100 : S40	8.60	ND	40.03	13.95	ND	22.36
1	N200 : S0	5.49	4.93	40.12	11.90	ND	17.40
1	N200 : S15	7.41	6.49	57.45	16.10	ND	25.36
1	N200 : S40	9.28	7.18	62.38	19.74	ND	22.09
2	NO : S0	4.93	ND	34.11	11.90	ND	21.57
2	NO : S15	6.01	ND	42.23	14.98	ND	24.07
2	NO : S40	5.94	ND	44.28	15.32	ND	25.87
2	N100 : S0	6.71	ND	43.35	18.12	ND	27.73
2	N100 : S15	6.19	ND	43.24	17.13	ND	24.69
2	N100 : S40	5.91	5.55	47.56	17.29	ND	24.44
2	N200 : S0	6.70	ND	42.52	13.64	ND	19.48
2	N200 : S15	6.59	4.89	42.89	12.76	ND	21.96
2	N200 : S40	8.78	5.57	59.81	17.61	ND	26.25
3	NO : S0	4.76	ND	39.26	18.53	ND	17.18
3	NO : S15	5.62	ND	33.01	20.90	ND	17.09
3	NO : S40	ND	ND	38.47	19.28	ND	17.90
3	N100 : S0	7.48	ND	119.64	25.54	5.81	19.37
3	N100 : S15	7.49	9.72	65.60	27.08	ND	24.09
3	N100 : S40	9.90	8.39	62.55	29.51	ND	25.92
3	N200 : S0	6.09	8.90	43.63	19.21	ND	17.52
3	N200 : S15	7.88	ND	46.33	18.19	ND	16.87
3	N200 : S40	9.45	9.49	52.15	22.59	ND	22.96

1	NO : S0	ND	ND	41.16	9.11	ND	25.35
1	NO : S15	ND	ND	51.57	10.49	ND	26.88
1	NO : S40	ND	ND	35.56	7.91	ND	24.08
1	N100 : S0	ND	ND	31.66	7.42	ND	29.17
1	N100 : S15	ND	ND	42.82	6.48	ND	27.62
1	N100 : S40	ND	ND	37.87	9.66	ND	21.95
1	N200 : S0	ND	ND	39.56	11.25	ND	22.31
1	N200 : S15	5.81	ND	48.21	13.60	4.29	27.12
1	N200 : S40	ND	ND	57.47	9.14	ND	25.84
2	NO : S0	ND	ND	37.45	8.38	ND	27.08
2	NO : S15	ND	ND	35.37	9.27	ND	28.84
2	NO : S40	*	*	*	*	*	*
2	N100 : S0	ND	ND	44.38	13.32	ND	24.67
2	N100 : S15	ND	ND	47.52	8.18	ND	30.63
2	N100 : S40	ND	ND	38.89	9.72	ND	27.26
2	N200 : S0	4.12	ND	54.11	11.65	ND	23.16
2	N200 : S15	ND	ND	41.03	9.12	ND	24.72
2	N200 : S40	ND	4.24	46.97	6.19	ND	25.52
3	NO : S0	ND	ND	30.86	10.39	ND	26.08
3	NO : S15	ND	ND	31.18	12.00	ND	27.50
3	NO : S40	ND	ND	33.90	10.01	ND	25.58
3	N100 : S0	ND	ND	46.83	10.38	ND	27.64
3	N100 : S15	ND	ND	33.63	12.34	ND	23.18
3	N100 : S40	ND	ND	37.35	7.96	ND	24.67
3	N200 : S0	ND	6.03	65.74	14.65	ND	25.08
3	N200 : S15	4.57	4.53	61.34	13.30	ND	23.44
3	N200 : S40	*	*	*	*	*	*
1	NO : S0	ND	ND	33.67	8.88	ND	29.08
1	NO : S15	ND	ND	32.43	9.14	ND	22.83
1	NO : S40	ND	ND	36.29	8.43	ND	23.60
1	N100 : S0	ND	ND	38.91	7.83	ND	25.10
1	N100 : S15	ND	4.86	43.80	8.36	ND	25.77
1	N100 : S40	ND	ND	34.74	8.99	ND	26.34
1	N200 : S0	ND	ND	45.57	10.46	ND	26.02
1	N200 : S15	ND	ND	51.05	7.51	ND	27.61
1	N200 : S40	ND	4.04	36.07	11.18	ND	21.31
2	NO : S0	ND	ND	29.80	5.54	ND	21.80
2	NO : S15	ND	ND	31.42	8.38	ND	24.15
2	NO : S40	ND	ND	37.48	6.95	ND	24.43
2	N100 : S0	ND	ND	34.77	8.56	ND	22.53
2	N100 : S15	ND	ND	39.89	5.79	ND	25.74
2	N100 : S40	ND	ND	38.62	12.05	ND	24.90
2	N200 : S0	ND	5.35	46.03	10.72	ND	22.59
2	N200 : S15	ND	4.55	48.99	9.94	ND	23.28
2	N200 : S40	ND	ND	45.93	8.22	ND	25.53
3	NO : S0	ND	ND	28.92	9.03	ND	20.07
3	NO : S15	ND	ND	32.70	12.85	ND	22.79
3	NO : S40	ND	ND	33.52	10.33	ND	26.25
3	N100 : S0	ND	ND	43.73	10.50	ND	25.32
3	N100 : S15	4.32	ND	37.55	14.01	ND	21.66

