

Table 61 continued (7/8)

Character & crop		Type	Plots	Means		rP	rE
X	Y		rP	rG			
visnmgPR	vs	nmgyotPR	Re	.736	.897 ± .081	.822 ± .023	.630 ± .089
visnmgPR	vs	nmgyotPR	Be	.656	.843 ± .103	.754 ± .030	.464 ± .116
visnmgPR	vs	nmgyotPR	Se	.610	.911 ± .096	.773 ± .028	.348 ± .130
visnmgPR	vs	nmgyotPR	RBS	.696	.895 ± .048	.803 ± .014	.490 ± .064
stalkP	vs	nmgyotP	Re	.389	.191 ± .407	.314 ± .063	.483 ± .113
stalkP	vs	nmgyotP	Be	.346	.262 ± .265	.304 ± .063	.408 ± .123
stalkP	vs	nmgyotP	Se	.366	-.007 ± .369	.232 ± .066	.574 ± .099
stalkR	vs	nmgyotR	Re	.444	.687 ± .198	.594 ± .045	.469 ± .115
stalkR	vs	nmgyotR	Be	.465	.456 ± .210	.464 ± .055	.548 ± .103
stalkR	vs	nmgyotR	Se	.424	.526 ± .196	.483 ± .053	.413 ± .122
stalkPR	vs	nmgyotP	Re	.332	-.033 ± .318	.170 ± .067	.580 ± .098
stalkPR	vs	nmgyotP	Be	.225	.066 ± .266	.154 ± .068	.446 ± .118
stalkPR	vs	nmgyotP	Se	.319	.165 ± .276	.264 ± .065	.584 ± .097
stalkPR	vs	nmgyotP	RBS	.267	.041 ± .163	.165 ± .038	.510 ± .062
stalkPR	vs	nmgyotR	Re	.441	.764 ± .207	.605 ± .044	.383 ± .126
stalkPR	vs	nmgyotR	Be	.407	.444 ± .222	.438 ± .056	.442 ± .119
stalkPR	vs	nmgyotR	Se	.351	.508 ± .212	.439 ± .056	.257 ± .138
stalkPR	vs	nmgyotR	RBS	.386	.494 ± .130	.453 ± .031	.358 ± .073
stalkPR	vs	nmgyotPR	Re	.458	.315 ± .266	.404 ± .058	.592 ± .096
stalkPR	vs	nmgyotPR	Be	.383	.250 ± .240	.315 ± .063	.549 ± .103
stalkPR	vs	nmgyotPR	Se	.410	.381 ± .224	.402 ± .058	.503 ± .110
stalkPR	vs	nmgyotPR	RBS	.392	.269 ± .143	.333 ± .035	.537 ± .060
brixP	vs	ccsP	Re	.610	.659 ± .211	.628 ± .042	.604 ± .094
brixP	vs	ccsP	Be	.750	.920 ± .111	.804 ± .025	.688 ± .078
brixP	vs	ccsP	Se	.631	.910 ± .140	.736 ± .032	.481 ± .113
brixR	vs	ccsR	Re	.286	1.063 ± 2.408	.366 ± .060	.251 ± .138
brixR	vs	ccsR	Be	.205	.562 ± .235	.386 ± .059	-.066 ± .147
brixR	vs	ccsR	Se	.466	.701 ± .168	.585 ± .046	.257 ± .138
brixPR	vs	ccsP	Re	.661	.827 ± .168	.715 ± .034	.598 ± .095
brixPR	vs	ccsP	Be	.714	.777 ± .122	.738 ± .032	.646 ± .086
brixPR	vs	ccsP	Se	.670	.899 ± .090	.793 ± .026	.493 ± .112
brixPR	vs	ccsP	RBS	.690	.829 ± .067	.753 ± .017	.576 ± .056
brixPR	vs	ccsR	Re	.440	1.381 ± 2.883	.528 ± .050	.403 ± .124
brixPR	vs	ccsR	Be	.404	.821 ± .183	.616 ± .043	.239 ± .139
brixPR	vs	ccsR	Se	.561	.782 ± .145	.675 ± .038	.421 ± .121
brixPR	vs	ccsR	RBS	.493	.837 ± .103	.649 ± .023	.341 ± .074
brixPR	vs	ccsPR	Re	.613	.762 ± .220	.660 ± .039	.559 ± .101
brixPR	vs	ccsPR	Be	.652	.782 ± .126	.714 ± .034	.540 ± .104
brixPR	vs	ccsPR	Se	.684	.841 ± .104	.759 ± .029	.522 ± .107
brixPR	vs	ccsPR	RBS	.665	.818 ± .071	.733 ± .018	.533 ± .060

Table 61 continued (8/8)

Character & crop		Type	Plots	Means		
X	Y		rP	rG	rP	rE
hardnessP vs	fibreP	Re	.519	.593 ± .195	.557 ± .048	.471 ± .115
hardnessP vs	fibreP	Be	.521	.625 ± .187	.569 ± .047	.432 ± .120
hardnessP vs	fibreP	Se	.559	.781 ± .155	.659 ± .039	.394 ± .125
hardnessR vs	fibreR	Re	.607	.695 ± .174	.633 ± .042	.508 ± .109
hardnessR vs	fibreR	Be	.638	.741 ± .128	.687 ± .037	.486 ± .113
hardnessR vs	fibreR	Se	.585	.978 ± .106	.770 ± .028	.195 ± .142
hardnessPR vs	fibreP	Re	.585	.697 ± .155	.642 ± .041	.493 ± .112
hardnessPR vs	fibreP	Be	.617	.691 ± .153	.641 ± .041	.505 ± .110
hardnessPR vs	fibreP	Se	.591	.922 ± .113	.751 ± .030	.333 ± .131
hardnessPR vs	fibreP	RBS	.599	.755 ± .085	.671 ± .022	.472 ± .065
hardnessPR vs	fibreR	Re	.612	.631 ± .171	.617 ± .043	.582 ± .097
hardnessPR vs	fibreR	Be	.637	.800 ± .112	.724 ± .033	.441 ± .119
hardnessPR vs	fibreR	Se	.589	.834 ± .118	.717 ± .034	.361 ± .128
hardnessPR vs	fibreR	RBS	.612	.756 ± .078	.687 ± .021	.481 ± .064
hardnessPR vs	fibrePR	Re	.664	.656 ± .149	.657 ± .039	.664 ± .082
hardnessPR vs	fibrePR	Be	.676	.731 ± .123	.700 ± .035	.570 ± .099
hardnessPR vs	fibrePR	Se	.670	.898 ± .088	.788 ± .026	.420 ± .121
hardnessPR vs	fibrePR	RBS	.669	.750 ± .072	.711 ± .020	.576 ± .056

For Re, Be, or Se,

Plots, df = 70, r is significantly > 0 at .232 (P.05) or .302 (P.01)

Means, df = 22, t = r/se is significant at 2.074 (P.05) or 2.819 (P.01)

For RBS

Plots, df = 214, r is significantly > 0 at .138 (P.05) or .181 (P.01)

Means, df = 70, t = r/se is significant at 1.994 (P.05) or 2.648 (P.01)

Correlations could not be computed if variance ratios were less than 1.0 for X or Y. These cases have blank spaces instead of correlations.

Table 62. Trial Te, Genotypic, phenotypic and environmental correlations between P and R crops for Re, Be and Se types. RBS = Re+Be+Se = 72 families. The crop (P, R) is included in the name of the character.

Character & crop		Type	Plots	Means			
X	Y		rP	rG	rP	rE	
tchP	vs	tchR	Re	.610	.788 ± .171	.675 ± .038	.503 ± .110
tchP	vs	tchR	Be	.512	.691 ± .201	.587 ± .046	.431 ± .120
tchP	vs	tchR	Se	.567	.750 ± .185	.633 ± .042	.458 ± .117
tchP	vs	tchR	RBS	.591	.767 ± .091	.669 ± .022	.463 ± .066
ccsP	vs	ccsR	Re	.634	2.620 ± 5.916	.851 ± .019	.533 ± .106
ccsP	vs	ccsR	Be	.458	1.083 ± .126	.800 ± .125	.197 ± .142
ccsP	vs	ccsR	Se	.604	.984 ± .071	.848 ± .020	.493 ± .112
ccsP	vs	ccsR	RBS	.573	1.070 ± .066	.828 ± .012	.388 ± .071
tshP	vs	tshR	Re	.545	.800 ± .167	.652 ± .040	.378 ± .126
tshP	vs	tshR	Be	.471	.768 ± .175	.624 ± .042	.345 ± .130
tshP	vs	tshR	Se	.520	.747 ± .177	.626 ± .042	.415 ± .122
tshP	vs	tshR	RBS	.541	.791 ± .087	.666 ± .022	.376 ± .072
nmgyotP	vs	nmgyotR	Re	.434	.887 ± .184	.658 ± .039	.322 ± .132
nmgyotP	vs	nmgyotR	Be	.314	.751 ± .172	.612 ± .043	.304 ± .134
nmgyotP	vs	nmgyotR	Se	.340	.765 ± .192	.607 ± .044	.342 ± .130
nmgyotP	vs	nmgyotR	RBS	.395	.818 ± .091	.657 ± .022	.314 ± .076
fibrep	vs	fibrer	Re	.628	1.043 ± .093	.830 ± .022	.321 ± .132
fibrep	vs	fibrer	Be	.722	1.098 ± .072	.908 ± .012	.383 ± .126
fibrep	vs	fibrer	Se	.545	.885 ± .128	.723 ± .033	.369 ± .127
fibrep	vs	fibrer	RBS	.638	1.030 ± .054	.827 ± .012	.369 ± .073
stalkP	vs	stalkR	Re	.635	.832 ± .216	.684 ± .037	.649 ± .085
stalkP	vs	stalkR	Be	.614	.658 ± .150	.641 ± .041	.625 ± .090
stalkP	vs	stalkR	Se	.502	.689 ± .175	.581 ± .046	.400 ± .124
brixP	vs	brixR	Re	.354	-.023 ± .388	.206 ± .067	.505 ± .110
brixP	vs	brixR	Be	.320	.282 ± .191	.288 ± .064	.367 ± .128
brixP	vs	brixR	Se	.481	.662 ± .208	.559 ± .048	.425 ± .121
hardnessP	vs	hardnessR	Re	.520	.950 ± .133	.730 ± .032	.278 ± .136
hardnessP	vs	hardnessR	Be	.589	.844 ± .107	.746 ± .031	.439 ± .119
hardnessP	vs	hardnessR	Se	.556	.854 ± .116	.732 ± .032	.402 ± .124
visualnmgP	vs	visualnmgR	Re	.384	.573 ± .225	.467 ± .054	.244 ± .139
visualnmgP	vs	visualnmgR	Be	.193	.395 ± .250	.296 ± .063	.029 ± .147
visualnmgP	vs	visualnmgR	Se	.272	.746 ± .191	.531 ± .050	-.038 ± .147
sel7P	vs	sel7R	Re	.349	.319 ± .300	.332 ± .062	.383 ± .126
sel7P	vs	sel7R	Be	.127	.275 ± .315	.198 ± .067	.068 ± .147
sel7P	vs	sel7R	Se	.307	1.050 ± .275	.603 ± .044	.058 ± .147

Table 62 continued (2/2)

Character & crop		Type	Plots	Means			
X	Y		rP	rG	rP	rE	
sel8P	vs	sel8R	Re	.102	.057 ± .389	.087 ± .069	.125 ± .145
sel8P	vs	sel8R	Be	.213	.343 ± .336	.264 ± .065	.159 ± .144
sel8P	vs	sel8R	Se	.221	1.296 ± .781	.501 ± .052	.079 ± .147
sel10P	vs	sel10R	Re	.010	1.688 ± 3.389	.165 ± .068	-.062 ± .147
sel10P	vs	sel10R	Be	.207	.739 ± .309	.405 ± .058	-.029 ± .147
sel10P	vs	sel10R	Se	-.075	-.311 ± .479	-.060 ± .069	.162 ± .144

For Re, Be, or Se,

Plots, df = 70, r is significantly > 0 at .232 (P.05) or .302 (P.01)

Means, df = 22, t = r/se is significant at 2.074 (P.05) or 2.819(P.01)

For Re + Be + Se,

Plots, df = 214, r is significantly > 0 at .138 (P.05) or .181 (P.01)

Means, df = 70, t = r/se is significant at 1.994 (P.05) or 2.648(P.01)

Table 63. Phenotypic correlations' between family means in the Te trial.
 Factorial AOV of correlations in Tables 50 and 51 using :-
 8 selection Characters x
 2 crops (P, R) x
 3 Te trial types (Re, Be, Se) x
 15 replicates = 5 Te trial harvest characters (FIBRE,TCH,CCS, TSH,NMGYOT)
 for each type (Re, Be, and Se).
 Some data are also included in the AOV table for separate factorial AOV for
 characters and crops within each type.

VARIATE: Z	Analysis over all types			AOV of each separate type		
	SOURCE OF VARIATION	DF	MS	F	Re F	Be F
Blocks	14	1.48480	21.4**	13.4**	6.9**	7.6**
Factors						
Char	7	1.83504	26.4**	8.6**	8.1**	13.8**
Type	2	0.03128	0.5			
Crop	1	0.59556	8.6**	8.5**	0.0	6.7*
Char.Type	14	0.09442	1.4			
Char.Crop	7	0.50438	7.3**	4.7**	2.0	3.1**
Type.Crop	2	0.16180	2.3			
Char.Type.Crop	14	0.05906	0.9			
RESIDUAL	658	0.06933		0.05487	0.07529	0.06796
GRAND MEAN		0.3507		0.343	0.346	0.364
Total number of observations		720		240	240	240
Standard error per plot		0.26331		0.2342	0.2744	0.2607
CV% (S.E./plot as %GM)		75.1		68.4	79.3	71.7

***** TABLES OF MEANS *****

Char	SEL7	SEL8	SEL10	STALKS	BRIX	HARDNESS	VisNMG
	0.4959	0.4704	0.3690	0.2625	0.2094	0.1607	0.5490

Char	WS
	0.2889

Type	Re	Be	Se
	0.3425	0.3459	0.3637

Crop	P	R
	0.3220	<< 0.3795

Table 63 continued 2/3

Type	Re	Be	Se
Char			
SEL7	0.4692	0.4864	0.5320
SEL8	0.4285	0.4293	0.5533
SEL10	0.2946	0.3930	0.4194
STALKS	0.3160	0.2189	0.2525
BRIX	0.3007	0.1618	0.1656
HARDNESS	0.1595	0.1908	0.1318
VisNMG	0.5358	0.5462	0.5651
WS	0.2358	0.3407	0.2903

TABLE	Char	Type	Crop	Char Type
Significance	**	ns	**	ns
REP	90	240	360	30
SED	0.03925	0.02404	0.01963	0.06799
LSD.05	0.07732	0.04736	0.03867	0.13394
LSD.01	0.10205	0.06250	0.05104	0.17677

TABLE	Char Crop	Type Crop	Char Type Crop
Significance	**	ns	ns
REP	45	120	15
SED	0.05551	0.03399	0.09615
LSD.05	0.10935	0.06696	0.18942
LSD.01	0.14433	0.08837	0.24999

Crop	P	R
Char		
SEL7	0.4697	0.5220
SEL8	0.4174	0.5233
SEL10	0.2995	< 0.4385
STALKS	0.0973	<< 0.4276
BRIX	0.2403	0.1784
HARDNESS	0.1808	0.1406
VisNMG	0.5008	0.5972
WS	0.3699	>> 0.2080

Crop	P	R
Type		
Re	0.2985	<< 0.3865
Be	0.3471	0.3447
Se	0.3202	<< 0.4072

NB. Although this interaction was not significant, the crops term was highly significant in the separate analyses of the Re and Se types.

Table 63 continued 3/3

Type	Re		Be		Se	
Crop	P	R	P	R	P	R
Char						
SEL7	0.4337	0.5047	0.5029	0.4698	0.4724	0.5915
SEL8	0.3653	0.4917	0.4104	0.4482	0.4764	0.6301
SEL10	0.1261	0.4631	0.4141	0.3718	0.3582	0.4807
STALKS	0.1433	0.4886	0.0784	0.3595	0.0702	0.4349
BRIX	0.3677	0.2337	0.1731	0.1504	0.1801	0.1512
HARDNESS	0.2221	0.0970	0.2322	0.1494	0.0881	0.1755
VisNMG	0.4745	0.5970	0.5154	0.5771	0.5126	0.6176
WS	0.2553	0.2162	0.4503	0.2311	0.4041	0.1766

Correlations were transformed to Z before analysis. All results presented are Z values. $Z = (\text{LOGe}(1+r) - \text{LOGe}(1-r))/2$ (Snedecor, 1962, page 175)

Significant differences are shown by > ($P \leq 0.05$) and >> ($P \leq 0.01$). A blank between adjoining values on the same line shows that they do not differ significantly. However, significant differences for other comparisons may not be listed. They can be checked using the LSD values provided in the boxes.

Table 64. Competition analysis (F and CV values from RCB) of weight (KG) in the Te trial.

Crop	Type	Row A		Row B		Row C		A+B+C		A+C		A+C-2B
		F	CV	F	CV	F	CV	F	CV	F	CV	F
P	Re	1.1	21	1.3	23	1.4	23	2.4**	13	2.0*	15	0.7
	Be	3.0**	20	1.7	19	1.0	22	3.8**	12	2.5**	16	0.7
	Se	1.1	25	1.9*	18	1.0	20	2.2*	12	1.1	17	0.7
R	Re	1.3	25	1.6	26	1.9*	22	2.8**	15	1.9*	18	0.7
	Be	2.5**	21	1.9*	22	0.8	25	2.2*	16	1.7	20	1.1
	Se	1.5	25	1.4	21	1.9*	24	3.5**	13	2.5**	19	0.9
PR	Re	1.4	19	1.6	21	1.9*	19	2.9**	12	2.2**	14	0.8
	Be	3.2**	17	2.0*	17	1.0	20	3.0**	12	2.4**	15	1.1
	Se	1.4	22	1.6	18	1.5	19	3.3**	11	2.0*	16	0.8
P	Re+Be+Se	1.8**	22	1.6**	21	1.3	22	3.1**	12	2.0**	16	0.7
R		1.8**	24	1.7**	23	1.6**	24	3.0**	15	2.2**	19	0.9
PR		2.0**	20	1.8**	19	1.7**	19	3.5**	12	2.5**	15	0.8

There were 24 families in each of the Re, Be and Se types
 For Re+Be+Se there were 72 treatments, the three types of the same family being regarded as different treatments. Degrees of freedom were :-

Treatments	Error	
23	46	for Re, Be, Se
71	142	for Re+Be+Se

Row A is the southern row of the 3-row plot (A+B+C)

Table 65. Competition analysis (F and CV values from RCB) of number of stalks in the Te trial.

Crop	Type	Row A`		Row B		Row C		A+B+C		A+C		A+C-2B F
		F	CV	F	CV	F	CV	F	CV	F	CV	
P	Re	1.1	21	1.0	24	1.4	23	1.5	16	1.4	18	0.7
	Be	1.7	21	1.9*	16	1.1	24	3.3**	12	2.2*	15	0.7
	Se	1.7	23	1.6	17	1.4	20	2.6**	11	1.6	16	0.8
R	Re	1.6	23	1.5	22	3.9**	16	4.0**	13	4.4**	13	1.1
	Be	2.4**	18	3.0**	16	1.7	22	6.7**	9	4.0**	12	0.9
	Se	3.8**	17	1.8*	17	3.0**	20	9.8**	8	6.3**	12	1.1
PR	Re	1.3	20	1.4	21	2.7**	17	2.7**	13	2.8**	14	0.9
	Be	2.0*	18	2.5**	15	1.4	21	4.9**	9	3.1**	12	0.8
	Se	2.8**	18	1.6	15	2.4**	17	6.6**	8	3.9**	12	1.0

Degrees of freedom were 23 for treatments and 46 for error.

` Row A is the southern row of the 3-row plot (A+B+C)

Table 66. Competition analysis (F and CV values from RCB) of weight per stalk in the Te trial.

Crop	Type	Row A`		Row B		Row C		A+B+C		A+C		A+C-2B F
		F	CV	F	CV	F	CV	F	CV	F	CV	
P	Re	1.5	20	1.2	29	1.0	19	1.9*	16	2.0*	14	0.7
	Be	1.8*	18	2.7**	16	1.4	23	2.5**	13	1.6	17	0.9
	Se	1.2	17	2.0*	17	2.5**	19	3.5**	10	2.2**	14	1.0
R	Re	1.1	23	1.2	23	2.0*	16	2.3**	12	1.8*	14	0.6
	Be	0.8	22	1.1	22	1.1	20	1.3	14	1.2	16	0.8
	Se	1.9*	21	1.5	16	1.7	17	2.7**	12	2.3**	15	1.1
PR	Re	1.8*	16	1.2	23	1.7	15	2.5**	12	2.8**	11	0.7
	Be	1.3	17	1.8	16	1.6	18	2.2*	12	1.7	14	0.8
	Se	1.6	17	1.7	14	2.7**	16	3.3**	9	2.6**	12	1.1

Degrees of freedom were 23 for treatments and 46 for error.

` Row A is the southern row of the 3-row plot (A+B+C)

Table 67. Competition analysis (F and CV values from Factorial RCB) of weight (KG) in the Te trial, with 3 types (Re, Be, Se) and 24 families as factors.

Item	Row A [~]	Row B	Row C	A+B+C	A+C	A+C-2B
P crop (CV)	22	21	22	12	16	
Type (F)	4.7**	5.2**	6.2**	14.9**	9.6**	1.0
Family (F)	3.1**	2.7**	1.8*	5.7**	3.5**	0.8
Family x type (F)	1.0	0.9	0.8	1.3	1.0	0.6
Means (KG)						
General mean	67.2	70.24	71.9	209.3	139.1	-1.4
Re	63.4 (100)	67.76 (100)	67.0 (100)	198.2 (100)	130.4 (100)	-5.1
Be	71.0 (112)	74.72 (110)	75.9 (113)	221.6 (112)	146.9 (113)	-2.6
Se	67.2 (106)	68.25 (101)	72.7 (109)	208.2 (105)	139.9 (107)	3.4
	Be>>Re	Be>>Re	Be>>Re	Be>>Re	Be>>Re	
		Be>>Se		Be>>Se		
			Se> Re	Se> Re	Se> Re	
R crop (CV)	24	23	24	15	19	
Type (F)	4.4*	3.9*	7.7**	12.8**	9.2**	0.6
Family (F)	3.8**	2.6**	3.3**	6.8**	5.0**	0.8
Family x type (F)	0.7	1.2	0.5	0.7	0.6	0.9
Means (KG)						
General mean	77.1	80.7	79.3	237.1	156.4	-5.0
Re	72.2 (100)	77.5 (100)	73.2 (100)	223.0 (100)	145.4 (100)	-9.6
Be	81.1 (112)	85.6 (110)	85.4 (117)	252.1 (113)	166.5 (115)	-4.7
Se	78.0 (108)	79.0 (102)	79.2 (108)	236.3 (106)	157.2 (108)	-0.8
	Be>>Re	Be>>Re	Be>>Re	Be>>Re	Be>>Re	
		Be> Se	Be> Se	Be>>Se		
			Se> Re	Se> Re	Se> Re	
PR crop (CV)	20	19	19	12	15	
Type (F)	6.2**	5.9**	9.3**	18.6**	13.0**	1.0
Family (F)	4.0**	2.7**	3.1**	7.3**	5.2**	0.8
Family x type (F)	0.8	1.1	0.7	0.9	0.7	0.9
Means (KG)						
General mean	72.16	75.48	75.57	223.2	147.7	-3.2
Re	67.82 (100)	72.64 (100)	70.10 (100)	210.6 (100)	137.9 (100)	-7.4
Be	76.06 (112)	80.16 (110)	80.62 (115)	236.8 (112)	156.7 (114)	-3.6
Se	72.60 (107)	73.63 (101)	75.98 (108)	222.2 (106)	148.6 (108)	1.3
	Be>>Re	Be>>Re	Be>>Re	Be>>Re	Be>>Re	
		Be>>Se		Be>>Se	Be> Se	
	Se> Re		Se> Re	Se>>Re	Se>>Re	

^ For the Re, Be and Se types, means are shown in () as per cent of the Re type.

~ Row A is the southern row of the 3-row plot (A+B+C)

Degrees of freedom were: Type (2), Family (2), Family x type (46), Error (142)

> Significantly greater than, $P \leq 0.05$, >> highly significant, $P \leq 0.01$

Table 68. Competition analysis (F and CV values from factorial RCB) of number of stalks in the Te trial, with 3 types (Re, Be, Se) and 24 families as factors.

Item		Row A [~]	Row B	Row C	A+B+C	A+C	A+C-2B
P crop	(CV)	22	20	22	13	16	
Type	(F)	1.4	0.5	0.9	1.1	1.8	1.5
Family	(F)	3.1**	2.3**	1.8*	4.8**	3.6**	1.0
Family x type	(F)	0.8	0.8	1.1	1.0	0.8	0.6
Means [`]							
General mean		52.79	51.37	53.00	157.2	105.8	3.1
Re		53.63(100)	52.15 (100)	52.68(100)	158.5 (100)	106.3 (100)	2.0
Be		50.93(95)	51.49 (99)	51.92(99)	154.3 (97)	102.8 (97)	-0.1
Se		53.82(100)	50.47 (97)	54.42(103)	158.7 (100)	108.2 (102)	7.3
R crop	(CV)	19	19	19	10	12	
Type	(F)	1.0	0.3	1.1	2.6	2.4	0.2
Family	(F)	5.8**	4.4**	6.4**	16.8**	13.0**	1.4
Family x type	(F)	0.7	0.8	1.0	0.8	0.9	0.9
Means							
General mean		70.59	70.97	73.03	214.6	143.6	1.7
Re		70.24(100)	71.07(100)	71.89(100)	213.2 (100)	142.1 (100)	0.0
Be		69.21(99)	70.04(99)	72.14(100)	211.4 (99)	141.3 (99)	1.3
Se		72.32(103)	71.79(101)	75.06(104)	219.2 (103)	147.4 (104)	3.8
PR crop	(CV)	18	17	18	10	13	
Type	(F)	1.3	0.1	1.2	1.9	2.5	0.8
Family	(F)	4.6**	3.5**	4.2**	10.8**	8.3**	1.3
Family x type	(F)	0.7	0.8	1.1	0.9	0.8	0.7
Means							
General mean		61.69	61.17	63.02	185.9	124.7	2.4
Re		61.93 (100)	61.61 (100)	62.28 (100)	185.8 (100)	124.2 (100)	1.0
Be		60.07 (97)	60.76 (99)	62.03 (100)	182.9 (98)	122.1 (98)	0.6
Se		63.07 (102)	61.13 (99)	64.74 (104)	188.9 (102)	127.8 (103)	5.5

[`] For the Re, Be and Se types, means are shown in () as per cent of the Re type.

Degrees of freedom were: Type (2), Family (2), Family x type (46), Error (142)

[~] Row A is the southern row of the 3-row plot (A+B+C).

Table 69. Competition analysis (F and CV values from factorial RCB) of weight per stalk in the Te trial, with 3 types (Re, Be, Se) and 24 families as factors.

Item	Row A ¹	Row B	Row C	A+B+C	A+C	A+C-2B
P crop	(CV) 18	21	21	13	15	
Type	(F) 13.2**	3.6*	10.4**	19.1**	20.2**	1.2
Family	(F) 2.7**	3.6**	3.1**	6.1**	4.3**	0.9
Family x type	(F) 1.0	0.7	0.9	0.6	0.7	0.8
Means ²						
General mean	1.298	1.399	1.393	4.090	2.691	-0.107
Re	1.213 (100)	1.349 (100)	1.293 (100)	3.856 (100)	2.507 (100)	-0.191
Be	1.411 (116)	1.473 (109)	1.509 (117)	4.394 (114)	2.921 (117)	-0.026
Se	1.268 (105)	1.374 (102)	1.376 (106)	4.019 (104)	2.645 (106)	-0.104
	Be>>Re	Be>Re	Be>>Re	Be>>Re	Be>>Re	
	Be>>Se	Be>Se	Be>>Se	Be>>Se	Be>>Se	Se> Re
R crop	(CV) 22	21	18	13	15	
Type	(F) 6.5**	7.1**	15.9**	22.0**	17.7**	0.6
Family	(F) 2.4**	2.0**	2.6**	4.5**	3.5**	0.6
Family x type	(F) 0.7	0.8	1.0	0.7	0.8	0.9
Means						
General mean	1.108	1.151	1.101	3.360	2.209	-0.094
Re	1.041 (100)	1.109 (100)	1.028 (100)	3.179 (100)	2.069 (100)	-0.149
Be	1.185 (114)	1.237 (112)	1.204 (117)	3.627 (114)	2.390 (116)	-0.084
Se	1.098 (105)	1.108 (100)	1.070 (104)	3.276 (103)	2.168 (105)	-0.048
	Be>>Re	Be>>Re	Be>>Re	Be>>Re	Be>>Re	
	Be> Se	Be>>Se	Be>>Se	Be>>Se	Be>>Se	
PR crop	(CV) 17	18	16	11	12	
Type	(F) 13.7**	6.8**	17.8**	28.7**	27.6**	1.1
Family	(F) 2.8**	3.2**	3.9**	6.8**	5.1**	0.7
Family x type	(F) 0.9	0.6	1.0	0.5	0.8	0.9
Means						
General mean	1.203	1.275	1.247	3.725	2.450	-0.101
Re	1.127 (100)	1.229 (100)	1.161 (100)	3.517 (100)	2.288 (100)	-0.170
Be	1.298 (115)	1.355 (110)	1.357 (117)	4.011 (114)	2.655 (116)	-0.055
Se	1.183 (105)	1.241 (101)	1.223 (105)	3.647 (104)	2.406 (105)	-0.076
	Be>>Re	Be>>Re	Be>>Re	Be>>Re	Be>>Re	
	Be>>Se	Be>>Se	Be>>Se	Be>>Se	Be>>Se	Se> Re

¹ Row A is the southern row of the 3-row plot (A+B+C)

² For the Re, Be and Se types, means are shown in () as per cent of the Re type.

Degrees of freedom were: Type (2), Family (23), Family x type (46), Error (142)

> Significantly greater than, $P \leq 0.05$, >> highly significant, $P \leq 0.01$

Table 70. Trial Te, genotypic, phenotypic and environmental correlations (\pm standard error) for weight (KG) of rows A, B (middle) and C in the Re, Be and Se types.

Character & crop		Type	Plots	Means		rP	rE
X	Y		rP	rG			
Ap	vs	Bp	Re	.379	1.293 \pm 2.047	.470 \pm .054	.340 \pm .130
Ap	vs	Cp	Re	.123	2.840 \pm 5.319	.399 \pm .058	-.091 \pm .146
Bp	vs	Cp	Re	.123	2.310 \pm 1.785	.512 \pm .051	-.149 \pm .144
Ar	vs	Br	Re	.387	1.447 \pm .848	.587 \pm .046	.234 \pm .139
Ar	vs	Cr	Re	.297	1.053 \pm .703	.445 \pm .056	.163 \pm .144
Br	vs	Cr	Re	.096	1.375 \pm .635	.448 \pm .056	-.227 \pm .140
Apr	vs	Bpr	Re	.439	.766 \pm .484	.504 \pm .052	.381 \pm .126
Apr	vs	Cpr	Re	.261	1.103 \pm .596	.452 \pm .055	.072 \pm .147
Bpr	vs	Cpr	Re	.132	1.674 \pm .750	.549 \pm .049	-.250 \pm .138
Ap	vs	Bp	Be	.273	1.117 \pm .345	.582 \pm .046	.008 \pm .147
Ap	vs	Cp	Be	.404	5.478 \pm 59.076	.668 \pm .039	.185 \pm .142
Bp	vs	Cp	Be	.058	7.734 \pm 84.453	.486 \pm .053	-.170 \pm .143
Ar	vs	Br	Be	.262	0.904 \pm .309	.500 \pm .052	.043 \pm .147
Ar	vs	Cr	Be				
Br	vs	Cr	Be				
Apr	vs	Bpr	Be	.302	0.933 \pm .250	.569 \pm .047	.063 \pm .147
Apr	vs	Cpr	Be	.463	4.233 \pm 35.531	.666 \pm .039	.306 \pm .134
Bpr	vs	Cpr	Be	.187	3.313 \pm 27.920	.384 \pm .059	.078 \pm .147
Ap	vs	Bp	Se	.056	1.430 \pm 1.900	.297 \pm .063	-.082 \pm .146
Ap	vs	Cp	Se	.179	.123 \pm 5.672	.182 \pm .067	.190 \pm .142
Bp	vs	Cp	Se	.090	8.246 \pm 103.045	.506 \pm .052	-.239 \pm .139
Ar	vs	Br	Se	.111	1.548 \pm 1.097	.379 \pm .060	-.116 \pm .145
Ar	vs	Cr	Se	.458	1.689 \pm .645	.789 \pm .026	.216 \pm .141
Br	vs	Cr	Se	.093	1.607 \pm .975	.440 \pm .056	-.210 \pm .141
Apr	vs	Bpr	Se	.090	1.375 \pm .949	.359 \pm .061	-.112 \pm .146
Apr	vs	Cpr	Se	.325	1.654 \pm .906	.602 \pm .044	.142 \pm .144
Bpr	vs	Cpr	Se	.080	1.744 \pm .981	.457 \pm .055	-.250 \pm .138

For Plots, df = 70, correlations significantly > 0 at .232 (P.05) or .302 (P.01)

For Means, df = 22, $t = r/se$ is significant at 2.074 (P.05) or 2.819 (P.01)

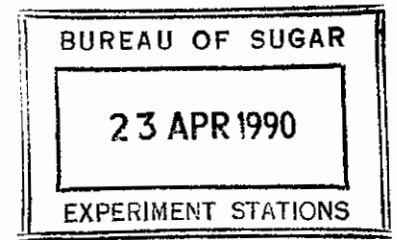
The name of the character consists of the row name (A, B or C) followed by the crop in lower case (p = P, r = R, pr = PR)

Correlations could not be computed if variance ratios were less than 1.0 for X or Y. These cases have blank spaces instead of correlations.

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PROJECT REPORT

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PROJECT 409

BUNCH FAMILY SELECTION

Efficiency of bunch-planted and single-planted seedlings for selecting superior crosses in sugar cane

by

J.C. Skinner, N. Berding and D.M. Hogarth

1989

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Table 50. Correlation matrix for means, harvest and selection data, in trial Te.
24 crosses * 3 types (Re, Be, Se). P crop only.