3	N100 : S40	ND	ND	36.17	14.30	ND	23.09
3	N200 : S0	ND	ND	35.77	14.87	ND	21.72
3	N200 : S15	ND	7.33	45.85	14.09	ND	23.13
3	N200 : S40	ND	4.60	40.14	13.33	ND	19.68

Rep	Treatment (kg/Ha)	Phenylalanine mmol/kg DW	Glutamine mmol/kg DW	Lysine mmol/kg DW	Histidine mmol/kg DW	Tyrosine mmol/kg DW	Typtophan mmol/kg DW
1	N0 : S0	ND	23.87	ND	ND	ND	ND
1	N0 : S15	ND	18.98	ND	ND	ND	ND
1	N0 : S40	*	*	*	*	*	*
1	N100 : S0	ND	33.84	ND	ND	ND	ND
1	N100 : S15	ND	41.93	ND	ND	ND	ND
1	N100 : S40	ND	51.80	ND	4.82	ND	ND
1	N200 : S0	ND	54.69	ND	ND	ND	ND
1	N200 : S15	ND	20.90	ND	ND	ND	ND
1	N200 : S40	ND	22.07	ND	ND	ND	ND
2	N0 : S0	ND	11.05	ND	ND	ND	ND
2	N0 : S15	ND	6.95	ND	ND	ND	ND
2	N0 : S40	ND	6.94	ND	ND	ND	ND
2	N100 : S0	ND	13.35	ND	ND	ND	ND
2	N100 : S15	ND	10.29	ND	ND	ND	ND
2	N100 : S40	ND	13.84	ND	ND	ND	ND
2	N200 : S0	ND	19.48	ND	ND	ND	ND
2	N200 : S15	ND	27.73	ND	ND	ND	ND
2	N200 : S40	ND	22.42	ND	ND	ND	ND
3	N0 : S0	ND	9.36	ND	ND	ND	ND
3	N0 : S15	ND	6.05	ND	ND	ND	ND
3	N0 : S40	ND	5.67	ND	ND	ND	ND
3	N100 : S0	ND	18.28	ND	ND	ND	ND
3	N100 : S15	ND	17.25	ND	ND	ND	ND
3	N100 : S40	ND	16.28	ND	ND	ND	ND
3	N200 : S0	ND	21.31	ND	ND	ND	ND
3	N200 : S15	ND	23.80	ND	ND	ND	ND
3	N200 : S40	ND	21.37	ND	ND	ND	ND
1	N0 : S0	ND	8.28	ND	ND	ND	ND
1	N0 : S15	ND	12.82	ND	ND	ND	ND
1	N0 : S40	*	*	*	*	*	*
1	N100 : S0	ND	11.65	ND	ND	ND	ND
1	N100 : S15	ND	13.35	ND	ND	ND	ND
1	N100 : S40	ND	11.31	ND	ND	ND	ND
1	N200 : S0	ND	14.17	ND	ND	ND	ND
1	N200 : S15	ND	20.43	ND	ND	ND	ND
1	N200 : S40	ND	14.79	ND	ND	ND	ND
2	N0 : S0	ND	5.94	ND	ND	ND	ND
2	N0 : S15	ND	8.94	ND	ND	ND	ND
2	N0 : S40	ND	7.07	ND	ND	ND	ND
2	N100 : S0	ND	13.05	ND	ND	ND	ND
2	N100 : S15	ND	19.64	ND	ND	ND	ND
2	N100 : S40	ND	14.36	ND	ND	ND	ND
2	N200 : S0	ND	15.03	ND	ND	ND	ND
2	N200 : S15	ND	16.87	ND	ND	ND	ND
2	N200 : S40	ND	9.36	ND	ND	ND	ND
3	N0 : S0	ND	8.89	ND	ND	ND	ND
3	N0 : S15	ND	17.88	ND	ND	ND	ND

3	N0 : S40	ND	11.00	ND	ND	ND	ND
3	N100 : S0	ND	12.21	ND	ND	ND	ND
3	N100 : S15	ND	10.76	ND	ND	ND	ND
3	N100 : S40	ND	19.32	ND	ND	ND	ND
3	N200 : S0	ND	18.05	ND	ND	ND	ND
3	N200 : S15	ND	14.37	ND	ND	ND	ND
3	N200 : S40	ND	7.67	ND	ND	ND	ND
1	N0 : S0	ND	7.80	ND	ND	ND	ND
1	N0 : S15	ND	5.47	ND	ND	ND	ND
1	N0 : S40	*	*	*	*	*	*
1	N100 : S0	ND	24.70	ND	ND	ND	ND
1	N100 : S15	ND	16.53	ND	ND	ND	ND
1	N100 : S40	ND	22.51	ND	ND	ND	ND
1	N200 : S0	ND	42.68	ND	ND	ND	ND
1	N200 : S15	ND	37.74	ND	ND	ND	ND
1	N200 : S40	ND	22.68	ND	ND	ND	ND
2	N0 : S0	ND	14.67	ND	ND	ND	ND
2	N0 : S15	ND	7.09	ND	ND	ND	ND
2	N0 : S40	ND	14.74	ND	ND	ND	ND
2	N100 : S0	ND	22.09	ND	ND	ND	ND
2	N100 : S15	ND	17.13	ND	ND	ND	ND
2	N100 : S40	ND	22.55	ND	ND	ND	ND
2	N200 : S0	ND	38.19	ND	ND	ND	ND
2	N200 : S15	ND	34.49	ND	ND	ND	ND
2	N200 : S40	ND	24.14	ND	ND	ND	ND
3	N0 : S0	ND	41.62	ND	ND	ND	ND
3	N0 : S15	ND	14.81	ND	ND	ND	ND
3	N0 : S40	ND	19.17	ND	ND	ND	ND
3	N100 : S0	ND	17.87	ND	ND	ND	ND
3	N100 : S15	ND	40.07	ND	ND	ND	ND
3	N100 : S40	ND	33.86	ND	ND	ND	ND
3	N200 : S0	ND	28.92	ND	ND	ND	ND
3	N200 : S15	ND	39.43	ND	ND	ND	ND
3	N200 : S40	ND	37.34	ND	ND	ND	ND
1	N0 : S0	ND	40.77	ND	ND	ND	ND
1	N0 : S15	ND	17.00	ND	ND	ND	ND
1	N0 : S40	ND	20.36	ND	ND	ND	ND
1	N100 : S0	ND	27.92	ND	ND	ND	ND
1	N100 : S15	ND	27.14	ND	ND	ND	ND
1	N100 : S40	4.82	30.10	ND	ND	ND	ND
1	N200 : S0	5.47	38.78	ND	ND	ND	ND
1	N200 : S15	4.58	38.99	ND	ND	ND	ND
1	N200 : S40	5.09	40.45	ND	ND	ND	ND
2	N0 : S0	ND	16.04	ND	ND	ND	ND
2	N0 : S15	ND	15.68	ND	ND	ND	ND
2	N0 : S40	ND	17.60	ND	ND	ND	ND
2	N100 : S0	ND	21.05	ND	ND	ND	ND
2	N100 : S15	ND	23.63	ND	ND	ND	ND
2	N100 : S40	ND	24.71	ND	ND	ND	ND
2	N200 : S0	ND	29.50	ND	ND	ND	ND

2	N200 : S15	5.26	50.61	ND	ND	ND	ND
2	N200 : S40	5.10	48.23	ND	ND	ND	ND
3	NO : S15	ND	18.50	ND	ND	ND	ND
3	NO : S40	ND	29.77	ND	ND	ND	ND
3	N100 : S0	ND	24.58	ND	ND	ND	ND
3	N100 : S15	ND	43.92	ND	ND	ND	ND
3	N100 : S40	ND	22.64	ND	ND	ND	ND
3	N200 : S0	ND	30.93	ND	ND	ND	ND
3	N200 : S15	ND	28.24	ND	ND	ND	ND
3	N200 : S40	ND	35.98	ND	ND	ND	ND
3	NO : S0	ND	15.94	ND	ND	ND	ND
1	NO : S0	ND	4.71	ND	ND	ND	ND
1	NO : S15	ND	ND	ND	ND	ND	ND
1	NO : S40	ND	4.88	ND	ND	ND	ND
1	N100 : S0	ND	12.76	ND	ND	ND	ND
1	N100 : S15	ND	12.09	ND	ND	ND	ND
1	N100 : S40	4.78	15.55	4.48	ND	ND	ND
1	N200 : S0	ND	11.92	ND	ND	ND	ND
1	N200 : S15	ND	10.18	ND	ND	ND	ND
1	N200 : S40	ND	15.88	3.57	ND	ND	ND
2	NO : S0	ND	4.31	ND	ND	ND	ND
2	NO : S15	ND	4.69	ND	ND	ND	ND
2	NO : S40	ND	4.73	ND	ND	ND	ND
2	N100 : S40	*	*	*	*	*	*
2	N200 : S0	ND	6.03	ND	ND	ND	ND
2	N200 : S15	ND	13.56	ND	ND	ND	ND
2	N200 : S40	ND	9.96	ND	ND	ND	ND
3	NO : S0	ND	8.06	ND	ND	ND	ND
3	NO : S15	ND	4.38	ND	ND	ND	ND
3	NO : S40	ND	ND	ND	ND	ND	ND
3	N100 : S0	ND	9.50	ND	ND	ND	ND
3	N100 : S15	ND	6.69	ND	ND	ND	ND
3	N100 : S40	ND	8.03	ND	ND	ND	ND
3	N200 : S0	ND	8.75	ND	ND	ND	ND
3	N200 : S15	ND	11.20	ND	ND	ND	ND
3	N200 : S40	ND	10.59	ND	ND	ND	ND
2	N100 : S0	ND	10.30	ND	ND	ND	ND
2	N100 : S15	ND	5.76	ND	ND	ND	ND
1	NO : S0	ND	9.49	ND	ND	ND	ND
1	NO : S15	ND	7.57	ND	ND	ND	ND
1	NO : S40	ND	6.01	ND	ND	ND	ND
1	N100 : S0	ND	6.12	ND	ND	ND	ND
1	N100 : S15	*	*	*	*	*	*
1	N100 : S40	ND	5.05	ND	ND	ND	ND
1	N200 : S0	ND	10.27	ND	ND	ND	ND
1	N200 : S15	ND	10.82	ND	ND	ND	ND
1	N200 : S40	ND	14.10	ND	ND	ND	ND
2	NO : S0	ND	9.22	ND	ND	ND	ND
2	NO : S15	ND	7.50	ND	ND	ND	ND
2	NO : S40	ND	11.43	ND	ND	ND	ND