	1	2	3	4	5	6	7	
ReFIBREp	1	1.0000						
BeFIBREp	2	0.8908	1.0000					
SeFIBREp	3	0.7648	0.7970	1.0000				
ReTCHp	4	0.3343	0.3041	0.2285	1.0000			
BeTCHp	5	0.1696	0.1429	0.1229	0.5258	1.0000		
SeTCHp	6	0.5106	0.5270	0.3781	0.5212	0.5536	1.0000	
ReCCSp	7	-0.4165	-0.4773	-0.3397	0.1920	0.2182	-0.0150	1.0000
BeCCSp	8	-0.6494	-0.6029	-0.4129	-0.2055	0.0388	-0.1021	0.7699
SeCCSp	9	-0.4314	-0.5240	-0.2222	-0.0769	-0.0337	-0.0844	0.7448
ReTSHp	10	0.1442	0.0997	0.0780	0.9374	0.5415	0.4462	0.5201
BeTSHp	11	-0.0501	-0.0645	-0.0235	0.4285	0.9451	0.4823	0.4664
SeTSHp	12	0.3312	0.3067	0.2748	0.4655	0.5150	0.9262	0.2757
ReNMGYP	13	-0.0425	-0.0852	-0.0671	0.8435	0.5004	0.3428	0.6820
BeNMGYP	14	-0.2253	-0.2380	-0.1548	0.3393	0.8618	0.3816	0.5853
SeNMGYP	15	0.1438	0.0979	0.1073	0.4006	0.4552	0.8136	0.4470
ReSEL7	16	0.2096	0.2954	0.1917	0.6414	0.6686	0.5280	0.1897
BeSEL7	17	0.1422	0.2529	0.1565	0.4773	0.8271	0.5320	0.2601
SeSEL7	18	0.1872	0.2752	0.3108	0.5086	0.4754	0.6053	0.2979
ReSEL8	19	0.1441	0.1884	0.0279	0.6163	0.6706	0.4008	0.1632
BeSEL8	20	-0.1457	-0.0252	-0.0601	0.3503	0.7145	0.3663	0.3700
SeSEL8	21	0.0993	0.1767	0.3342	0.5896	0.4150	0.5243	0.3960
ReSEL10	22	-0.0964	-0.0847	-0.1914	0.5114	0.3941	0.0493	0.0489
BeSEL10	23	0.0689	0.0459	0.1535	0.3788	0.7108	0.3071	0.3952
SeSEL10	24	0.1030	0.2274	0.1637	0.5541	0.3543	0.4196	0.2975
ReSTALK	25	0.1313	0.1444	0.0077	0.4331	0.3397	0.2535	-0.0203
BeSTALK	26	0.1428	0.2512	0.0706	0.0918	0.5669	0.2079	-0.1675
SeSTALK	27	0.2438	0.4087	0.2896	-0.0498	0.1431	0.4392	-0.2361
ReBRIX	28	-0.0791	-0.2601	-0.2212	0.2731	0.5138	0.2167	0.6285
BeBRIX	29	-0.4249	-0.3818	-0.2700	-0.2084	0.0984	-0.0670	0.6227
SeBRIX	30	-0.1358	-0.2253	0.1075	-0.0919	0.0275	-0.0850	0.5258
ReHARD	31	0.5568	0.5211	0.6135	0.3822	0.3752	0.3860	-0.2935
BeHARD	32	0.4589	0.5690	0.6166	0.2182	0.3362	0.5308	-0.3256
SeHARD	33	0.4962	0.4394	0.6592	0.0953	0.0577	0.1446	-0.2856
ReVISG	34	0.2896	0.2553	0.1822	0.7933	0.6523	0.4692	0.2406
BeVISG	35	0.0474	0.1212	0.0412	0.4474	0.8624	0.5190	0.3078
SeVISG	36	0.1740	0.2440	0.2568	0.6090	0.4981	0.6177	0.3845
ReWS	37	0.1882	0.1263	0.2015	0.4753	0.1945	0.2544	0.1407
BeWS	38	0.0794	-0.0658	0.1114	0.4776	0.5007	0.4256	0.3798
SeWS	39	0.2973	0.1499	0.1199	0.5588	0.3895	0.5653	0.1922
ReSTVAR	40	-0.2465	-0.1728	-0.1802	-0.0132	0.0086	-0.0692	-0.3191
BeSTVAR	41	0.2037	0.1390	0.3997	-0.1863	0.1299	0.0621	-0.2633
SeSTVAR	42	-0.1725	-0.1461	-0.0809	0.1115	-0.1666	0.1314	0.2400
ReBRVAR	43	0.0695	0.1681	0.1401	-0.3196	-0.2804	-0.1100	-0.4441
BeBRVAR	44	0.0908	-0.1245	-0.0792	0.2007	0.0920	-0.0452	-0.0336
SeBRVAR	45	0.1179	0.0908	-0.0992	0.1968	0.0371	0.1859	-0.0637
ReHVAR	46	0.3343	0.3729	0.5884	0.1215	-0.1057	-0.1155	-0.2936
BeHVAR	47	0.0306	0.1160	0.2307	0.2183	0.0334	0.0751	0.3445
SeHVAR	48	0.2475	0.1966	0.2770	0.1887	-0.1247	-0.2330	-0.0905
ReGVAR	49	-0.3335	-0.1754	-0.3720	-0.2196	0.1215	-0.1749	-0.1892
BeGVAR	50	0.1021	-0.0954	0.1702	-0.1649	0.0882	-0.0053	0.2218
SeGVAR	51	-0.2710	-0.2706	-0.2398	0.3668	0.0300	0.0070	0.2842

DF = 22

Table 50 continued (2/6)

BeCCSp	8	1.0000							
SeCCSp	9	0.6924	1.0000						
ReTSHp	10	0.0936	0.1839	1.0000					
BeTSHp	11	0.3613	0.2015	0.5441	1.0000				
SeTSHp	12	0.1701	0.2946	0.4965	0.5383	1.0000			
ReNMGyp	13	0.2780	0.3388	0.9750	0.5669	0.4572	1.0000		
BeNMGyp	14	0.5341	0.3306	0.5078	0.9782	0.4915	0.5727	1.0000	
SeNMGyp	15	0.3440	0.4995	0.4982	0.5411	0.9694	0.5079	0.5381	
ReSEL7	16	-0.0762	-0.0994	0.6315	0.6087	0.4671	0.5797	0.5239	
BeSEL7	17	0.1262	0.0321	0.5178	0.8103	0.5167	0.4899	0.7430	
SeSEL7	18	0.2055	0.2111	0.5435	0.5133	0.6592	0.5151	0.4725	
ReSEL8	19	-0.0854	-0.1522	0.6045	0.6054	0.3283	0.5569	0.5279	
BeSEL8	20	0.3288	0.1342	0.4496	0.7730	0.3980	0.4761	0.7646	
SeSEL8	21	0.2382	0.2687	0.6462	0.4684	0.6034	0.6396	0.4451	
ReSEL10	22	-0.0689	-0.2819	0.4722	0.3545	-0.0542	0.4383	0.3210	
BeSEL10	23	0.2632	0.0575	0.4839	0.7526	0.3176	0.4953	0.7253	
SeSEL10	24	0.2534	-0.0542	0.5898	0.4129	0.3798	0.5668	0.3939	
ReSTALK	25	-0.3572	-0.1672	0.3621	0.2074	0.1784	0.3144	0.1213	
BeSTALK	26	-0.3553	-0.4127	0.0268	0.4148	0.0376	-0.0194	0.3040	
SeSTALK	27	-0.2784	-0.2278	-0.1299	0.0418	0.3305	-0.1814	-0.0433	
ReBRIX	28	0.3815	0.4141	0.4581	0.6138	0.3667	0.5321	0.6427	
BeBRIX	29	0.8040	0.5037	0.0442	0.3480	0.1353	0.1896	0.4768	
SeBRIX	30	0.3780	0.7363	0.0941	0.1546	0.1959	0.1933	0.2113	
ReHARD	31	-0.3677	-0.1923	0.2246	0.2241	0.2782	0.0959	0.0995	
BeHARD	32	-0.2144	-0.1562	0.0712	0.2383	0.4315	-0.0438	0.1297	
SeHARD	33	-0.2734	-0.0346	-0.0285	-0.0359	0.1141	-0.1247	-0.1230	
ReVISG	34	-0.1248	-0.0694	0.7780	0.5774	0.4205	0.7121	0.4895	
BeVISG	35	0.1953	0.0215	0.5089	0.8681	0.4999	0.5013	0.8150	
SeVISG	36	0.1845	0.1988	0.6615	0.5286	0.6662	0.6404	0.4871	
ReWS	37	0.1413	0.0846	0.4720	0.2240	0.2754	0.4259	0.2216	
BeWS	38	0.3846	0.3744	0.5519	0.5905	0.5531	0.5470	0.6076	
SeWS	39	0.1263	0.1314	0.5549	0.4062	0.5953	0.4985	0.3817	
ReSTVAR	40	-0.1064	-0.2728	-0.1274	-0.0383	-0.1719	-0.1430	-0.0392	
BeSTVAR	41	-0.1863	-0.1767	-0.2529	0.0556	-0.0146	-0.2906	0.0097	
SeSTVAR	42	0.2672	0.1769	0.1821	-0.0641	0.2058	0.2288	-0.0047	
ReBRVAR	43	-0.1475	-0.2371	-0.4227	-0.3129	-0.1804	-0.4689	-0.3287	
BeBRVAR	44	-0.2915	0.0926	0.1569	0.0138	-0.0049	0.1286	-0.0319	
SeBRVAR	45	-0.0374	-0.1885	0.1560	0.0236	0.1065	0.1203	0.0058	
ReHVAR	46	-0.4205	-0.0675	0.0026	-0.2415	-0.1421	-0.0800	-0.3224	
BeHVAR	47	0.2574	0.3913	0.3056	0.1211	0.2192	0.3307	0.1340	
SeHVAR	48	-0.3067	-0.0172	0.1376	-0.2102	-0.2339	0.0825	-0.2587	
ReGVAR	49	0.1289	-0.1965	-0.2419	0.1501	-0.2318	-0.2283	0.1716	
BeGVAR	50	0.2393	0.2564	-0.0540	0.1646	0.1032	-0.0174	0.1958	
SeGVAR	51	0.3676	0.0125	0.4198	0.1461	0.0123	0.4547	0.2164	

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Table 50 continued (3/6)

SeNMGYp	15	1.0000							
ReSEL7	16	0.3985	1.0000						
BeSEL7	17	0.4638	0.7776	1.0000					
SeSEL7	18	0.6250	0.4420	0.5452	1.0000				
ReSEL8	19	0.2701	0.9199	0.7469	0.3591	1.0000			
BeSEL8	20	0.3959	0.6852	0.9007	0.4206	0.6944	1.0000		
SeSEL8	21	0.5852	0.4960	0.4524	0.8901	0.3775	0.3708	1.0000	
ReSEL10	22	-0.0860	0.5947	0.3386	0.0430	0.6676	0.4023	0.1387	
BeSEL10	23	0.2865	0.6046	0.7068	0.2352	0.5996	0.7817	0.3240	
SeSEL10	24	0.3316	0.5809	0.4543	0.5333	0.5989	0.4578	0.6508	
ReSTALK	25	0.1327	0.5017	0.2450	0.1560	0.4701	0.0467	0.2976	
BeSTALK	26	-0.0627	0.5036	0.4878	0.0479	0.4644	0.3495	0.0790	
SeSTALK	27	0.2323	0.1657	0.0722	0.1472	0.0310	-0.0764	0.1960	
ReBRIX	28	0.4513	0.4701	0.5243	0.2351	0.4162	0.5354	0.2431	
BeBRIX	29	0.2557	-0.0602	0.2247	0.1679	-0.0785	0.3669	0.1744	
SeBRIX	30	0.3147	-0.0404	0.1506	0.3394	-0.1822	0.0952	0.3848	
ReHARD	31	0.1496	0.3962	0.4463	0.3478	0.3117	0.2460	0.3163	
BeHARD	32	0.2995	0.2442	0.3787	0.4583	0.1232	0.2809	0.3623	
SeHARD	33	0.0232	-0.1120	0.0371	0.2770	-0.2260	-0.1399	0.1946	
ReVISC	34	0.3636	0.8909	0.6750	0.4173	0.8477	0.5592	0.4952	
BeVISC	35	0.4584	0.7423	0.9238	0.4378	0.7303	0.9148	0.4179	
SeVISC	36	0.6371	0.5026	0.5380	0.9260	0.4061	0.4369	0.9397	
ReWS	37	0.2554	0.1096	0.2365	0.2780	0.1231	0.3104	0.2034	
BeWS	38	0.5810	0.2026	0.3887	0.4982	0.2387	0.4134	0.3973	
SeWS	39	0.5746	0.3615	0.4340	0.4600	0.3624	0.4053	0.3393	
ReSTVAR	40	-0.2021	-0.1957	-0.1973	-0.0114	-0.0880	-0.2474	0.0685	
BeSTVAR	41	-0.0897	0.0966	0.0585	0.0324	-0.0457	-0.0042	0.0678	
SeSTVAR	42	0.2505	0.1312	-0.1328	0.1230	0.0473	-0.0704	0.2482	
ReBRVAR	43	-0.2385	-0.2942	-0.2828	-0.1773	-0.1924	-0.2187	-0.2265	
BeBRVAR	44	0.0231	0.1168	-0.1231	-0.1254	0.0817	-0.0852	-0.0719	
SeBRVAR	45	0.0723	0.1768	0.0879	-0.0824	0.3044	0.0286	-0.1554	
ReHVAR	46	-0.2197	-0.1441	-0.0560	0.0589	-0.2011	-0.1940	0.1446	
BeHVAR	47	0.2539	0.0515	0.1841	0.4223	0.0385	0.2828	0.4810	
SeHVAR	48	-0.2536	0.0638	-0.0826	-0.1005	0.0719	-0.2286	-0.1044	
ReGVAR	49	-0.2296	0.0429	0.1929	-0.0059	0.2539	0.3344	-0.2020	
BeGVAR	50	0.1288	-0.0415	0.1118	-0.1531	-0.0948	0.2390	-0.1653	
SeGVAR	51	0.0509	0.1376	-0.0744	0.0487	0.2254	0.0168	0.1649	

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Table 50 continued (4/6)

ReSEL10	22	1.0000						
BeSEL10	23	0.4006	1.0000					
SeSEL10	24	0.4811	0.5046	1.0000				
ReSTALK	25	0.4151	0.0101	0.2081	1.0000			
BeSTALK	26	0.2671	0.3473	0.0992	0.6297	1.0000		
SeSTALK	27	-0.1938	-0.0263	0.0887	0.5061	0.6058	1.0000	
ReBRIX	28	0.1799	0.5524	0.2112	0.1241	0.1476	-0.1850	1.0000
BeBRIX	29	-0.2399	0.2838	0.1599	-0.3283	-0.2001	-0.1847	0.5070
SeBRIX	30	-0.3614	0.0521	-0.1583	-0.0280	-0.1247	-0.0883	0.4580
ReHARD	31	0.0571	0.3202	0.2481	0.1436	0.1974	0.0785	0.1964
BeHARD	32	-0.0916	0.2770	0.2661	-0.0523	0.1496	0.3281	-0.0148
SeHARD	33	-0.2191	0.0228	-0.0990	-0.0463	-0.0932	0.0435	-0.1220
ReVISC	34	0.6722	0.5714	0.6185	0.5581	0.3870	0.0427	0.5697
BeVISC	35	0.4043	0.8530	0.5197	0.2252	0.5380	0.1353	0.5725
SeVISC	36	0.1206	0.3107	0.6318	0.2731	0.1508	0.2169	0.3359
ReWS	37	0.0810	0.3606	0.2316	-0.5615	-0.5204	-0.5560	0.1373
BeWS	38	0.1129	0.4255	0.2724	-0.3110	-0.4213	-0.4421	0.3773
SeWS	39	0.2084	0.3172	0.3103	-0.2150	-0.3576	-0.4879	0.3647
ReSTVAR	40	0.1893	-0.2901	-0.0181	0.3468	0.1452	0.2151	-0.4185
BeSTVAR	41	-0.1508	0.1858	-0.1133	-0.0728	0.3127	0.2490	0.1099
SeSTVAR	42	0.1054	0.0033	0.2528	0.0808	-0.1770	0.1955	0.1054
ReBRVAR	43	-0.0457	-0.2144	-0.1572	-0.3055	-0.1761	0.0108	-0.7469
BeBRVAR	44	0.4051	0.0571	-0.2076	0.2153	0.0785	-0.1041	0.1038
SeBRVAR	45	0.2690	0.1562	0.2192	0.1051	-0.0574	0.0042	-0.0965
ReHVAR	46	-0.1790	-0.0497	-0.1727	0.0380	0.0097	0.1106	-0.4315
BeHVAR	47	-0.0871	0.2030	0.3549	-0.1204	-0.2303	-0.0928	0.1259
SeHVAR	48	0.1246	-0.0813	-0.1223	0.1007	-0.0844	-0.1593	-0.2583
ReGVAR	49	0.3479	-0.0040	0.0524	-0.1681	0.0508	-0.2061	-0.1407
BeGVAR	50	-0.1696	0.4955	-0.2105	-0.4942	-0.2074	-0.2938	0.3335
SeGVAR	51	0.4159	0.2124	0.5306	-0.0733	-0.3519	-0.2923	0.0300
		22	23	24	25	26	27	28

Table 50 continued (5/6)

BeBRIX	29	1.0000						
SeBRIX	30	0.3717	1.0000					
ReHARD	31	-0.1864	0.1554	1.0000				
BeHARD	32	-0.0927	0.0541	0.7811	1.0000			
SeHARD	33	-0.2375	0.3051	0.6951	0.6895	1.0000		
ReVISG	34	-0.0746	-0.0052	0.4257	0.1789	-0.0425	1.0000	
BeVISG	35	0.2628	0.0458	0.4068	0.4068	-0.0214	0.6489	1.0000
SeVISG	36	0.2019	0.3358	0.2988	0.3853	0.1144	0.5349	0.4917
ReWS	37	0.1482	-0.0723	0.2543	0.2650	0.1598	0.1758	0.2266
BeWS	38	0.3122	0.1456	0.2221	0.2490	0.1807	0.2921	0.3813
SeWS	39	0.0734	0.0068	0.3251	0.2219	0.1255	0.4107	0.3664
ReSTVAR	40	-0.2110	-0.2273	-0.0990	-0.0178	0.0286	-0.1654	-0.1566
BeSTVAR	41	-0.0267	0.1501	0.3062	0.1832	0.1388	0.0780	0.0620
SeSTVAR	42	0.1819	0.0011	-0.3816	-0.3200	-0.4078	0.1810	-0.1265
ReBRVAR	43	-0.2652	-0.3934	-0.1822	0.0299	0.0066	-0.4832	-0.2729
BeBRVAR	44	-0.4836	0.0450	0.0068	-0.0672	0.0959	0.2242	-0.0224
SeBRVAR	45	-0.2403	-0.4529	0.0117	-0.1046	-0.0463	0.1867	0.1059
ReHVAR	46	-0.3881	0.2562	0.4175	0.3301	0.5899	-0.1350	-0.1398
BeHVAR	47	0.2876	0.3921	0.1345	0.3857	0.2950	0.0951	0.1857
SeHVAR	48	-0.3907	-0.0212	0.2183	-0.1052	0.2381	0.1167	-0.1980
ReGVAR	49	0.1240	-0.3145	-0.1560	0.0148	-0.2818	-0.0958	0.1810
BeGVAR	50	0.3075	0.2097	0.0448	-0.0277	0.1157	-0.0489	0.1687
SeGVAR	51	0.0674	-0.3565	-0.1467	-0.1983	-0.2221	0.2058	0.0429

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SeVISG	36	1.0000						
ReWS	37	0.2294	1.0000					
BeWS	38	0.4116	0.7864	1.0000				
SeWS	39	0.4025	0.7637	0.8121	1.0000			
ReSTVAR	40	0.0081	-0.3363	-0.1549	-0.2789	1.0000		
BeSTVAR	41	0.0428	-0.0819	-0.1231	-0.1522	-0.1139	1.0000	
SeSTVAR	42	0.1818	0.0040	0.0221	-0.0587	-0.0559	0.2388	1.0000
ReBRVAR	43	-0.3113	0.0839	-0.0696	-0.0888	0.1865	-0.0933	-0.0935
BeBRVAR	44	-0.0913	0.0153	0.0277	0.0874	-0.1344	0.0422	0.0248
SeBRVAR	45	-0.1859	0.1032	0.1016	0.1953	0.1296	-0.1422	0.2081
ReHVAR	46	0.0131	0.1064	-0.0977	-0.1761	0.0530	0.1162	-0.2391
BeHVAR	47	0.4673	0.2522	0.2718	0.1512	-0.1865	-0.3941	-0.1403
SeHVAR	48	-0.2066	0.1106	-0.0332	-0.0284	-0.1555	0.0772	-0.0635
ReGVAR	49	-0.1247	0.0223	0.0604	-0.0074	0.2277	-0.2648	-0.1734
BeGVAR	50	-0.2115	0.4170	0.3625	0.2834	-0.5892	0.3941	0.1354
SeGVAR	51	0.0458	0.3633	0.3662	0.2614	0.1798	-0.2751	0.3718

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Table 50 continued (6/6)

ReBRVAR	43	1.0000							
BeBRVAR	44	0.0961	1.0000						
SeBRVAR	45	0.1189	-0.0419	1.0000					
ReHVAR	46	0.3416	0.1662	-0.1819	1.0000				
BeHVAR	47	-0.1087	-0.0745	-0.4032	0.1997	1.0000			
SeHVAR	48	0.2733	0.3005	0.3516	0.5151	-0.2917	1.0000		
ReGVAR	49	0.4359	-0.0783	-0.0284	-0.2038	0.0137	-0.1751	1.0000	
BeGVAR	50	0.0450	0.1680	0.0848	0.0322	-0.0551	0.1147	-0.2209	
SeGVAR	51	-0.0532	-0.1093	0.5151	-0.2858	-0.0900	0.0474	0.0127	
		43	44	45	46	47	48	49	
BeGVAR	50	1.0000							
SeGVAR	51	-0.0857	1.0000						
		50	51						

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

p = plant crop

NMGY = NMGYOT

VISG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

WS = weight per stalk

STVAR = within plot variance for number of stalks

BRVAR = within plot variance for BRIX

HVAR = within plot variance for HARDNESS

GVAR = within plot variance for visual net merit grade

Table 51 continued (2/6)

BeCCSr	8	1.0000						
SeCCSr	9	0.7233	1.0000					
ReTSHr	10	0.0278	0.2885	1.0000				
BeTSHr	11	0.1830	0.2609	0.7037	1.0000			
SeTSHr	12	0.0123	0.2598	0.8355	0.7181	1.0000		
ReNMGYr	13	0.2353	0.4817	0.9288	0.7769	0.8234	1.0000	
BeNMGYr	14	0.4666	0.4026	0.4878	0.8964	0.5194	0.6606	1.0000
SeNMGYr	15	0.2292	0.5126	0.7434	0.7031	0.9307	0.8359	0.6185
ReSEL7	16	0.1004	0.2679	0.8037	0.5699	0.5952	0.7042	0.3139
BeSEL7	17	0.1750	0.2555	0.7317	0.5233	0.6386	0.6462	0.2819
SeSEL7	18	-0.0532	0.1413	0.8226	0.5628	0.7897	0.6964	0.2842
ReSEL8	19	0.0177	0.2933	0.7919	0.4510	0.6179	0.6728	0.1860
BeSEL8	20	0.2921	0.3518	0.6503	0.5530	0.6376	0.6491	0.3782
SeSEL8	21	-0.0116	0.1186	0.8446	0.6466	0.8212	0.7169	0.3963
ReSEL10	22	-0.0538	0.2508	0.6816	0.5580	0.6419	0.6202	0.2958
BeSEL10	23	-0.0247	0.1370	0.5123	0.5675	0.5921	0.4878	0.3231
SeSEL10	24	0.0927	0.1270	0.6717	0.7012	0.6381	0.6255	0.5502
ReSTALK	25	-0.3772	-0.2330	0.6697	0.5578	0.6736	0.5938	0.3386
BeSTALK	26	-0.3979	-0.3322	0.4265	0.6187	0.5077	0.4171	0.4642
SeSTALK	27	-0.3376	-0.2900	0.5703	0.5663	0.6023	0.5362	0.4126
ReBRIX	28	0.3462	0.5339	0.4593	0.1139	0.1739	0.4373	0.0962
BeBRIX	29	0.3857	0.4955	0.3026	0.0463	0.1906	0.2222	-0.0080
SeBRIX	30	0.3755	0.5850	0.3631	-0.0368	0.1053	0.3070	-0.1014
ReHARD	31	-0.3361	-0.2858	0.1708	-0.1457	0.0292	0.0721	-0.2335
BeHARD	32	-0.3386	-0.0945	0.2245	-0.0196	0.0060	0.1568	-0.1101
SeHARD	33	-0.3713	-0.0461	0.3177	-0.0587	0.0357	0.1705	-0.2372
ReVISG	34	-0.0227	0.2631	0.8850	0.5610	0.7033	0.7622	0.2789
BeVISG	35	0.1036	0.2374	0.7932	0.6686	0.7350	0.7458	0.4227
SeVISG	36	-0.0266	0.1744	0.8569	0.5625	0.8017	0.7153	0.3026
ReWS	37	0.2036	0.4326	0.4745	0.1177	0.2209	0.3515	-0.0115
BeWS	38	0.2275	0.4325	0.3528	0.3476	0.2724	0.3219	0.2386
SeWS	39	0.1078	0.2881	0.2830	0.1164	0.4742	0.2020	-0.0320
ReSTVAR	40	-0.4411	-0.3202	0.1399	0.3313	0.2415	0.0668	0.2102
BeSTVAR	41	-0.2639	-0.2759	0.0436	0.3149	0.3398	0.0064	0.1033
SeSTVAR	42	-0.2147	-0.2571	0.3840	0.2884	0.4373	0.2568	0.1330
ReBRVAR	43	0.2014	0.1234	-0.1547	-0.1674	-0.1683	-0.1401	-0.1914
BeBRVAR	44	-0.0413	-0.1677	-0.4679	-0.4138	-0.3039	-0.3459	-0.3012
SeBRVAR	45	-0.0138	-0.1540	-0.5020	-0.5042	-0.3931	-0.4799	-0.3468
ReHVAR	46	-0.1357	-0.2303	-0.1445	-0.4490	-0.2162	-0.2532	-0.4376
BeHVAR	47	0.1072	0.1070	0.1599	0.0055	-0.0506	0.1486	0.0357
SeHVAR	48	-0.1144	-0.1975	-0.2444	-0.3920	-0.2618	-0.3151	-0.3437
ReGVAR	49	-0.0222	0.2397	0.5298	0.4364	0.5539	0.4291	0.2109
BeGVAR	50	0.1610	0.1640	-0.0052	0.2596	0.2069	0.0636	0.1514
SeGVAR	51	0.0435	0.0328	0.2464	0.2905	0.2901	0.1899	0.2131

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Table 51 continued (3/6)

SeNMGYr	15	1.0000							
ReSEL7	16	0.4929	1.0000						
BeSEL7	17	0.5116	0.7840	1.0000					
SeSEL7	18	0.6322	0.6776	0.7738	1.0000				
ReSEL8	19	0.5147	0.9059	0.7725	0.6838	1.0000			
BeSEL8	20	0.5686	0.7032	0.9361	0.7173	0.6496	1.0000		
SeSEL8	21	0.6465	0.7122	0.7888	0.9345	0.7433	0.7391	1.0000	
ReSEL10	22	0.5445	0.6449	0.7161	0.7059	0.7203	0.6633	0.7131	
BeSEL10	23	0.4604	0.5824	0.7032	0.6112	0.6109	0.7727	0.7032	
SeSEL10	24	0.5092	0.6161	0.5750	0.5901	0.5159	0.5452	0.7305	
ReSTALK	25	0.5387	0.4440	0.3041	0.6060	0.4022	0.2117	0.5806	
BeSTALK	26	0.4138	0.2820	0.1434	0.3801	0.2042	0.1189	0.3886	
SeSTALK	27	0.4831	0.3164	0.3078	0.5668	0.2506	0.2849	0.5589	
ReBRIX	28	0.1954	0.6037	0.3988	0.2984	0.6520	0.3663	0.3582	
BeBRIX	29	0.2338	0.5537	0.5474	0.3055	0.6512	0.5000	0.3361	
SeBRIX	30	0.1256	0.5225	0.5120	0.4033	0.5382	0.4584	0.3208	
ReHARD	31	-0.0898	0.0268	0.1444	0.1060	0.0734	-0.0208	0.0199	
BeHARD	32	-0.0256	0.0860	0.1411	0.1435	0.1860	0.0215	0.0534	
SeHARD	33	-0.0598	0.2190	0.2962	0.3621	0.3511	0.1672	0.2451	
ReVISG	34	0.5722	0.9288	0.7716	0.7755	0.9342	0.6814	0.7933	
BeVISG	35	0.6110	0.7994	0.9380	0.8020	0.7726	0.9314	0.8311	
SeVISG	36	0.6309	0.7274	0.8087	0.9651	0.7572	0.7438	0.9634	
ReWS	37	0.1698	0.5333	0.5787	0.4072	0.5587	0.5243	0.4262	
BeWS	38	0.2482	0.3490	0.4658	0.3174	0.3656	0.4648	0.3964	
SeWS	39	0.4109	0.2838	0.3702	0.3202	0.4088	0.3397	0.3844	
ReSTVAR	40	0.1759	0.0089	0.0111	0.1863	-0.0108	-0.0273	0.1489	
BeSTVAR	41	0.1917	0.1697	0.1924	0.3129	0.1751	0.2183	0.3784	
SeSTVAR	42	0.2984	0.3330	0.4168	0.4351	0.3427	0.3627	0.4973	
ReBRVAR	43	-0.1804	-0.1300	0.1344	0.0878	-0.1401	0.1103	-0.0634	
BeBRVAR	44	-0.2475	-0.3618	-0.3471	-0.4557	-0.3653	-0.2095	-0.4598	
SeBRVAR	45	-0.3198	-0.4797	-0.5867	-0.5700	-0.3700	-0.6325	-0.5208	
ReHVAR	46	-0.2986	-0.2276	-0.2216	0.0551	-0.2368	-0.2364	-0.1364	
BeHVAR	47	-0.0385	-0.0189	-0.0834	0.0195	0.0809	-0.1653	0.0522	
SeHVAR	48	-0.3505	-0.2812	-0.1630	-0.2163	-0.2415	-0.2419	-0.2634	
ReGVAR	49	0.4828	0.4625	0.5483	0.5958	0.5782	0.5110	0.6431	
BeGVAR	50	0.1397	0.1991	0.2848	0.1603	0.1728	0.4029	0.2631	
SeGVAR	51	0.1981	0.1919	0.1595	0.1560	0.1652	0.0966	0.2809	

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Table 51 continued (4/6)

ReSEL10	22	1.0000						
BeSEL10	23	0.6513	1.0000					
SeSEL10	24	0.4819	0.4633	1.0000				
ReSTALK	25	0.4623	0.2736	0.4828	1.0000			
BeSTALK	26	0.3198	0.2587	0.3405	0.8534	1.0000		
SeSTALK	27	0.4072	0.2647	0.4184	0.8913	0.8945	1.0000	
ReBRIX	28	0.3835	0.1643	0.2891	-0.1144	-0.2765	-0.1294	1.0000
BeBRIX	29	0.4041	0.3458	0.0909	-0.2293	-0.3708	-0.3005	0.6363
SeBRIX	30	0.2760	0.2205	0.1119	-0.1872	-0.4186	-0.2482	0.7284
ReHARD	31	-0.1704	-0.1747	0.0491	0.2039	0.0653	0.1759	-0.0705
BeHARD	32	0.0097	-0.0374	-0.0069	0.1309	0.0619	0.1381	0.0813
SeHARD	33	0.2549	0.1486	0.0005	0.1041	-0.0405	0.1007	0.2627
ReVISG	34	0.7489	0.6170	0.5789	0.5095	0.3145	0.3674	0.5979
BeVISG	35	0.7454	0.8366	0.5752	0.4291	0.3320	0.4388	0.3382
SeVISG	36	0.7254	0.6265	0.6916	0.5551	0.3189	0.5095	0.4178
ReWS	37	0.3299	0.3422	0.2382	-0.2694	-0.4430	-0.3144	0.6437
BeWS	38	0.3465	0.4770	0.4161	-0.2781	-0.4050	-0.3385	0.3963
SeWS	39	0.2544	0.4315	0.2700	-0.1288	-0.3258	-0.3470	0.1683
ReSTVAR	40	0.1171	0.1396	0.1271	0.5077	0.6350	0.4858	-0.5249
BeSTVAR	41	0.2992	0.5969	0.1939	0.3156	0.4221	0.3159	-0.2472
SeSTVAR	42	0.5178	0.3958	0.2033	0.6064	0.5358	0.6677	-0.0633
ReBRVAR	43	-0.0490	-0.1426	-0.0055	-0.3349	-0.3627	-0.3016	-0.0092
BeBRVAR	44	-0.2994	-0.2118	-0.4105	-0.3080	-0.1504	-0.1829	-0.1329
SeBRVAR	45	-0.4699	-0.5313	-0.2372	-0.2189	-0.2768	-0.3518	-0.2108
ReHVAR	46	-0.3247	-0.3003	-0.3289	-0.1067	-0.2898	-0.1773	-0.0379
BeHVAR	47	-0.2093	-0.0433	-0.0634	-0.1301	-0.2745	-0.2684	0.1412
SeHVAR	48	-0.2343	-0.3377	-0.1274	-0.2225	-0.3202	-0.2338	0.0365
ReGVAR	49	0.8255	0.5599	0.4273	0.2479	0.0788	0.1554	0.2694
BeGVAR	50	0.2364	0.6754	0.2384	-0.2329	-0.1524	-0.2231	0.1057
SeGVAR	51	0.1956	0.0542	0.5947	0.0779	-0.0710	-0.0025	0.2223

22 23 24 25 26 27 28

Table 51 continued (5/6)

BeBRIX	29	1.0000						
SeBRIX	30	0.6558	1.0000					
ReHARD	31	-0.1591	-0.0031	1.0000				
BeHARD	32	0.1296	0.1073	0.7407	1.0000			
SeHARD	33	0.2638	0.3856	0.5820	0.8423	1.0000		
ReVISA	34	0.4942	0.4884	0.0623	0.1174	0.3158	1.0000	
BeVISA	35	0.4410	0.3781	0.0879	0.1355	0.2736	0.8221	1.0000
SeVISA	36	0.3732	0.4286	0.1471	0.1557	0.3739	0.8304	0.8242
ReWS	37	0.6233	0.7167	0.0683	0.1820	0.4191	0.5779	0.4980
BeWS	38	0.4633	0.4273	-0.1017	0.1170	0.2490	0.3571	0.4217
SeWS	39	0.4681	0.2439	-0.0793	-0.1096	-0.0205	0.3777	0.3392
ReSTVAR	40	-0.2964	-0.5035	0.3220	0.2990	0.1953	0.0722	0.1597
BeSTVAR	41	-0.0891	-0.2075	-0.2060	-0.2728	-0.1935	0.1371	0.3175
SeSTVAR	42	0.0791	-0.0578	-0.0860	-0.1877	-0.0008	0.3536	0.4481
ReBRVAR	43	-0.0378	0.2309	0.1863	0.0866	0.1382	-0.1076	-0.0234
BeBRVAR	44	-0.2825	-0.2350	-0.0883	-0.3297	-0.2717	-0.3671	-0.3253
SeBRVAR	45	-0.1222	-0.3394	-0.0773	-0.1297	-0.3204	-0.4869	-0.6778
ReHVAR	46	-0.0429	0.1152	0.2687	0.2164	0.2134	-0.1289	-0.2441
BeHVAR	47	0.0994	0.2003	0.0387	0.2259	0.1979	0.0336	-0.0726
SeHVAR	48	-0.1741	0.1555	0.3243	0.0761	0.1578	-0.2350	-0.3198
ReGVAR	49	0.4631	0.1681	-0.2560	-0.0072	0.2412	0.5747	0.5533
BeGVAR	50	0.1615	0.1312	-0.3455	-0.3576	-0.2196	0.1511	0.3651
SeGVAR	51	-0.0251	-0.0833	0.0146	-0.1889	-0.1831	0.2128	0.0780

29 30 31 32 33 34 35

SeVISA	36	1.0000						
ReWS	37	0.4990	1.0000					
BeWS	38	0.3878	0.7670	1.0000				
SeWS	39	0.3918	0.5465	0.6436	1.0000			
ReSTVAR	40	0.1498	-0.3128	-0.2544	-0.1487	1.0000		
BeSTVAR	41	0.2562	-0.2268	0.0218	0.1970	0.2929	1.0000	
SeSTVAR	42	0.4201	-0.1573	-0.2547	-0.1402	0.2955	0.4087	1.0000
ReBRVAR	43	0.0312	0.1995	0.1770	0.0983	-0.0770	-0.1217	-0.4191
BeBRVAR	44	-0.4284	-0.2788	-0.3693	-0.1703	-0.2872	-0.0466	-0.0629
SeBRVAR	45	-0.5559	-0.4663	-0.3224	-0.0057	-0.1655	-0.2996	-0.2595
ReHVAR	46	-0.0182	0.0678	-0.0954	0.0474	-0.1746	-0.2628	-0.3297
BeHVAR	47	0.0011	0.3429	0.3951	0.2745	-0.3608	-0.2511	-0.4172
SeHVAR	48	-0.1469	0.0233	-0.0230	-0.0092	-0.3320	-0.1984	-0.1293
ReGVAR	49	0.6197	0.4044	0.5194	0.4798	0.1837	0.2803	0.3716
BeGVAR	50	0.1810	0.2442	0.5441	0.5072	-0.2387	0.6435	-0.0721
SeGVAR	51	0.2433	0.1704	0.4365	0.3480	-0.0580	0.0585	-0.0092

36 37 38 39 40 41 42

Table 51 continued (6/6)

ReBRVAR	43	1.0000							
BeBRVAR	44	-0.2098	1.0000						
SeBRVAR	45	-0.0133	0.1016	1.0000					
ReHVAR	46	0.2343	-0.0698	0.1365	1.0000				
BeHVAR	47	-0.0776	-0.2372	0.0657	0.3105	1.0000			
SeHVAR	48	0.2160	0.2585	0.0768	0.3269	-0.0167	1.0000		
ReGVAR	49	0.0929	-0.4389	-0.2664	-0.2776	-0.0905	-0.2930	1.0000	
BeGVAR	50	0.0336	0.1408	-0.3039	-0.2279	0.0265	-0.1031	0.2325	
SeGVAR	51	0.1979	-0.2485	0.2012	-0.1336	-0.0688	0.1400	0.3691	
		43	44	45	46	47	48	49	
BeGVAR	50	1.0000							
SeGVAR	51	0.1892	1.0000						
		50	51						

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

r = ratoon crop

NMGY = NMGYOT

VISG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

WS = weight per stalk

STVAR = within plot variance for number of stalks

BRVAR = within plot variance for BRIX

HVAR = within plot variance for HARDNESS

GVAR = within plot variance for visual net merit grade.