2	N100 : S0	ND	11.55	ND	ND	ND	ND
2	N100 : S15	ND	12.67	ND	ND	ND	ND
2	N100 : S40	4.25	15.85	ND	ND	ND	ND
2	N200 : S0	ND	15.92	ND	ND	ND	ND
2	N200 : S15	4.75	17.94	4.56	ND	ND	ND
2	N200 : S40	ND	19.80	ND	ND	ND	ND
3	NO : S0	ND	9.69	ND	ND	ND	ND
3	NO : S15	ND	10.97	ND	ND	ND	ND
3	NO : S40	ND	12.57	ND	ND	ND	ND
3	N100 : S0	ND	16.94	ND	ND	ND	ND
3	N100 : S15	ND	12.15	ND	ND	ND	ND
3	N100 : S40	ND	15.30	ND	ND	ND	ND
3	N200 : S0	ND	20.88	ND	ND	ND	ND
3	N200 : S15	ND	18.25	ND	ND	ND	ND
3	N200 : S40	ND	20.11	ND	ND	ND	ND
1	NO : S0	ND	21.51	5.35	ND	ND	ND
1	NO : S15	ND	11.57	4.54	ND	ND	ND
1	NO : S40	ND	14.14	5.30	ND	ND	ND
1	N100 : S0	ND	14.34	5.68	ND	ND	ND
1	N100 : S15	ND	14.97	5.64	ND	ND	ND
1	N100 : S40	4.47	18.96	6.52	ND	ND	ND
1	N200 : S0	5.10	24.11	7.04	ND	4.16	ND
1	N200 : S15	6.92	49.98	12.51	ND	7.04	ND
1	N200 : S40	4.95	29.52	8.89	ND	4.99	ND
2	NO : S0	ND	17.41	5.46	ND	ND	ND
2	NO : S15	ND	15.99	5.81	ND	ND	ND
2	NO : S40	4.28	17.62	5.69	ND	ND	ND
2	N100 : S0	ND	14.04	ND	ND	ND	ND
2	N100 : S15	ND	17.92	5.90	ND	ND	ND
2	N100 : S40	ND	17.93	5.92	ND	ND	ND
2	N200 : S0	4.06	23.09	6.35	ND	ND	ND
2	N200 : S15	ND	32.73	7.34	ND	4.28	ND
2	N200 : S40	4.15	27.54	6.11	ND	ND	ND
3	NO : S0	ND	9.50	4.37	ND	ND	ND
3	NO : S15	ND	12.76	4.28	ND	ND	ND
3	NO : S40	ND	9.55	3.99	ND	ND	ND
3	N100 : S0	ND	15.29	4.95	ND	ND	ND
3	N100 : S15	4.13	21.04	5.77	ND	4.37	ND
3	N100 : S40	4.14	24.92	5.72	ND	ND	ND
3	N200 : S0	4.80	35.38	8.03	ND	ND	ND
3	N200 : S15	4.31	24.31	6.84	ND	4.09	ND
3	N200 : S40	ND	25.01	5.85	ND	ND	ND
1	NO : S0	ND	5.90	ND	ND	ND	ND
1	NO : S15	ND	6.31	ND	ND	ND	ND
1	NO : S40	ND	5.58	ND	ND	ND	ND
1	N100 : S0	ND	6.42	ND	ND	ND	ND
1	N100 : S15	ND	5.77	ND	ND	ND	ND
1	N100 : S40	ND	8.74	ND	ND	ND	ND
1	N200 : S0	ND	15.86	ND	ND	ND	ND
1	N200 : S15	ND	16.10	ND	ND	ND	ND