Table 52 continued (2/6)

BeCCSpr	8	1.0000						
SeCCSpr	9	0.7852	1.0000					
ReTSHpr	10	0.0482	0.3104	1.0000				
BeTSHpr	11	0.2943	0.2352	0.6586	1.0000			
SeTSHpr	12	0.0773	0.2520	0.7932	0.6556	1.0000		
ReNMGYpr	13	0.2889	0.5046	0.9497	0.7282	0.7569	1.0000	
BeNMGYpr	14	0.5429	0.4036	0.5136	0.9475	0.5403	0.6593	1.0000
SeNMGYpr	15	0.3252	0.5069	0.7394	0.6432	0.9468	0.7885	0.6137
ReSEL7	16	0.0280	0.2695	0.7798	0.5425	0.6828	0.7425	0.3931
BeSEL7	17	0.3851	0.3542	0.6503	0.7806	0.6141	0.7011	0.7271
SeSEL7	18	0.1687	0.2987	0.7753	0.6132	0.8056	0.7163	0.4912
ReSEL8	19	-0.1359	0.0552	0.7937	0.4602	0.5251	0.7305	0.2849
BeSEL8	20	0.2292	0.2100	0.5943	0.8293	0.6382	0.6517	0.7501
SeSEL8	21	0.2792	0.3301	0.7795	0.5852	0.7548	0.7276	0.5209
ReSEL10	22	-0.0168	0.0332	0.7112	0.5753	0.4180	0.6301	0.4340
BeSEL10	23	0.1834	0.0999	0.2853	0.5886	0.3519	0.3528	0.5333
SeSEL10	24	0.0912	0.2873	0.6546	0.4896	0.7208	0.6471	0.3860
ReSTALK	25	-0.4092	-0.2319	0.5093	0.4013	0.5191	0.4043	0.2305
BeSTALK	26	-0.4405	-0.4151	0.2094	0.4618	0.3232	0.1656	0.3147
SeSTALK	27	-0.4065	-0.3063	0.2929	0.3453	0.5150	0.2066	0.2033
ReBRIX	28	0.4952	0.6003	0.5212	0.4143	0.4198	0.6249	0.4579
BeBRIX	29	0.7139	0.5942	0.1951	0.1377	0.1913	0.3017	0.2532
SeBRIX	30	0.4396	0.7590	0.3041	0.0579	0.1625	0.3630	0.1038
ReHARD	31	-0.4242	-0.2502	0.1428	-0.0173	0.1379	0.0069	-0.1560
BeHARD	32	-0.3550	-0.1589	0.1159	0.0074	0.1433	0.0079	-0.1074
SeHARD	33	-0.3567	-0.0643	0.1983	-0.1120	0.0733	0.0397	-0.2435
ReVISG	34	-0.0963	0.1664	0.9045	0.5870	0.6999	0.8216	0.3929
BeVISG	35	0.1742	0.1771	0.7161	0.8611	0.7104	0.7414	0.7540
SeVISG	36	0.0578	0.2435	0.8422	0.6125	0.8487	0.7628	0.4626
ReWSpr	37	0.1439	0.2462	0.4688	0.1494	0.2678	0.4066	0.0847
BeWSpr	38	0.3756	0.3825	0.5587	0.5054	0.4557	0.5517	0.4771
SeWSpr	39	0.1721	0.1926	0.5278	0.2967	0.5330	0.4750	0.2322
ReWSr_p	40	0.0464	0.2670	0.0982	0.0040	-0.0100	0.0920	0.0216
BeWSr_p	41	-0.2816	-0.1905	-0.3051	-0.2901	-0.4369	-0.2998	-0.3060
SeWSr_p	42	0.0350	0.0532	-0.1773	-0.1931	-0.1870	-0.1297	-0.1854
ReSTVAR	43	-0.3158	-0.3178	0.0276	0.1173	0.0482	-0.0434	0.0505
BeSTVAR	44	-0.1377	-0.2363	-0.0560	0.1889	0.1538	-0.0932	0.0770
SeSTVAR	45	-0.0596	-0.0136	0.2346	0.0290	0.3440	0.1754	-0.0461
ReBRVAR	46	-0.2126	-0.2114	-0.2118	-0.2745	-0.1691	-0.2788	-0.3106
BeBRVAR	47	-0.1863	-0.1711	-0.1623	-0.2825	-0.2689	-0.1355	-0.2739
SeBRVAR	48	-0.0665	-0.2379	-0.2253	-0.3301	-0.1312	-0.2710	-0.2902
ReHVAR	49	-0.2880	-0.1288	-0.0777	-0.3510	-0.1611	-0.1901	-0.4208
BeHVAR	50	0.0916	0.1893	0.2086	-0.0179	-0.0209	0.2271	0.0206
SeHVAR	51	-0.2122	-0.1285	-0.1635	-0.4157	-0.4305	-0.2784	-0.4408
ReGVAR	52	0.2041	0.0171	0.3482	0.4136	0.1487	0.3465	0.3924
BeGVAR	53	0.2865	0.1406	-0.0584	0.2399	0.0926	0.0063	0.2558
SeGVAR	54	0.1580	0.0923	0.3132	0.2928	0.2484	0.3295	0.2548

Table 52 continued (3/6)

SeNMGYpr	15	1.0000							
ReSEL7	16	0.6349	1.0000						
BeSEL7	17	0.6154	0.5771	1.0000					
SeSEL7	18	0.7497	0.7425	0.7524	1.0000				
ReSEL8	19	0.4373	0.7652	0.4418	0.5343	1.0000			
BeSEL8	20	0.5935	0.5895	0.8825	0.6247	0.4702	1.0000		
SeSEL8	21	0.7259	0.6288	0.6590	0.8408	0.4795	0.4991	1.0000	
ReSEL10	22	0.3164	0.4748	0.4313	0.4869	0.7468	0.4122	0.5211	
BeSEL10	23	0.2990	0.3949	0.5586	0.2171	0.2760	0.7228	0.2737	
SeSEL10	24	0.6987	0.6076	0.4213	0.6282	0.5538	0.4536	0.5547	
ReSTALK	25	0.3980	0.4708	0.1114	0.4264	0.5152	0.2657	0.2272	
BeSTALK	26	0.2083	0.2113	0.1118	0.1825	0.2399	0.3064	-0.0388	
SeSTALK	27	0.4019	0.2362	0.1399	0.3796	0.2280	0.2737	0.1504	
ReBRIX	28	0.5195	0.5832	0.4455	0.4254	0.4049	0.4442	0.4634	
BeBRIX	29	0.3193	0.1374	0.4685	0.4120	0.0045	0.2244	0.4359	
SeBRIX	30	0.2987	0.3607	0.3378	0.4025	0.0375	0.1645	0.3348	
ReHARD	31	0.0091	0.1771	0.0805	0.1608	-0.0055	0.1641	0.1796	
BeHARD	32	0.0656	0.0325	0.1258	0.2036	-0.0725	0.0865	0.2218	
SeHARD	33	-0.0220	0.0890	0.0679	0.2681	-0.0313	-0.0382	0.2938	
ReVISC	34	0.6020	0.9067	0.5956	0.7243	0.8908	0.6091	0.6556	
BeVISC	35	0.6459	0.6666	0.9003	0.7123	0.5487	0.9504	0.6397	
SeVISC	36	0.7734	0.7496	0.7320	0.9661	0.6031	0.6252	0.8597	
ReWSpr	37	0.2164	0.3025	0.5007	0.3713	0.2921	0.3186	0.5156	
BeWSpr	38	0.4323	0.3965	0.6722	0.5368	0.3333	0.5566	0.6894	
SeWSpr	39	0.4665	0.4612	0.4383	0.4579	0.3649	0.3830	0.6284	
ReWSr_p	40	0.0761	0.2321	-0.1295	0.1045	0.1196	-0.2178	0.0778	
BeWSr_p	41	-0.4123	-0.2265	-0.4535	-0.4454	-0.2153	-0.4334	-0.4446	
SeWSr_p	42	-0.1575	-0.2116	-0.2263	-0.2119	-0.0614	-0.2174	-0.2111	
ReSTVAR	43	-0.0225	-0.0266	-0.0252	0.0976	0.0931	0.0324	0.0793	
BeSTVAR	44	0.0295	0.2263	0.2450	0.2088	0.0587	0.4425	0.0037	
SeSTVAR	45	0.2932	0.2431	0.1900	0.3074	0.3473	0.2152	0.1352	
ReBRVAR	46	-0.2487	-0.1448	-0.1632	-0.0800	-0.1042	-0.1992	-0.1408	
BeBRVAR	47	-0.2596	-0.1446	-0.1402	-0.4299	0.0435	-0.1247	-0.4657	
SeBRVAR	48	-0.1799	-0.0806	-0.4280	-0.2794	-0.0498	-0.3493	-0.0114	
ReHVAR	49	-0.2380	-0.0789	-0.1260	0.0604	-0.2001	-0.2554	-0.0005	
BeHVAR	50	0.0296	-0.0922	0.0196	0.0232	0.1249	-0.0853	0.2444	
SeHVAR	51	-0.5137	-0.1335	-0.3607	-0.3108	-0.1126	-0.3909	-0.2290	
ReGVAR	52	0.1230	0.1609	0.3852	0.3995	0.4270	0.2527	0.4223	
BeGVAR	53	0.0673	0.1125	0.3604	0.0317	-0.0825	0.4709	0.0741	
SeGVAR	54	0.2245	0.3059	0.0879	0.1381	0.3232	0.1737	0.3105	

15 16 17 18 19 20 21

Table 52 continued (4/6)

ReSEL10	22	1.0000						
BeSEL10	23	0.2361	1.0000					
SeSEL10	24	0.5364	0.2592	1.0000				
ReSTALK	25	0.4364	-0.1024	0.2965	1.0000			
BeSTALK	26	0.1604	0.0781	0.0466	0.7922	1.0000		
SeSTALK	27	0.1852	-0.0328	0.1822	0.8105	0.8440	1.0000	
ReBRIX	28	0.2438	0.4238	0.2854	0.0078	-0.1585	-0.0847	1.0000
BeBRIX	29	0.0914	0.1401	0.0682	-0.3609	-0.4582	-0.2913	0.4731
SeBRIX	30	0.0033	0.0966	0.1185	-0.1585	-0.3897	-0.2329	0.5882
ReHARD	31	-0.0694	0.0760	-0.0233	0.1432	0.0483	0.1209	0.0538
BeHARD	32	-0.0157	0.0171	0.0727	0.0368	0.0384	0.2173	-0.1021
SeHARD	33	0.1004	-0.0771	0.0831	0.0309	-0.1464	0.0547	-0.0260
ReVISG	34	0.6763	0.3789	0.5566	0.5381	0.2750	0.2950	0.5707
BeVISG	35	0.4777	0.6984	0.4877	0.3096	0.3330	0.3274	0.4666
SeVISG	36	0.4999	0.2324	0.6494	0.4355	0.2173	0.3836	0.4200
ReWSpr	37	0.2939	0.3609	0.3386	-0.4275	-0.5489	-0.4431	0.3493
BeWSpr	38	0.5062	0.5325	0.5303	-0.2699	-0.4303	-0.3449	0.4443
SeWSpr	39	0.2869	0.3935	0.5472	-0.1638	-0.3764	-0.3577	0.3594
ReWSr_p	40	0.1120	-0.2802	-0.0652	0.4076	0.2056	0.2390	-0.0715
BeWSr_p	41	-0.1282	-0.2390	-0.2487	0.0662	0.1765	0.0074	-0.5134
SeWSr_p	42	0.0003	-0.0189	-0.0569	-0.0336	-0.0136	-0.1053	-0.4104
ReSTVAR	43	0.1745	-0.2802	0.1772	0.3871	0.3885	0.3471	-0.5173
BeSTVAR	44	-0.0683	0.4652	-0.1114	0.1820	0.3597	0.2492	0.0336
SeSTVAR	45	0.2363	-0.0086	0.1754	0.3570	0.2314	0.4480	0.1243
ReBRVAR	46	-0.1439	-0.0746	-0.0330	-0.1934	-0.2214	-0.1270	-0.4007
BeBRVAR	47	-0.2742	0.0101	-0.2917	-0.1399	-0.0663	-0.1802	0.0458
SeBRVAR	48	-0.0478	0.0115	0.0190	-0.1521	-0.2724	-0.1719	-0.1820
ReHVAR	49	-0.1557	-0.2219	-0.2197	-0.0362	-0.2071	-0.0371	-0.3053
BeHVAR	50	0.1143	-0.0873	0.0132	-0.1253	-0.3035	-0.2873	0.0092
SeHVAR	51	-0.0234	-0.0720	-0.4220	-0.2702	-0.4003	-0.4048	0.0541
ReGVAR	52	0.6700	0.0210	0.4017	0.1207	-0.0199	0.0053	-0.0554
BeGVAR	53	-0.0842	0.8431	0.0510	-0.4679	-0.2546	-0.3284	0.3236
SeGVAR	54	0.4965	0.3094	0.5977	-0.0298	-0.1916	-0.2236	0.2801
		22	23	24	25	26	27	28

Table 52 continued (5/6)

BeBRIX	29	1.0000						
SeBRIX	30	0.5465	1.0000					
ReHARD	31	-0.2543	0.0871	1.0000				
BeHARD	32	-0.1139	0.0748	0.7994	1.0000			
SeHARD	33	-0.0054	0.3531	0.7299	0.8343	1.0000		
ReVISC	34	0.1030	0.2757	0.2047	0.0595	0.1360	1.0000	
BeVISC	35	0.2064	0.1533	0.2412	0.2129	0.0713	0.7045	1.0000
SeVISC	36	0.3437	0.3401	0.2204	0.2677	0.3021	0.7836	0.7318
ReWSpr	37	0.3777	0.3530	0.1952	0.2016	0.3247	0.4010	0.3985
BeWSpr	38	0.4442	0.3519	0.1239	0.1549	0.2344	0.4533	0.5935
SeWSpr	39	0.2941	0.1539	0.1818	0.0224	0.0984	0.4717	0.4286
ReWSr_p	40	-0.0957	0.2769	-0.1842	-0.0973	0.0325	0.1230	-0.1571
BeWSr_p	41	-0.3078	-0.2062	-0.1754	-0.0193	0.0060	-0.3028	-0.4393
SeWSr_p	42	0.1117	-0.0684	-0.3638	-0.2318	-0.1288	-0.2141	-0.2555
ReSTVAR	43	-0.3425	-0.4155	0.1230	0.2262	0.1926	-0.0223	0.0448
BeSTVAR	44	0.1490	-0.0024	0.1190	-0.0601	-0.0830	0.1909	0.3219
SeSTVAR	45	0.2407	0.0455	-0.2823	-0.3206	-0.1878	0.3244	0.1405
ReBRVAR	46	-0.2967	-0.2188	0.1583	0.1894	0.1016	-0.1864	-0.1224
BeBRVAR	47	-0.2898	-0.0940	0.0367	-0.1514	-0.1748	-0.0895	-0.1419
SeBRVAR	48	-0.1363	-0.3940	-0.0433	-0.0887	-0.0727	-0.1849	-0.2764
ReHVAR	49	-0.0883	0.2330	0.4327	0.4702	0.5557	-0.1178	-0.1601
BeHVAR	50	0.0704	0.1376	0.0996	0.2536	0.2487	0.0084	-0.0227
SeHVAR	51	-0.1017	0.1278	0.2281	0.0228	0.2405	-0.0470	-0.3344
ReGVAR	52	0.1896	-0.1788	-0.3021	-0.0865	-0.0396	0.2378	0.2831
BeGVAR	53	0.2994	0.1951	-0.0351	-0.1183	-0.1282	0.0479	0.3762
SeGVAR	54	0.0040	-0.1324	0.0225	-0.0880	-0.0570	0.3060	0.2044

29 30 31 32 33 34 35

SeVISC	36	1.0000						
ReWSpr	37	0.4440	1.0000					
BeWSpr	38	0.5583	0.8488	1.0000				
SeWSpr	39	0.5403	0.7629	0.7989	1.0000			
ReWSr_p	40	0.0190	-0.4357	-0.3389	-0.4303	1.0000		
BeWSr_p	41	-0.4661	-0.4316	-0.5215	-0.5015	0.4525	1.0000	
SeWSr_p	42	-0.2469	-0.2736	-0.2558	-0.2119	0.3399	0.5305	1.0000
ReSTVAR	43	0.1259	-0.3201	-0.2083	-0.2032	0.2405	0.1954	0.2286
BeSTVAR	44	0.1811	-0.1477	-0.0682	0.0125	-0.0893	-0.0270	0.2202
SeSTVAR	45	0.2834	-0.0751	-0.1325	-0.0899	0.1136	-0.1361	0.1725
ReBRVAR	46	-0.1504	0.1312	0.0346	0.0073	-0.0039	0.0300	0.1149
BeBRVAR	47	-0.3639	0.0455	-0.2164	-0.0549	-0.2834	-0.1658	-0.2221
SeBRVAR	48	-0.2983	-0.0609	-0.0891	0.0954	0.0931	0.1704	0.2852
ReHVAR	49	-0.0005	0.1177	-0.0112	-0.0814	0.1687	0.1372	0.0582
BeHVAR	50	0.1033	0.2784	0.2985	0.2499	-0.0279	-0.0363	-0.0448
SeHVAR	51	-0.3377	0.2598	0.0445	0.0172	0.0126	0.1147	-0.0866
ReGVAR	52	0.3360	0.1941	0.4112	0.1574	0.0452	-0.0190	0.0601
BeGVAR	53	0.0157	0.4307	0.5031	0.4159	-0.4176	-0.2572	-0.0053
SeGVAR	54	0.1276	0.2849	0.4512	0.4734	-0.2009	-0.0255	0.0282

36 37 38 39 40 41 42

Table 52 continued (6/6)

ReSTVAR	43	1.0000							
BeSTVAR	44	0.0050	1.0000						
SeSTVAR	45	0.1296	0.3841	1.0000					
ReBRVAR	46	0.0187	-0.1798	-0.3165	1.0000				
BeBRVAR	47	-0.3315	-0.2419	-0.0682	0.0316	1.0000			
SeBRVAR	48	0.1929	-0.1145	0.0239	0.3268	-0.1185	1.0000		
ReHVAR	49	-0.0998	-0.1398	-0.3610	0.6180	0.0159	-0.0113	1.0000	
BeHVAR	50	-0.1248	-0.3982	-0.5114	0.1089	0.0325	-0.1696	0.3553	
SeHVAR	51	-0.4380	-0.1295	-0.2672	0.3970	0.1685	0.2353	0.4263	
ReGVAR	52	0.3428	-0.1628	0.0686	0.1431	-0.4169	0.0333	-0.0871	
BeGVAR	53	-0.4891	0.5092	-0.0295	-0.0128	0.0103	0.0293	-0.1753	
SeGVAR	54	0.0032	-0.1255	-0.0583	0.0564	-0.2935	0.4046	-0.2952	
		43	44	45	46	47	48	49	
BeHVAR	50	1.0000							
SeHVAR	51	0.0471	1.0000						
ReGVAR	52	0.2653	-0.1932	1.0000					
BeGVAR	53	-0.1332	0.1112	-0.1406	1.0000				
SeGVAR	54	-0.1150	0.0609	0.3768	0.1758	1.0000			
		50	51	52	53	54			

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

pr = $(p+r)/2$ crop

r_p = $(r-p)/2$ crop

NMGY = NMGYOT

VISG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

WS = weight per stalk

STVAR = within plot variance for number of stalks

BRVAR = within plot variance for BRIX

HVAR = within plot variance for HARDNESS

GVAR = within plot variance for visual net merit grade

Table 53. Correlation matrix for means, harvest and selection data. 24 crosses, 3 crop classes (P, R, PR), trial Te, type Re.

		DF = 22						
ReFIBREp	1	1.0000						
ReFIBREr	2	0.8296	1.0000					
ReFIBRpr	3	0.9514	0.9612	1.0000				
ReTCHp	4	0.3343	0.4110	0.3918	1.0000			
ReTCHr	5	0.4542	0.6069	0.5591	0.6750	1.0000		
ReTCHpr	6	0.4400	0.5714	0.5325	0.8853	0.9406	1.0000	
ReCCSp	7	-0.4165	-0.5535	-0.5109	0.1920	0.0030	0.0903	1.0000
ReCCSr	8	-0.4273	-0.5379	-0.5076	0.0655	-0.0490	-0.0007	0.8510
ReCCSpr	9	-0.4373	-0.5679	-0.5291	0.1438	-0.0198	0.0537	0.9727
ReTSHp	10	0.1442	0.1627	0.1610	0.9374	0.5826	0.7983	0.5201
ReTSHr	11	0.3449	0.4664	0.4277	0.6689	0.9669	0.9170	0.2158
ReTSHpr	12	0.2762	0.3569	0.3333	0.8738	0.8660	0.9477	0.3938
ReNMGYp	13	-0.0425	-0.0360	-0.0408	0.8435	0.4776	0.6890	0.6820
ReNMGYr	14	0.1869	0.2570	0.2342	0.6065	0.8295	0.8018	0.4300
ReNMGYpr	15	0.0680	0.1069	0.0927	0.8072	0.7000	0.8125	0.6225
ReSEL7p	16	0.2096	0.2044	0.2163	0.6414	0.4046	0.5500	0.1897
ReSEL7r	17	0.2027	0.2994	0.2652	0.5157	0.7818	0.7299	0.2858
ReSEL7pr	18	0.2585	0.2041	0.2403	0.7107	0.6924	0.7633	0.3268
ReSEL8p	19	0.1441	0.1568	0.1577	0.6163	0.3163	0.4829	0.1632
ReSEL8r	20	0.3373	0.3187	0.3423	0.5626	0.7576	0.7362	0.3175
ReSEL8pr	21	0.2493	0.2938	0.2852	0.8044	0.6970	0.8093	0.2205
ReSEL10p	22	-0.0964	0.1156	0.0162	0.5114	0.2180	0.3727	0.0489
ReSEL10r	23	0.1414	0.2397	0.2021	0.6048	0.6672	0.6987	0.2231
ReSEL10pr	24	0.0927	0.3093	0.2165	0.6236	0.6907	0.7221	0.1625
ReSTp	25	0.1313	0.2709	0.2143	0.4331	0.5365	0.5374	-0.0203
ReSTr	26	0.4080	0.5211	0.4890	0.2877	0.7369	0.5968	-0.2186
ReSTpr	27	0.3367	0.4684	0.4247	0.3659	0.7129	0.6176	-0.1631
ReBRIXp	28	-0.0791	-0.1938	-0.1459	0.2731	0.0622	0.1649	0.6285
ReBRIXr	29	0.1085	0.0265	0.0682	0.3466	0.3688	0.3918	0.4994
ReBRIXpr	30	0.0190	-0.1134	-0.0531	0.3810	0.2447	0.3294	0.7149
ReHARDp	31	0.5568	0.5167	0.5599	0.3822	0.1678	0.2814	-0.2935
ReHARDr	32	0.6375	0.6330	0.6639	0.1905	0.2316	0.2335	-0.4807
ReHARDpr	33	0.6423	0.6165	0.6572	0.3095	0.2136	0.2769	-0.4134
ReVISGp	34	0.2896	0.3307	0.3255	0.7933	0.5161	0.6902	0.2406
ReVISGr	35	0.3294	0.3696	0.3665	0.6654	0.8772	0.8589	0.2429
ReVISGpr	36	0.3723	0.4152	0.4129	0.8380	0.8271	0.9067	0.2778
ReSTVp	37	-0.2465	-0.1497	-0.2044	-0.0132	0.0583	0.0307	-0.3191
ReSTVr	38	0.1905	0.2532	0.2337	0.1190	0.2365	0.2038	-0.3938
ReSTVpr	39	-0.0169	0.0384	0.0128	0.1138	0.1674	0.1579	-0.3844
ReBRVp	40	0.0695	0.0908	0.0844	-0.3196	-0.1612	-0.2486	-0.4441
ReBRVr	41	-0.1028	-0.1094	-0.1111	0.0741	-0.1713	-0.0739	0.1220
ReBRVpr	42	0.1500	0.1354	0.1488	-0.0372	-0.1188	-0.0920	-0.3965
ReHVp	43	0.3343	0.4437	0.4098	0.1215	0.1606	0.1570	-0.2936
ReHVr	44	0.2413	0.1850	0.2212	-0.0605	-0.0720	-0.0732	-0.3590
ReHVpr	45	0.3385	0.3965	0.3859	-0.0085	0.0668	0.0381	-0.4011
ReGVp	46	-0.3335	-0.1591	-0.2524	-0.2196	-0.3321	-0.3103	-0.1892
ReGVr	47	0.0966	0.1231	0.1156	0.5845	0.5237	0.5989	0.2494
ReGVpr	48	-0.2333	-0.0465	-0.1407	0.3711	0.2573	0.3329	0.1439
ReWSp	49	0.1882	0.1617	0.1821	0.4753	0.1191	0.2936	0.1407
ReWSr	50	0.1084	0.1873	0.1568	0.5503	0.4440	0.5328	0.2557
ReWSpr	51	0.1683	0.1869	0.1862	0.5501	0.2755	0.4265	0.2048
ReWSr_p	52	-0.1525	-0.0395	-0.0971	-0.1179	0.2681	0.1148	0.0551

Table 53 continued (2/6)

ReCCSr	8	1.0000						
ReCCSpr	9	0.9497	1.0000					
ReTSHp	10	0.3519	0.4660	1.0000				
ReTSHr	11	0.2041	0.2190	0.6516	1.0000			
ReTSHpr	12	0.3005	0.3679	0.8958	0.9208	1.0000		
ReNMGyp	13	0.5044	0.6300	0.9750	0.5866	0.8449	1.0000	
ReNMGYr	14	0.4515	0.4562	0.6723	0.9288	0.8897	0.6580	1.0000
ReNMGYpr	15	0.5271	0.6045	0.9187	0.8148	0.9497	0.9265	0.8930
ReSEL7p	16	-0.1036	0.0675	0.6315	0.3681	0.5403	0.5797	0.4091
ReSEL7r	17	0.1287	0.2274	0.5477	0.8037	0.7524	0.5167	0.7042
ReSEL7pr	18	0.0599	0.2216	0.7306	0.6901	0.7798	0.6894	0.6612
ReSEL8p	19	-0.1615	0.0261	0.6045	0.2655	0.4664	0.5569	0.2979
ReSEL8r	20	0.1944	0.2754	0.5988	0.7919	0.7717	0.5563	0.6728
ReSEL8pr	21	-0.0251	0.1206	0.7801	0.6702	0.7937	0.7150	0.6065
ReSEL10p	22	-0.1992	-0.0587	0.4722	0.1597	0.3363	0.4383	0.1338
ReSEL10r	23	0.1391	0.1948	0.6036	0.6816	0.7096	0.5677	0.6202
ReSL10pr	24	0.0580	0.1227	0.6017	0.6860	0.7112	0.5519	0.6007
ReSTp	25	-0.0960	-0.0545	0.3621	0.4886	0.4723	0.3144	0.5099
ReSTr	26	-0.1843	-0.2119	0.1661	0.6697	0.4777	0.0741	0.5938
ReSTpr	27	-0.1695	-0.1722	0.2533	0.6472	0.5093	0.1704	0.6054
ReBRIXp	28	0.4705	0.5828	0.4581	0.1802	0.3411	0.5321	0.3460
ReBRIXr	29	0.3664	0.4598	0.4773	0.4593	0.5145	0.5011	0.4373
ReBRIXpr	30	0.5284	0.6599	0.5833	0.3777	0.5212	0.6463	0.4773
ReHARDp	31	-0.2704	-0.2944	0.2246	0.0979	0.1729	0.0959	0.0303
ReHARDr	32	-0.2585	-0.4010	-0.0170	0.1708	0.0914	-0.1639	0.0721
ReHARDpr	33	-0.2833	-0.3718	0.1140	0.1436	0.1428	-0.0339	0.0541
ReVISGp	34	-0.0418	0.1252	0.7780	0.4895	0.6867	0.7121	0.4958
ReVISGr	35	0.1043	0.1911	0.6609	0.8850	0.8582	0.6015	0.7622
ReVISGpr	36	0.0410	0.1840	0.8269	0.8183	0.9045	0.7529	0.7435
ReSTVp	37	-0.1624	-0.2619	-0.1274	-0.0006	-0.0659	-0.1430	-0.0514
ReSTVr	38	-0.2982	-0.3666	-0.0450	0.1399	0.0588	-0.1291	0.0668
ReSTVpr	39	-0.2186	-0.3257	-0.0482	0.0894	0.0276	-0.1059	0.0399
ReBRVp	40	-0.3701	-0.4286	-0.4227	-0.2321	-0.3533	-0.4689	-0.3300
ReBRVr	41	0.0296	0.0859	0.1005	-0.1547	-0.0389	0.1247	-0.1401
ReBRVpr	42	-0.4156	-0.4201	-0.1719	-0.2108	-0.2118	-0.2365	-0.2750
ReHVp	43	-0.1827	-0.2558	0.0026	0.1196	0.0714	-0.0800	0.0653
ReHVr	44	-0.2970	-0.3454	-0.1860	-0.1445	-0.1803	-0.2504	-0.2532
ReHVpr	45	-0.2886	-0.3668	-0.1514	0.0003	-0.0777	-0.2362	-0.0979
ReGVp	46	-0.1778	-0.1915	-0.2419	-0.3624	-0.3366	-0.2283	-0.3272
ReGVr	47	0.1132	0.1990	0.5962	0.5298	0.6169	0.5708	0.4291
ReGVpr	48	0.0796	0.1212	0.3782	0.2624	0.3482	0.3826	0.2359
ReWSp	49	0.1111	0.1332	0.4720	0.1536	0.3327	0.4259	0.0628
ReWSr	50	0.1281	0.2093	0.5703	0.4745	0.5712	0.5407	0.3515
ReWSpr	51	0.1284	0.1791	0.5570	0.3112	0.4688	0.5145	0.1981
ReWSr_p	52	-0.0281	0.0204	-0.0940	0.2503	0.0982	-0.0597	0.2556

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Table 53 continued (3/6)

ReNMGYpr	15	1.0000						
ReSEL7p	16	0.5508	1.0000					
ReSEL7r	17	0.6608	0.3322	1.0000				
ReSEL7pr	18	0.7425	0.7625	0.7664	1.0000			
ReSEL8p	19	0.4816	0.9199	0.1837	0.6271	1.0000		
ReSEL8r	20	0.6688	0.2248	0.9059	0.6853	0.0874	1.0000	
ReSEL8pr	21	0.7305	0.6577	0.6185	0.7652	0.6387	0.6736	1.0000
ReSEL10p	22	0.3288	0.5947	0.1667	0.3693	0.6676	0.0823	0.6552
ReSEL10r	23	0.6493	0.2983	0.6449	0.5419	0.1818	0.7203	0.6879
ReSL10pr	24	0.6301	0.3389	0.6079	0.4748	0.3316	0.6288	0.7468
ReSTp	25	0.4427	0.5017	0.3307	0.5161	0.4701	0.2042	0.5403
ReSTr	26	0.3410	0.2773	0.4440	0.3889	0.1929	0.4022	0.4417
ReSTpr	27	0.4043	0.3963	0.4304	0.4708	0.3255	0.3492	0.5152
ReBRIXp	28	0.4909	0.4701	0.1774	0.4130	0.4162	0.1963	0.2862
ReBRIXr	29	0.5180	0.2048	0.6037	0.5203	0.0557	0.6520	0.3739
ReBRIXpr	30	0.6249	0.4412	0.4703	0.5832	0.3156	0.5104	0.4049
ReHARDp	31	0.0725	0.3962	0.0522	0.2977	0.3117	0.0700	0.0845
ReHARDr	32	-0.0619	0.0073	0.0268	0.0266	-0.0909	0.0734	-0.0960
ReHARDpr	33	0.0069	0.2194	0.0437	0.1771	0.1217	0.0772	-0.0055
ReVISGp	34	0.6734	0.8909	0.4190	0.7731	0.8477	0.4084	0.8077
ReVISGr	35	0.7405	0.3403	0.9288	0.7804	0.2404	0.9342	0.7347
ReVISGpr	36	0.8216	0.6896	0.8158	0.9067	0.6014	0.8123	0.8908
ReSTVp	37	-0.1111	-0.1957	-0.0837	-0.0625	-0.0880	-0.1052	0.0835
ReSTVr	38	-0.0438	0.0669	0.0089	0.0583	0.0447	-0.0108	0.0365
ReSTVpr	39	-0.0434	-0.0626	-0.1244	-0.0266	-0.0186	-0.0970	0.0931
ReBRVp	40	-0.4452	-0.2942	-0.1479	-0.3159	-0.1924	-0.2329	-0.2429
ReBRVr	41	0.0046	0.1414	-0.1300	-0.0297	0.1633	-0.1401	-0.0866
ReBRVpr	42	-0.2788	0.0065	-0.2782	-0.1448	0.1532	-0.3376	-0.1042
ReHVp	43	-0.0151	-0.1441	0.1534	-0.0184	-0.2011	0.1128	-0.1239
ReHVr	44	-0.2761	-0.0729	-0.2276	-0.0816	0.0424	-0.2368	-0.1574
ReHVpr	45	-0.1901	-0.1333	-0.0305	-0.0789	-0.0924	-0.0794	-0.2001
ReGVp	46	-0.3002	0.0429	-0.3754	-0.3225	0.2539	-0.5110	-0.1332
ReGVr	47	0.5556	0.2749	0.4625	0.4605	0.2124	0.5782	0.6076
ReGVpr	48	0.3465	0.2543	0.1010	0.1609	0.3498	0.1022	0.4270
ReWSp	49	0.2860	0.1096	0.1653	0.1531	0.1231	0.2894	0.1859
ReWSr	50	0.4989	0.1751	0.5333	0.4554	0.1621	0.5587	0.3861
ReWSpr	51	0.4066	0.1486	0.3453	0.3025	0.1513	0.4357	0.2921
ReWSr_p	52	0.0920	0.0195	0.2911	0.2321	-0.0117	0.1456	0.1196

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Table 53 continued (4/6)

ReSEL10p	22	1.0000						
ReSEL10r	23	0.1652	1.0000					
ReSL10pr	24	0.5475	0.7410	1.0000				
ReSTp	25	0.4151	0.2860	0.3955	1.0000			
ReSTr	26	0.0730	0.4623	0.4118	0.6845	1.0000		
ReSTpr	27	0.2190	0.4240	0.4364	0.8665	0.9565	1.0000	
ReBRIXp	28	0.1799	0.1258	0.0936	0.1241	0.0750	0.1110	1.0000
ReBRIXr	29	-0.0052	0.3835	0.3216	0.0030	-0.1144	-0.0785	0.2055
ReBRIXpr	30	0.1149	0.3007	0.2438	0.0683	-0.0388	0.0078	0.8027
ReHARDp	31	0.0571	-0.0879	0.0187	0.1436	0.0484	0.1000	0.1964
ReHARDr	32	-0.2134	-0.1704	-0.1475	0.0457	0.2039	0.1638	-0.0125
ReHARDpr	33	-0.0850	-0.1374	-0.0694	0.1066	0.1348	0.1432	0.0982
ReVISGp	34	0.6722	0.4151	0.4896	0.5581	0.3362	0.4570	0.5697
ReVISGr	35	0.1302	0.7489	0.6576	0.3566	0.5095	0.4831	0.1367
ReVISGpr	36	0.4348	0.6932	0.6763	0.5063	0.4937	0.5381	0.4010
ReSTVp	37	0.1893	0.0827	0.2504	0.3468	0.1672	0.2483	-0.4185
ReSTVr	38	-0.0547	0.1171	0.0267	0.3676	0.5077	0.4876	-0.1149
ReSTVpr	39	0.0683	0.1381	0.1745	0.3896	0.3495	0.3871	-0.2719
ReBRVp	40	-0.0457	-0.2753	-0.1608	-0.3055	-0.2708	-0.3062	-0.7469
ReBRVr	41	-0.1075	-0.0490	-0.0562	-0.2371	-0.3349	-0.3240	0.2093
ReBRVpr	42	-0.0714	-0.1578	-0.1439	-0.0919	-0.2301	-0.1934	-0.4853
ReHVp	43	-0.1790	-0.0398	-0.0262	0.0380	-0.0800	-0.0418	-0.4315
ReHVr	44	-0.1876	-0.3247	-0.2498	-0.0067	-0.1067	-0.0769	-0.3802
ReHVpr	45	-0.2728	-0.1868	-0.1557	0.0365	-0.0721	-0.0362	-0.5073
ReGVp	46	0.3479	-0.3073	-0.0232	-0.1681	-0.2955	-0.2608	-0.1407
ReGVr	47	0.2636	0.8255	0.7268	0.1978	0.2479	0.2385	0.0629
ReGVpr	48	0.4703	0.5128	0.6700	0.1980	0.0701	0.1207	-0.0697
ReWSp	49	0.0810	0.2523	0.1897	-0.5615	-0.3823	-0.4844	0.1373
ReWSr	50	0.1789	0.3299	0.3840	-0.1815	-0.2694	-0.2649	-0.0504
ReWSp_r	51	0.1323	0.3091	0.2939	-0.4389	-0.3647	-0.4275	0.0648
ReWSr_p	52	0.0618	-0.0261	0.1120	0.5943	0.2633	0.4076	-0.2378

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Table 53 continued (5/6)

ReBRIXr	29	1.0000							
ReBRIXpr	30	0.7467	1.0000						
ReHARDp	31	-0.0066	0.1427	1.0000					
ReHARDr	32	-0.0705	-0.0434	0.7299	1.0000				
ReHARDpr	33	-0.0400	0.0538	0.9320	0.9278	1.0000			
ReVISGp	34	0.2357	0.5214	0.4257	0.1115	0.2903	1.0000		
ReVISGr	35	0.5979	0.4357	0.0533	0.0623	0.0629	0.4669	1.0000	
ReVISGpr	36	0.5170	0.5707	0.2710	0.1077	0.2047	0.8255	0.8829	
ReSTVp	37	-0.3440	-0.4994	-0.0990	-0.1894	-0.1532	-0.1654	-0.0315	
ReSTVr	38	-0.5249	-0.4151	0.1784	0.3220	0.2711	0.1268	0.0722	
ReSTVpr	39	-0.5204	-0.5173	0.0820	0.1431	0.1230	0.0032	-0.0061	
ReBRVp	40	-0.0449	-0.5151	-0.1822	-0.0775	-0.1396	-0.4832	-0.1799	
ReBRVr	41	-0.0092	0.1404	0.3221	0.1863	0.2778	0.0709	-0.1076	
ReBRVpr	42	-0.1440	-0.4007	0.1477	0.1377	0.1583	-0.1530	-0.1683	
ReHVp	43	0.1132	-0.2188	0.4175	0.3691	0.4234	-0.1350	0.1195	
ReHVr	44	-0.0379	-0.2716	0.3021	0.2687	0.3118	-0.1648	-0.1289	
ReHVpr	45	0.0473	-0.3053	0.4368	0.3595	0.4327	-0.2132	-0.0078	
ReGVp	46	-0.2948	-0.2560	-0.1560	-0.2767	-0.2326	-0.0958	-0.4304	
ReGVr	47	0.2694	0.1862	-0.0170	-0.2560	-0.1419	0.3836	0.5747	
ReGVpr	48	0.0061	-0.0554	-0.1392	-0.4319	-0.3021	0.2597	0.1764	
ReWSp	49	0.3252	0.3004	0.2543	0.1624	0.2206	0.1758	0.2520	
ReWSr	50	0.6437	0.3511	0.1595	0.0683	0.1220	0.2606	0.5779	
ReWSpr	51	0.4967	0.3493	0.2337	0.1339	0.1952	0.2292	0.4205	
ReWSr_p	52	0.1791	-0.0715	-0.1943	-0.1561	-0.1842	0.0116	0.2156	
		29	30	31	32	33	34	35	
ReVISGpr	36	1.0000							
ReSTVp	37	-0.1189	1.0000						
ReSTVr	38	0.0940	0.3499	1.0000					
ReSTVpr	39	-0.0223	0.7545	0.8140	1.0000				
ReBRVp	40	-0.3621	0.1865	-0.3720	-0.1788	1.0000			
ReBRVr	41	-0.0299	-0.3525	-0.0770	-0.0777	-0.1469	1.0000		
ReBRVpr	42	-0.1864	0.0585	-0.1447	0.0187	0.6180	0.4709	1.0000	
ReHVp	43	0.0054	0.0530	-0.0837	-0.0275	0.3416	0.0019	0.2135	
ReHVr	44	-0.1714	0.0869	-0.1746	-0.0790	0.4833	0.2343	0.7184	
ReHVpr	45	-0.1178	0.0874	-0.1914	-0.0998	0.5494	0.1750	0.6180	
ReGVp	46	-0.3159	0.2277	-0.1357	0.0029	0.4359	0.0261	0.2913	
ReGVr	47	0.5579	0.2121	0.1837	0.3091	-0.2693	0.0929	-0.1118	
ReGVpr	48	0.2378	0.4263	0.0719	0.3428	0.0170	0.1226	0.1431	
ReWSp	49	0.2704	-0.3363	-0.3319	-0.3393	0.0839	0.2812	0.1043	
ReWSr	50	0.5087	-0.1536	-0.3128	-0.2318	0.1558	0.1995	0.1437	
ReWSpr	51	0.4010	-0.2829	-0.3521	-0.3201	0.1234	0.2691	0.1312	
ReWSr_p	52	0.1230	0.3119	0.1522	0.2405	0.0363	-0.1929	-0.0039	
		36	37	38	39	40	41	42	

Table 53 continued (6/6)

ReHVp	43	1.0000							
ReHVr	44	0.1683	1.0000						
ReHVpr	45	0.7310	0.7657	1.0000					
ReGVp	46	-0.2038	0.1777	0.0397	1.0000				
ReGVr	47	-0.0748	-0.2776	-0.2074	-0.2463	1.0000			
ReGVpr	48	-0.2041	-0.0317	-0.0871	0.4253	0.7165	1.0000		
ReWSp	49	0.1064	0.0057	0.0312	0.0223	0.2878	0.1356	1.0000	
ReWSr	50	0.3397	0.0678	0.2176	-0.0995	0.4044	0.2389	0.6854	
ReWSpr	51	0.2205	0.0341	0.1177	-0.0307	0.3655	0.1941	0.9447	
ReWSr_p	52	0.1842	0.0579	0.1687	-0.1272	-0.0028	0.0452	-0.7068	
		43	44	45	46	47	48	49	
ReWSr	50	1.0000							
ReWSpr	51	0.8863	1.0000						
ReWSr_p	52	0.0306	-0.4357	1.0000					
		50	51	52					

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

p = plant crop

r = ratoon crop

pr = (p+r)/2 crop

r_p = (r-p)/2 crop

NMGY = NMGYOT

VISG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

ST = number of stalks

WS = weight per stalk

STV = within plot variance for number of stalks

BRV = within plot variance for BRIX

HV = within plot variance for HARDNESS

GV = within plot variance for visual net merit grade

Table 54. Correlation matrix for means of harvest and selection characters. 24 crosses, 3 crop classes (P, R, PR), trial Te, type Be.