1	N200 : S40	ND	15.81	ND	ND	ND	ND
2	NO : S0	ND	5.10	ND	ND	ND	ND
2	NO : S15	ND	5.75	ND	ND	ND	ND
2	NO : S40	ND	4.32	ND	ND	ND	ND
2	N100 : S0	ND	9.58	ND	ND	ND	ND
2	N100 : S15	ND	16.21	ND	ND	ND	ND
2	N100 : S40	ND	10.79	ND	ND	ND	ND
2	N200 : S0	ND	12.20	ND	ND	ND	ND
2	N200 : S15	ND	22.77	ND	ND	ND	ND
2	N200 : S40	ND	8.39	ND	ND	ND	ND
3	NO : S0	ND	5.91	ND	ND	ND	ND
3	NO : S15	ND	8.97	ND	ND	ND	ND
3	NO : S40	ND	5.10	ND	ND	ND	ND
3	N100 : S0	ND	7.67	ND	ND	ND	ND
3	N100 : S15	ND	6.71	ND	ND	ND	ND
3	N100 : S40	ND	10.05	ND	ND	ND	ND
3	N200 : S0	ND	15.36	ND	ND	ND	ND
3	N200 : S15	ND	11.18	ND	ND	ND	ND
3	N200 : S40	ND	13.54	ND	ND	ND	ND
1	NO : S0	ND	17.69	5.43	ND	ND	ND
1	NO : S15	ND	17.39	5.20	ND	ND	ND
1	NO : S40	ND	22.59	5.74	ND	ND	ND
1	N100 : S0	ND	21.33	5.06	ND	ND	ND
1	N100 : S15	5.25	28.18	7.44	ND	ND	ND
1	N100 : S40	ND	19.73	5.27	ND	ND	ND
1	N200 : S0	ND	28.28	5.59	ND	ND	ND
1	N200 : S15	ND	41.03	6.21	ND	ND	ND
1	N200 : S40	ND	29.66	6.56	ND	ND	ND
2	NO : S0	ND	16.83	5.73	ND	ND	ND
2	NO : S15	ND	26.29	6.43	ND	ND	ND
2	NO : S40	4.74	27.53	6.63	ND	ND	ND
2	N100 : S0	ND	24.27	5.70	ND	ND	ND
2	N100 : S15	ND	30.51	6.16	ND	ND	ND
2	N100 : S40	5.18	38.12	6.26	ND	ND	ND
2	N200 : S0	ND	23.20	4.67	ND	ND	ND
2	N200 : S15	ND	31.65	5.38	ND	ND	ND
2	N200 : S40	4.26	27.50	6.09	ND	ND	ND
3	NO : S0	ND	19.61	5.39	ND	ND	ND
3	NO : S15	ND	25.39	5.18	ND	ND	ND
3	NO : S40	ND	22.56	5.04	ND	ND	ND
3	N100 : S0	ND	31.51	7.41	ND	ND	ND
3	N100 : S15	ND	30.19	5.98	ND	ND	ND
3	N100 : S40	ND	24.46	5.25	ND	ND	ND
3	N200 : S0	4.16	32.59	5.69	ND	ND	ND
3	N200 : S15	*	*	*	*	*	*
3	N200 : S40	ND	30.60	5.06	ND	ND	ND
1	NO : S0	ND	15.95	ND	ND	ND	ND
1	NO : S15	ND	12.31	ND	ND	ND	ND
1	NO : S40	ND	13.14	ND	ND	ND	ND
1	N100 : S0	4.24	28.62	ND	ND	ND	ND

1	N100 : S15	ND	28.29	ND	ND	ND	ND
1	N100 : S40	4.88	36.84	ND	ND	ND	ND
1	N200 : S0	7.30	49.88	6.74	ND	5.31	ND
1	N200 : S15	ND	20.19	ND	ND	ND	ND
1	N200 : S40	4.90	34.86	4.57	ND	ND	ND
2	NO : S0	4.82	22.99	ND	ND	ND	ND
2	NO : S15	ND	15.07	ND	ND	ND	ND
2	NO : S40	ND	22.28	ND	ND	ND	ND
2	N100 : S0	4.47	30.22	4.35	ND	ND	ND
2	N100 : S15	5.56	31.81	5.18	ND	ND	ND
2	N100 : S40	4.71	25.89	ND	ND	ND	ND
2	N200 : S0	6.04	41.36	5.52	ND	ND	ND
2	N200 : S15	5.49	42.64	4.75	ND	ND	ND
2	N200 : S40	6.83	50.73	5.30	ND	ND	ND
3	NO : S0	5.91	33.24	5.90	ND	5.03	ND
3	NO : S15	4.55	22.52	4.62	ND	ND	ND
3	NO : S40	4.12	21.88	4.07	ND	ND	ND
3	N100 : S0	7.15	70.48	4.65	ND	4.76	ND
3	N100 : S15	5.20	31.09	4.86	ND	4.31	ND
3	N100 : S40	5.18	41.85	5.22	ND	4.15	ND
3	N200 : S0	8.01	68.13	7.30	ND	6.73	ND
3	N200 : S15	5.16	35.91	4.97	ND	ND	ND
3	N200 : S40	12.02	81.66	10.62	ND	9.23	ND
1	NO : S0	ND	28.85	ND	ND	ND	ND
1	NO : S15	4.94	40.41	ND	ND	ND	ND
1	NO : S40	ND	31.28	ND	ND	ND	ND
1	N100 : S0	ND	38.08	ND	ND	ND	ND
1	N100 : S15	6.12	50.39	ND	ND	ND	ND
1	N100 : S40	5.47	44.83	ND	ND	ND	ND
1	N200 : S0	3.87	29.19	ND	ND	ND	ND
1	N200 : S15	5.29	39.32	ND	ND	ND	ND
1	N200 : S40	6.88	58.47	ND	ND	ND	ND
2	NO : S0	ND	26.27	ND	ND	ND	ND
2	NO : S15	ND	31.20	ND	ND	ND	ND
2	NO : S40	5.23	41.06	ND	ND	ND	ND
2	N100 : S0	5.70	41.87	ND	ND	4.77	ND
2	N100 : S15	5.33	49.67	ND	ND	ND	ND
2	N100 : S40	4.48	39.36	ND	ND	ND	ND
2	N200 : S0	5.43	43.47	ND	ND	ND	ND
2	N200 : S15	4.34	39.75	ND	ND	ND	ND
2	N200 : S40	6.69	58.32	4.59	ND	ND	ND
3	NO : S0	ND	25.74	ND	ND	ND	ND
3	NO : S15	ND	35.64	ND	ND	ND	ND
3	NO : S40	ND	28.72	ND	ND	ND	ND
3	N100 : S0	6.29	52.70	7.03	ND	5.38	ND
3	N100 : S15	5.83	64.74	ND	ND	ND	ND
3	N100 : S40	6.47	61.59	4.65	ND	5.53	ND
3	N200 : S0	ND	47.09	ND	ND	ND	ND
3	N200 : S15	5.69	55.46	ND	ND	4.65	ND
3	N200 : S40	5.64	67.71	ND	ND	ND	ND