	DF = 22								
BeFIBREp	1	1.0000							
BeFIBREr	2	0.9078	1.0000						
BeFIBRpr	3	0.9751	0.9782	1.0000					
BeTCHp	4	0.1429	0.1878	0.1700	1.0000				
BeTCHr	5	0.2790	0.2203	0.2546	0.5871	1.0000			
BeTCHpr	6	0.2421	0.2302	0.2415	0.8735	0.9069	1.0000		
BeCCSp	7	-0.6029	-0.6757	-0.6558	0.0388	-0.2210	-0.1126	1.0000	
BeCCSr	8	-0.6891	-0.6960	-0.7091	0.0968	-0.2252	-0.0850	0.7998	1.0000
BeCCSpr	9	-0.6808	-0.7230	-0.7193	0.0712	-0.2352	-0.1043	0.9493	
BeTSHp	10	-0.0645	-0.0425	-0.0544	0.9451	0.4696	0.7743	0.3613	
BeTSHr	11	-0.0043	-0.0592	-0.0334	0.6386	0.9154	0.8829	0.0968	
BeTSHpr	12	-0.0390	-0.0563	-0.0491	0.8829	0.7624	0.9180	0.2579	
BeNMGyp	13	-0.2380	-0.2236	-0.2361	0.8618	0.3866	0.6810	0.5341	
BeNMGYr	14	-0.2187	-0.2932	-0.2633	0.5163	0.7011	0.6903	0.3268	
BeNMGYpr	15	-0.2552	-0.2839	-0.2765	0.7847	0.5886	0.7623	0.4899	
BeSEL7p	16	0.2529	0.2280	0.2458	0.8271	0.4240	0.6853	0.1262	
BeSEL7r	17	0.0020	0.0822	0.0444	0.4332	0.4438	0.4924	0.1162	
BeSEL7pr	18	-0.0150	0.0131	-0.0005	0.7124	0.4680	0.6522	0.3699	
BeSEL8p	19	-0.0252	-0.0278	-0.0271	0.7145	0.2828	0.5419	0.3288	
BeSEL8r	20	-0.0705	-0.0240	-0.0476	0.4938	0.4253	0.5128	0.3217	
BeSEL8pr	21	-0.0074	0.0382	0.0165	0.8461	0.5416	0.7660	0.2369	
BeSEL10p	22	0.0459	-0.0125	0.0162	0.7108	0.1895	0.4839	0.2632	
BeSEL10r	23	0.0290	0.0416	0.0363	0.5604	0.5772	0.6389	0.1461	
BeSL10pr	24	0.0579	-0.0497	0.0024	0.6941	0.2871	0.5339	0.2629	
BeSTp	25	0.2512	0.2948	0.2802	0.5669	0.4667	0.5755	-0.3553	
BeSTr	26	0.2559	0.3095	0.2903	0.2971	0.7636	0.6137	-0.4332	
BeSTpr	27	0.2781	0.3325	0.3135	0.4360	0.7188	0.6590	-0.4448	
BeBRIXp	28	-0.3818	-0.3864	-0.3934	0.0984	-0.1632	-0.0470	0.8040	
BeBRIXr	29	-0.1313	-0.1588	-0.1489	-0.1967	-0.0991	-0.1619	0.4223	
BeBRIXpr	30	-0.3035	-0.3249	-0.3220	-0.0802	-0.1585	-0.1371	0.7380	
BeHARDp	31	0.5690	0.6663	0.6340	0.3362	0.0309	0.1935	-0.2144	
BeHARDr	32	0.6293	0.6868	0.6747	0.0402	0.1294	0.0988	-0.4108	
BeHARDpr	33	0.6410	0.7239	0.7001	0.2010	0.0863	0.1565	-0.3344	
BeVISGp	34	0.1212	0.1205	0.1237	0.8624	0.3339	0.6495	0.1953	
BeVISGr	35	0.0726	0.1466	0.1134	0.5671	0.6185	0.6671	0.0649	
BeVISGpr	36	0.1181	0.1637	0.1450	0.8838	0.5969	0.8189	0.1610	
BeSTVp	37	0.1390	0.2434	0.1974	0.1299	0.0283	0.0845	-0.1863	
BeSTVr	38	0.1304	0.1033	0.1191	0.4087	0.4220	0.4664	-0.0218	
BeSTVpr	39	0.1208	0.1400	0.1337	0.2552	0.2174	0.2635	-0.0162	
BeBRVp	40	-0.1245	0.0147	-0.0538	0.0920	-0.1482	-0.0413	-0.2915	
BeBRVr	41	-0.0094	-0.0701	-0.0417	-0.1258	-0.4101	-0.3123	0.0320	
BeBRVpr	42	-0.0008	0.0298	0.0154	-0.0522	-0.3769	-0.2540	-0.2669	
BeHVp	43	0.1160	0.1374	0.1302	0.0334	-0.0504	-0.0128	0.2574	
BeHVr	44	0.0116	0.0753	0.0457	0.1073	-0.0341	0.0355	-0.0425	
BeHVpr	45	0.0755	0.1354	0.1091	0.0033	-0.1078	-0.0630	0.0283	
BeGVp	46	-0.0954	-0.1493	-0.1262	0.0882	-0.1961	-0.0720	0.2393	
BeGVr	47	-0.1351	-0.2537	-0.2010	0.4997	0.2020	0.3815	0.3902	
BeGVpr	48	-0.0983	-0.2222	-0.1662	0.3238	-0.0526	0.1369	0.4084	
BeWSp	49	-0.0658	-0.0443	-0.0560	0.5007	0.1478	0.3495	0.3846	
BeWSr	50	0.0418	-0.0995	-0.0318	0.3623	0.2693	0.3507	0.3216	
BeWSpr	51	-0.0247	-0.0713	-0.0499	0.4793	0.2109	0.3764	0.3869	
BeWSr_p	52	0.1334	-0.0307	0.0499	-0.3731	0.0429	-0.1684	-0.2462	

Table 54 continued (2/6)

BeCCSr	8	1.0000							
BeCCSpr	9	0.9480	1.0000						
BeTSHp	10	0.3548	0.3774	1.0000					
BeTSHr	11	0.1830	0.1472	0.6238	1.0000				
BeTSHpr	12	0.3008	0.2943	0.9061	0.8958	1.0000			
BeNMGyp	13	0.5015	0.5459	0.9782	0.5984	0.8800	1.0000		
BeNMGYr	14	0.4666	0.4177	0.5841	0.8964	0.8173	0.6121	1.0000	
BeNMGYpr	15	0.5405	0.5429	0.8897	0.8160	0.9475	0.9171	0.8766	
BeSEL7p	16	0.1325	0.1362	0.8103	0.4806	0.7208	0.7430	0.4462	
BeSEL7r	17	0.1750	0.1533	0.4390	0.5233	0.5328	0.4257	0.2819	
BeSEL7pr	18	0.3608	0.3851	0.7795	0.6235	0.7806	0.7753	0.5065	
BeSEL8p	19	0.2591	0.3101	0.7730	0.3885	0.6497	0.7646	0.4139	
BeSEL8r	20	0.2921	0.3236	0.5597	0.5530	0.6175	0.5726	0.3782	
BeSEL8pr	21	0.1977	0.2292	0.8587	0.6304	0.8293	0.8308	0.4852	
BeSEL10p	22	0.1463	0.2160	0.7526	0.2541	0.5654	0.7253	0.1772	
BeSEL10r	23	-0.0247	0.0645	0.5589	0.5675	0.6249	0.5414	0.3231	
BeSL10pr	24	0.0842	0.1834	0.7311	0.3195	0.5886	0.7084	0.2029	
BeSTp	25	-0.2806	-0.3355	0.4148	0.3688	0.4354	0.3040	0.2928	
BeSTr	26	-0.3979	-0.4381	0.1347	0.6187	0.4114	0.0450	0.4642	
BeSTpr	27	-0.3905	-0.4405	0.2616	0.5786	0.4618	0.1546	0.4379	
BeBRIXp	28	0.6300	0.7564	0.3480	0.0903	0.2468	0.4768	0.2845	
BeBRIXr	29	0.3857	0.4260	-0.0443	0.0463	-0.0001	0.0336	-0.0080	
BeBRIXpr	30	0.6157	0.7139	0.1635	0.0825	0.1377	0.2888	0.1533	
BeHARDp	31	-0.2945	-0.2680	0.2383	-0.0997	0.0815	0.1297	-0.1848	
BeHARDr	32	-0.3386	-0.3952	-0.1003	-0.0196	-0.0677	-0.2138	-0.1101	
BeHARDpr	33	-0.3392	-0.3550	0.0734	-0.0635	0.0074	-0.0453	-0.1582	
BeVISGp	34	0.1714	0.1932	0.8681	0.4075	0.7140	0.8150	0.3926	
BeVISGr	35	0.1036	0.0887	0.5449	0.6686	0.6717	0.5097	0.4227	
BeVISGpr	36	0.1696	0.1742	0.8735	0.6736	0.8611	0.8194	0.5065	
BeSTVp	37	-0.3523	-0.2832	0.0556	-0.1082	-0.0270	0.0097	-0.3388	
BeSTVr	38	-0.2639	-0.1498	0.3639	0.3149	0.3773	0.3307	0.1033	
BeSTVpr	39	-0.2466	-0.1377	0.2219	0.1160	0.1889	0.1970	-0.0850	
BeBRVp	40	0.0397	-0.1338	0.0138	-0.1084	-0.0509	-0.0319	-0.1704	
BeBRVr	41	-0.0413	-0.0047	-0.1064	-0.4138	-0.2845	-0.0955	-0.3012	
BeBRVpr	42	-0.0853	-0.1863	-0.1243	-0.3914	-0.2825	-0.1629	-0.3466	
BeHVp	43	0.2646	0.2751	0.1211	0.0588	0.1007	0.1340	0.1618	
BeHVr	44	0.1072	0.0336	0.0960	0.0055	0.0576	0.0738	0.0357	
BeHVpr	45	0.1463	0.0916	0.0202	-0.0543	-0.0179	0.0101	0.0286	
BeGVp	46	0.1420	0.2011	0.1646	-0.1343	0.0210	0.1958	-0.1685	
BeGVr	47	0.1610	0.2912	0.5823	0.2596	0.4716	0.6154	0.1514	
BeGVpr	48	0.1337	0.2865	0.4290	-0.0075	0.2399	0.4691	-0.0589	
BeWSp	49	0.3520	0.3883	0.5905	0.2879	0.4916	0.6076	0.2093	
BeWSr	50	0.2275	0.2897	0.4373	0.3476	0.4368	0.4519	0.2386	
BeWSpr	51	0.3255	0.3756	0.5696	0.3353	0.5054	0.5870	0.2377	
BeWSr_p	52	-0.2884	-0.2816	-0.4308	-0.0835	-0.2901	-0.4415	-0.0740	

Table 54 continued (3/6)

BeNMGYpr	15	1.0000							
BeSEL7p	16	0.6771	1.0000						
BeSEL7r	17	0.4011	0.1977	1.0000					
BeSEL7pr	18	0.7271	0.6602	0.7674	1.0000				
BeSEL8p	19	0.6740	0.9007	0.1331	0.6241	1.0000			
BeSEL8r	20	0.5391	0.3117	0.9361	0.8680	0.2640	1.0000		
BeSEL8pr	21	0.7501	0.7496	0.6467	0.8825	0.7164	0.7412	1.0000	
BeSEL10p	22	0.5307	0.7068	0.2172	0.5377	0.7817	0.3003	0.7109	
BeSEL10r	23	0.4924	0.3515	0.7032	0.7098	0.2719	0.7727	0.7583	
BeSL10pr	24	0.5333	0.6550	0.3279	0.5586	0.6754	0.4355	0.7228	
BeSTp	25	0.3325	0.4878	-0.1457	0.1134	0.3495	-0.0953	0.3385	
BeSTr	26	0.2613	0.1456	0.1434	0.0952	0.0119	0.1189	0.2439	
BeSTpr	27	0.3147	0.2972	0.0419	0.1118	0.1510	0.0449	0.3064	
BeBRIXp	28	0.4337	0.2247	0.1596	0.4137	0.3669	0.3323	0.3530	
BeBRIXr	29	0.0165	-0.2075	0.5474	0.3468	-0.2200	0.5000	0.0400	
BeBRIXpr	30	0.2532	-0.0175	0.4647	0.4685	0.0539	0.5285	0.2244	
BeHARDp	31	-0.0143	0.3787	0.1121	0.2026	0.2809	0.1045	0.2324	
BeHARDr	32	-0.1857	0.0552	0.1411	0.0322	-0.1188	0.0215	-0.0708	
BeHARDpr	33	-0.1074	0.2313	0.1367	0.1258	0.0866	0.0684	0.0865	
BeVISGp	34	0.6939	0.9238	0.1585	0.6171	0.9148	0.2806	0.7713	
BeVISGr	35	0.5232	0.3437	0.9380	0.8283	0.2352	0.9314	0.7586	
BeVISGpr	36	0.7540	0.7790	0.6922	0.9003	0.7085	0.7620	0.9504	
BeSTVp	37	-0.1650	0.0585	0.2812	0.1538	-0.0042	0.2698	0.2771	
BeSTVr	38	0.2533	0.3787	0.1924	0.2947	0.3197	0.2183	0.5262	
BeSTVpr	39	0.0770	0.2465	0.2394	0.2450	0.1814	0.2607	0.4425	
BeBRVp	40	-0.1055	-0.1231	0.1465	-0.0417	-0.0852	0.0003	-0.0647	
BeBRVr	41	-0.2099	0.0256	-0.3471	-0.1089	0.0569	-0.2095	-0.0687	
BeBRVpr	42	-0.2739	-0.0691	-0.2161	-0.1402	-0.0128	-0.2395	-0.1247	
BeHVp	43	0.1632	0.1841	0.0271	0.2542	0.2828	0.0671	0.1081	
BeHVr	44	0.0629	0.0740	-0.0834	0.0169	0.1809	-0.1653	-0.0664	
BeHVpr	45	0.0206	0.0962	-0.1509	0.0196	0.2117	-0.2098	-0.0853	
BeGVp	46	0.0342	0.1118	0.2865	0.1781	0.2390	0.2835	0.2476	
BeGVr	47	0.4509	0.5225	0.2848	0.5384	0.5745	0.4029	0.6655	
BeGVpr	48	0.2558	0.3999	0.2172	0.3604	0.5143	0.3196	0.4709	
BeWSp	49	0.4753	0.3887	0.6637	0.6771	0.4134	0.6756	0.5812	
BeWSr	50	0.3953	0.3734	0.4658	0.5451	0.3938	0.4648	0.4207	
BeWSpr	51	0.4771	0.4116	0.6293	0.6722	0.4364	0.6368	0.5566	
BeWSr_p	52	-0.3060	-0.2030	-0.5089	-0.4535	-0.2191	-0.5271	-0.4334	

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Table 54 continued (4/6)

BeSEL10p	22	1.0000						
BeSEL10r	23	0.4050	1.0000					
BeSL10pr	24	0.8920	0.6126	1.0000				
BeSTp	25	0.3473	0.1205	0.2695	1.0000			
BeSTr	26	-0.0986	0.2587	-0.0428	0.6401	1.0000		
BeSTpr	27	0.0743	0.2244	0.0781	0.8450	0.9512	1.0000	
BeBRIXp	28	0.2838	0.1927	0.2494	-0.2001	-0.1871	-0.2108	1.0000
BeBRIXr	29	-0.1112	0.3458	0.0023	-0.5749	-0.3708	-0.4967	0.2877
BeBRIXpr	30	0.0819	0.3441	0.1401	-0.5069	-0.3582	-0.4582	0.7556
BeHARDp	31	0.2770	0.0522	0.1953	0.1496	-0.0989	-0.0041	-0.0927
BeHARDr	32	-0.1272	-0.0374	-0.1618	0.0945	0.0619	0.0771	-0.2910
BeHARDpr	33	0.0798	0.0074	0.0171	0.1285	-0.0198	0.0384	-0.2050
BeVISGp	34	0.8530	0.3305	0.7337	0.5380	0.0940	0.2842	0.2628
BeVISGr	35	0.2695	0.8366	0.4004	0.0659	0.3320	0.2554	0.1265
BeVISGpr	36	0.6914	0.7264	0.6984	0.3623	0.2677	0.3330	0.2426
BeSTVp	37	0.1858	0.3460	0.3131	0.3127	0.2320	0.2843	-0.0267
BeSTVr	38	0.4365	0.5969	0.5292	0.4186	0.4221	0.4604	0.2488
BeSTVpr	39	0.3417	0.5272	0.4652	0.3461	0.3229	0.3597	0.2533
BeBRVp	40	0.0571	-0.2364	-0.0413	0.0785	-0.0785	-0.0245	-0.4836
BeBRVr	41	0.0734	-0.2118	0.0806	-0.0166	-0.1504	-0.1104	0.1752
BeBRVpr	42	0.0925	-0.3190	0.0101	0.0647	-0.1319	-0.0663	-0.1793
BeHVp	43	0.2030	-0.0771	-0.0350	-0.2303	-0.2440	-0.2592	0.2876
BeHVr	44	0.1682	-0.0433	0.0651	-0.1556	-0.2745	-0.2549	-0.1485
BeHVpr	45	0.1216	-0.1547	-0.0873	-0.2331	-0.3025	-0.3035	0.0239
BeGVp	46	0.4955	0.1583	0.5783	-0.2074	-0.2505	-0.2597	0.3075
BeGVr	47	0.6849	0.6754	0.8104	0.0551	-0.1524	-0.0832	0.3884
BeGVpr	48	0.6872	0.4379	0.8431	-0.0930	-0.3105	-0.2546	0.4010
BeWSp	49	0.4255	0.5168	0.4950	-0.4213	-0.3281	-0.3938	0.3122
BeWSr	50	0.4400	0.4770	0.4955	-0.3213	-0.4050	-0.4091	0.0686
BeWSpr	51	0.4638	0.5389	0.5325	-0.4105	-0.3859	-0.4303	0.2318
BeWSr_p	52	-0.1921	-0.2880	-0.2390	0.2988	0.0864	0.1765	-0.3815
		22	23	24	25	26	27	28

Table 54 continued (5/6)

BeBRIXr	29	1.0000						
BeBRIXpr	30	0.8447	1.0000					
BeHARDp	31	-0.1249	-0.1372	1.0000				
BeHARDr	32	0.1296	-0.0747	0.7456	1.0000			
BeHARDpr	33	0.0015	-0.1139	0.9352	0.9333	1.0000		
BeVISGp	34	-0.2758	-0.0428	0.4068	-0.0127	0.2103	1.0000	
BeVISGr	35	0.4410	0.3728	0.1188	0.1355	0.1364	0.2957	1.0000
BeVISGpr	36	0.1037	0.2064	0.3258	0.0718	0.2129	0.7970	0.8118
BeSTVp	37	-0.0013	-0.0166	0.1832	0.1203	0.1615	0.0620	0.2691
BeSTVr	38	-0.0891	0.0777	-0.1152	-0.2728	-0.2083	0.3577	0.3175
BeSTVpr	39	0.0121	0.1490	-0.0030	-0.1070	-0.0601	0.2201	0.3052
BeBRVp	40	-0.0469	-0.3029	-0.0672	0.0027	-0.0355	-0.0224	0.0425
BeBRVr	41	-0.2825	-0.0957	-0.1355	-0.3297	-0.2493	0.0644	-0.3253
BeBRVpr	42	-0.2763	-0.2898	-0.1174	-0.1636	-0.1514	0.0298	-0.2498
BeHVp	43	0.1474	0.2620	0.3857	0.3710	0.4060	0.1857	0.0200
BeHVr	44	0.0994	-0.0152	0.1793	0.2259	0.2163	0.1072	-0.0726
BeHVpr	45	0.0831	0.0704	0.2288	0.2447	0.2536	0.1056	-0.1403
BeGVp	46	0.1356	0.2642	-0.0277	-0.1744	-0.1085	0.1687	0.1310
BeGVr	47	0.1615	0.3273	-0.0725	-0.3576	-0.2306	0.5500	0.3651
BeGVpr	48	0.1110	0.2994	0.0447	-0.2647	-0.1183	0.4357	0.1769
BeWSp	49	0.4017	0.4505	0.2490	-0.0160	0.1264	0.3813	0.5892
BeWSr	50	0.4633	0.3558	0.2011	0.1170	0.1709	0.3151	0.4217
BeWSpr	51	0.4584	0.4442	0.2473	0.0396	0.1549	0.3818	0.5622
BeWSr_p	52	-0.1365	-0.3078	-0.1658	0.1333	-0.0193	-0.2472	-0.4438

29 30 31 32 33 34 35

BeVISGpr	36	1.0000						
BeSTVp	37	0.2022	1.0000					
BeSTVr	38	0.4172	0.5242	1.0000				
BeSTVpr	39	0.3219	0.8008	0.8978	1.0000			
BeBRVp	40	0.0088	0.0422	-0.4269	-0.3494	1.0000		
BeBRVr	41	-0.1653	0.0598	-0.0466	-0.0438	0.0651	1.0000	
BeBRVpr	42	-0.1419	0.0036	-0.2499	-0.2419	0.6054	0.7723	1.0000
BeHVp	43	0.1306	-0.3941	-0.3451	-0.3573	-0.0745	-0.0905	-0.0524
BeHVr	44	0.0177	-0.4255	-0.2511	-0.3548	0.2369	-0.2372	0.1002
BeHVpr	45	-0.0227	-0.5526	-0.2755	-0.3982	0.0479	-0.2044	0.0325
BeGVp	46	0.1848	0.3941	0.2026	0.3578	0.1680	0.2113	0.2171
BeGVr	47	0.5661	0.2099	0.6435	0.5140	-0.3031	0.1408	-0.0845
BeGVpr	48	0.3762	0.3755	0.4710	0.5092	-0.1714	0.2009	0.0103
BeWSp	49	0.6119	-0.1231	0.0276	-0.0431	0.0277	-0.1134	-0.1090
BeWSr	50	0.4608	-0.2224	0.0218	-0.0940	-0.0914	-0.3693	-0.3409
BeWSpr	51	0.5935	-0.1749	0.0272	-0.0682	-0.0214	-0.2312	-0.2164
BeWSr_p	52	-0.4393	-0.0341	-0.0186	-0.0270	-0.1254	-0.1868	-0.1658

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Table 54 continued (6/6)

BeHVp	43	1.0000							
BeHVr	44	0.5318	1.0000						
BeHVpr	45	0.7554	0.9034	1.0000					
BeGVp	46	-0.0551	-0.0371	-0.1521	1.0000				
BeGVr	47	-0.1050	0.0265	-0.0687	0.3882	1.0000			
BeGVpr	48	-0.0875	-0.0095	-0.1332	0.7929	0.8057	1.0000		
BeWSp	49	0.2718	0.2852	0.2431	0.3625	0.4922	0.4785	1.0000	
BeWSr	50	0.3238	0.3951	0.3295	0.1890	0.5441	0.4514	0.7162	
BeWSpr	51	0.3148	0.3537	0.2985	0.3156	0.5518	0.5031	0.9543	
BeWSr_p	52	-0.0833	-0.0343	-0.0363	-0.3391	-0.1894	-0.2572	-0.7526	
		43	44	45	46	47	48	49	
BeWSr	50	1.0000							
BeWSpr	51	0.8920	1.0000						
BeWSr_p	52	-0.0795	-0.5215	1.0000					
		50	51	52					

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

Ra = random

p = plant crop

r = ratoon crop

pr = (p+r)/2 crop

r_p = (r-p)/2 crop

NMGY = NMGYOT

VISG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

ST = number of stalks

WS = weight per stalk

STV = within plot variance for number of stalks

BRV = within plot variance for BRIX

HV = within plot variance for HARDNESS

GV = within plot variance for visual net merit grade

Table 55. Correlation matrix for means of harvest and selection characters. 24 crosses, 3 crops classes (P, R, PR), trial Te, type Se.

DF = 22

SeFIBREp	1	1.0000						
SeFIBREr	2	0.7235	1.0000					
SeFIBRpr	3	0.9116	0.9433	1.0000				
SeTCHp	4	0.3781	0.2988	0.3596	1.0000			
SeTCHr	5	0.2992	0.2226	0.2762	0.6331	1.0000		
SeTCHpr	6	0.3628	0.2773	0.3394	0.8523	0.9444	1.0000	
SeCCSp	7	-0.2222	-0.3913	-0.3399	-0.0844	-0.2164	-0.1821	1.0000
SeCCSr	8	-0.1189	-0.3630	-0.2733	-0.0267	-0.0658	-0.0558	0.8478
SeCCSpr	9	-0.1733	-0.3913	-0.3164	-0.0556	-0.1410	-0.1189	0.9550
SeTSHp	10	0.2748	0.1312	0.2101	0.9262	0.5373	0.7563	0.2946
SeTSHr	11	0.2518	0.0959	0.1779	0.6141	0.9454	0.8995	0.0689
SeTSHpr	12	0.2881	0.1214	0.2106	0.8150	0.8642	0.9299	0.1752
SeNMGYp	13	0.1073	-0.0352	0.0305	0.8136	0.4359	0.6399	0.4995
SeNMGYr	14	0.1388	-0.1069	0.0029	0.4990	0.7898	0.7455	0.2797
SeNMGYpr	15	0.1389	-0.0832	0.0171	0.7133	0.7030	0.7779	0.4216
SeSEL7p	16	0.3108	0.1054	0.2122	0.6053	0.4023	0.5288	0.2111
SeSEL7r	17	0.3763	0.2866	0.3514	0.5222	0.7785	0.7476	0.0885
SeSEL7pr	18	0.3256	0.1641	0.2541	0.6055	0.6844	0.7195	0.2477
SeSEL8p	19	0.3342	0.0118	0.1677	0.5243	0.4266	0.5109	0.2687
SeSEL8r	20	0.2803	0.2568	0.2874	0.5485	0.8143	0.7830	0.0706
SeSEL8pr	21	0.2300	0.1293	0.1874	0.6055	0.5826	0.6506	0.2691
SeSEL10p	22	0.1637	-0.1511	-0.0111	0.4196	0.2331	0.3357	-0.0542
SeSEL10r	23	0.0933	0.0479	0.0731	0.4936	0.6120	0.6229	0.0712
SeSL10pr	24	0.1838	-0.0667	0.0486	0.5740	0.5748	0.6320	0.1528
SeSTp	25	0.2896	0.2109	0.2648	0.4392	0.2937	0.3851	-0.2278
SeSTr	26	0.1751	0.2941	0.2591	0.4646	0.7295	0.6902	-0.3030
SeSTpr	27	0.2350	0.2951	0.2885	0.5050	0.6496	0.6534	-0.3076
SeBRIXp	28	0.1075	-0.0354	0.0305	-0.0850	-0.1340	-0.1267	0.7363
SeBRIXr	29	0.2810	0.1663	0.2341	-0.0866	-0.0866	-0.0953	0.6770
SeBRIXpr	30	0.2342	0.0904	0.1663	-0.0938	-0.1178	-0.1194	0.7928
SeHARDp	31	0.6592	0.5585	0.6495	0.1446	0.0034	0.0637	-0.0346
SeHARDr	32	0.7331	0.7697	0.8108	0.2086	0.0652	0.1327	-0.0902
SeHARDpr	33	0.7512	0.7167	0.7879	0.1932	0.0412	0.1098	-0.0695
SeVISGp	34	0.2568	0.0646	0.1619	0.6177	0.4692	0.5793	0.1988
SeVISGr	35	0.3598	0.3340	0.3717	0.5768	0.7755	0.7688	0.1250
SeVISGpr	36	0.3593	0.2544	0.3241	0.6726	0.7417	0.7866	0.1786
SeSTVp	37	-0.0809	-0.2082	-0.1628	0.1314	0.2524	0.2263	0.1769
SeSTVr	38	0.0353	0.2533	0.1676	0.0785	0.5454	0.4018	-0.2681
SeSTVpr	39	0.0141	0.0643	0.0450	0.1134	0.4628	0.3608	-0.0430
SeBRVp	40	-0.0992	0.1206	0.0241	0.1859	0.0441	0.1087	-0.1885
SeBRVr	41	-0.2886	-0.3077	-0.3218	-0.3075	-0.3571	-0.3719	-0.0692
SeBRVpr	42	-0.1148	-0.0279	-0.0717	0.0829	-0.1326	-0.0544	-0.2374
SeHVp	43	0.2770	0.4709	0.4136	-0.2330	-0.2470	-0.2658	-0.0172
SeHVr	44	0.2308	0.3338	0.3098	-0.1895	-0.2232	-0.2313	-0.0566
SeHVpr	45	0.1647	0.4073	0.3218	-0.2929	-0.4075	-0.3997	-0.0663
SeGVp	46	-0.2398	-0.3683	-0.3345	0.0070	0.0343	0.0261	0.0125
SeGVr	47	0.0071	-0.0100	-0.0025	0.3685	0.2732	0.3409	-0.0993
SeGVpr	48	-0.0154	-0.1498	-0.0965	0.2432	0.1589	0.2105	-0.0424
SeWSp	49	0.1199	0.1236	0.1312	0.5653	0.3397	0.4694	0.1314
SeWSr	50	0.1804	-0.0763	0.0413	0.2163	0.3839	0.3512	0.1119
SeWSpr	51	0.1654	0.0364	0.1012	0.4549	0.4034	0.4656	0.1368
SeWSr_p	52	0.0370	-0.2224	-0.1145	-0.4536	-0.0207	-0.2065	-0.0434

Table 55 continued (2/6)

SeCCSr	8	1.0000						
SeCCSpr	9	0.9669	1.0000					
SeTSHp	10	0.2902	0.3038	1.0000				
SeTSHr	11	0.2598	0.1783	0.6260	1.0000			
SeTSHpr	12	0.3002	0.2520	0.8554	0.9394	1.0000		
SeNMGYp	13	0.4591	0.4968	0.9694	0.5822	0.8129	1.0000	
SeNMGYr	14	0.5126	0.4210	0.5951	0.9307	0.8798	0.6071	1.0000
SeNMGYpr	15	0.5442	0.5069	0.8502	0.8627	0.9468	0.8729	0.9176
SeSEL7p	16	0.3040	0.2716	0.6592	0.4870	0.6134	0.6250	0.5076
SeSEL7r	17	0.1413	0.1215	0.5401	0.7897	0.7620	0.4912	0.6322
SeSEL7pr	18	0.3212	0.2987	0.6793	0.7631	0.8056	0.6570	0.6859
SeSEL8p	19	0.4541	0.3832	0.6034	0.5568	0.6352	0.5852	0.6183
SeSEL8r	20	0.1186	0.1002	0.5619	0.8212	0.7925	0.5171	0.6465
SeSEL8pr	21	0.3591	0.3301	0.6875	0.6814	0.7548	0.6749	0.6325
SeSEL10p	22	0.2616	0.1204	0.3798	0.3130	0.3749	0.3316	0.3706
SeSEL10r	23	0.1270	0.1051	0.5036	0.6381	0.6452	0.4828	0.5092
SeSL10pr	24	0.3825	0.2873	0.6113	0.6806	0.7208	0.5958	0.6527
SeSTp	25	-0.1852	-0.2133	0.3305	0.2215	0.2925	0.2323	0.2195
SeSTr	26	-0.2900	-0.3081	0.3392	0.6023	0.5492	0.2410	0.4831
SeSTpr	27	-0.2827	-0.3063	0.3725	0.5289	0.5150	0.2639	0.4395
SeBRIXp	28	0.6148	0.6980	0.1959	0.0730	0.1346	0.3147	0.2722
SeBRIXr	29	0.5850	0.6527	0.1719	0.1053	0.1455	0.2697	0.1256
SeBRIXpr	30	0.6753	0.7590	0.2088	0.1064	0.1625	0.3290	0.2185
SeHARDp	31	-0.0547	-0.0472	0.1141	-0.0158	0.0397	0.0232	-0.0674
SeHARDr	32	-0.0461	-0.0692	0.1499	0.0357	0.0897	0.0416	-0.0598
SeHARDpr	33	-0.0553	-0.0643	0.1444	0.0146	0.0733	0.0364	-0.0654
SeVISGp	34	0.3559	0.2946	0.6662	0.5672	0.6697	0.6371	0.6184
SeVISGr	35	0.1744	0.1575	0.6053	0.8017	0.7986	0.5620	0.6309
SeVISGpr	36	0.2821	0.2435	0.7151	0.8044	0.8487	0.6733	0.7111
SeSTVp	37	0.2562	0.2283	0.2058	0.3294	0.3093	0.2505	0.3614
SeSTVr	38	-0.2571	-0.2729	-0.0111	0.4373	0.2856	-0.0617	0.2984
SeSTVpr	39	0.0129	-0.0136	0.1053	0.4481	0.3440	0.1017	0.3946
SeBRVp	40	-0.1363	-0.1668	0.1065	0.0105	0.0537	0.0723	-0.1187
SeBRVr	41	-0.1540	-0.1193	-0.3192	-0.3931	-0.4015	-0.2768	-0.3198
SeBRVpr	42	-0.2213	-0.2379	-0.0113	-0.1899	-0.1312	-0.0441	-0.2572
SeHVp	43	-0.0243	-0.0218	-0.2339	-0.2402	-0.2624	-0.2536	-0.3534
SeHVr	44	-0.1975	-0.1378	-0.1999	-0.2618	-0.2618	-0.2271	-0.3505
SeHVpr	45	-0.1728	-0.1285	-0.3115	-0.4420	-0.4305	-0.3242	-0.5726
SeGVp	46	0.2410	0.1408	0.0123	0.1159	0.0824	0.0509	0.0942
SeGVr	47	0.0328	-0.0295	0.3193	0.2901	0.3330	0.2878	0.1981
SeGVpr	48	0.2014	0.0923	0.2151	0.2316	0.2484	0.2065	0.1976
SeWSp	49	0.1306	0.1362	0.5953	0.3840	0.5167	0.5746	0.2647
SeWSr	50	0.2881	0.2151	0.2545	0.4742	0.4268	0.2487	0.4109
SeWSpr	51	0.2267	0.1926	0.4925	0.4765	0.5330	0.4769	0.3714
SeWSr_p	52	0.1322	0.0532	-0.4508	0.0167	-0.1870	-0.4318	0.0951

Table 55 continued (3/6)

SeNMGYpr	15	1.0000						
SeSEL7p	16	0.6242	1.0000					
SeSEL7r	17	0.6339	0.6031	1.0000				
SeSEL7pr	18	0.7497	0.8030	0.9220	1.0000			
SeSEL8p	19	0.6722	0.8901	0.5996	0.7865	1.0000		
SeSEL8r	20	0.6557	0.5452	0.9345	0.8713	0.5009	1.0000	
SeSEL8pr	21	0.7259	0.8255	0.7217	0.8408	0.7336	0.7777	1.0000
SeSEL10p	22	0.3933	0.5333	0.1911	0.3413	0.6508	0.1441	0.4461
SeSEL10r	23	0.5542	0.3166	0.5901	0.5835	0.2112	0.7305	0.5364
SeSL10pr	24	0.6987	0.4611	0.6062	0.6282	0.5763	0.5960	0.5547
SeSTp	25	0.2511	0.1472	0.0960	0.1390	0.1960	0.0467	-0.0164
SeSTr	26	0.4172	0.1870	0.5668	0.4418	0.1352	0.5589	0.2100
SeSTpr	27	0.4019	0.1924	0.4571	0.3796	0.1715	0.4333	0.1504
SeBRIXp	28	0.3245	0.3394	0.1137	0.2763	0.3848	0.0506	0.2359
SeBRIXr	29	0.2120	0.2285	0.4033	0.4144	0.3031	0.3208	0.3405
SeBRIXpr	30	0.2987	0.3173	0.3140	0.4025	0.3857	0.2302	0.3348
SeHARDp	31	-0.0298	0.2770	0.1331	0.1596	0.1946	0.0997	0.2824
SeHARDr	32	-0.0159	0.3790	0.3621	0.3328	0.3208	0.2451	0.2598
SeHARDpr	33	-0.0220	0.3551	0.2701	0.2681	0.2783	0.1891	0.2938
SeVISGp	34	0.6982	0.9260	0.5709	0.7602	0.9397	0.5107	0.7407
SeVISGr	35	0.6685	0.5827	0.9651	0.9102	0.5357	0.9634	0.7669
SeVISGpr	36	0.7734	0.8161	0.9177	0.9661	0.7913	0.8898	0.8597
SeSTVp	37	0.3471	0.1230	0.2851	0.3082	0.2482	0.2476	0.1760
SeSTVr	38	0.1525	-0.0860	0.4351	0.3007	-0.0509	0.4973	0.1455
SeSTVpr	39	0.2932	-0.0333	0.3790	0.3074	0.0653	0.4127	0.1352
SeBRVp	40	-0.0367	-0.0824	-0.0759	-0.0636	-0.1554	0.0639	0.1972
SeBRVr	41	-0.3347	-0.5114	-0.5700	-0.5973	-0.4164	-0.5208	-0.4138
SeBRVpr	42	-0.1799	-0.2266	-0.3309	-0.2794	-0.2224	-0.2064	-0.0114
SeHVp	43	-0.3438	-0.1005	-0.0070	-0.0373	-0.1044	-0.0184	0.0129
SeHVr	44	-0.3288	-0.4389	-0.2163	-0.3285	-0.5557	-0.2634	-0.3008
SeHVpr	45	-0.5137	-0.4077	-0.2075	-0.3108	-0.4989	-0.2084	-0.2290
SeGVp	46	0.0833	0.0487	0.0661	0.1118	0.1649	0.1077	0.2628
SeGVr	47	0.2656	0.0610	0.1560	0.1418	-0.0266	0.2809	0.3746
SeGVpr	48	0.2245	0.0924	0.1043	0.1381	0.1237	0.1633	0.3105
SeWSp	49	0.4498	0.4600	0.4276	0.4658	0.3393	0.4887	0.6053
SeWSr	50	0.3767	0.2786	0.3202	0.3409	0.3930	0.3844	0.5079
SeWSpr	51	0.4665	0.4224	0.4241	0.4579	0.4075	0.4943	0.6284
SeWSr_p	52	-0.1575	-0.2667	-0.1874	-0.2119	-0.0106	-0.1960	-0.2111

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Table 55 continued (4/6)

SeSEL10p	22	1.0000						
SeSEL10r	23	-0.0598	1.0000					
SeSL10pr	24	0.3921	0.6148	1.0000				
SeSTp	25	0.0887	0.0140	0.0827	1.0000			
SeSTr	26	-0.1465	0.4184	0.2042	0.5816	1.0000		
SeSTpr	27	-0.0775	0.3170	0.1822	0.7951	0.9558	1.0000	
SeBRIXp	28	-0.1583	0.0136	0.0309	-0.0883	-0.0867	-0.0961	1.0000
SeBRIXr	29	-0.0986	0.1119	0.1627	-0.3180	-0.2482	-0.2998	0.5591
SeBRIXpr	30	-0.1400	0.0787	0.1185	-0.2424	-0.1953	-0.2329	0.8526
SeHARDp	31	-0.0990	0.1022	0.0587	0.0435	-0.0518	-0.0229	0.3051
SeHARDr	32	-0.0754	0.0005	0.0944	0.1193	0.1007	0.1181	0.2065
SeHARDpr	33	-0.0916	0.0570	0.0831	0.0887	0.0305	0.0547	0.2724
SeVISGp	34	0.6318	0.2150	0.4885	0.2169	0.2423	0.2588	0.3358
SeVISGr	35	0.1314	0.6916	0.6240	0.0354	0.5095	0.3924	0.0983
SeVISGpr	36	0.3741	0.5715	0.6494	0.1211	0.4561	0.3836	0.2215
SeSTVp	37	0.2528	-0.0366	0.2778	0.1955	0.1549	0.1861	0.0011
SeSTVr	38	-0.2313	0.2033	0.0339	0.2068	0.6677	0.5726	-0.0780
SeSTVpr	39	-0.0381	0.1054	0.1754	0.2596	0.4751	0.4480	-0.0208
SeBRVp	40	0.2192	0.0901	0.0796	0.0042	-0.2171	-0.1609	-0.4529
SeBRVr	41	-0.1881	-0.2372	-0.0988	-0.0522	-0.3518	-0.2811	-0.1286
SeBRVpr	42	0.1341	-0.0769	0.0190	0.1548	-0.3053	-0.1719	-0.4461
SeHVp	43	-0.1223	-0.0625	-0.3003	-0.1593	-0.3188	-0.2956	-0.0212
SeHVr	44	-0.3866	-0.1274	-0.3068	-0.2769	-0.2338	-0.2743	-0.0836
SeHVpr	45	-0.2977	-0.1169	-0.4220	-0.3275	-0.3840	-0.4048	-0.2084
SeGVp	46	0.5306	0.1018	0.4619	-0.2923	-0.4244	-0.4223	-0.3565
SeGVr	47	0.2145	0.5947	0.4929	-0.1591	-0.0025	-0.0595	-0.2172
SeGVpr	48	0.4217	0.4426	0.5977	-0.1718	-0.2165	-0.2236	-0.2106
SeWSp	49	0.3103	0.4526	0.4733	-0.4879	-0.0973	-0.2492	0.0068
SeWSr	50	0.4859	0.2700	0.5062	-0.3961	-0.3470	-0.4025	-0.0730
SeWSpr	51	0.4377	0.4137	0.5472	-0.4999	-0.2368	-0.3577	-0.0337
SeWSr_p	52	0.1155	-0.2669	-0.0569	0.1834	-0.2297	-0.1053	-0.0799
		22	23	24	25	26	27	28

Table 55 continued (5/6)

SeBRIXr	29	1.0000						
SeBRIXpr	30	0.9099	1.0000					
SeHARDp	31	0.2485	0.3098	1.0000				
SeHARDr	32	0.3856	0.3479	0.7326	1.0000			
SeHARDpr	33	0.3421	0.3531	0.9299	0.9315	1.0000		
SeVISGp	34	0.1458	0.2629	0.1144	0.2974	0.2232	1.0000	
SeVISGr	35	0.4286	0.3221	0.1677	0.3739	0.2950	0.5312	1.0000
SeVISGpr	36	0.3587	0.3401	0.1668	0.3890	0.3021	0.8150	0.9238
SeSTVp	37	0.2302	0.1485	-0.4078	-0.2625	-0.3553	0.1818	0.2549
SeSTVr	38	-0.0578	-0.0727	-0.0804	-0.0008	-0.0405	-0.0219	0.4201
SeSTVpr	39	0.0841	0.0455	-0.2392	-0.1175	-0.1878	0.0622	0.3759
SeBRVp	40	-0.0915	-0.2846	-0.0463	-0.1954	-0.1281	-0.1859	0.0364
SeBRVr	41	-0.3394	-0.2842	0.0489	-0.3204	-0.1531	-0.4709	-0.5559
SeBRVpr	42	-0.2665	-0.3940	0.0781	-0.2096	-0.0727	-0.3018	-0.2389
SeHVp	43	0.5200	0.3176	0.2381	0.3362	0.3110	-0.2066	0.0516
SeHVr	44	0.1555	0.0567	0.2885	0.1578	0.2415	-0.5807	-0.1469
SeHVpr	45	0.3692	0.1278	0.2180	0.2265	0.2405	-0.5578	-0.1212
SeGVp	46	0.0310	-0.1616	-0.2221	-0.2842	-0.2729	0.0458	0.0912
SeGVr	47	-0.0833	-0.1614	0.1283	-0.1831	-0.0288	-0.0436	0.2433
SeGVpr	48	-0.0406	-0.1324	0.0692	-0.1742	-0.0570	0.0408	0.1570
SeWSp	49	0.2401	0.1560	0.1255	0.1214	0.1349	0.4025	0.5357
SeWSr	50	0.2439	0.1160	0.0790	-0.0205	0.0314	0.2967	0.3918
SeWSpr	51	0.2706	0.1539	0.1170	0.0635	0.0984	0.3968	0.5266
SeWSr_p	52	-0.0409	-0.0684	-0.0705	-0.1643	-0.1288	-0.1810	-0.2441

29 30 31 32 33 34 35

SeVISGpr	36	1.0000						
SeSTVp	37	0.2533	1.0000					
SeSTVr	38	0.2763	0.4509	1.0000				
SeSTVpr	39	0.2834	0.8178	0.8466	1.0000			
SeBRVp	40	-0.0603	0.2081	0.0022	0.0855	1.0000		
SeBRVr	41	-0.5873	-0.2361	-0.2595	-0.2239	0.1014	1.0000	
SeBRVpr	42	-0.2983	0.1175	-0.0740	0.0239	0.8361	0.5267	1.0000
SeHVp	43	-0.0612	-0.0635	-0.0963	-0.1214	0.3516	-0.1659	0.1890
SeHVr	44	-0.3655	-0.3025	-0.1293	-0.2414	0.1604	0.0768	0.0937
SeHVpr	45	-0.3377	-0.2505	-0.1888	-0.2672	0.3557	0.0234	0.2353
SeGVp	46	0.0849	0.3718	-0.0716	0.1282	0.5151	0.1511	0.4851
SeGVr	47	0.1477	-0.0096	-0.0092	-0.0293	0.4498	0.2012	0.3797
SeGVpr	48	0.1276	0.0818	-0.1585	-0.0583	0.4296	0.2353	0.4046
SeWSp	49	0.5482	-0.0587	-0.1350	-0.1470	0.1953	-0.2405	-0.0424
SeWSr	50	0.4038	0.1304	-0.1402	-0.0011	0.3577	-0.0057	0.2369
SeWSpr	51	0.5403	0.0308	-0.1536	-0.0899	0.3020	-0.1493	0.0954
SeWSr_p	52	-0.2469	0.1994	0.0197	0.1725	0.1242	0.2788	0.2852

36 37 38 39 40 41 42

Table 55 continued (6/6)

SeHVp	43	1.0000							
SeHvr	44	0.3543	1.0000						
SeHVpr	45	0.8242	0.7088	1.0000					
SeGVp	46	0.0474	-0.1306	0.0092	1.0000				
SeGvr	47	0.0007	0.1400	0.1324	0.5220	1.0000			
SeGVpr	48	0.0185	0.0336	0.0609	0.7590	0.8977	1.0000		
SeWSp	49	-0.0284	0.0890	0.0507	0.2614	0.4826	0.3763	1.0000	
SeWSr	50	0.1082	-0.0092	-0.0268	0.6068	0.3480	0.4769	0.5891	
SeWSpr	51	0.0380	0.0498	0.0172	0.4699	0.4721	0.4734	0.9104	
SeWSr_p	52	0.1413	-0.1151	-0.0866	0.2931	-0.2252	0.0282	-0.5971	
		43	44	45	46	47	48	49	
SeWSr	50	1.0000							
SeWSpr	51	0.8706	1.0000						
SeWSr_p	52	0.2964	-0.2119	1.0000					
		50	51	52					

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

Ra = random

p = plant crop

r = ratoon crop

pr = (p+r)/2 crop

r_p = (r-p)/2 crop

NMGY = NMGYOT

VISG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

ST = number of stalks

WS = weight per stalk

STV = within plot variance for number of stalks

BRV = within plot variance for BRIX

HV = within plot variance for HARDNESS

GV = within plot variance for visual net merit grade

Table 56. Correlation matrix for means, trial Te harvest data. P, R and PR crops for Re, Be and Se (= S) types.

	1	2	3	4	5	6	7	
ReFIBRpr	1	1.0000						
BeFIBRpr	2	0.8660	1.0000					
SFIBREpr	3	0.8637	0.8692	1.0000				
ReFIBREp	4	0.9514	0.8863	0.8533	1.0000			
BeFIBREp	5	0.8591	0.9751	0.8488	0.8908	1.0000		
SFIBREp	6	0.7563	0.7922	0.9116	0.7648	0.7970	1.0000	
ReFIBREr	7	0.9612	0.7764	0.8020	0.8296	0.7600	0.6864	1.0000
BeFIBREr	8	0.8333	0.9782	0.8492	0.8421	0.9078	0.7519	0.7567
SFIBREr	9	0.8398	0.8201	0.9433	0.8154	0.7818	0.7235	0.7927
ReTCHpr	10	0.5325	0.4043	0.4391	0.4400	0.3638	0.3594	0.5714
BeTCHpr	11	0.2792	0.2415	0.1950	0.2201	0.2421	0.1889	0.3090
STCHpr	12	0.5002	0.4613	0.3394	0.5087	0.4435	0.3628	0.4513
ReTCHp	13	0.3918	0.3253	0.3139	0.3343	0.3041	0.2285	0.4110
BeTCHp	14	0.1734	0.1700	0.1141	0.1696	0.1429	0.1229	0.1623
STCHp	15	0.4472	0.5413	0.3596	0.5106	0.5270	0.3781	0.3534
ReTCHr	16	0.5591	0.4042	0.4678	0.4542	0.3554	0.4036	0.6069
BeTCHr	17	0.3143	0.2546	0.2254	0.2193	0.2790	0.2076	0.3733
STCHr	18	0.4593	0.3425	0.2762	0.4319	0.3250	0.2992	0.4458
ReCCSpr	19	-0.5291	-0.5228	-0.4863	-0.4373	-0.4842	-0.3492	-0.5679
BeCCSpr	20	-0.7274	-0.7193	-0.6744	-0.6696	-0.6808	-0.4948	-0.7194
SCCSpr	21	-0.4657	-0.4805	-0.3164	-0.4128	-0.4564	-0.1733	-0.4748
ReCCSp	22	-0.5109	-0.5265	-0.4673	-0.4165	-0.4773	-0.3397	-0.5535
BeCCSp	23	-0.7436	-0.6558	-0.6453	-0.6494	-0.6029	-0.4129	-0.7669
SCCSp	24	-0.4967	-0.5202	-0.3399	-0.4314	-0.5240	-0.2222	-0.5145
ReCCSr	25	-0.5076	-0.4725	-0.4695	-0.4273	-0.4515	-0.3318	-0.5379
BeCCSr	26	-0.6357	-0.7091	-0.6341	-0.6207	-0.6891	-0.5265	-0.5969
SCCSr	27	-0.4053	-0.4118	-0.2733	-0.3670	-0.3654	-0.1189	-0.4063
ReTSHpr	28	0.3333	0.2155	0.2570	0.2762	0.1917	0.2274	0.3569
BeTSHpr	29	-0.0130	-0.0491	-0.0800	-0.0443	-0.0390	-0.0190	0.0160
STSHpr	30	0.3183	0.2723	0.2106	0.3514	0.2683	0.2881	0.2623
ReTSHp	31	0.1610	0.0987	0.1085	0.1442	0.0997	0.0780	0.1627
BeTSHp	32	-0.0799	-0.0544	-0.1062	-0.0501	-0.0645	-0.0235	-0.1002
STSHp	33	0.2439	0.3202	0.2101	0.3312	0.3067	0.2748	0.1455
ReTSHr	34	0.4277	0.2812	0.3434	0.3449	0.2396	0.3195	0.4664
BeTSHr	35	0.0601	-0.0334	-0.0363	-0.0292	-0.0043	-0.0104	0.1349
STSHr	36	0.3177	0.1980	0.1779	0.3098	0.2008	0.2518	0.2985
ReNMGYpr	37	0.0927	0.0139	0.0388	0.0680	0.0064	0.0576	0.1069
BeNMGYpr	38	-0.2635	-0.2765	-0.3182	-0.2719	-0.2552	-0.2359	-0.2346
SNMGYpr	39	0.0947	0.0823	0.0171	0.1519	0.0903	0.1389	0.0353
ReNMGYp	40	-0.0408	-0.0924	-0.0688	-0.0425	-0.0852	-0.0671	-0.0360
BeNMGYp	41	-0.2613	-0.2361	-0.2690	-0.2253	-0.2380	-0.1548	-0.2722
SNMGYp	42	0.0496	0.1110	0.0305	0.1438	0.0979	0.1073	-0.0390
ReNMGYr	43	0.2342	0.1384	0.1599	0.1869	0.1149	0.1954	0.2570
BeNMGYr	44	-0.2071	-0.2633	-0.3064	-0.2673	-0.2187	-0.2811	-0.1365
SNMGYr	45	0.1138	0.0437	0.0029	0.1303	0.0674	0.1388	0.0893

DF = 22

Table 56 continued (2/5)

BeFIBREr	8	1.0000						
SFIBREr	9	0.8191	1.0000					
ReTCHpr	10	0.4240	0.4475	1.0000				
BeTCHpr	11	0.2302	0.1753	0.6588	1.0000			
STCHpr	12	0.4572	0.2773	0.7393	0.7024	1.0000		
ReTCHp	13	0.3303	0.3427	0.8853	0.5485	0.5586	1.0000	
BeTCHp	14	0.1878	0.0926	0.5200	0.8735	0.5420	0.5258	1.0000
STCHp	15	0.5303	0.2988	0.5958	0.5712	0.8523	0.5212	0.5536
ReTCHr	16	0.4317	0.4600	0.9406	0.6451	0.7654	0.6750	0.4413
BeTCHr	17	0.2203	0.2114	0.6454	0.9069	0.6990	0.4569	0.5871
STCHr	18	0.3433	0.2226	0.7198	0.6806	0.9444	0.4992	0.4542
ReCCSpr	19	-0.5356	-0.5345	0.0537	0.1182	0.0309	0.1438	0.1916
BeCCSpr	20	-0.7230	-0.7329	-0.2391	-0.1043	-0.2257	-0.1369	0.0712
SCCSpr	21	-0.4815	-0.3913	0.0614	-0.0823	-0.1189	0.0829	0.0153
ReCCSp	22	-0.5489	-0.5104	0.0903	0.1337	0.0187	0.1920	0.2182
BeCCSp	23	-0.6757	-0.7502	-0.3145	-0.1126	-0.1783	-0.2055	0.0388
SCCSp	24	-0.4931	-0.3913	-0.0676	-0.1813	-0.1821	-0.0769	-0.0337
ReCCSr	25	-0.4709	-0.5204	-0.0007	0.0867	0.0442	0.0655	0.1387
BeCCSr	26	-0.6960	-0.6396	-0.1381	-0.0850	-0.2504	-0.0532	0.0968
SCCSr	27	-0.4369	-0.3630	0.1683	0.0091	-0.0558	0.2145	0.0566
ReTSHpr	28	0.2281	0.2483	0.9477	0.6561	0.6995	0.8738	0.5567
BeTSHpr	29	-0.0563	-0.1186	0.5467	0.9180	0.5831	0.4818	0.8829
STSHpr	30	0.2637	0.1214	0.7368	0.6507	0.9299	0.5717	0.5379
ReTSHp	31	0.0932	0.1194	0.7983	0.5306	0.4911	0.9374	0.5415
BeTSHp	32	-0.0425	-0.1590	0.3893	0.7743	0.4470	0.4285	0.9451
STSHp	33	0.3184	0.1312	0.5468	0.4783	0.7563	0.4655	0.5150
ReTSHr	34	0.3074	0.3190	0.9170	0.6541	0.7629	0.6689	0.4749
BeTSHr	35	-0.0592	-0.0521	0.6012	0.8829	0.6080	0.4401	0.6386
STSHr	36	0.1863	0.0959	0.7472	0.6631	0.8995	0.5525	0.4689
ReNMGYpr	37	0.0201	0.0189	0.8125	0.6277	0.5859	0.8072	0.5843
BeNMGYpr	38	-0.2839	-0.3434	0.3330	0.7623	0.3993	0.3132	0.7847
SNMGYpr	39	0.0710	-0.0832	0.6035	0.5346	0.7779	0.4753	0.4598
ReNMGYp	40	-0.0951	-0.0613	0.6890	0.4687	0.3934	0.8435	0.5004
BeNMGYp	41	-0.2236	-0.3265	0.2820	0.6810	0.3493	0.3393	0.8618
SNMGYp	42	0.1183	-0.0352	0.4663	0.3894	0.6399	0.4006	0.4552
ReNMGYr	43	0.1541	0.1111	0.8018	0.6955	0.7019	0.6065	0.5709
BeNMGYr	44	-0.2932	-0.2871	0.3203	0.6903	0.3706	0.2119	0.5163
SNMGYr	45	0.0192	-0.1069	0.6032	0.5533	0.7455	0.4479	0.3781

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Table 56 continued (3/5)

STCHp	15	1.0000						
ReTCHr	16	0.5650	1.0000					
BeTCHr	17	0.4708	0.6907	1.0000				
STCHr	18	0.6331	0.7779	0.7386	1.0000			
ReCCSpr	19	0.0118	-0.0198	0.0306	0.0383	1.0000		
BeCCSpr	20	-0.1646	-0.2796	-0.2352	-0.2305	0.8493	1.0000	
SCCSpr	21	-0.0556	0.0369	-0.1502	-0.1410	0.8200	0.7852	1.0000
ReCCSp	22	-0.0150	0.0030	0.0334	0.0371	0.9727	0.8253	0.8075
BeCCSp	23	-0.1021	-0.3490	-0.2210	-0.1997	0.7859	0.9493	0.6954
SCCSp	24	-0.0844	-0.0512	-0.2725	-0.2164	0.7701	0.7924	0.9550
ReCCSr	25	0.0464	-0.0490	0.0242	0.0363	0.9497	0.8077	0.7653
BeCCSr	26	-0.2108	-0.1803	-0.2252	-0.2379	0.8258	0.9480	0.7948
SCCSr	27	-0.0267	0.1104	-0.0341	-0.0658	0.8039	0.7225	0.9669
ReTSHpr	28	0.5638	0.8660	0.6091	0.6810	0.3679	0.0482	0.3104
BeTSHpr	29	0.4823	0.5159	0.7624	0.5599	0.4527	0.2943	0.2352
STSHpr	30	0.8150	0.7517	0.6166	0.8642	0.3393	0.0773	0.2520
ReTSHp	31	0.4462	0.5826	0.4137	0.4465	0.4660	0.1693	0.3440
BeTSHp	32	0.4823	0.3050	0.4696	0.3584	0.4442	0.3774	0.2485
STSHp	33	0.9262	0.5279	0.3497	0.5373	0.3090	0.1467	0.3038
ReTSHr	34	0.5706	0.9669	0.6766	0.7707	0.2190	-0.0664	0.2279
BeTSHr	35	0.3847	0.6329	0.9154	0.6581	0.3697	0.1472	0.1733
STSHr	36	0.6141	0.7823	0.6968	0.9454	0.3063	0.0193	0.1783
ReNMGYpr	37	0.4830	0.7000	0.5380	0.5636	0.6045	0.2889	0.5046
BeNMGYpr	38	0.3485	0.2998	0.5886	0.3721	0.6255	0.5429	0.4036
SNMGYpr	39	0.7133	0.6107	0.4909	0.7030	0.5678	0.3252	0.5069
ReNMGYp	40	0.3428	0.4776	0.3463	0.3668	0.6300	0.3589	0.4913
BeNMGYp	41	0.3816	0.1998	0.3866	0.2772	0.5673	0.5459	0.3696
SNMGYp	42	0.8136	0.4474	0.2536	0.4359	0.4830	0.3481	0.4968
ReNMGYr	43	0.5566	0.8295	0.6624	0.6891	0.4562	0.1489	0.4221
BeNMGYr	44	0.2307	0.3537	0.7011	0.4036	0.5558	0.4177	0.3541
SNMGYr	45	0.4990	0.6301	0.5929	0.7898	0.5314	0.2462	0.4210
		15	16	17	18	19	20	21

Table 56 continued (4/5)

ReCCSp	22	1.0000						
BeCCSp	23	0.7699	1.0000					
SCCSp	24	0.7448	0.6924	1.0000				
ReCCSr	25	0.8510	0.7388	0.7372	1.0000			
BeCCSr	26	0.7962	0.7998	0.8116	0.7940	1.0000		
SCCSr	27	0.8033	0.6479	0.8478	0.7345	0.7233	1.0000	
ReTSHpr	28	0.3938	-0.0412	0.1760	0.3005	0.1338	0.4040	1.0000
BeTSHpr	29	0.4611	0.2579	0.1457	0.4017	0.3008	0.2955	0.6586
STSHpr	30	0.3252	0.0910	0.1752	0.3285	0.0556	0.3002	0.7932
ReTSHp	31	0.5201	0.0936	0.1839	0.3519	0.2286	0.4570	0.8958
BeTSHp	32	0.4664	0.3613	0.2015	0.3753	0.3548	0.2712	0.5151
STSHp	33	0.2757	0.1701	0.2946	0.3267	0.1079	0.2902	0.6107
ReTSHr	34	0.2158	-0.1525	0.1390	0.2041	0.0278	0.2885	0.9208
BeTSHr	35	0.3620	0.0968	0.0574	0.3478	0.1830	0.2609	0.6757
STSHr	36	0.3070	0.0244	0.0689	0.2782	0.0123	0.2598	0.7900
ReNMGYpr	37	0.6225	0.1904	0.3615	0.5271	0.3589	0.5917	0.9497
BeNMGYpr	38	0.6110	0.4899	0.3367	0.5904	0.5405	0.4323	0.5136
SNMGYpr	39	0.5381	0.3180	0.4216	0.5580	0.2989	0.5442	0.7394
ReNMGYp	40	0.6820	0.2780	0.3388	0.5044	0.4037	0.5872	0.8449
BeNMGYp	41	0.5853	0.5341	0.3306	0.4933	0.5015	0.3767	0.4529
SNMGYp	42	0.4470	0.3440	0.4995	0.4892	0.3164	0.4591	0.5888
ReNMGYr	43	0.4300	0.0485	0.3181	0.4515	0.2353	0.4817	0.8897
BeNMGYr	44	0.5054	0.3268	0.2685	0.5755	0.4666	0.4026	0.4722
SNMGYr	45	0.5123	0.2378	0.2797	0.5105	0.2292	0.5126	0.7247
		22	23	24	25	26	27	28
BeTSHpr	29	1.0000						
STSHpr	30	0.6556	1.0000					
ReTSHp	31	0.5866	0.6067	1.0000				
BeTSHp	32	0.9061	0.5341	0.5441	1.0000			
STSHp	33	0.5194	0.8554	0.4965	0.5383	1.0000		
ReTSHr	34	0.6092	0.8216	0.6516	0.4017	0.6065	1.0000	
BeTSHr	35	0.8958	0.6503	0.5124	0.6238	0.3943	0.7037	1.0000
STSHr	36	0.6432	0.9394	0.5846	0.4478	0.6260	0.8355	0.7181
ReNMGYpr	37	0.7282	0.7569	0.9187	0.6172	0.6033	0.8148	0.6970
BeNMGYpr	38	0.9475	0.5403	0.4918	0.8897	0.4633	0.4450	0.8160
SNMGYpr	39	0.6432	0.9468	0.5944	0.5378	0.8502	0.7404	0.6235
ReNMGYp	40	0.6020	0.5663	0.9750	0.5669	0.4572	0.5866	0.5167
BeNMGYp	41	0.8800	0.4836	0.5078	0.9782	0.4915	0.3273	0.5984
SNMGYp	42	0.5151	0.8129	0.4982	0.5411	0.9694	0.5677	0.3833
ReNMGYr	43	0.7373	0.8373	0.6723	0.5572	0.6605	0.9288	0.7769
BeNMGYr	44	0.8173	0.4882	0.3626	0.5841	0.3257	0.4878	0.8964
SNMGYr	45	0.6279	0.8798	0.5625	0.4350	0.5951	0.7434	0.7031
		29	30	31	32	33	34	35

Table 56 continued (5/5)

STSHr	36	1.0000						
ReNMGYpr	37	0.7402	1.0000					
BeNMGYpr	38	0.5069	0.6593	1.0000				
SNMGYpr	39	0.8627	0.7885	0.6137	1.0000			
ReNMGYp	40	0.5499	0.9265	0.5654	0.6121	1.0000		
BeNMGYp	41	0.4027	0.5970	0.9171	0.5343	0.5727	1.0000	
SNMGYp	42	0.5822	0.6358	0.5218	0.8729	0.5079	0.5381	1.0000
ReNMGYr	43	0.8234	0.8930	0.6432	0.8457	0.6580	0.5099	0.6647
BeNMGYr	44	0.5194	0.5871	0.8766	0.5725	0.4302	0.6121	0.3854
SNMGYr	45	0.9307	0.7664	0.5745	0.9176	0.5834	0.4318	0.6071
		36	37	38	39	40	41	42
ReNMGYr	43	1.0000						
BeNMGYr	44	0.6606	1.0000					
SNMGYr	45	0.8359	0.6185	1.0000				
		43	44	45				

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

p = plant crop

r = ratoon crop

pr = (p+r)/2 crop

r_p = (r-p)/2 crop

NMGY = NMGYOT

Table 57. Correlation matrix for means of harvest and selection characters. 24 crosses, 3 crop classes (P, R, PR), trial Te, type (Re+Be+Se)/3

FIBREp	1	1.0000							DF = 22
FIBREr	2	0.9106	1.0000						
FIBREpr	3	0.9747	0.9799	1.0000					
TCHp	4	0.3655	0.3702	0.3765	1.0000				
TCHr	5	0.3859	0.4322	0.4198	0.6975	1.0000			
TCHpr	6	0.4086	0.4405	0.4352	0.8873	0.9494	1.0000		
CCSp	7	-0.5465	-0.6991	-0.6416	0.0018	-0.1694	-0.1083	1.0000	
CCSr	8	-0.5227	-0.6194	-0.5870	0.0494	-0.0985	-0.0418	0.9394	
CCSpr	9	-0.5432	-0.6704	-0.6245	0.0255	-0.1369	-0.0769	0.9854	
TSHp	10	0.1271	0.0721	0.1003	0.9221	0.5791	0.7769	0.3873	
TSHr	11	0.2094	0.2193	0.2196	0.7023	0.9437	0.9153	0.1464	
TSHpr	12	0.1875	0.1674	0.1810	0.8638	0.8479	0.9244	0.2726	
NMGYp	13	-0.0960	-0.1636	-0.1348	0.7984	0.4584	0.6450	0.5970	
NMGYr	14	-0.0040	-0.0404	-0.0238	0.5960	0.7672	0.7551	0.4009	
NMGYpr	15	-0.0540	-0.1101	-0.0856	0.7524	0.6613	0.7554	0.5385	
SEL7p	16	0.2775	0.2385	0.2628	0.8338	0.4602	0.6617	0.1714	
SEL7r	17	0.2331	0.2897	0.2690	0.5918	0.7607	0.7490	0.1511	
SEL7pr	18	0.1939	0.1775	0.1894	0.7809	0.6734	0.7757	0.3224	
SEL8p	19	0.0778	0.0349	0.0565	0.7668	0.3616	0.5688	0.2643	
SEL8r	20	0.2111	0.2324	0.2274	0.6152	0.7513	0.7532	0.2408	
SEL8pr	21	0.1773	0.1870	0.1866	0.8801	0.7199	0.8491	0.2660	
SEL10p	22	0.0779	-0.0364	0.0180	0.6477	0.2149	0.4222	0.1998	
SEL10r	23	0.1505	0.1468	0.1519	0.6582	0.7903	0.7972	0.1524	
SEL10pr	24	0.1538	0.0548	0.1038	0.7559	0.5820	0.7060	0.2407	
STALKp	25	0.2336	0.2963	0.2729	0.3972	0.4435	0.4596	-0.3229	
STALKr	26	0.2890	0.4163	0.3645	0.3728	0.7824	0.6670	-0.3840	
STALKpr	27	0.2924	0.4064	0.3607	0.4121	0.7213	0.6450	-0.3942	
BRIXp	28	-0.2909	-0.3661	-0.3383	0.1495	-0.0700	0.0204	0.7634	
BRIXr	29	0.0381	0.0064	0.0218	0.0649	0.0588	0.0663	0.5272	
BRIXpr	30	-0.1300	-0.1932	-0.1672	0.1280	-0.0040	0.0535	0.7750	
HARDp	31	0.6418	0.6262	0.6481	0.3700	0.0696	0.2070	-0.2977	
HARDr	32	0.7068	0.7550	0.7491	0.2359	0.1750	0.2160	-0.4224	
HARDpr	33	0.7070	0.7238	0.7324	0.3183	0.1296	0.2229	-0.3772	
VISGp	34	0.2188	0.1896	0.2081	0.8806	0.4717	0.6896	0.1947	
VISGr	35	0.2829	0.3373	0.3188	0.6667	0.8182	0.8189	0.1158	
VISGpr	36	0.2979	0.3200	0.3167	0.8847	0.7811	0.8905	0.1742	
WSp	37	0.1464	0.1025	0.1260	0.5428	0.2308	0.3864	0.2650	
WSr	38	0.1479	0.0315	0.0884	0.4172	0.2739	0.3592	0.3213	
WSpr	39	0.1559	0.0779	0.1173	0.5214	0.2634	0.3981	0.3055	
STVARp	40	-0.0615	-0.0174	-0.0392	-0.0039	0.1685	0.1068	-0.1501	
STVARr	41	0.1807	0.2905	0.2441	0.2464	0.5684	0.4738	-0.3430	
STVARpr	42	0.1092	0.1615	0.1399	0.1359	0.4156	0.3271	-0.2129	
BRVARp	43	0.0793	0.1123	0.0990	-0.0165	-0.1309	-0.0914	-0.2743	
BRVARr	44	-0.2223	-0.3382	-0.2901	-0.3732	-0.7043	-0.6169	0.0719	
BRVARpr	45	0.1021	0.0615	0.0825	-0.1174	-0.4090	-0.3147	-0.3298	
HVARp	46	0.4387	0.4364	0.4476	-0.0064	-0.0500	-0.0349	-0.1073	
HVARr	47	0.3078	0.2901	0.3054	-0.1318	-0.2446	-0.2151	-0.2115	
HVARpr	48	0.3418	0.3806	0.3707	-0.1119	-0.2124	-0.1858	-0.2006	
GVARp	49	-0.2985	-0.3851	-0.3523	0.0188	-0.2310	-0.1404	0.3000	
GVARr	50	0.0759	-0.0358	0.0172	0.5672	0.4482	0.5371	0.2437	
GVARpr	51	-0.0678	-0.2207	-0.1520	0.4090	0.1667	0.2866	0.3298	
WSr_p	52	-0.0688	-0.1254	-0.1010	-0.3959	-0.0648	-0.2151	-0.0671	
WSp	53	0.1464	0.1025	0.1260	0.5428	0.2308	0.3864	0.2650	
WSr	54	0.1479	0.0315	0.0884	0.4172	0.2739	0.3592	0.3213	
WSpr	55	0.1559	0.0779	0.1173	0.5214	0.2634	0.3981	0.3055	

Table 57 continued (2/6)