1	NO : S0	ND	13.99	ND	ND	ND	ND
1	NO : S15	ND	15.38	ND	ND	ND	ND
1	NO : S40	ND	16.43	ND	ND	ND	ND
1	N100 : S0	ND	15.84	ND	ND	ND	ND
1	N100 : S15	ND	15.79	ND	ND	ND	ND
1	N100 : S40	ND	19.50	ND	ND	ND	ND
1	N200 : S0	ND	15.51	ND	ND	ND	ND
1	N200 : S15	4.32	23.86	4.83	ND	ND	ND
1	N200 : S40	ND	35.37	ND	ND	ND	ND
2	NO : S0	ND	11.62	ND	ND	ND	ND
2	NO : S15	ND	10.95	ND	ND	ND	ND
2	NO : S40	*	*	*	*	*	*
2	N100 : S0	ND	25.84	ND	ND	ND	ND
2	N100 : S15	ND	22.62	ND	ND	ND	ND
2	N100 : S40	ND	23.54	ND	ND	ND	ND
2	N200 : S0	ND	28.51	ND	ND	ND	ND
2	N200 : S15	ND	18.95	ND	ND	ND	ND
2	N200 : S40	ND	34.28	ND	ND	ND	ND
3	NO : S0	ND	7.07	ND	ND	ND	ND
3	NO : S15	ND	13.12	ND	ND	ND	ND
3	NO : S40	ND	16.87	ND	ND	ND	ND
3	N100 : S0	ND	22.75	ND	ND	ND	ND
3	N100 : S15	ND	22.59	ND	ND	ND	ND
3	N100 : S40	ND	18.39	ND	ND	ND	ND
3	N200 : S0	ND	43.58	ND	ND	ND	ND
3	N200 : S15	ND	33.75	ND	ND	ND	ND
3	N200 : S40	*	*	*	*	*	*
1	NO : S0	ND	13.28	4.14	ND	ND	ND
1	NO : S15	ND	17.58	ND	ND	ND	ND
1	NO : S40	ND	21.03	ND	ND	ND	ND
1	N100 : S0	ND	18.39	4.36	ND	ND	ND
1	N100 : S15	ND	19.88	ND	ND	ND	ND
1	N100 : S40	ND	17.20	ND	ND	ND	ND
1	N200 : S0	4.60	29.82	4.73	ND	ND	ND
1	N200 : S15	ND	22.22	ND	ND	ND	ND
1	N200 : S40	ND	17.38	ND	ND	ND	ND
2	NO : S0	ND	11.48	ND	ND	ND	ND
2	NO : S15	ND	17.82	ND	ND	ND	ND
2	NO : S40	ND	13.68	ND	ND	ND	ND
2	N100 : S0	ND	19.66	4.30	ND	ND	ND
2	N100 : S15	ND	14.95	4.36	ND	ND	ND
2	N100 : S40	ND	22.09	4.49	ND	ND	ND
2	N200 : S0	4.32	24.42	4.44	ND	ND	ND
2	N200 : S15	4.81	31.61	4.62	ND	ND	ND
2	N200 : S40	4.08	29.02	4.93	ND	ND	ND
3	NO : S0	ND	17.09	ND	ND	ND	ND
3	NO : S15	ND	18.48	ND	ND	ND	ND
3	NO : S40	ND	23.62	4.35	ND	ND	ND
3	N100 : S0	3.73	26.28	4.11	ND	ND	ND
3	N100 : S15	4.46	25.97	4.10	ND	ND	ND

3	N100 : S40	ND	20.77	ND	ND	ND	ND
3	N200 : S0	4.41	24.32	4.25	ND	ND	ND
3	N200 : S15	4.60	29.21	ND	ND	ND	ND
3	N200 : S40	4.64	26.02	4.33	ND	ND	ND