CCSr	8	1.0000							
CCSpr	9	0.9841	1.0000						
TSHp	10	0.4040	0.4016	1.0000					
TSHr	11	0.2339	0.1921	0.7048	1.0000				
TSHpr	12	0.3337	0.3071	0.9023	0.9418	1.0000			
NMGyp	13	0.5979	0.6067	0.9666	0.6500	0.8532	1.0000		
NMGYr	14	0.5140	0.4633	0.7039	0.9193	0.8923	0.7172	1.0000	
NMGYpr	15	0.6000	0.5774	0.9013	0.8468	0.9418	0.9266	0.9266	
SEL7p	16	0.1617	0.1693	0.8365	0.5065	0.7043	0.7594	0.4913	
SEL7r	17	0.1732	0.1645	0.6038	0.8050	0.7754	0.5574	0.6101	
SEL7pr	18	0.3286	0.3305	0.8434	0.7718	0.8688	0.8080	0.6838	
SEL8p	19	0.2331	0.2529	0.8125	0.4327	0.6481	0.7772	0.4528	
SEL8r	20	0.2304	0.2393	0.6614	0.8142	0.8083	0.6279	0.6440	
SEL8pr	21	0.2755	0.2749	0.9153	0.7969	0.9181	0.8637	0.6972	
SEL10p	22	0.1494	0.1779	0.6808	0.2652	0.4839	0.6449	0.2645	
SEL10r	23	0.1293	0.1433	0.6650	0.8146	0.8103	0.6239	0.6550	
SEL10pr	24	0.1759	0.2122	0.7955	0.6328	0.7617	0.7534	0.5325	
STALKp	25	-0.2285	-0.2810	0.2426	0.3574	0.3321	0.1342	0.3524	
STALKr	26	-0.3187	-0.3575	0.1988	0.6589	0.4946	0.0832	0.5406	
STALKpr	27	-0.3146	-0.3608	0.2306	0.6007	0.4743	0.1081	0.5130	
BRIXp	28	0.7111	0.7493	0.4330	0.1742	0.3112	0.5677	0.3783	
BRIXr	29	0.5214	0.5325	0.2634	0.2302	0.2648	0.3362	0.1960	
BRIXpr	30	0.7403	0.7698	0.4177	0.2456	0.3473	0.5400	0.3336	
HARDp	31	-0.2233	-0.2652	0.2166	-0.0058	0.0992	0.0651	-0.1111	
HARDr	32	-0.2749	-0.3556	0.0421	0.0743	0.0652	-0.1207	-0.0568	
HARDpr	33	-0.2611	-0.3253	0.1365	0.0373	0.0875	-0.0282	-0.0869	
VISGp	34	0.2077	0.2042	0.8884	0.5328	0.7449	0.8180	0.5281	
VISGr	35	0.1427	0.1310	0.6587	0.8489	0.8281	0.5955	0.6525	
VISGpr	36	0.1962	0.1879	0.8832	0.8315	0.9239	0.8059	0.6954	
WSp	37	0.2181	0.2458	0.6022	0.3046	0.4706	0.5811	0.1927	
WSr	38	0.3093	0.3204	0.5064	0.3690	0.4643	0.5048	0.2617	
WSpr	39	0.2709	0.2930	0.5973	0.3509	0.4964	0.5833	0.2342	
STVARp	40	-0.2459	-0.2000	-0.0645	0.0834	0.0201	-0.0774	-0.0482	
STVARr	41	-0.3884	-0.3708	0.0934	0.4216	0.3004	0.0087	0.2469	
STVARpr	42	-0.2894	-0.2541	0.0382	0.3059	0.2040	-0.0105	0.1583	
BRVARp	43	-0.2932	-0.2881	-0.1091	-0.2091	-0.1788	-0.1649	-0.3386	
BRVARr	44	-0.0168	0.0289	-0.3128	-0.6782	-0.5604	-0.2474	-0.5701	
BRVARpr	45	-0.3553	-0.3477	-0.2299	-0.5009	-0.4134	-0.2866	-0.5594	
HVARp	46	0.0430	-0.0343	-0.0481	-0.0341	-0.0434	-0.1146	-0.0806	
HVARr	47	-0.1647	-0.1916	-0.2015	-0.2887	-0.2710	-0.2615	-0.3497	
HVARpr	48	-0.1019	-0.1547	-0.1793	-0.2425	-0.2324	-0.2423	-0.3093	
GVARp	49	0.1189	0.2146	0.1446	-0.1703	-0.0349	0.2172	-0.1915	
GVARr	50	0.1525	0.2022	0.6181	0.4874	0.5892	0.6058	0.3668	
GVARpr	51	0.1976	0.2692	0.5075	0.2309	0.3808	0.5324	0.1779	
WSr_p	52	-0.0071	-0.0383	-0.3925	-0.0774	-0.2331	-0.3615	-0.0186	
WSp	53	0.2181	0.2458	0.6022	0.3046	0.4706	0.5811	0.1927	
WSr	54	0.3093	0.3204	0.5064	0.3690	0.4643	0.5048	0.2617	
WSpr	55	0.2709	0.2930	0.5973	0.3509	0.4964	0.5833	0.2342	

Table 57 continued (3/6)

NMGYpr	15	1.0000							
SEL7p	16	0.6748	1.0000						
SEL7r	17	0.6300	0.4286	1.0000					
SEL7pr	18	0.8050	0.7692	0.8613	1.0000				
SEL8p	19	0.6636	0.9399	0.3240	0.6874	1.0000			
SEL8r	20	0.6863	0.4305	0.9710	0.8652	0.3366	1.0000		
SEL8pr	21	0.8422	0.7640	0.7882	0.9227	0.7391	0.8305	1.0000	
SEL10p	22	0.4907	0.6842	0.1533	0.4482	0.8146	0.2015	0.6316	
SEL10r	23	0.6901	0.4274	0.8409	0.7763	0.3533	0.8902	0.7851	
SEL10pr	24	0.6939	0.5871	0.5877	0.6716	0.6153	0.6638	0.8070	
STALKp	25	0.2626	0.3623	0.0955	0.2090	0.2919	0.0510	0.2368	
STALKr	26	0.3366	0.2051	0.4274	0.3113	0.0957	0.3878	0.3179	
STALKpr	27	0.3351	0.2782	0.3412	0.2980	0.1742	0.2962	0.3131	
BRIXp	28	0.5105	0.3505	0.1954	0.3980	0.3646	0.2604	0.3325	
BRIXr	29	0.2872	0.0892	0.5735	0.4665	0.0260	0.5826	0.3439	
BRIXpr	30	0.4715	0.2555	0.4942	0.5342	0.2196	0.5364	0.4152	
HARDp	31	-0.0248	0.3612	0.1161	0.1887	0.2119	0.0890	0.1850	
HARDr	32	-0.0958	0.1553	0.2050	0.1243	-0.0477	0.1485	0.0502	
HARDpr	33	-0.0622	0.2724	0.1699	0.1659	0.0874	0.1256	0.1247	
VISGp	34	0.7263	0.9391	0.4206	0.7470	0.9344	0.4412	0.8262	
VISGr	35	0.6734	0.4567	0.9747	0.8653	0.3460	0.9735	0.8264	
VISGpr	36	0.8101	0.7695	0.8650	0.9507	0.6926	0.8745	0.9641	
WSp	37	0.4175	0.4158	0.4756	0.5275	0.4156	0.5311	0.5772	
WSr	38	0.4136	0.3393	0.5042	0.5249	0.3700	0.5459	0.5649	
WSpr	39	0.4411	0.4078	0.5168	0.5584	0.4211	0.5698	0.6069	
STVARp	40	-0.0677	-0.0448	0.2775	0.2443	-0.0504	0.2875	0.1901	
STVARr	41	0.1380	0.1425	0.3653	0.2891	0.0738	0.3788	0.3374	
STVARpr	42	0.0798	0.0485	0.3436	0.2849	-0.0051	0.3774	0.2968	
BRVARp	43	-0.2718	-0.1512	-0.0936	-0.1750	-0.1158	-0.1052	-0.1017	
BRVARr	44	-0.4412	-0.3204	-0.6099	-0.5263	-0.2456	-0.5990	-0.5268	
BRVARpr	45	-0.4566	-0.2288	-0.4278	-0.3871	-0.1722	-0.4333	-0.3224	
HVARp	46	-0.1054	0.0503	0.1335	0.0692	-0.0006	0.0660	-0.0029	
HVARr	47	-0.3298	-0.1576	-0.1991	-0.2469	-0.1332	-0.2527	-0.2453	
HVARpr	48	-0.2976	-0.0736	-0.0907	-0.1527	-0.0573	-0.1626	-0.1652	
GVARp	49	0.0139	0.0645	-0.0164	0.0379	0.2293	0.0476	0.1315	
GVARr	50	0.5249	0.4459	0.4860	0.5531	0.4515	0.5574	0.6667	
GVARpr	51	0.3833	0.3942	0.2479	0.3734	0.4664	0.3244	0.4933	
WSr_p	52	-0.2050	-0.2820	-0.1982	-0.2567	-0.2489	-0.2397	-0.2911	
WSp	53	0.4175	0.4158	0.4756	0.5275	0.4156	0.5311	0.5772	
WSr	54	0.4136	0.3393	0.5042	0.5249	0.3700	0.5459	0.5649	
WSpr	55	0.4411	0.4078	0.5168	0.5584	0.4211	0.5698	0.6069	

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Table 57 continued (4/6)

SEL10p	22	1.0000						
SEL10r	23	0.2769	1.0000					
SEL10pr	24	0.7078	0.7949	1.0000				
STALKp	25	0.2005	0.1725	0.1398	1.0000			
STALKr	26	-0.1011	0.4471	0.1447	0.6850	1.0000		
STALKpr	27	-0.0003	0.3830	0.1558	0.8492	0.9663	1.0000	
BRIXp	28	0.2145	0.1510	0.2009	-0.1326	-0.0939	-0.1133	1.0000
BRIXr	29	-0.0448	0.3366	0.2322	-0.3812	-0.3028	-0.3592	0.3164
BRIXpr	30	0.0903	0.3090	0.2698	-0.3348	-0.2618	-0.3104	0.7660
HARDp	31	0.1611	0.0029	0.1450	0.1057	-0.0472	0.0060	0.0023
HARDr	32	-0.1849	0.0102	-0.1032	0.1088	0.1203	0.1241	-0.1981
HARDpr	33	-0.0113	0.0074	0.0221	0.1135	0.0394	0.0695	-0.1029
VISGp	34	0.8060	0.4337	0.6441	0.4082	0.2216	0.3060	0.3881
VISGr	35	0.1619	0.8705	0.6144	0.1429	0.4671	0.3859	0.1399
VISGpr	36	0.5057	0.8019	0.7353	0.2898	0.4216	0.4067	0.2901
WSp	37	0.3779	0.4366	0.5445	-0.5464	-0.2732	-0.3887	0.2364
WSr	38	0.4420	0.4782	0.6069	-0.4349	-0.3762	-0.4299	0.0321
WSpr	39	0.4288	0.4812	0.6047	-0.5314	-0.3346	-0.4303	0.1622
STVARp	40	0.0037	0.2919	0.1093	0.2918	0.2537	0.2848	-0.1052
STVARr	41	0.0557	0.4865	0.1920	0.4283	0.6941	0.6531	-0.0008
STVARpr	42	0.0408	0.4371	0.1684	0.3824	0.5264	0.5140	0.0208
BRVARp	43	0.0806	-0.1528	0.0488	-0.0525	-0.2712	-0.2154	-0.5854
BRVARr	44	-0.0607	-0.5767	-0.2996	-0.3219	-0.5101	-0.4756	0.1227
BRVARpr	45	0.0630	-0.4258	-0.1656	-0.0375	-0.3886	-0.2907	-0.5156
HVARp	46	-0.0189	-0.1073	-0.0283	-0.0623	-0.2698	-0.2207	-0.1469
HVARr	47	-0.1445	-0.3878	-0.2450	-0.2907	-0.3325	-0.3415	-0.2893
HVARpr	48	-0.0846	-0.3302	-0.2159	-0.2095	-0.3440	-0.3238	-0.2872
GVARp	49	0.4414	0.0733	0.3850	-0.5295	-0.4879	-0.5348	0.1429
GVARr	50	0.5904	0.7302	0.8349	-0.0880	-0.0163	-0.0417	0.1611
GVARpr	51	0.6528	0.5053	0.7723	-0.2376	-0.2748	-0.2794	0.1720
WSr_p	52	-0.1134	-0.1656	-0.1953	0.3825	0.0213	0.1431	-0.3328
WSp	53	0.3779	0.4366	0.5445	-0.5464	-0.2732	-0.3887	0.2364
WSr	54	0.4420	0.4782	0.6069	-0.4349	-0.3762	-0.4299	0.0321
WSpr	55	0.4288	0.4812	0.6047	-0.5314	-0.3346	-0.4303	0.1622
		22	23	24	25	26	27	28

Table 57 continued (5/6)

BRIXr	29	1.0000						
BRIXpr	30	0.8519	1.0000					
HARDp	31	0.0407	0.0338	1.0000				
HARDr	32	0.1438	-0.0109	0.8283	1.0000			
HARDpr	33	0.0968	0.0120	0.9562	0.9560	1.0000		
VISGp	34	0.0507	0.2488	0.3165	0.1021	0.2205	1.0000	
VISGr	35	0.5288	0.4327	0.1061	0.2191	0.1718	0.4582	1.0000
VISGpr	36	0.3800	0.4161	0.2311	0.1961	0.2254	0.8001	0.8995
WSp	37	0.4249	0.4238	0.2663	0.1411	0.2135	0.4072	0.4958
WSr	38	0.5995	0.4233	0.1806	0.1020	0.1483	0.3258	0.5198
WSpr	39	0.5262	0.4493	0.2454	0.1326	0.1982	0.3967	0.5363
STVARp	40	-0.0335	-0.0826	-0.1022	-0.1486	-0.1311	-0.0005	0.2597
STVARr	41	-0.2697	-0.1858	-0.0813	-0.0628	-0.0745	0.1909	0.3871
STVARpr	42	-0.1606	-0.1009	-0.0695	-0.0683	-0.0716	0.1209	0.3580
BRVARp	43	0.0611	-0.2748	-0.0539	-0.0795	-0.0686	-0.1732	-0.0645
BRVARr	44	-0.2741	-0.1119	-0.0178	-0.2061	-0.1174	-0.2712	-0.6339
BRVARpr	45	-0.2242	-0.4271	0.0410	-0.0560	-0.0061	-0.2101	-0.3771
HVARp	46	0.4656	0.2361	0.4719	0.5857	0.5537	-0.0017	0.1067
HVARr	47	0.0824	-0.0987	0.3348	0.3060	0.3361	-0.2240	-0.1865
HVARpr	48	0.2739	0.0310	0.3947	0.4380	0.4365	-0.1407	-0.1002
GVARp	49	0.0709	0.1365	-0.1717	-0.4976	-0.3488	0.0532	-0.0770
GVARr	50	0.2594	0.2655	0.0227	-0.2219	-0.1029	0.4653	0.5095
GVARpr	51	0.1583	0.2060	0.0327	-0.3269	-0.1526	0.3807	0.2369
WSr_p	52	-0.0170	-0.2043	-0.2202	-0.1097	-0.1727	-0.2832	-0.2128
WSp	53	0.4249	0.4238	0.2663	0.1411	0.2135	0.4072	0.4958
WSr	54	0.5995	0.4233	0.1806	0.1020	0.1483	0.3258	0.5198
WSpr	55	0.5262	0.4493	0.2454	0.1326	0.1982	0.3967	0.5363
		29	30	31	32	33	34	35
VISGpr	36	1.0000						
WSp	37	0.5438	1.0000					
WSr	38	0.5100	0.7693	1.0000				
WSpr	39	0.5621	0.9609	0.9161	1.0000			
STVARp	40	0.1725	-0.2457	-0.0978	-0.1964	1.0000		
STVARr	41	0.3539	-0.1706	-0.2054	-0.1960	0.5898	1.0000	
STVARpr	42	0.2982	-0.2260	-0.1595	-0.2109	0.8252	0.9016	1.0000
BRVARp	43	-0.1297	0.0919	0.2347	0.1593	0.0481	-0.3413	-0.2617
BRVARr	44	-0.5515	-0.0418	-0.2799	-0.1473	-0.2155	-0.4587	-0.3533
BRVARpr	45	-0.3546	-0.0191	-0.0190	-0.0200	-0.0102	-0.3823	-0.2749
HVARp	46	0.0657	0.0791	0.3714	0.2105	-0.2256	-0.3583	-0.3449
HVARr	47	-0.2328	0.1972	0.1751	0.1996	-0.4831	-0.5201	-0.5982
HVARpr	48	-0.1381	0.1363	0.2547	0.1959	-0.4491	-0.4869	-0.5668
GVARp	49	-0.0150	0.5163	0.4120	0.5028	-0.0307	-0.1814	-0.1564
GVARr	50	0.5769	0.5641	0.6555	0.6382	0.0749	0.2765	0.2180
GVARpr	51	0.3539	0.5583	0.6307	0.6239	-0.0256	0.0285	0.0176
WSr_p	52	-0.2979	-0.7287	-0.1231	-0.5107	0.2765	0.0447	0.1799
WSp	53	0.5438	1.0000	0.7693	0.9609	-0.2457	-0.1706	-0.2260
WSr	54	0.5100	0.7693	1.0000	0.9161	-0.0978	-0.2054	-0.1595
WSpr	55	0.5621	0.9609	0.9161	1.0000	-0.1964	-0.1960	-0.2109
		36	37	38	39	40	41	42

Table 57 continued (6/6)

BRVARp	43	1.0000						
BRVARr	44	0.1035	1.0000					
BRVARpr	45	0.7963	0.5122	1.0000				
HVARp	46	0.1893	-0.1939	0.1036	1.0000			
HVARr	47	0.3809	0.1621	0.4750	0.4689	1.0000		
HVARpr	48	0.3354	-0.0559	0.3362	0.7499	0.8942	1.0000	
GVARp	49	0.3553	0.2739	0.3014	-0.1832	0.0767	-0.0217	1.0000
GVARr	50	-0.0433	-0.2050	-0.1638	-0.1381	-0.2560	-0.2397	0.4352
GVARpr	51	0.0716	-0.0079	-0.0008	-0.1504	-0.1233	-0.1486	0.7055
WSr_p	52	0.1089	-0.2354	0.0090	0.2751	-0.1187	0.0612	-0.3608
WSp	53	0.0919	-0.0418	-0.0191	0.0791	0.1972	0.1363	0.5163
WSr	54	0.2347	-0.2799	-0.0190	0.3714	0.1751	0.2547	0.4120
WSpr	55	0.1593	-0.1473	-0.0200	0.2105	0.1996	0.1959	0.5028
		43	44	45	46	47	48	49
GVARr	50	1.0000						
GVARpr	51	0.8997	1.0000					
WSr_p	52	-0.1739	-0.1917	1.0000				
WSp	53	0.5641	0.5583	-0.7287	1.0000			
WSr	54	0.6555	0.6307	-0.1231	0.7693	1.0000		
WSpr	55	0.6382	0.6239	-0.5107	0.9609	0.9161	1.0000	
		50	51	52	53	54	55	

Correlation is significantly different from zero if > 0.404 (5%), 0.515 (1%).

p = plant crop

r = ratoon crop

pr = (p+r)/2 crop

r_p = (r-p)/2 crop

NMGY = NMGYOT

VISG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

ST = number of stalks

WS = weight per stalk

STV = within plot variance for number of stalks

BRV = within plot variance for BRIX

HV = within plot variance for HARDNESS

GV = within plot variance for visual net merit grade

Table 58a. Correlation matrix on a plot basis for Re+Be+Se, followed by separate matrices for Re, Be and Se types. Each matrix consists of two parts (a,b) which have some correlations in common.

The following matrix is for random+bunch+single

DF = 214

pFIBRE	1	1.0000						
pTCH	2	0.1904	1.0000					
pCCS	3	-0.2435	0.0410	1.0000				
pTSH	4	0.0943	0.9395	0.3767	1.0000			
pNMGYOT	5	-0.0733	0.8349	0.5233	0.9524	1.0000		
WSp	6	0.0347	0.5396	0.0682	0.5256	0.4748	1.0000	
rFIBRE	7	0.6376	0.1770	-0.2978	0.0613	-0.0483	0.0361	1.0000
rTCH	8	0.2065	0.5912	-0.1531	0.4918	0.3949	0.2974	0.1336
rCCS	9	-0.2251	-0.0530	0.5730	0.1472	0.2613	0.0159	-0.3678
rTSH	10	0.1284	0.5690	0.0454	0.5405	0.4826	0.3038	0.0076
rNMGYOT	11	0.0634	0.4250	0.2788	0.4867	0.3946	0.1784	-0.1212
WSr	12	0.0338	0.3638	0.0059	0.3368	0.2999	0.6006	-0.0748
SEL7p	13	0.2478	0.5381	0.1779	0.5646	0.5013	0.1905	0.1724
SEL8p	14	0.1451	0.4819	0.2294	0.5316	0.4919	0.1477	0.0576
SEL10p	15	0.1055	0.3775	0.1268	0.4022	0.3448	0.1476	-0.0064
STALKp	16	0.1874	0.4486	-0.0531	0.3948	0.3349	-0.4851	0.1683
BRIXp	17	0.1209	0.0818	0.6791	0.3042	0.3694	0.0060	-0.0077
HARDp	18	0.5262	0.2894	-0.0972	0.2329	0.1189	0.2250	0.4657
NMGp	19	0.2503	0.6205	0.2281	0.6588	0.5896	0.1833	0.1609
SEL7r	20	0.1702	0.3744	0.0944	0.3799	0.3619	0.2860	0.1268
SEL8r	21	0.0907	0.4441	0.1835	0.4757	0.4701	0.3727	0.0865
SEL10r	22	0.0437	0.3949	0.0317	0.3782	0.3639	0.3098	0.0427
STALKr	23	0.2287	0.3511	-0.1891	0.2586	0.1757	-0.2195	0.2465
BRIXr	24	0.0740	-0.0790	0.4824	0.0870	0.1701	0.0723	0.0599
HARDr	25	0.5288	0.0466	-0.0830	0.0070	-0.0672	0.0099	0.6125
NMGr	26	0.1796	0.5051	0.1108	0.5038	0.4747	0.3510	0.1630
pSTvar	27	-0.0128	0.0856	-0.0252	0.0729	0.0703	-0.1893	0.0029
pBRvar	28	-0.1317	-0.1149	-0.3592	-0.2161	-0.2215	-0.0133	-0.0076
pHARDvar	29	0.0993	0.0066	-0.1011	-0.0256	-0.0308	0.0402	0.1825
pNMGvar	30	-0.0926	-0.0524	0.0334	-0.0301	-0.0204	0.0276	-0.0436
rSTvar	31	0.0521	0.1838	-0.0842	0.1397	0.0995	-0.0445	0.1137
rBRvar	32	0.0073	-0.1246	-0.1003	-0.1428	-0.1576	-0.0061	-0.0404
rHARDvar	33	0.0459	0.0170	-0.2092	-0.0557	-0.0652	0.0941	0.0257
rNMGvar	34	-0.0018	0.2501	0.0524	0.2470	0.2439	0.2190	-0.0411
		1	2	3	4	5	6	7

Table 58a continued (2/12)

rTCH	8	1.0000						
rCCS	9	-0.1637	1.0000					
rTSH	10	0.9351	0.1901	1.0000				
rNMGYOT	11	0.7002	0.3406	0.8182	1.0000			
WSr	12	0.5911	-0.0120	0.5817	0.4257	1.0000		
SEL7p	13	0.2602	0.1177	0.3080	0.3322	0.1342	1.0000	
SEL8p	14	0.1372	0.1244	0.1869	0.2387	0.0841	0.7949	1.0000
SEL10p	15	0.0713	0.0866	0.1122	0.1775	0.1519	0.4592	0.6348
STALKp	16	0.2826	-0.0927	0.2497	0.2265	-0.2601	0.3468	0.3456
BRIXp	17	-0.1104	0.4915	0.0635	0.2317	-0.1299	0.3469	0.3362
HARDp	18	0.1262	-0.0479	0.1083	0.0579	0.1223	0.2888	0.2214
NMGp	19	0.2941	0.1424	0.3497	0.3785	0.1387	0.8621	0.8382
SEL7r	20	0.5670	0.0730	0.5983	0.3712	0.3855	0.2753	0.1821
SEL8r	21	0.5758	0.0966	0.6150	0.4036	0.4007	0.2751	0.2040
SEL10r	22	0.4638	-0.0674	0.4409	0.2112	0.2841	0.1506	0.0834
STALKr	23	0.6376	-0.1787	0.5727	0.4338	-0.2299	0.1762	0.0849
BRIXr	24	-0.0286	0.3424	0.0914	0.0708	0.1420	0.0034	-0.0063
HARDr	25	0.0208	-0.0648	-0.0030	0.0270	-0.0436	0.1291	0.0373
NMGr	26	0.6908	0.0608	0.7119	0.4623	0.4429	0.3158	0.1951
pSTvar	27	-0.0179	-0.0375	-0.0305	-0.0516	-0.1385	0.0753	0.1340
pBRvar	28	-0.1304	-0.1254	-0.1607	-0.2628	-0.0358	-0.1921	-0.1072
pHARDvar	29	-0.0269	0.0301	-0.0109	-0.0952	0.1235	0.0431	0.0718
pNMGvar	30	-0.2297	-0.0211	-0.2268	-0.1443	-0.0342	0.0346	0.2586
rSTvar	31	0.1830	-0.1484	0.1231	0.0668	-0.1468	0.0841	0.1142
rBRvar	32	-0.1774	-0.1073	-0.2099	-0.1798	-0.0455	-0.1697	-0.1061
rHARDvar	33	-0.0072	-0.0504	-0.0225	-0.1702	0.1276	-0.0788	-0.0236
rNMGvar	34	0.1662	-0.0509	0.1459	0.0239	0.1939	0.0352	0.0866
		8	9	10	11	12	13	14
SEL10p	15	1.0000						
STALKp	16	0.2432	1.0000					
BRIXp	17	0.1716	0.0832	1.0000				
HARDp	18	0.1149	0.0848	0.1883	1.0000			
NMGp	19	0.6640	0.4353	0.4032	0.2954	1.0000		
SEL7r	20	0.1486	0.0974	0.0922	0.1483	0.2835	1.0000	
SEL8r	21	0.1463	0.0673	0.1244	0.1265	0.2770	0.8327	1.0000
SEL10r	22	0.0691	0.0827	-0.0234	0.0432	0.1312	0.5386	0.6579
STALKr	23	-0.0653	0.5884	-0.0007	0.0411	0.2190	0.3287	0.3177
BRIXr	24	-0.0792	-0.1511	0.4085	0.0086	-0.0371	0.3805	0.3612
HARDr	25	-0.0391	0.0554	0.1833	0.5535	0.1155	0.0536	0.0042
NMGr	26	0.0817	0.1454	0.0862	0.1303	0.3160	0.8801	0.8581
pSTvar	27	0.2379	0.3383	-0.0205	-0.0441	0.0520	0.0806	0.1046
pBRvar	28	-0.0062	-0.0828	-0.5471	-0.0790	-0.2406	-0.0055	-0.0552
pHARDvar	29	0.0426	-0.0089	-0.0577	0.2598	0.0286	0.1011	0.0191
pNMGvar	30	0.4316	-0.0477	0.0073	-0.1302	0.0486	-0.0821	-0.0498
rSTvar	31	0.1179	0.2252	-0.0128	-0.0194	0.0988	0.0882	0.1711
rBRvar	32	0.0193	-0.1099	-0.0848	0.0068	-0.1357	-0.2064	-0.1526
rHARDvar	33	-0.0789	-0.0833	-0.1491	0.1553	-0.1238	-0.0880	-0.1042
rNMGvar	34	0.2154	0.0115	-0.0444	-0.0241	0.0394	0.2495	0.3577
		15	16	17	18	19	20	21

Table 58a continued (3/12)

SEL10r	22	1.0000						
STALKr	23	0.2795	1.0000					
BRIXr	24	0.2281	-0.1494	1.0000				
HARDr	25	-0.0694	0.0833	0.2362	1.0000			
NMGr	26	0.6933	0.4205	0.4189	0.0959	1.0000		
pSTvar	27	0.1673	0.1209	0.0222	-0.0916	0.0800	1.0000	
pBRvar	28	-0.0379	-0.1406	-0.1511	-0.1449	-0.0894	-0.0031	1.0000
pHARDvar	29	-0.0611	-0.1362	0.0766	0.1490	0.0539	0.0261	0.2033
pNMGvar	30	-0.0046	-0.2459	0.0126	-0.0968	-0.1251	0.4773	0.1904
rSTvar	31	0.1547	0.3722	-0.0817	-0.0557	0.1156	0.4212	-0.0742
rBRvar	32	-0.0456	-0.1743	-0.2314	-0.1614	-0.2541	-0.0419	0.0846
rHARDvar	33	-0.0761	-0.1285	0.0055	0.0853	-0.0522	-0.0899	0.1074
rNMGvar	34	0.5951	0.0146	0.0992	-0.2157	0.3035	0.2357	-0.0032
		22	23	24	25	26	27	28
pHARDvar	29	1.0000						
pNMGvar	30	-0.0317	1.0000					
rSTvar	31	-0.0611	0.2241	1.0000				
rBRvar	32	0.0603	0.0892	-0.0332	1.0000			
rHARDvar	33	0.2431	-0.0284	-0.0611	0.0226	1.0000		
rNMGvar	34	-0.0571	0.2971	0.2710	0.1740	0.0125	1.0000	
		29	30	31	32	33	34	

Table 58a continued (4/12)

The following analysis is for random seedlings

***** CORRELATION MATRIX *****

DF = 70

pFIBRE	1	1.0000						
pTCH	2	0.2121	1.0000					
pCCS	3	-0.2703	0.0866	1.0000				
pTSH	4	0.0933	0.9386	0.4211	1.0000			
pNMGYOT	5	-0.0403	0.8249	0.5848	0.9543	1.0000		
WSp	6	0.1363	0.4099	-0.0006	0.3819	0.3143	1.0000	
rFIBRE	7	0.6279	0.2989	-0.3371	0.1551	0.0317	0.1491	1.0000
rTCH	8	0.2646	0.6104	-0.0506	0.5310	0.4275	0.1125	0.3019
rCCS	9	-0.2033	-0.1388	0.6337	0.0891	0.2109	-0.0633	-0.4265
rTSH	10	0.2020	0.5510	0.1462	0.5453	0.4812	0.1069	0.1750
rNMGYOT	11	0.0345	0.4445	0.3632	0.5194	0.4337	0.0085	0.0071
WSr	12	0.0182	0.3674	0.0481	0.3501	0.2901	0.5108	0.0304
SEL7p	13	0.2210	0.5167	0.1278	0.5230	0.4882	0.0177	0.2371
SEL8p	14	0.1311	0.5326	0.1226	0.5346	0.4935	0.0635	0.1684
SEL10p	15	0.0016	0.3744	0.0397	0.3618	0.3466	0.1099	0.1843
STALKp	16	0.1116	0.4809	0.0169	0.4357	0.3891	-0.5580	0.1395
BRIXp	17	0.1413	0.1522	0.6100	0.3421	0.4276	-0.0224	-0.0200
HARDp	18	0.5191	0.3232	-0.1101	0.2523	0.1507	0.2569	0.4547
NMGp	19	0.2707	0.6620	0.2036	0.6760	0.6311	0.0444	0.2821
SEL7r	20	0.2338	0.4333	0.2058	0.4612	0.4366	0.1186	0.1909
SEL8r	21	0.1674	0.4485	0.2306	0.4891	0.4781	0.2672	0.1864
SEL10r	22	0.1093	0.4584	0.0597	0.4447	0.4116	0.2338	0.0946
STALKr	23	0.3089	0.3942	-0.1090	0.3132	0.2411	-0.3163	0.3383
BRIXr	24	0.1210	0.1001	0.4890	0.2588	0.3235	0.0419	0.0455
HARDr	25	0.5025	0.0691	-0.1632	-0.0072	-0.0733	0.0441	0.6066
NMGr	26	0.2629	0.5356	0.2155	0.5580	0.5211	0.1398	0.1988
pSTvar	27	-0.0693	0.1219	-0.1874	0.0494	0.0405	-0.2509	-0.0038
pBRvar	28	-0.0588	-0.2242	-0.4985	-0.3574	-0.3977	0.1469	-0.0112
pHARDvar	29	0.1954	0.0864	-0.2561	-0.0127	-0.0683	-0.0593	0.2556
pNMGvar	30	-0.1352	-0.0585	-0.2318	-0.1208	-0.1404	0.0851	0.1177
rSTvar	31	0.1126	0.2246	-0.1880	0.1305	0.0528	-0.1162	0.2427
rBRvar	32	-0.1140	-0.0328	-0.1100	-0.0607	-0.0555	0.2350	-0.0201
rHARDvar	33	0.0971	-0.0041	-0.2904	-0.1090	-0.1380	-0.0091	0.0385
rNMGvar	34	0.0634	0.3622	0.1455	0.3788	0.4012	0.2041	0.1012

1 2 3 4 5 6 7

Table 58a continued (5/12)

rTCH	8	1.0000						
rCCS	9	-0.0938	1.0000					
rTSH	10	0.9498	0.2167	1.0000				
rNMGYOT	11	0.7221	0.3954	0.8296	1.0000			
WSr	12	0.5601	0.0679	0.5748	0.4659	1.0000		
SEL7p	13	0.2559	-0.0966	0.2206	0.2213	0.0207	1.0000	
SEL8p	14	0.1587	-0.2067	0.0886	0.1273	-0.0281	0.7745	1.0000
SEL10p	15	0.1024	-0.0824	0.0864	0.0871	0.0959	0.4780	0.5846
STALKp	16	0.4159	-0.0969	0.3654	0.3578	-0.1680	0.4516	0.4583
BRIXp	17	0.0300	0.4468	0.1670	0.2637	-0.1051	0.3566	0.2786
HARDp	18	0.1466	-0.1045	0.1147	0.0502	0.0432	0.2943	0.2330
NMGp	19	0.3938	-0.0728	0.3588	0.3485	0.1339	0.8442	0.7816
SEL7r	20	0.6657	0.0474	0.6730	0.4948	0.4142	0.3487	0.2090
SEL8r	21	0.6173	0.0883	0.6394	0.4514	0.3925	0.2139	0.1023
SEL10r	22	0.5184	-0.0761	0.4858	0.3228	0.2425	0.2542	0.1597
STALKr	23	0.7017	-0.1780	0.6268	0.4440	-0.1876	0.2661	0.1995
BRIXr	24	0.2001	0.2861	0.2918	0.2795	0.2604	0.1004	-0.0004
HARDr	25	0.0702	-0.0817	0.0533	0.0347	-0.0556	0.0023	-0.0335
NMGr	26	0.7917	0.0407	0.7863	0.6034	0.4880	0.3282	0.1907
pSTvar	27	0.0033	-0.1336	-0.0437	-0.0803	-0.1688	0.1567	0.1455
pBRvar	28	-0.2612	-0.2824	-0.3244	-0.4439	-0.0393	-0.2668	-0.0866
pHARDvar	29	0.0786	-0.1557	0.0323	-0.0562	0.1378	0.0186	0.0441
pNMGvar	30	-0.2921	-0.1954	-0.3316	-0.2734	-0.1061	0.1576	0.2906
rSTvar	31	0.1480	-0.1989	0.0782	0.0629	-0.2015	0.2013	0.1548
rBRvar	32	-0.1249	-0.1010	-0.1379	-0.1773	0.0770	-0.0682	-0.1006
rHARDvar	33	-0.0104	-0.1775	-0.0639	-0.2054	0.0368	-0.0889	0.0319
rNMGvar	34	0.3840	-0.0772	0.3516	0.1645	0.2455	0.1951	0.1273

8 9 10 11 12 13 14

SEL10p	15	1.0000						
STALKp	16	0.3173	1.0000					
BRIXp	17	0.1184	0.1686	1.0000				
HARDp	18	0.0434	0.0797	0.2399	1.0000			
NMGp	19	0.6060	0.5486	0.4509	0.3154	1.0000		
SEL7r	20	0.1245	0.2764	0.1753	0.1660	0.3642	1.0000	
SEL8r	21	0.0398	0.1219	0.1574	0.1520	0.2256	0.7893	1.0000
SEL10r	22	0.0099	0.1755	0.0005	0.0590	0.2124	0.5442	0.6777
STALKr	23	0.0287	0.6346	0.1172	0.1266	0.3444	0.4373	0.3880
BRIXr	24	-0.0956	0.0259	0.3543	0.0064	0.0835	0.4363	0.5053
HARDr	25	-0.0399	0.0379	0.1855	0.5205	0.0876	-0.0117	0.0189
NMGr	26	0.0240	0.3093	0.1499	0.1190	0.3836	0.8766	0.8256
pSTvar	27	0.3282	0.4395	-0.1699	-0.0563	0.0744	0.0263	0.0252
pBRvar	28	-0.0536	-0.2663	-0.6880	-0.1468	-0.4082	-0.1890	-0.1639
pHARDvar	29	0.0135	0.1834	-0.2542	0.2582	-0.0214	0.2310	0.0876
pNMGvar	30	0.4837	-0.0331	-0.1866	-0.1344	0.0186	-0.2072	-0.2117
rSTvar	31	0.1697	0.2783	-0.0388	0.0880	0.1425	0.0900	0.1694
rBRvar	32	-0.0280	-0.2422	-0.2115	0.1029	-0.1620	-0.1239	-0.0354
rHARDvar	33	-0.1218	0.0015	-0.2764	0.1665	-0.0904	-0.1759	-0.1810
rNMGvar	34	0.1696	0.0848	-0.0207	0.0286	0.1892	0.4313	0.5818

15 16 17 18 19 20 21

Table 58a continued (6/12)

SEL10r	22	1.0000						
STALKr	23	0.3908	1.0000					
BRIXr	24	0.2500	0.0166	1.0000				
HARDr	25	-0.1004	0.1434	0.1739	1.0000			
NMGr	26	0.6747	0.5206	0.4883	0.0321	1.0000		
pSTvar	27	0.1989	0.1425	-0.1768	-0.1199	0.0341	1.0000	
pBRvar	28	-0.1199	-0.2834	-0.2085	-0.1812	-0.2833	0.0094	1.0000
pHARDvar	29	-0.0618	-0.0215	0.0192	0.1301	0.0879	0.1790	0.2742
pNMGvar	30	-0.0042	-0.2763	-0.2082	-0.0692	-0.2718	0.4338	0.3588
rSTvar	31	0.2430	0.3393	-0.1686	0.1397	0.0976	0.4731	-0.1159
rBRvar	32	-0.0172	-0.2232	-0.2137	-0.0810	-0.2117	-0.0935	0.2244
rHARDvar	33	-0.2305	-0.0328	-0.0841	0.1300	-0.1294	-0.0179	0.2809
rNMGvar	34	0.7362	0.2313	0.2239	-0.1460	0.5191	0.2618	-0.1209
		22	23	24	25	26	27	28
pHARDvar	29	1.0000						
pNMGvar	30	0.0214	1.0000					
rSTvar	31	0.0605	0.3092	1.0000				
rBRvar	32	0.0600	0.0756	-0.0772	1.0000			
rHARDvar	33	0.1443	-0.0315	-0.1457	0.1465	1.0000		
rNMGvar	34	-0.0385	0.1637	0.3907	0.0711	-0.2272	1.0000	
		29	30	31	32	33	34	

Table 58a continued (7/12)

The following analysis is for bunch seedlings

***** CORRELATION MATRIX *****

DF = 70

pFIBRE	1	1.0000						
pTCH	2	0.1076	1.0000					
pCCS	3	-0.3013	0.1068	1.0000				
pTSH	4	0.0045	0.9414	0.4324	1.0000			
pNMGYOT	5	-0.1891	0.8482	0.5576	0.9549	1.0000		
WSp	6	-0.0877	0.5343	0.1980	0.5475	0.5200	1.0000	
rFIBRE	7	0.7222	0.1526	-0.3749	0.0089	-0.1291	-0.0084	1.0000
rTCH	8	0.1736	0.5124	-0.2062	0.3885	0.2967	0.2328	0.1425
rCCS	9	-0.4246	0.0332	0.4579	0.1871	0.2918	0.0863	-0.4527
rTSH	10	0.0069	0.5356	-0.0316	0.4706	0.4154	0.2628	-0.0384
rNMGYOT	11	0.0231	0.3864	0.1995	0.4172	0.3139	0.1451	-0.1356
WSr	12	0.0031	0.2619	0.0390	0.2456	0.2292	0.5782	-0.0863
SEL7p	13	0.2619	0.6050	0.2275	0.6269	0.5315	0.1729	0.1737
SEL8p	14	0.0852	0.5040	0.3297	0.5737	0.5400	0.1267	-0.0882
SEL10p	15	0.1721	0.4381	0.2539	0.4911	0.4289	0.0920	-0.0597
STALKp	16	0.2108	0.4929	-0.0978	0.4166	0.3457	-0.4582	0.2123
BRIXp	17	0.0076	0.1138	0.7495	0.3533	0.4026	0.0925	-0.0896
HARDp	18	0.5210	0.2838	-0.1396	0.2110	0.0646	0.2053	0.5014
NMGp	19	0.2482	0.6301	0.2955	0.6779	0.5897	0.1114	0.0905
SEL7r	20	0.0250	0.3223	0.0493	0.3085	0.2849	0.3552	0.0521
SEL8r	21	-0.1049	0.4073	0.2693	0.4542	0.4638	0.3848	-0.0120
SEL10r	22	-0.0651	0.4237	0.1160	0.4112	0.3854	0.3743	-0.0112
STALKr	23	0.2079	0.3279	-0.2970	0.1959	0.1031	-0.2570	0.2697
BRIXr	24	-0.0566	-0.1366	0.4070	0.0072	0.0693	0.2322	-0.0350
HARDr	25	0.5820	0.0213	-0.1361	-0.0298	-0.1415	-0.0068	0.6377
NMGr	26	0.0088	0.4979	0.0551	0.4632	0.4240	0.4335	0.1097
pSTvar	27	-0.0510	0.0683	0.0418	0.0694	0.0904	-0.2138	0.0583
pBRvar	28	-0.1358	-0.0523	-0.3898	-0.1698	-0.1926	-0.1131	-0.1277
pHARDvar	29	0.0088	-0.0156	0.0640	0.0160	0.0471	0.0983	-0.0068
pNMGvar	30	-0.0636	-0.0013	0.1842	0.0623	0.1048	0.0588	-0.1335
rSTvar	31	-0.0292	0.2722	0.0063	0.2401	0.2476	-0.0129	0.0589
rBRvar	32	0.1086	-0.1354	-0.0128	-0.1225	-0.1336	-0.1315	-0.0030
rHARDvar	33	-0.1072	0.0921	-0.0928	0.0536	0.0906	0.2266	-0.0791
rNMGvar	34	-0.1221	0.2878	0.1256	0.2902	0.2997	0.3264	-0.1937

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Table 58a continued (8/12)

rTCH	8	1.0000							
rCCS	9	-0.2738	1.0000						
rTSH	10	0.9137	0.1357	1.0000					
rNMGYOT	11	0.6628	0.2735	0.8011	1.0000				
WSr	12	0.5473	-0.0891	0.5157	0.3194	1.0000			
SEL7p	13	0.2120	0.2003	0.3121	0.3664	0.0872	1.0000		
SEL8p	14	0.0829	0.2637	0.1983	0.2482	0.0811	0.8112	1.0000	
SEL10p	15	-0.0328	0.1870	0.0462	0.1053	0.0392	0.5196	0.7136	
STALKp	16	0.2889	-0.0624	0.2811	0.2346	-0.3161	0.4572	0.3984	
BRIXp	17	-0.1845	0.4493	-0.0050	0.2147	-0.1128	0.3881	0.3626	
HARDp	18	0.1100	-0.0659	0.0857	0.0877	0.1363	0.2831	0.2172	
NMGp	19	0.1227	0.2270	0.2299	0.3011	-0.0032	0.8948	0.8824	
SEL7r	20	0.3801	-0.0230	0.3917	0.1521	0.2986	0.1274	0.1213	
SEL8r	21	0.4143	0.0647	0.4594	0.2750	0.3206	0.2096	0.2130	
SEL10r	22	0.4108	-0.1602	0.3541	0.1825	0.2981	0.1322	0.1267	
STALKr	23	0.6586	-0.2366	0.5910	0.4653	-0.2543	0.1626	0.0218	
BRIXr	24	-0.0844	0.2045	-0.0152	-0.0268	0.2552	-0.0930	-0.1010	
HARDr	25	0.0503	-0.1653	-0.0223	0.0690	0.0280	0.0585	-0.0962	
NMGr	26	0.5783	-0.0573	0.5754	0.3102	0.3483	0.2195	0.1485	
pSTvar	27	-0.0925	-0.0925	-0.1391	-0.1909	-0.2104	-0.0121	0.1069	
pBRvar	28	-0.0620	0.0426	-0.0394	-0.1292	-0.0949	-0.1906	-0.0562	
pHARDvar	29	-0.1200	0.2537	-0.0177	-0.0347	0.0378	0.0985	0.2074	
pNMGvar	30	-0.1974	0.0667	-0.1830	-0.1983	0.0186	0.0202	0.2467	
rSTvar	31	0.2131	-0.2029	0.1234	-0.0054	-0.0586	0.0300	0.0983	
rBRvar	32	-0.2153	-0.1592	-0.2860	-0.1995	-0.2062	-0.1202	0.0082	
rHARDvar	33	0.0760	0.1454	0.1340	-0.0541	0.3147	-0.0330	0.0456	
rNMGvar	34	0.1025	-0.0305	0.0757	-0.0578	0.2687	0.1079	0.2422	
		8	9	10	11	12	13	14	
SEL10p	15	1.0000							
STALKp	16	0.3653	1.0000						
BRIXp	17	0.3314	0.0266	1.0000					
HARDp	18	0.2299	0.1151	0.0542	1.0000				
NMGp	19	0.7566	0.5431	0.4316	0.3281	1.0000			
SEL7r	20	0.2134	-0.0020	0.0540	0.1083	0.1578	1.0000		
SEL8r	21	0.2140	0.0644	0.1692	0.0879	0.2307	0.8573	1.0000	
SEL10r	22	0.2074	0.0763	-0.0103	0.0235	0.1235	0.4914	0.6185	
STALKr	23	-0.0827	0.6143	-0.1082	0.0177	0.1288	0.1667	0.1873	
BRIXr	24	-0.0277	-0.3611	0.3195	-0.1095	-0.1573	0.4014	0.3683	
HARDr	25	-0.0616	0.0486	0.0402	0.5894	0.0248	-0.0265	-0.0877	
NMGr	26	0.1530	0.0997	0.0316	0.0842	0.1926	0.8509	0.8468	
pSTvar	27	0.2225	0.3420	0.0217	0.0207	0.0288	0.1024	0.1382	
pBRvar	28	0.0528	0.0527	-0.5316	-0.0027	-0.1297	0.2006	-0.0012	
pHARDvar	29	0.1607	-0.1072	0.2047	0.2666	0.1238	-0.1048	-0.1299	
pNMGvar	30	0.4235	-0.0363	0.1480	-0.1098	0.1074	0.1368	0.1340	
rSTvar	31	0.2791	0.3009	0.0283	-0.1335	0.0818	0.2127	0.2153	
rBRvar	32	0.1338	-0.0031	0.0130	-0.0671	-0.0061	-0.2422	-0.1774	
rHARDvar	33	0.0080	-0.1502	-0.0851	0.0645	-0.0259	-0.0673	-0.1069	
rNMGvar	34	0.3641	-0.0454	0.0286	-0.0223	0.1567	0.2316	0.2686	
		15	16	17	18	19	20	21	

Table 58a continued (9/12)

SEL10r	22	1.0000						
STALKr	23	0.2019	1.0000					
BRIXr	24	0.2881	-0.3198	1.0000				
HARDr	25	-0.0444	0.0483	0.1799	1.0000			
NMGr	26	0.7273	0.3522	0.4103	0.0434	1.0000		
pSTvar	27	0.2121	0.1224	0.0797	-0.0332	0.0963	1.0000	
pBRvar	28	-0.0410	0.0049	-0.1007	-0.1000	0.1009	0.0685	1.0000
pHARDvar	29	-0.1336	-0.1425	-0.0138	0.1544	-0.0988	-0.0186	-0.0023
pNMGvar	30	0.1398	-0.2220	0.1341	-0.1698	0.0540	0.5341	0.0808
rSTvar	31	0.3754	0.3039	-0.0380	-0.1824	0.2500	0.4789	-0.0278
rBRvar	32	-0.0717	-0.0613	-0.2456	-0.1468	-0.2412	0.0724	0.0481
rHARDvar	33	-0.0278	-0.1841	0.0201	0.0380	-0.0220	-0.1970	0.0786
rNMGvar	34	0.6017	-0.1477	0.0926	-0.2836	0.2546	0.2266	-0.0048
		22	23	24	25	26	27	28
pHARDvar	29	1.0000						
pNMGvar	30	0.0029	1.0000					
rSTvar	31	0.0332	0.3012	1.0000				
rBRvar	32	0.1207	0.2314	0.0999	1.0000			
rHARDvar	33	0.3474	0.0147	-0.0998	-0.2247	1.0000		
rNMGvar	34	-0.0407	0.4029	0.5096	0.1381	0.0697	1.0000	
		29	30	31	32	33	34	

Table 58a continued (10/12)

The following analysis is for single seedlings

***** CORRELATION MATRIX *****

DF = 70

pFIBRE	1	1.0000							
pTCH	2	0.3355	1.0000						
pCCS	3	-0.1789	-0.1106	1.0000					
pTSH	4	0.2609	0.9291	0.2603	1.0000				
pNMGYOT	5	0.0720	0.7951	0.4307	0.9331	1.0000			
WSp	6	0.1215	0.5509	0.0398	0.5501	0.4884	1.0000		
rFIBRE	7	0.5453	0.1212	-0.2207	0.0375	-0.0354	-0.0088	1.0000	
rTCH	8	0.2273	0.5675	-0.2338	0.4722	0.3684	0.3831	-0.0116	
rCCS	9	-0.0309	-0.0919	0.6043	0.1413	0.2631	0.0875	-0.3009	
rTSH	10	0.2161	0.5335	-0.0248	0.5200	0.4588	0.4066	-0.1096	
rNMGYOT	11	0.1418	0.3443	0.2591	0.4396	0.3401	0.2550	-0.2574	
WSr	12	0.1298	0.2561	-0.0239	0.2396	0.2197	0.5492	-0.1473	
SEL7p	13	0.2661	0.3834	0.1024	0.4171	0.3529	0.2396	0.1194	
SEL8p	14	0.2477	0.3639	0.1392	0.4112	0.3419	0.1965	0.1308	
SEL10p	15	0.0913	0.2286	-0.0092	0.2262	0.1144	0.1848	-0.0974	
STALKp	16	0.2584	0.5159	-0.1336	0.4503	0.3664	-0.4219	0.1503	
BRIXp	17	0.2199	0.0184	0.6309	0.2542	0.3077	0.0442	0.0493	
HARDp	18	0.5588	0.1742	-0.0904	0.1316	0.0365	0.1164	0.4526	
NMGp	19	0.2498	0.4701	0.1101	0.5069	0.4200	0.2641	0.1289	
SEL7r	20	0.2881	0.3174	0.0004	0.3210	0.3212	0.3234	0.1431	
SEL8r	21	0.2606	0.4115	0.0154	0.4213	0.4039	0.3949	0.0995	
SEL10r	22	0.1222	0.3350	-0.0686	0.3128	0.3361	0.3579	0.0592	
STALKr	23	0.1592	0.4217	-0.2360	0.3316	0.2276	-0.0464	0.1153	
BRIXr	24	0.1597	-0.0830	0.5263	0.1123	0.2485	0.1401	0.1332	
HARDr	25	0.4795	0.0803	0.0170	0.0762	0.0320	0.0304	0.5854	
NMGr	26	0.2901	0.4237	0.0215	0.4296	0.4230	0.4211	0.1825	
pSTvar	27	0.0896	0.1611	0.0334	0.1834	0.1356	0.0123	-0.0866	
pBRvar	28	-0.1995	0.0010	-0.1778	-0.0562	-0.0104	-0.0016	0.1054	
pHARDvar	29	0.1119	-0.2489	-0.0856	-0.2762	-0.2499	-0.0849	0.3266	
pNMGvar	30	-0.1001	0.0191	0.1281	0.0707	0.0509	0.1065	-0.1273	
rSTvar	31	0.0721	0.1600	-0.1544	0.1086	0.0256	0.0335	0.0559	
rBRvar	32	0.0494	-0.1723	-0.0934	-0.1959	-0.2337	-0.1322	-0.0751	
rHARDvar	33	0.1986	-0.0793	-0.2115	-0.1578	-0.2082	0.0419	0.1398	
rNMGvar	34	0.1155	0.2814	-0.0453	0.2640	0.2079	0.3438	-0.0197	

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Table 58a continued (11/12)

rTCH	8	1.0000						
rCCS	9	-0.1257	1.0000					
rTSH	10	0.9443	0.2033	1.0000				
rNMGYOT	11	0.6817	0.3536	0.7917	1.0000			
WSr	12	0.5565	0.0897	0.5842	0.4210	1.0000		
SEL7p	13	0.1922	0.1207	0.2361	0.2679	0.1127	1.0000	
SEL8p	14	0.1041	0.1647	0.1639	0.2498	0.0979	0.7758	1.0000
SEL10p	15	0.1109	0.0664	0.1429	0.3069	0.2798	0.3143	0.5269
STALKp	16	0.2210	-0.1806	0.1634	0.1106	-0.2818	0.1771	0.1844
BRIXp	17	-0.1716	0.5059	0.0044	0.2060	-0.1016	0.2958	0.3562
HARDp	18	0.0211	-0.0415	0.0057	-0.0890	0.0598	0.2009	0.1497
NMGp	19	0.2730	0.1935	0.3388	0.3855	0.1132	0.8097	0.8303
SEL7r	20	0.6499	0.1686	0.6987	0.4176	0.4120	0.3069	0.1774
SEL8r	21	0.6674	0.1166	0.7005	0.4210	0.4225	0.3094	0.2206
SEL10r	22	0.5077	0.0776	0.5328	0.1554	0.3317	0.1038	-0.0284
STALKr	23	0.6596	-0.2112	0.5736	0.4245	-0.2496	0.1129	0.0334
BRIXr	24	-0.0800	0.4660	0.0816	0.0060	0.1617	0.0451	0.0945
HARDr	25	-0.0505	0.0014	-0.0505	-0.0476	-0.0867	0.3282	0.2761
NMGr	26	0.6798	0.1495	0.7226	0.3896	0.4287	0.3085	0.1825
pSTvar	27	0.1132	0.0565	0.1366	0.1609	0.0728	0.1269	0.1703
pBRvar	28	-0.0130	-0.1182	-0.0467	-0.1572	0.1085	-0.0717	-0.1369
pHARDvar	29	-0.2006	0.0201	-0.1877	-0.3369	0.0336	-0.0930	-0.1309
pNMGvar	30	-0.1244	0.0096	-0.1071	0.0988	0.1455	0.0233	0.3114
rSTvar	31	0.2414	-0.1618	0.1754	0.1287	-0.1537	0.0669	0.1077
rBRvar	32	-0.1533	0.0704	-0.1326	-0.0750	0.0327	-0.2393	-0.1842
rHARDvar	33	-0.1218	-0.0758	-0.1389	-0.2631	-0.0100	-0.1183	-0.1583
rNMGvar	34	0.1632	0.1116	0.2051	0.1299	0.2588	-0.0481	-0.0441
		8	9	10	11	12	13	14
SEL10p	15	1.0000						
STALKp	16	0.0337	1.0000					
BRIXp	17	0.0140	-0.0118	1.0000				
HARDp	18	-0.0650	0.0860	0.2880	1.0000			
NMGp	19	0.5659	0.2365	0.3402	0.1242	1.0000		
SEL7r	20	0.0382	0.0256	0.0304	0.1136	0.2736	1.0000	
SEL8r	21	0.0856	0.0473	0.0441	0.0724	0.2840	0.8327	1.0000
SEL10r	22	-0.0754	-0.0047	-0.0276	0.0547	0.0725	0.5983	0.7087
STALKr	23	-0.1334	0.5023	-0.1002	-0.0256	0.2052	0.3906	0.3983
BRIXr	24	-0.1152	-0.2139	0.4811	0.1563	0.0115	0.3716	0.3121
HARDr	25	-0.0067	0.0734	0.3051	0.5559	0.2718	0.1917	0.0849
NMGr	26	-0.0174	0.0379	0.0493	0.1012	0.2721	0.9066	0.8896
pSTvar	27	0.2248	0.1552	0.0446	-0.1077	0.0898	0.1364	0.1882
pBRvar	28	0.0021	-0.0056	-0.4418	-0.0433	-0.1274	0.0302	0.0441
pHARDvar	29	-0.1641	-0.1702	-0.0352	0.2211	-0.1548	0.1151	0.0212
pNMGvar	30	0.5054	-0.1202	0.0303	-0.1093	0.1133	-0.1336	-0.0241
rSTvar	31	-0.0382	0.1397	-0.0884	-0.0006	0.1043	0.0115	0.1633
rBRvar	32	-0.0516	-0.0427	0.0775	0.0737	-0.1663	-0.2079	-0.1932
rHARDvar	33	-0.1782	-0.1144	0.0016	0.2734	-0.3043	-0.0183	-0.0315
rNMGvar	34	0.1580	-0.0526	-0.0505	0.0342	-0.1322	0.2061	0.3873
		15	16	17	18	19	20	21

Table 58a continued (12/12)

SEL10r	22	1.0000						
STALKr	23	0.2678	1.0000					
BRIXr	24	0.2056	-0.2266	1.0000				
HARDr	25	-0.0554	0.0342	0.3228	1.0000			
NMGr	26	0.7290	0.4059	0.4513	0.2020	1.0000		
pSTvar	27	0.1121	0.0618	0.0954	-0.1664	0.1455	1.0000	
pBRvar	28	0.0323	-0.1163	-0.1589	-0.1475	0.0035	-0.0884	1.0000
pHARDvar	29	-0.0049	-0.2723	0.3466	0.1973	0.0755	-0.1041	0.3683
pNMGvar	30	-0.1253	-0.2707	0.0251	-0.0682	-0.0833	0.4550	0.1052
rSTvar	31	-0.0208	0.4453	-0.1276	-0.1125	0.0608	0.3634	-0.0762
rBRvar	32	-0.0711	-0.1986	-0.1977	-0.2358	-0.2552	-0.0694	-0.0786
rHARDvar	33	0.0172	-0.1614	0.1517	0.1182	0.0050	-0.0315	-0.0548
rNMGvar	34	0.4793	-0.0537	0.0287	-0.2001	0.2939	0.2648	0.0567
		22	23	24	25	26	27	28
pHARDvar	29	1.0000						
pNMGvar	30	-0.0638	1.0000					
rSTvar	31	-0.2156	0.1165	1.0000				
rBRvar	32	0.0229	-0.0388	-0.0655	1.0000			
rHARDvar	33	0.2615	-0.0458	0.0442	0.0839	1.0000		
rNMGvar	34	-0.0521	0.3517	0.0739	0.2422	0.2583	1.0000	
		29	30	31	32	33	34	

Table 58b. Correlation matrix on a plot basis for Re+Be+Se, followed by separate matrices for Re, Be and Se types.

The following analysis is for Random + bunch + single

DF = 214

pFIBRE	1	1.0000						
pTCH	2	0.1904	1.0000					
pCCS	3	-0.2435	0.0410	1.0000				
pTSH	4	0.0943	0.9395	0.3767	1.0000			
pNMGYOT	5	-0.0733	0.8349	0.5233	0.9524	1.0000		
rFIBRE	6	0.6376	0.1770	-0.2978	0.0613	-0.0483	1.0000	
rTCH	7	0.2065	0.5912	-0.1531	0.4918	0.3949	0.1336	1.0000
rCCS	8	-0.2251	-0.0530	0.5730	0.1472	0.2613	-0.3678	-0.1637
rTSH	9	0.1284	0.5690	0.0454	0.5405	0.4826	0.0076	0.9351
rNMGYOT	10	0.0634	0.4250	0.2788	0.4867	0.3946	-0.1212	0.7002
prFIBRE	11	0.8954	0.2026	-0.3004	0.0851	-0.0665	0.9139	0.1860
prTCH	12	0.2232	0.8565	-0.0784	0.7639	0.6519	0.1702	0.9227
prCCS	13	-0.2641	-0.0076	0.8831	0.2934	0.4401	-0.3758	-0.1787
prTSH	14	0.1281	0.8438	0.2269	0.8584	0.7979	0.0371	0.8302
prNMGYOT	15	-0.0053	0.7526	0.4792	0.8597	0.8325	-0.1018	0.6570
SEL7p	16	0.2478	0.5381	0.1779	0.5646	0.5013	0.1724	0.2602
SEL8p	17	0.1451	0.4819	0.2294	0.5316	0.4919	0.0576	0.1372
NMGp	18	0.2503	0.6205	0.2281	0.6588	0.5896	0.1609	0.2941
SEL7r	19	0.1702	0.3744	0.0944	0.3799	0.3619	0.1268	0.5670
SEL8r	20	0.0907	0.4441	0.1835	0.4757	0.4701	0.0865	0.5758
NMGr	21	0.1796	0.5051	0.1108	0.5038	0.4747	0.1630	0.6908
WSpr	22	0.0362	0.5096	0.0498	0.4892	0.4418	-0.0259	0.4808
SEL7pr	23	0.1534	0.5416	0.2637	0.5921	0.5705	0.0592	0.4956
SEL8pr	24	0.1248	0.6021	0.2337	0.6429	0.6141	0.1155	0.4253
SEL10pr	25	0.1498	0.3976	0.1233	0.4187	0.3799	0.0380	0.2419
STALKSpr	26	0.2397	0.4365	-0.1537	0.3496	0.2671	0.2430	0.5506
BRIXpr	27	0.1200	0.0002	0.6899	0.2314	0.3192	0.0325	-0.0909
HARDpr	28	0.5989	0.1934	-0.1021	0.1388	0.0318	0.6117	0.0850
NMGpr	29	0.2653	0.6881	0.2007	0.7086	0.6496	0.2022	0.6176
prSTvar	30	0.0325	0.1660	-0.0396	0.1379	0.1132	0.0692	0.1037
prBRvar	31	-0.0228	-0.1135	-0.3427	-0.2109	-0.2469	0.0125	-0.1782
prHARDva	32	0.0520	-0.0224	-0.2385	-0.1016	-0.1094	0.1279	-0.0341
prNMGvar	33	-0.0501	0.1184	0.0781	0.1368	0.1417	-0.0413	-0.0593
		1	2	3	4	5	6	7

Table 58b continued (2/12)

rCCS	8	1.0000						
rTSH	9	0.1901	1.0000					
rNMGYOT	10	0.3406	0.8182	1.0000				
prFIBRE	11	-0.3312	0.0720	-0.0367	1.0000			
prTCH	12	-0.1301	0.8705	0.6513	0.2159	1.0000		
prCCS	13	0.8905	0.1340	0.3497	-0.3564	-0.1180	1.0000	
prTSH	14	0.1938	0.8956	0.7563	0.0889	0.9347	0.2369	1.0000
prNMGYOT	15	0.3607	0.7803	0.8376	-0.0617	0.7803	0.4725	0.9304
SEL7p	16	0.1177	0.3080	0.3322	0.2303	0.4238	0.1662	0.4863
SEL8p	17	0.1244	0.1869	0.2387	0.1098	0.3182	0.1985	0.3951
NMGp	18	0.1424	0.3497	0.3785	0.2248	0.4849	0.2082	0.5616
SEL7r	19	0.0730	0.5983	0.3712	0.1629	0.5419	0.0942	0.5657
SEL8r	20	0.0966	0.6150	0.4036	0.0978	0.5809	0.1571	0.6265
NMGr	21	0.0608	0.7119	0.4623	0.1889	0.6836	0.0963	0.7005
WSpr	22	0.0061	0.4806	0.3292	0.0041	0.5513	0.0311	0.5517
SEL7pr	23	0.1582	0.5570	0.4510	0.1151	0.5761	0.2369	0.6527
SEL8pr	24	0.0734	0.4583	0.3598	0.1325	0.5600	0.1718	0.6195
SEL10pr	25	0.0795	0.2729	0.1841	0.1009	0.3449	0.1140	0.3878
STALKSpr	26	-0.1646	0.4917	0.3864	0.2667	0.5611	-0.1796	0.4846
BRIXpr	27	0.4935	0.0838	0.1732	0.0820	-0.0581	0.6655	0.1734
HARDpr	28	-0.0658	0.0608	0.0479	0.6691	0.1469	-0.0943	0.1105
NMGpr	29	0.1195	0.6633	0.5132	0.2566	0.7242	0.1798	0.7791
prSTvar	30	-0.0817	0.0691	0.0401	0.0571	0.1457	-0.0688	0.1151
prBRvar	31	-0.1908	-0.2327	-0.2644	-0.0048	-0.1683	-0.2994	-0.2534
prHARDva	32	-0.0524	-0.0493	-0.2085	0.1013	-0.0325	-0.1624	-0.0838
prNMGvar	33	-0.0003	-0.0576	-0.0536	-0.0503	0.0186	0.0432	0.0372
		8	9	10	11	12	13	14
prNMGYOT	15	1.0000						
SEL7p	16	0.4984	1.0000					
SEL8p	17	0.4364	0.7949	1.0000				
NMGp	18	0.5788	0.8621	0.8382	1.0000			
SEL7r	19	0.4390	0.2753	0.1821	0.2835	1.0000		
SEL8r	20	0.5228	0.2751	0.2040	0.2770	0.8327	1.0000	
NMGr	21	0.5610	0.3158	0.1951	0.3160	0.8801	0.8581	1.0000
WSpr	22	0.4612	0.1926	0.1445	0.1947	0.3640	0.4193	0.4297
SEL7pr	23	0.6112	0.6748	0.5790	0.6465	0.7406	0.7207	0.7492
SEL8pr	24	0.5821	0.6322	0.6233	0.6837	0.6036	0.6683	0.6435
SEL10pr	25	0.3369	0.3102	0.4071	0.4431	0.3638	0.4040	0.4113
STALKSpr	26	0.3918	0.2752	0.2155	0.3424	0.2639	0.2434	0.3430
BRIXpr	27	0.2942	0.2117	0.2012	0.2196	0.2755	0.2850	0.2912
HARDpr	28	0.0478	0.2389	0.1484	0.2348	0.1162	0.0765	0.1292
NMGpr	29	0.6956	0.7052	0.6149	0.7829	0.7435	0.7263	0.8358
prSTvar	30	0.0915	0.0858	0.1365	0.0902	0.0894	0.1606	0.1179
prBRvar	31	-0.3062	-0.2021	-0.1178	-0.2100	-0.1697	-0.1609	-0.2256
prHARDva	32	-0.1908	-0.0463	-0.0330	-0.1129	-0.0048	-0.0753	-0.0079
prNMGvar	33	0.0520	0.0607	0.2093	0.0770	0.0683	0.1373	0.0688
		15	16	17	18	19	20	21

Table 58b continued (3/12)

WSpr	22	1.0000						
SEL7pr	23	0.3414	1.0000					
SEL8pr	24	0.3249	0.7705	1.0000				
SEL10pr	25	0.2026	0.3498	0.5104	1.0000			
STALKSpr	26	-0.3656	0.3018	0.2941	0.1783	1.0000		
BRIXpr	27	0.0337	0.3563	0.2777	0.1370	-0.0840	1.0000	
HARDpr	28	0.1012	0.1418	0.1214	0.0327	0.0865	0.2100	1.0000
NMGpr	29	0.4018	0.8650	0.8176	0.5258	0.4135	0.3209	0.2235
prSTvar	30	-0.1381	0.0690	0.2168	0.3449	0.3121	0.0000	-0.0530
prBRvar	31	-0.0565	-0.2445	-0.1660	-0.0104	-0.1286	-0.4050	-0.0919
prHARDva	32	0.1264	-0.0239	-0.0802	-0.1269	-0.1493	-0.0946	0.1906
prNMGvar	33	0.0913	0.0650	0.2955	0.6036	-0.0719	0.0425	-0.1316
		22	23	24	25	26	27	28
NMGpr	29	1.0000						
prSTvar	30	0.1282	1.0000					
prBRvar	31	-0.2624	-0.0347	1.0000				
prHARDva	32	-0.0701	-0.1090	0.2282	1.0000			
prNMGvar	33	0.0902	0.4282	0.1680	-0.0359	1.0000		
		29	30	31	32	33		

Table 58b continued (4/12)

The following analysis is for random seedlings

***** CORRELATION MATRIX *****

DF = 70

pFIBRE	1	1.0000							
pTCH	2	0.2121	1.0000						
pCCS	3	-0.2703	0.0866	1.0000					
pTSH	4	0.0933	0.9386	0.4211	1.0000				
pNMGYOT	5	-0.0403	0.8249	0.5848	0.9543	1.0000			
rFIBRE	6	0.6279	0.2989	-0.3371	0.1551	0.0317	1.0000		
rTCH	7	0.2646	0.6104	-0.0506	0.5310	0.4275	0.3019	1.0000	
rCCS	8	-0.2033	-0.1388	0.6337	0.0891	0.2109	-0.4265	-0.0938	1.0000
rTSH	9	0.2020	0.5510	0.1462	0.5453	0.4812	0.1750	0.9498	0.9498
rNMGYOT	10	0.0345	0.4445	0.3632	0.5194	0.4337	0.0071	0.7221	0.7221
prFIBRE	11	0.8879	0.2863	-0.3389	0.1399	-0.0021	0.9156	0.3152	0.3152
prTCH	12	0.2690	0.8663	0.0098	0.7867	0.6667	0.3343	0.9245	0.9245
prCCS	13	-0.2632	-0.0248	0.9102	0.2881	0.4468	-0.4208	-0.0791	-0.0791
prTSH	14	0.1718	0.8328	0.3126	0.8620	0.7989	0.1884	0.8570	0.8570
prNMGYOT	15	-0.0022	0.7432	0.5561	0.8629	0.8371	0.0225	0.6837	0.6837
SEL7p	16	0.2210	0.5167	0.1278	0.5230	0.4882	0.2371	0.2559	0.2559
SEL8p	17	0.1311	0.5326	0.1226	0.5346	0.4935	0.1684	0.1587	0.1587
NMGp	18	0.2707	0.6620	0.2036	0.6760	0.6311	0.2821	0.3938	0.3938
SEL7r	19	0.2338	0.4333	0.2058	0.4612	0.4366	0.1909	0.6657	0.6657
SEL8r	20	0.1674	0.4485	0.2306	0.4891	0.4781	0.1864	0.6173	0.6173
NMGr	21	0.2629	0.5356	0.2155	0.5580	0.5211	0.1988	0.7917	0.7917
WSpr	22	0.0793	0.4538	0.0391	0.4316	0.3609	0.0991	0.3562	0.3562
SEL7pr	23	0.1850	0.5747	0.2302	0.5977	0.5657	0.1370	0.5450	0.5450
SEL8pr	24	0.1886	0.6297	0.2086	0.6476	0.6299	0.2347	0.4988	0.4988
SEL10pr	25	0.1133	0.3677	0.1149	0.3776	0.3676	0.2116	0.3810	0.3810
STALKSpr	26	0.2584	0.4769	-0.0695	0.4017	0.3319	0.2873	0.6339	0.6339
BRIXpr	27	0.1695	0.1462	0.6612	0.3570	0.4475	0.0172	0.1080	0.1080
HARDpr	28	0.5851	0.2232	-0.1560	0.1390	0.0435	0.6121	0.1234	0.1234
NMGpr	29	0.3371	0.7146	0.2435	0.7348	0.6829	0.2950	0.7160	0.7160
prSTvar	30	0.0281	0.2113	-0.1989	0.1168	0.0700	0.1345	0.0865	0.0865
prBRvar	31	-0.0190	-0.0799	-0.4230	-0.2054	-0.2583	0.0534	-0.1615	-0.1615
prHARDva	32	0.1537	0.0233	-0.3859	-0.1120	-0.1685	0.1930	0.0734	0.0734
prNMGvar	33	-0.0952	0.2451	0.0318	0.2376	0.2476	0.1202	0.1036	0.1036

1 2 3 4 5 6 7

Table 58b continued (5/12)

rCCS	8	1.0000							
rTSH	9	0.2167	1.0000						
rNMGYOT	10	0.3954	0.8296	1.0000					
prFIBRE	11	-0.3572	0.2078	0.0220	1.0000				
prTCH	12	-0.1260	0.8642	0.6694	0.3366	1.0000			
prCCS	13	0.8972	0.1995	0.4191	-0.3847	-0.0619	1.0000		
prTSH	14	0.1784	0.8949	0.7781	0.2001	0.9413	0.2740	1.0000	
prNMGYOT	15	0.3611	0.7798	0.8560	0.0122	0.7889	0.5108	0.9308	
SEL7p	16	-0.0966	0.2206	0.2213	0.2544	0.4101	0.0213	0.4117	
SEL8p	17	-0.2067	0.0886	0.1273	0.1673	0.3564	-0.0407	0.3382	
NMGp	18	-0.0728	0.3588	0.3485	0.3066	0.5670	0.0773	0.5768	
SEL7r	19	0.0474	0.6730	0.4948	0.2337	0.6284	0.1429	0.6524	
SEL8r	20	0.0883	0.6394	0.4514	0.1967	0.6052	0.1789	0.6469	
NMGr	21	0.0407	0.7863	0.6034	0.2534	0.7571	0.1448	0.7725	
WSpr	22	0.0043	0.3626	0.2530	0.0996	0.4430	0.0246	0.4490	
SEL7pr	23	-0.0365	0.5176	0.4659	0.1766	0.6203	0.1119	0.6311	
SEL8pr	24	-0.1272	0.4461	0.3469	0.2362	0.6176	0.0510	0.6145	
SEL10pr	25	-0.0079	0.3735	0.2721	0.1836	0.4173	0.0613	0.4268	
STALKSpr	26	-0.1670	0.5612	0.4410	0.3033	0.6293	-0.1291	0.5531	
BRIXpr	27	0.4400	0.2474	0.3043	0.0978	0.1385	0.6131	0.3396	
HARDpr	28	-0.1085	0.0950	0.0475	0.6642	0.1852	-0.1472	0.1314	
NMGpr	29	-0.0249	0.6920	0.5672	0.3486	0.7955	0.1257	0.8096	
prSTvar	30	-0.1745	0.0225	0.0073	0.0940	0.1563	-0.2070	0.0758	
prBRvar	31	-0.2918	-0.2305	-0.3277	0.0217	-0.1403	-0.3977	-0.2488	
prHARDva	32	-0.2393	0.0012	-0.1748	0.1935	0.0575	-0.3485	-0.0589	
prNMGvar	33	-0.1076	0.0711	0.0220	0.0219	0.1833	-0.0395	0.1694	

8 9 10 11 12 13 14

prNMGYOT	15	1.0000							
SEL7p	16	0.4145	1.0000						
SEL8p	17	0.3605	0.7745	1.0000					
NMGp	18	0.5737	0.8442	0.7816	1.0000				
SEL7r	19	0.5509	0.3487	0.2090	0.3642	1.0000			
SEL8r	20	0.5484	0.2139	0.1023	0.2256	0.7893	1.0000		
NMGr	21	0.6654	0.3282	0.1907	0.3836	0.8766	0.8256	1.0000	
WSpr	22	0.3607	0.0343	0.0355	0.1153	0.2924	0.3679	0.3413	
SEL7pr	23	0.6075	0.7246	0.5828	0.6715	0.7314	0.5914	0.7190	
SEL8pr	24	0.5721	0.6337	0.6376	0.7164	0.5561	0.5871	0.6296	
SEL10pr	25	0.3761	0.2921	0.2492	0.3499	0.3765	0.4141	0.4751	
STALKSpr	26	0.4582	0.3867	0.3510	0.4796	0.4040	0.3012	0.4677	
BRIXpr	27	0.4416	0.2871	0.1855	0.3323	0.3468	0.3794	0.3519	
HARDpr	28	0.0538	0.1656	0.1097	0.2280	0.0862	0.0977	0.0854	
NMGpr	29	0.7362	0.6903	0.5713	0.8077	0.7682	0.6613	0.8507	
prSTvar	30	0.0446	0.1986	0.1725	0.1314	0.0449	0.1073	0.0700	
prBRvar	31	-0.3472	-0.1660	-0.0768	-0.2686	-0.2310	-0.1840	-0.2886	
prHARDva	32	-0.2028	-0.0615	0.0097	-0.1165	0.0719	-0.0193	-0.0004	
prNMGvar	33	0.1554	0.2726	0.3199	0.2059	0.1589	0.2297	0.1919	

15 16 17 18 19 20 21

Table 58b continued (6/12)

WSpr	22	1.0000						
SEL7pr	23	0.1821	1.0000					
SEL8pr	24	0.1906	0.7234	1.0000				
SEL10pr	25	0.0854	0.2805	0.4988	1.0000			
STALKSpr	26	-0.3985	0.4573	0.4578	0.3594	1.0000		
BRIXpr	27	0.0696	0.3598	0.2796	0.1586	0.0903	1.0000	
HARDpr	28	0.0988	0.1259	0.0389	0.0119	0.1404	0.2242	1.0000
NMGpr	29	0.3037	0.8349	0.8066	0.5050	0.5508	0.4224	0.1966
prSTvar	30	-0.1968	0.1457	0.2856	0.4863	0.3285	-0.1873	0.0413
prBRvar	31	0.1081	-0.2644	-0.2124	-0.1604	-0.2194	-0.4891	-0.0691
prHARDva	32	0.0512	-0.0133	-0.0611	-0.1625	0.0317	-0.2960	0.2016
prNMGvar	33	0.0987	0.2484	0.4651	0.7120	0.0893	-0.0307	-0.1357
		22	23	24	25	26	27	28
NMGpr	29	1.0000						
prSTvar	30	0.1137	1.0000					
prBRvar	31	-0.3215	-0.0439	1.0000				
prHARDva	32	-0.0686	-0.0182	0.4325	1.0000			
prNMGvar	33	0.2410	0.5513	0.0852	-0.0397	1.0000		
		29	30	31	32	33		