Rep	Treatment (kg/Ha)	Acrylamide (ppb)	CRISP moisture (%)	Hunter A	Hunter B	Hunter L
1	N0 : S0	369	1.42	-1.42	26.94	62.15
1	N0 : S15	222	1.85	-1.22	25.34	61.50
1	N0 : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	218	1.24	-0.62	24.25	56.55
1	N200 : S15	351	1.37	-1.04	26.81	64.90
1	N200 : S40					
2	N0 : S0	379	2.08	*	*	*
2	N0 : S15	243	1.82	-0.61	27.26	65.48
2	N0 : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	284	1.78	-0.72	26.35	64.30
2	N200 : S15	341	1.45	0.22	24.48	55.43
2	N200 : S40					
3	N0 : S0	444	1.30	-0.02	27.21	63.56
3	N0 : S15	559	1.25	-0.39	25.80	59.10
3	N0 : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	514	1.50	0.57	23.96	55.51
3	N200 : S15	448	1.23	-0.88	24.08	55.80
3	N200 : S40					
1	N0 : S0	283	1.32	0.55	25.50	61.59
1	N0 : S15	351	1.33	0.26	26.42	61.63
1	N0 : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	1430	1.11	*	*	*
1	N200 : S15	295	1.27	-0.66	25.96	62.94
1	N200 : S40					
2	N0 : S0	312	1.38	-0.06	24.51	56.33
2	N0 : S15	278	1.30	*	*	*
2	N0 : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	381	2.18	*	*	*
2	N200 : S15	426	1.32	-0.14	25.51	61.47
2	N200 : S40					
3	N0 : S0	463	1.11	*	*	*
3	N0 : S15	207	1.19	0.36	25.24	56.57

3	N0 : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	821	1.06	*	*	*
3	N200 : S15	500	1.19	1.72	25.58	55.68
3	N200 : S40					
1	N0 : S0	2520	4.52	*	*	*
1	N0 : S15					
1	N0 : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	3460	8.70	*	*	*
1	N200 : S15					
1	N200 : S40					
2	N0 : S0					
2	N0 : S15					
2	N0 : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	9070	2.04	*	*	*
2	N200 : S15					
2	N200 : S40					
3	N0 : S0					
3	N0 : S15					
3	N0 : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	9070	2.72	*	*	*
3	N200 : S15					
3	N200 : S40					
1	N0 : S0	921	1.55	1.18	24.83	60.22
1	N0 : S15					
1	N0 : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	517	4.38	1.97	21.25	55.69
1	N200 : S15					
1	N200 : S40					
2	N0 : S0					
2	N0 : S15					
2	N0 : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	2360	2.46	*	*	*

2	N200 : S15					
2	N200 : S40					
3	NO : S15					
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	2040	1.35	*	*	*
3	N200 : S15					
3	N200 : S40					
3	NO : S0					
1	NO : S0	203	1.65	-2.68	20.21	60.17
1	NO : S15	122	1.21	-0.04	21.03	62.06
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	164	1.71	-1.12	22.52	59.44
1	N200 : S15	180	3.17	-1.42	22.58	61.28
1	N200 : S40					
2	NO : S0	137	1.90	-1.49	22.07	63.45
2	NO : S15	120	1.55	-1.46	21.89	62.02
2	NO : S40					
2	N100 : S40					
2	N200 : S0	158	1.51	-0.34	21.15	58.44
2	N200 : S15	182	1.90	-0.16	21.62	56.24
2	N200 : S40					
3	NO : S0	153	4.82	*	*	*
3	NO : S15	92	1.60	-0.87	21.69	57.43
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	126	1.99	-1.61	21.86	62.72
3	N200 : S15	228	2.44	-0.93	21.66	56.46
3	N200 : S40					
2	N100 : S0					
2	N100 : S15					
1	NO : S0	191	1.44	-1.28	23.76	62.07
1	NO : S15	201	1.60	-1.04	23.54	60.28
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	54	1.95	-1.44	23.67	64.04
1	N200 : S15	308	1.50	-1.09	24.22	61.71
1	N200 : S40					
2	NO : S0	1540	1.46	0.06	22.62	59.31
2	NO : S15	671	1.90	-1.69	23.43	66.66
2	NO : S40					

2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	112	1.98	-0.43	21.70	56.08
2	N200 : S15	137	4.93	-0.77	22.62	59.52
2	N200 : S40					
3	NO : S0	151	4.82	-2.11	22.66	61.78
3	NO : S15	103	6.02	-1.02	22.12	57.47
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	123	4.88	-0.86	22.94	61.37
3	N200 : S15	116	5.59	-0.32	23.51	58.04
3	N200 : S40					
1	NO : S0	315	1.42	*	*	*
1	NO : S15	222	2.14	*	*	*
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	303	2.00	*	*	*
1	N200 : S15	235	2.75	*	*	*
1	N200 : S40					
2	NO : S0	315	1.75	*	*	*
2	NO : S15	284	2.04	*	*	*
2	NO : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	274	1.65	-1.28	24.41	61.97
2	N200 : S15	694	2.21	*	*	*
2	N200 : S40					
3	NO : S0	233	1.76	*	*	*
3	NO : S15	635	1.38	*	*	*
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	163	2.09	*	*	*
3	N200 : S15	249	2.14	-1.14	23.42	56.81
3	N200 : S40					
1	NO : S0	277	1.70	-2.01	23.21	64.79
1	NO : S15	243	1.72	-2.06	22.47	56.10
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	368	1.17	-0.97	25.00	64.01
1	N200 : S15	363	2.72	0.02	24.96	56.71

1	N200 : S40					
2	NO : S0	233	1.47	-0.42	24.27	62.00
2	NO : S15	169	1.35	-2.84	21.75	67.77
2	NO : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	259	1.11	-0.98	23.51	62.02
2	N200 : S15	207	1.43	*	*	*
2	N200 : S40					
3	NO : S0	270	1.23	-0.08	21.37	55.46
3	NO : S15	224	1.26	-0.40	21.32	57.91
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	404	1.19	0.42	22.47	57.95
3	N200 : S15	360	1.03	0.75	21.96	52.99
3	N200 : S40					
1	NO : S0	1100	4.32	*	*	*
1	NO : S15	1390	1.64	2.09	23.53	57.88
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	569	2.60	*	*	*
1	N200 : S15	130	4.37	*	*	*
1	N200 : S40					
2	NO : S0	1280	2.50	0.96	22.87	58.44
2	NO : S15	1090	5.43	*	*	*
2	NO : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	813	2.43	*	*	*
2	N200 : S15	907	1.49	*	*	*
2	N200 : S40					
3	NO : S0	1600	1.60	*	*	*
3	NO : S15	806	4.69	*	*	*
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	750	3.81	*	*	*
3	N200 : S15					
3	N200 : S40					
1	NO : S0	1820	1.59	*	*	*
1	NO : S15	2070	1.52	*	*	*
1	NO : S40					
1	N100 : S0					

1	N100 : S15					
1	N100 : S40					
1	N200 : S0	1490	1.29	1.86	22.34	54.46
1	N200 : S15	2190	1.10	*	*	*
1	N200 : S40					
2	NO : S0	1370	*	*	*	*
2	NO : S15	1810	*	*	*	*
2	NO : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	4500	1.16	*	*	*
2	N200 : S15	3600	1.09	*	*	*
2	N200 : S40					
3	NO : S0	2690	1.21	*	*	*
3	NO : S15	3430	1.15	*	*	*
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	3680	1.23	*	*	*
3	N200 : S15	2960	1.23	*	*	*
3	N200 : S40					
1	NO : S0	518	0.98	0.25	23.08	59.17
1	NO : S15	443	1.00	*	*	*
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	476	1.02	0.31	22.06	55.78
1	N200 : S15	407	0.93	*	*	*
1	N200 : S40					
2	NO : S0	459	0.87	-0.34	22.28	56.50
2	NO : S15	688	0.92	*	*	*
2	NO : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	1040	1.04	*	*	*
2	N200 : S15	840	1.03	*	*	*
2	N200 : S40					
3	NO : S0	1030	1.21	*	*	*
3	NO : S15	1060	2.34	*	*	*
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	1180	2.02	*	*	*
3	N200 : S15	794	3.34	*	*	*
3	N200 : S40					

1	NO : S0	541	1.02	-0.56	24.88	58.87
1	NO : S15	617	1.10	*	*	*
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	331	1.09	-1.23	25.47	59.75
1	N200 : S15	515	1.12	*	*	*
1	N200 : S40					
2	NO : S0	368	1.15	-1.41	25.70	60.69
2	NO : S15	275	1.12	-1.08	25.85	62.49
2	NO : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	820	1.31	*	*	*
2	N200 : S15	469	1.00	*	*	*
2	N200 : S40					
3	NO : S0	339	1.05	-1.16	25.71	60.66
3	NO : S15	451	1.10	*	*	*
3	NO : S40					
3	N100 : S0					
3	N100 : S15					
3	N100 : S40					
3	N200 : S0	683	1.02	*	*	*
3	N200 : S15	906	0.97	*	*	*
3	N200 : S40					
1	NO : S0	334	2.66	-0.74	24.58	63.84
1	NO : S15	289	1.41	-0.88	22.68	59.18
1	NO : S40					
1	N100 : S0					
1	N100 : S15					
1	N100 : S40					
1	N200 : S0	367	2.28	*	*	*
1	N200 : S15	234	1.56	-2.27	23.50	56.92
1	N200 : S40					
2	NO : S0	435	1.83	-1.21	22.63	57.59
2	NO : S15	315	2.48	-1.05	22.20	59.38
2	NO : S40					
2	N100 : S0					
2	N100 : S15					
2	N100 : S40					
2	N200 : S0	725	2.85	*	*	*
2	N200 : S15	756	2.20	*	*	*
2	N200 : S40					
3	NO : S0	660	3.08	*	*	*
3	NO : S15	626	2.76	*	*	*
3	NO : S40					
3	N100 : S0					
3	N100 : S15					

3	N100 : S40					
3	N200 : S0	721	3.19	*	*	*
3	N200 : S15	381	2.60	*	*	*
3	N200 : S40					