Table 58b continued (7/12)
 The following analysis is for bunch seedlings

***** CORRELATION MATRIX *****

DF = 70

pFIBRE	1	1.0000						
pTCH	2	0.1076	1.0000					
pCCS	3	-0.3013	0.1068	1.0000				
pTSH	4	0.0045	0.9414	0.4324	1.0000			
pNMGYOT	5	-0.1891	0.8482	0.5576	0.9549	1.0000		
rFIBRE	6	0.7222	0.1526	-0.3749	0.0089	-0.1291	1.0000	
rTCH	7	0.1736	0.5124	-0.2062	0.3885	0.2967	0.1425	1.0000
rCCS	8	-0.4246	0.0332	0.4579	0.1871	0.2918	-0.4527	-0.2738
rTSH	9	0.0069	0.5356	-0.0316	0.4706	0.4154	-0.0384	0.9137
rNMGYOT	10	0.0231	0.3864	0.1995	0.4172	0.3139	-0.1356	0.6628
prFIBRE	11	0.9290	0.1400	-0.3640	0.0072	-0.1717	0.9269	0.1704
prTCH	12	0.1661	0.8310	-0.0803	0.7214	0.6154	0.1684	0.9036
prCCS	13	-0.4260	0.0815	0.8499	0.3610	0.4956	-0.4852	-0.2816
prTSH	14	0.0067	0.8593	0.2315	0.8549	0.7964	-0.0174	0.7618
prNMGYOT	15	-0.1099	0.7774	0.4794	0.8648	0.8342	-0.1629	0.5784
SEL7p	16	0.2619	0.6050	0.2275	0.6269	0.5315	0.1737	0.2120
SEL8p	17	0.0852	0.5040	0.3297	0.5737	0.5400	-0.0882	0.0829
NMGp	18	0.2482	0.6301	0.2955	0.6779	0.5897	0.0905	0.1227
SEL7r	19	0.0250	0.3223	0.0493	0.3085	0.2849	0.0521	0.3801
SEL8r	20	-0.1049	0.4073	0.2693	0.4542	0.4638	-0.0120	0.4143
NMGr	21	0.0088	0.4979	0.0551	0.4632	0.4240	0.1097	0.5783
WSpr	22	-0.0459	0.4591	0.1430	0.4599	0.4364	-0.0607	0.4203
SEL7pr	23	0.0278	0.5502	0.3725	0.6246	0.6178	-0.0077	0.3238
SEL8pr	24	0.0409	0.6654	0.3182	0.7107	0.6621	0.0024	0.3150
SEL10pr	25	0.1689	0.3972	0.2307	0.4449	0.3885	-0.0722	0.0730
STALKSpr	26	0.2302	0.4372	-0.2390	0.3161	0.2247	0.2749	0.5646
BRIXpr	27	-0.0300	-0.0126	0.7140	0.2239	0.2927	-0.0768	-0.1662
HARDpr	28	0.6174	0.1752	-0.1544	0.1055	-0.0394	0.6370	0.0907
NMGpr	29	0.1689	0.7308	0.2327	0.7415	0.6599	0.1303	0.4437
prSTvar	30	-0.0500	0.1500	0.0594	0.1446	0.1646	0.0666	0.0481
prBRvar	31	0.0451	-0.1182	-0.2694	-0.1931	-0.2319	-0.0250	-0.2104
prHARDva	32	-0.0537	-0.0093	-0.1245	-0.0495	-0.0198	-0.0012	-0.0319
prNMGvar	33	-0.0936	0.1592	0.2032	0.2030	0.2306	-0.1522	-0.0944

1 2 3 4 5 6 7

Table 58b continued (8/12)

rCCS	8	1.0000						
rTSH	9	0.1357	1.0000					
rNMGYOT	10	0.2735	0.8011	1.0000				
prFIBRE	11	-0.4726	-0.0168	-0.0600	1.0000			
prTCH	12	-0.1608	0.8592	0.6222	0.1803	1.0000		
prCCS	13	0.8576	0.0622	0.2776	-0.4907	-0.1418	1.0000	
prTSH	14	0.1879	0.8600	0.7122	-0.0057	0.9223	0.2453	1.0000
prNMGYOT	15	0.3491	0.7361	0.7855	-0.1468	0.7626	0.4843	0.9329
SEL7p	16	0.2003	0.3121	0.3664	0.2351	0.4392	0.2504	0.5460
SEL8p	17	0.2637	0.1983	0.2482	-0.0010	0.3051	0.3470	0.4484
NMGp	18	0.2270	0.2299	0.3011	0.1831	0.3939	0.3055	0.5272
SEL7r	19	-0.0230	0.3917	0.1521	0.0415	0.4070	0.0149	0.4087
SEL8r	20	0.0647	0.4594	0.2750	-0.0634	0.4716	0.1941	0.5327
NMGr	21	-0.0573	0.5754	0.3102	0.0635	0.6231	-0.0021	0.6061
WSpr	22	0.0050	0.4211	0.2490	-0.0574	0.5013	0.0857	0.5135
SEL7pr	23	0.2047	0.4268	0.3123	0.0110	0.4843	0.3368	0.6122
SEL8pr	24	0.1096	0.3797	0.3022	0.0235	0.5361	0.2491	0.6342
SEL10pr	25	0.0533	0.0943	0.0825	0.0530	0.2455	0.1651	0.3127
STALKSpr	26	-0.1846	0.5165	0.4073	0.2720	0.5839	-0.2476	0.4864
BRIXpr	27	0.4038	-0.0125	0.1163	-0.0574	-0.1139	0.6524	0.1222
HARDpr	28	-0.1281	0.0373	0.0870	0.6758	0.1462	-0.1653	0.0829
NMGpr	29	0.1152	0.5133	0.3893	0.1614	0.6521	0.2029	0.7305
prSTvar	30	-0.1398	-0.0218	-0.1010	0.0085	0.1060	-0.0485	0.0708
prBRvar	31	-0.1161	-0.2606	-0.2122	0.0111	-0.1953	-0.2247	-0.2649
prHARDva	32	0.1556	0.0296	-0.1178	-0.0298	-0.0253	0.0203	-0.0113
prNMGvar	33	0.0353	-0.0995	-0.1571	-0.1322	0.0183	0.1384	0.0589

8 9 10 11 12 13 14

prNMGYOT	15	1.0000						
SEL7p	16	0.5593	1.0000					
SEL8p	17	0.4961	0.8112	1.0000				
NMGp	18	0.5593	0.8948	0.8824	1.0000			
SEL7r	19	0.2741	0.1274	0.1213	0.1578	1.0000		
SEL8r	20	0.4621	0.2096	0.2130	0.2307	0.8573	1.0000	
NMGr	21	0.4566	0.2195	0.1485	0.1926	0.8509	0.8468	1.0000
WSpr	22	0.4291	0.1679	0.1440	0.0874	0.3511	0.3797	0.4168
SEL7pr	23	0.5841	0.6501	0.6282	0.6336	0.6512	0.7481	0.6734
SEL8pr	24	0.6072	0.6385	0.6508	0.7228	0.6070	0.6877	0.6186
SEL10pr	25	0.3012	0.3838	0.5456	0.5653	0.3077	0.3280	0.3023
STALKSpr	26	0.3831	0.3129	0.1957	0.3282	0.1168	0.1590	0.2787
BRIXpr	27	0.2583	0.1846	0.1642	0.1723	0.2792	0.3305	0.2697
HARDpr	28	0.0248	0.1954	0.0736	0.2028	0.0498	0.0044	0.0725
NMGpr	29	0.6563	0.7340	0.6833	0.7862	0.6459	0.6906	0.7561
prSTvar	30	0.0486	-0.0202	0.0875	0.0293	0.1697	0.1848	0.1907
prBRvar	31	-0.2744	-0.1979	-0.0593	-0.0896	-0.0780	-0.1530	-0.1479
prHARDva	32	-0.0813	0.0091	0.0673	-0.0105	-0.1204	-0.2009	-0.0924
prNMGvar	33	0.0591	0.1004	0.2681	0.1660	0.1539	0.1826	0.1083

15 16 17 18 19 20 21

Table 58b continued (9/12)

WSpr	22	1.0000						
SEL7pr	23	0.3222	1.0000					
SEL8pr	24	0.2554	0.8012	1.0000				
SEL10pr	25	0.1816	0.3454	0.5636	1.0000			
STALKSpr	26	-0.3935	0.2173	0.3319	0.0711	1.0000		
BRIXpr	27	0.1581	0.4068	0.2597	0.1638	-0.2627	1.0000	
HARDpr	28	0.1170	0.0467	0.0602	0.0536	0.0642	0.0545	1.0000
NMGpr	29	0.3214	0.8494	0.8716	0.5625	0.3927	0.2862	0.1795
prSTvar	30	-0.1337	0.0357	0.2600	0.3476	0.2686	0.1021	-0.0812
prBRvar	31	-0.2326	-0.1943	-0.1268	0.1159	0.0042	-0.3407	-0.0593
prHARDva	32	0.2224	0.0001	-0.1250	-0.1065	-0.2184	-0.0154	0.1415
prNMGvar	33	0.2092	0.0864	0.3004	0.6751	-0.1743	0.1284	-0.1134

22 23 24 25 26 27 28

NMGpr	29	1.0000						
prSTvar	30	0.1397	1.0000					
prBRvar	31	-0.1547	0.0652	1.0000				
prHARDva	32	-0.0608	-0.1249	0.0348	1.0000			
prNMGvar	33	0.1765	0.5491	0.1889	-0.0201	1.0000		

29 30 31 32 33

Table 58b continued (10/12)

The following analysis is for single seedlings

***** CORRELATION MATRIX *****

DF = 70

pFIBRE	1	1.0000						
pTCH	2	0.3355	1.0000					
pCCS	3	-0.1789	-0.1106	1.0000				
pTSH	4	0.2609	0.9291	0.2603	1.0000			
pNMGYOT	5	0.0720	0.7951	0.4307	0.9331	1.0000		
rFIBRE	6	0.5453	0.1212	-0.2207	0.0375	-0.0354	1.0000	
rTCH	7	0.2273	0.5675	-0.2338	0.4722	0.3684	-0.0116	1.0000
rCCS	8	-0.0309	-0.0919	0.6043	0.1413	0.2631	-0.3009	-0.1257
rTSH	9	0.2161	0.5335	-0.0248	0.5200	0.4588	-0.1096	0.9443
rNMGYOT	10	0.1418	0.3443	0.2591	0.4396	0.3401	-0.2574	0.6817
prFIBRE	11	0.8545	0.2484	-0.2292	0.1580	0.0153	0.9014	0.1102
prTCH	12	0.3049	0.8356	-0.2066	0.7396	0.6091	0.0476	0.9265
prCCS	13	-0.1127	-0.1124	0.8836	0.2206	0.3822	-0.2935	-0.1974
prTSH	14	0.2683	0.7986	0.1080	0.8235	0.7508	-0.0548	0.8530
prNMGYOT	15	0.1342	0.6700	0.4111	0.8099	0.7809	-0.1906	0.6572
SEL7p	16	0.2661	0.3834	0.1024	0.4171	0.3529	0.1194	0.1922
SEL8p	17	0.2477	0.3639	0.1392	0.4112	0.3419	0.1308	0.1041
NMGp	18	0.2498	0.4701	0.1101	0.5069	0.4200	0.1289	0.2730
SEL7r	19	0.2881	0.3174	0.0004	0.3210	0.3212	0.1431	0.6499
SEL8r	20	0.2606	0.4115	0.0154	0.4213	0.4039	0.0995	0.6674
NMGr	21	0.2901	0.4237	0.0215	0.4296	0.4230	0.1825	0.6798
WSpr	22	0.1498	0.4443	0.0135	0.4361	0.3929	-0.0898	0.5180
SEL7pr	23	0.2775	0.4533	0.1329	0.4966	0.4568	0.0527	0.5791
SEL8pr	24	0.1705	0.4664	0.1184	0.5125	0.4892	0.1256	0.4273
SEL10pr	25	0.1646	0.4451	-0.0395	0.4343	0.3835	0.0138	0.3422
STALKSpr	26	0.2239	0.5214	-0.2259	0.4290	0.3188	0.1465	0.5666
BRIXpr	27	0.2218	-0.0368	0.6700	0.2127	0.3240	0.1097	-0.1416
HARDpr	28	0.5910	0.1478	-0.0418	0.1213	0.0416	0.5888	-0.0131
NMGpr	29	0.3377	0.5486	0.0718	0.5717	0.5230	0.1976	0.6364
prSTvar	30	0.1051	0.2242	-0.0667	0.2064	0.1304	-0.0005	0.2235
prBRvar	31	-0.0855	-0.0846	-0.2514	-0.1635	-0.1746	0.0256	-0.1147
prHARDva	32	0.0942	-0.2324	-0.1925	-0.3033	-0.2976	0.2270	-0.2768
prNMGvar	33	0.0697	0.1786	0.0665	0.2048	0.1626	-0.0845	-0.0019

1 2 3 4 5 6 7

Table 58b continued (11/12)

rCCS	8	1.0000						
rTSH	9	0.2033	1.0000					
rNMGYOT	10	0.3536	0.7917	1.0000				
prFIBRE	11	-0.2024	0.0438	-0.0862	1.0000			
prTCH	12	-0.1259	0.8738	0.6121	0.1871	1.0000		
prCCS	13	0.9071	0.1064	0.3447	-0.2401	-0.1831	1.0000	
prTSH	14	0.2026	0.9128	0.7360	0.1046	0.9340	0.1761	1.0000
prNMGYOT	15	0.3809	0.7805	0.8530	-0.0488	0.7447	0.4411	0.9056
SEL7p	16	0.1207	0.2361	0.2679	0.2115	0.3034	0.1250	0.3562
SEL8p	17	0.1647	0.1639	0.2498	0.2090	0.2358	0.1704	0.3055
NMGp	18	0.1935	0.3388	0.3855	0.2089	0.3970	0.1719	0.4674
SEL7r	19	0.1686	0.6987	0.4176	0.2375	0.5787	0.0993	0.6176
SEL8r	20	0.1166	0.7005	0.4210	0.1963	0.6333	0.0767	0.6667
NMGr	21	0.1495	0.7226	0.3896	0.2629	0.6472	0.0992	0.6853
WSpr	22	0.1034	0.5492	0.3763	0.0218	0.5486	0.0679	0.5733
SEL7pr	23	0.2116	0.6471	0.4995	0.1760	0.5935	0.1946	0.6672
SEL8pr	24	0.1521	0.4830	0.3560	0.1659	0.4982	0.1520	0.5658
SEL10pr	25	0.2376	0.4221	0.2249	0.0936	0.4317	0.1188	0.4880
STALKSpr	26	-0.2281	0.4805	0.3511	0.2064	0.6163	-0.2534	0.5242
BRIXpr	27	0.5609	0.0535	0.1206	0.1826	-0.1113	0.6837	0.1372
HARDpr	28	-0.0260	-0.0226	-0.0755	0.6702	0.0588	-0.0373	0.0430
NMGpr	29	0.2123	0.7023	0.4817	0.2969	0.6753	0.1627	0.7398
prSTvar	30	-0.0433	0.2022	0.1963	0.0540	0.2516	-0.0607	0.2330
prBRvar	31	-0.0460	-0.1253	-0.1529	-0.0283	-0.1152	-0.1598	-0.1614
prHARDva	32	-0.0833	-0.2969	-0.4594	0.1893	-0.2909	-0.1507	-0.3422
prNMGvar	33	0.1699	0.0650	0.1743	-0.0164	0.0804	0.1350	0.1411

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prNMGYOT	15	1.0000						
SEL7p	16	0.3738	1.0000					
SEL8p	17	0.3557	0.7758	1.0000				
NMGp	18	0.4891	0.8097	0.8303	1.0000			
SEL7r	19	0.4556	0.3069	0.1774	0.2736	1.0000		
SEL8r	20	0.5038	0.3094	0.2206	0.2840	0.8327	1.0000	
NMGr	21	0.4936	0.3085	0.1825	0.2721	0.9066	0.8896	1.0000
WSpr	22	0.4680	0.1971	0.1711	0.2109	0.4040	0.4471	0.4655
SEL7pr	23	0.5854	0.6192	0.4857	0.5936	0.8137	0.7673	0.8144
SEL8pr	24	0.5080	0.5805	0.5479	0.5653	0.6099	0.6869	0.6522
SEL10pr	25	0.3622	0.2084	0.3266	0.3545	0.4361	0.5101	0.5083
STALKSpr	26	0.4102	0.1562	0.1023	0.2476	0.2908	0.3055	0.3070
BRIXpr	27	0.2599	0.1962	0.2585	0.2002	0.2423	0.2141	0.3012
HARDpr	28	-0.0270	0.3028	0.2429	0.2267	0.1745	0.0911	0.1736
NMGpr	29	0.6102	0.6368	0.5563	0.7082	0.8044	0.7973	0.8718
prSTvar	30	0.2028	0.1111	0.1600	0.1351	0.0626	0.1996	0.1152
prBRvar	31	-0.1985	-0.1603	-0.1660	-0.1723	-0.1298	-0.0846	-0.1452
prHARDva	32	-0.4703	-0.1794	-0.2754	-0.3686	0.0034	-0.0507	0.0119
prNMGvar	33	0.2060	0.0224	0.1829	0.0519	0.0173	0.1600	0.0790

15 16 17 18 19 20 21

Table 58b continued (12/12)

WSpr	22	1.0000							
SEL7pr	23	0.4296	1.0000						
SEL8pr	24	0.4802	0.7538	1.0000					
SEL10pr	25	0.3665	0.4352	0.4610	1.0000				
STALKSpr	26	-0.3140	0.2701	0.1052	0.1321	1.0000			
BRIXpr	27	0.0879	0.3427	0.3204	0.1278	-0.1917	1.0000		
HARDpr	28	0.0403	0.2014	0.2157	0.0114	0.0460	0.3525	1.0000	
NMGpr	29	0.4508	0.8992	0.7670	0.5569	0.3478	0.3233	0.2413	
prSTvar	30	-0.0342	0.0409	0.1381	0.2623	0.3223	-0.0220	-0.1224	
prBRvar	31	-0.0283	-0.2018	-0.0813	0.0462	-0.1090	-0.3391	-0.0947	
prHARDva	32	-0.0505	-0.1152	-0.0961	-0.1466	-0.2931	0.1205	0.2436	
prNMGvar	33	0.2621	0.0536	0.3105	0.4936	-0.1730	0.0619	-0.0763	
		22	23	24	25	26	27	28	
NMGpr	29	1.0000							
prSTvar	30	0.1535	1.0000						
prBRvar	31	-0.1921	-0.0715	1.0000					
prHARDva	32	-0.1795	-0.1601	0.1633	1.0000				
prNMGvar	33	0.0870	0.2699	0.1529	0.0112	1.0000			
		29	30	31	32	33			

Correlation is significantly different from zero if > 0.138 (5%), 0.181 (1%).

p = plant crop

r = ratoon crop

pr = (p + r)/2 where p and r are plot values for harvest characters and clone values for selection characters.

NMG = visual net merit grade

SEL7 = number of selections graded 7+

SEL8 = number of selections graded 8+

SEL10 = number of selections graded 10+

ST = number of stalks

WS = weight per stalk

var = within plot variance

BRvar = within plot variance for BRIX

HARDva = within plot variance for hardness

Table 59. Trial Te, Genotypic, phenotypic and environmental correlations for Re type, 24 families.

Character & crop		Plots rP	Means (df = 22)		
X	Y		rG	rP	rE
Kg/stalkP vs	stalkP	-.558	-.578 ± .331	-.562 ± .048	-.569 ± .100
Kg/stalkR vs	stalkR	-.188	-.365 ± .273	-.270 ± .064	-.065 ± .147
Kg/stalkPR vs	stalkPR	-.399	-.434 ± .251	-.421 ± .057	-.396 ± .124
Kg/stalkP vs	tchP	.410	.618 ± .275	.475 ± .054	.293 ± .135
Kg/stalkR vs	tchR	.560	.292 ± .294	.444 ± .056	.696 ± .076
Kg/stalkPR vs	tchPR	.443	.460 ± .245	.438 ± .056	.395 ± .124
tchP vs	stalkP	.481	.315 ± .411	.433 ± .056	.555 ± .102
tchR vs	stalkR	.702	.778 ± .127	.737 ± .032	.664 ± .082
tchPR vs	stalkPR	.633	.597 ± .199	.622 ± .043	.669 ± .081
tchP vs	ccsP	.087	.320 ± .321	.192 ± .067	-.014 ± .147
tchR vs	ccsR	-.094	.171 ± 1.180	-.049 ± .069	-.146 ± .144
tchP vs	tshP	.939	.936 ± .041	.937 ± .008	.946 ± .015
tchR vs	tshR	.950	.991 ± .017	.967 ± .005	.923 ± .022
tchP vs	nmgyotP	.825	.837 ± .097	.843 ± .020	.867 ± .036
tchR vs	nmgyotR	.722	.888 ± .100	.830 ± .022	.759 ± .063
tshP vs	ccsP	.421	.634 ± .218	.520 ± .051	.304 ± .134
tshR vs	ccsR	.217	.322 ± 1.125	.204 ± .067	.238 ± .139
tshP vs	nmgyotP	.954	.975 ± .015	.975 ± .003	.977 ± .007
tshR vs	nmgyotR	.830	.943 ± .045	.929 ± .010	.924 ± .022
nmgyotP vs	ccsP	.585	.790 ± .150	.682 ± .037	.464 ± .116
nmgyotR vs	ccsR	.395	.708 ± 1.442	.451 ± .055	.481 ± .113
tchP vs	tchR	.610	.788 ± .171	.675 ± .038	.503 ± .110
ccsP vs	ccsR	.634	2.620 ± 5.916	.851 ± .019	.533 ± .106
tshP vs	tshR	.545	.800 ± .167	.652 ± .040	.378 ± .126
nmgyotP vs	nmgyotR	.434	.887 ± .184	.658 ± .039	.322 ± .132
fibreP vs	fibreR	.628	1.043 ± .093	.830 ± .022	.321 ± .132
stalkP vs	stalkR	.635	.832 ± .216	.684 ± .037	.649 ± .085
brixP vs	brixR	.354	-.023 ± .388	.206 ± .067	.505 ± .110
hardnessP vs	hardnessR	.520	.950 ± .133	.730 ± .032	.278 ± .136
visualnmgP vs	visualnmgR	.384	.573 ± .225	.467 ± .054	.244 ± .139
sel7P vs	sel7R	.349	.319 ± .300	.332 ± .062	.383 ± .126
sel8P vs	sel8R	.102	.057 ± .389	.087 ± .069	.125 ± .145
sel10P vs	sel10R	.010	1.688 ± 3.389	.165 ± .068	-.062 ± .147

Table 59 continued (2/3)

Character & crop		Plots rP	Means (df = 22)		
X	Y		rG	rP	rE
sel8P	vs visualnmgP	.782	.978 ± .098	.848 ± .020	.705 ± .074
sel8R	vs visualnmgR	.826	1.074 ± .060	.934 ± .009	.674 ± .081
sel8PR	vs visualnmgPR	.807	1.067 ± .111	.891 ± .014	.736 ± .068
sel8P	vs hardnessP	.233	.432 ± .317	.311 ± .063	.153 ± .144
sel8R	vs hardnessR	.019	.155 ± .331	.073 ± .069	-.062 ± .147
sel8PR	vs hardnessPR	.039	-.048 ± .355	-.005 ± .070	.061 ± .147
sel8R	vs brixR	.505	.857 ± .180	.652 ± .040	.333 ± .131
sel8PR	vs brixPR	.280	.725 ± .385	.405 ± .058	.134 ± .145
sel8P	vs stalkP	.458	.530 ± .400	.470 ± .054	.434 ± .120
sel8R	vs stalkR	.388	.423 ± .250	.402 ± .058	.378 ± .126
sel8PR	vs stalkPR	.458	.619 ± .272	.515 ± .051	.413 ± .122
sel8P	vs nmgvarP	.---	.--- ± .---	.--- ± .---	.--- ± .---
sel8R	vs nmgvarR	.582	.630 ± .356	.578 ± .046	.606 ± .093
sel8PR	vs nmgvarPR	.---	.--- ± .---	.--- ± .---	.--- ± .---
sel8P	vs tchP	.533	.746 ± .230	.616 ± .043	.476 ± .114
sel8R	vs tchR	.617	.940 ± .128	.758 ± .030	.462 ± .116
sel8PR	vs tchP	.630	1.082 ± .165	.804 ± .025	.527 ± .106
sel8PR	vs tchR	.499	1.022 ± .214	.697 ± .036	.339 ± .130
sel8PR	vs tchPR	.618	1.104 ± .169	.809 ± .024	.486 ± .113
sel8P	vs ccsP	.123	.286 ± .359	.164 ± .068	.005 ± .147
sel8R	vs ccsR	.088	.950 ± 2.429	.194 ± .067	.006 ± .147
sel8PR	vs ccsP	.209	.289 ± .363	.221 ± .066	.147 ± .144
sel8PR	vs ccsR	-.127	.669 ± 2.264	-.025 ± .069	-.196 ± .142
sel8PR	vs ccsPR	.051	.295 ± .430	.120 ± .068	-.048 ± .147
sel8P	vs tshP	.535	.730 ± .222	.604 ± .044	.461 ± .116
sel8R	vs tshR	.639	.988 ± .115	.792 ± .026	.468 ± .115
sel8PR	vs tshP	.648	.996 ± .153	.780 ± .027	.554 ± .102
sel8PR	vs tshR	.446	1.037 ± .236	.670 ± .038	.255 ± .138
sel8PR	vs tshPR	.614	1.073 ± .168	.794 ± .026	.475 ± .114
sel8P	vs nmgyotP	.494	.669 ± .239	.557 ± .048	.428 ± .120
sel8R	vs nmgyotR	.451	.887 ± .186	.673 ± .038	.396 ± .124

Table 59 continued (3/3)

Character & crop		Plots rP	Means (df = 22)			
X	Y		rG	rP	rE	
sel8PR	vs	nmgyotP	.630	.883 ± .174	.715 ± .034	.542 ± .104
sel8PR	vs	nmgyotR	.347	1.037 ± .295	.607 ± .044	.198 ± .142
sel8PR	vs	nmgyotPR	.572	.976 ± .178	.730 ± .032	.455 ± .117
visnmgP	vs	nmgyotP	.631	.816 ± .142	.712 ± .034	.519 ± .108
visnmgR	vs	nmgyotR	.603	.894 ± .125	.762 ± .029	.577 ± .098
visnmgPR	vs	nmgyotP	.683	.830 ± .113	.753 ± .030	.566 ± .100
visnmgPR	vs	nmgyotR	.567	.929 ± .137	.744 ± .031	.458 ± .116
visnmgPR	vs	nmgyotPR	.736	.897 ± .081	.822 ± .023	.630 ± .089
stalkP	vs	nmgyotP	.389	.191 ± .407	.314 ± .063	.483 ± .113
stalkR	vs	nmgyotR	.444	.687 ± .198	.594 ± .045	.469 ± .115
stalkPR	vs	nmgyotP	.332	-.033 ± .318	.170 ± .067	.580 ± .098
stalkPR	vs	nmgyotR	.441	.764 ± .207	.605 ± .044	.383 ± .126
stalkPR	vs	nmgyotPR	.458	.315 ± .266	.404 ± .058	.592 ± .096
brixP	vs	ccsP	.610	.659 ± .211	.628 ± .042	.604 ± .094
brixR	vs	ccsR	.286	1.063 ± 2.408	.366 ± .060	.251 ± .138
brixPR	vs	ccsP	.661	.827 ± .168	.715 ± .034	.598 ± .095
brixPR	vs	ccsR	.440	1.381 ± 2.883	.528 ± .050	.403 ± .124
brixPR	vs	ccsPR	.613	.762 ± .220	.660 ± .039	.559 ± .101
hardnessP	vs	fibreP	.519	.593 ± .195	.557 ± .048	.471 ± .115
hardnessR	vs	fibreR	.607	.695 ± .174	.633 ± .042	.508 ± .109
hardnessPR	vs	fibreP	.585	.697 ± .155	.642 ± .041	.493 ± .112
hardnessPR	vs	fibreR	.612	.631 ± .171	.617 ± .043	.582 ± .097
hardnessPR	vs	fibrePR	.664	.656 ± .149	.657 ± .039	.664 ± .082

For Plots, df = 70, correlations significantly > 0 at .232 (P.05) or .302 (P.01)

For Means, df = 22, t = r/se is significant at 2.074 (P.05) or 2.819 (P.01)

Table 60. Trial Te, Genotypic, phenotypic and environmental correlations for MEAN vs VARIANCE

Character	Type	Crop	F'	Means (df = 22)			
				Plots rP	rG	rP	rE
Visual NMG	Be	P	*	.107	.258 ± .340	.168 ± .068	.040 ± .147
Visual NMG	Re+Be+Se	P		.049	-.117 ± .390	-.005 ± .040	.065 ± .084
Visual NMG	Re	R		.519	.797 ± .356	.574 ± .047	.516 ± .108
Visual NMG	Be	R		.255	.587 ± .324	.365 ± .060	.105 ± .146
Visual NMG	Se	R	*	.294	.178 ± .322	.243 ± .065	.408 ± .123
Visual NMG	Re+Be+Se	R	**	.304	.292 ± .193	.288 ± .036	.335 ± .074
Visual NMG	Be	PR		.176	.719 ± .334	.377 ± .060	-.079 ± .147
Visual NMG	Se	PR		.087	.185 ± .411	.127 ± .068	.106 ± .146
Visual NMG	Re+Be+Se	PR	*	.090	.115 ± .234	.094 ± .039	.099 ± .083
BRIX	Re	P		-.688	-3.343 ± 42.174	-.747 ± .031	-.682 ± .079
BRIX	Be	P		-.532	-1.218 ± 13.527	-.483 ± .053	-.542 ± .104
BRIX	Re+Be+Se	P		-.547	-1.610 ± 5.907	-.550 ± .028	-.549 ± .059
BRIX	Be	R		-.246	-.379 ± .423	-.283 ± .064	-.314 ± .133
BRIX	Be	PR		-.341	-.174 ± .565	-.290 ± .064	-.449 ± .118
BRIX	Se	PR		-.339	-.649 ± .500	-.394 ± .059	-.292 ± .135
BRIX	Re+Be+Se	PR		-.405	-1.194 ± 5.191	-.387 ± .034	-.432 ± .068
Hardness	Re	P	*	.258	.660 ± .276	.417 ± .057	.049 ± .147
Hardness	Be	P		.267	.919 ± .163	.386 ± .059	.240 ± .139
Hardness	Se	P	**	.221	.285 ± .303	.238 ± .066	.161 ± .144
Hardness	Re+Be+Se	P	**	.260	.536 ± .179	.363 ± .034	.139 ± .082
Hardness	Re	R	*	.130	.370 ± .320	.269 ± .064	.123 ± .145
Hardness	Be	R		.038	.301 ± .331	.226 ± .066	.148 ± .144
Hardness	Se	R		.118	.152 ± .435	.158 ± .068	.203 ± .141
Hardness	Re+Be+Se	R	**	.085	.266 ± .204	.198 ± .038	.120 ± .083
Hardness	Re	PR	*	.202	.725 ± .278	.433 ± .056	-.021 ± .147
Hardness	Be	PR	**	.142	.310 ± .281	.254 ± .065	.155 ± .144
Hardness	Se	PR		.244	.260 ± .360	.240 ± .065	.270 ± .137
Hardness	Re+Be+Se	PR	**	.191	.442 ± .174	.307 ± .036	.101 ± .083
No. of stalks	Be	R		.304	.611 ± .295	.422 ± .057	.244 ± .139
No. of stalks	Be	PR		.269	.657 ± .504	.359 ± .061	.214 ± .141

For 1 type (Re, Be or Se):

Plots, df = 70, r is significantly > 0 at .232 (P.05) or .302 (P.01)

Means, df = 22, t = r/se is significant at 2.074 (P.05) or 2.819 (P.01)

For Re+Be+Se:

Plots, df = 214, r is significantly > 0 at .138 (P.05) or .181 (P.01)

Means, df = 70, t = r/se is significant at 1.994 (P.05) or 2.648 (P.01)

Correlations could not be computed if variance ratios were less than 1.0 for mean or variance.

Significant F values for the RCB analysis of within-family variance are shown as * or **. A blank space shows F was not significant

Table 61. Trial Te, Genotypic, phenotypic and environmental correlations for Re, Be and Se types. RBS = Re+Be+Se = 72 families. The crop (P = P, R or PR) is included in the name of the character.

Character & crop		Type	Plots	Means			
X	Y		rP	rG	rP	rE	
Kg/stalkP	vs	stalkP	Re	-.558	-.578 ± .331	-.562 ± .048	-.569 ± .100
Kg/stalkP	vs	stalkP	Be	-.458	-.380 ± .258	-.421 ± .057	-.510 ± .109
Kg/stalkP	vs	stalkP	Se	-.422	-.570 ± .227	-.488 ± .053	-.351 ± .129
Kg/stalkP	vs	stalkP	RBS	-.485	-.488 ± .151	-.484 ± .030	-.489 ± .064
Kg/stalkR	vs	stalkR	Re	-.188	-.365 ± .273	-.270 ± .064	-.065 ± .147
Kg/stalkR	vs	stalkR	Be	-.254	-.772 ± .431	-.405 ± .058	-.090 ± .146
Kg/stalkR	vs	stalkR	Se	-.250	-.437 ± .232	-.347 ± .061	-.099 ± .146
Kg/stalkR	vs	stalkR	RBS	-.230	-.413 ± .144	-.320 ± .035	-.089 ± .083
Kg/stalkPR	vs	stalkPR	Re	-.399	-.434 ± .251	-.421 ± .057	-.396 ± .124
Kg/stalkPR	vs	stalkPR	Be	-.395	-.521 ± .232	-.448 ± .056	-.326 ± .132
Kg/stalkPR	vs	stalkPR	Se	-.314	-.471 ± .216	-.401 ± .058	-.183 ± .142
Kg/stalkPR	vs	stalkPR	RBS	-.366	-.437 ± .131	-.405 ± .033	-.310 ± .076
Kg/stalkP	vs	tchP	Re	.410	.618 ± .275	.475 ± .054	.293 ± .135
Kg/stalkP	vs	tchP	Be	.534	.462 ± .232	.501 ± .052	.595 ± .095
Kg/stalkP	vs	tchP	Se	.551	.601 ± .223	.565 ± .047	.525 ± .107
Kg/stalkP	vs	tchP	RBS	.540	.636 ± .112	.581 ± .026	.464 ± .066
Kg/stalkR	vs	tchR	Re	.560	.292 ± .294	.444 ± .056	.696 ± .076
Kg/stalkR	vs	tchR	Be	.547	-.470 ± .823	.269 ± .064	.789 ± .056
Kg/stalkR	vs	tchR	Se	.557	-.182 ± .294	.384 ± .059	.803 ± .052
Kg/stalkR	vs	tchR	RBS	.591	.297 ± .164	.462 ± .031	.766 ± .035
Kg/stalkPR	vs	tchPR	Re	.443	.460 ± .245	.438 ± .056	.395 ± .124
Kg/stalkPR	vs	tchPR	Be	.501	.188 ± .317	.368 ± .060	.672 ± .081
Kg/stalkPR	vs	tchPR	Se	.549	.298 ± .260	.427 ± .057	.723 ± .070
Kg/stalkPR	vs	tchPR	RBS	.551	.480 ± .124	.514 ± .029	.603 ± .053
tchP	vs	stalkP	Re	.481	.315 ± .411	.433 ± .056	.555 ± .102
tchP	vs	stalkP	Be	.493	.645 ± .183	.567 ± .047	.364 ± .128
tchP	vs	stalkP	Se	.516	.316 ± .322	.439 ± .056	.601 ± .094
tchP	vs	stalkP	RBS	.449	.367 ± .168	.416 ± .033	.506 ± .062
tchR	vs	stalkR	Re	.702	.778 ± .127	.737 ± .032	.664 ± .082
tchR	vs	stalkR	Be	.659	.922 ± .119	.764 ± .029	.521 ± .107
tchR	vs	stalkR	Se	.660	.805 ± .109	.729 ± .033	.498 ± .111
tchR	vs	stalkR	RBS	.638	.742 ± .079	.683 ± .021	.552 ± .058
tchPR	vs	stalkPR	Re	.633	.597 ± .199	.622 ± .043	.669 ± .081
tchPR	vs	stalkPR	Be	.584	.737 ± .146	.658 ± .039	.457 ± .117
tchPR	vs	stalkPR	Se	.616	.701 ± .145	.653 ± .040	.538 ± .105
tchPR	vs	stalkPR	RBS	.562	.574 ± .108	.567 ± .027	.552 ± .058

Table 61 continued (2/8)

Character & crop		Type	Plots	Means		rP	rE
X	Y		rP	rG			
tchP	vs	ccsP	Re .087	.320 ± .321	.192 ± .067	-.014 ± .147	
tchP	vs	ccsP	Be .107	-.041 ± .274	.039 ± .069	-.273 ± .136	
tchP	vs	ccsP	Se -.111	-.123 ± .316	-.084 ± .069	-.016 ± .147	
tchP	vs	ccsP	RBS .041	.031 ± .168	.051 ± .039	.098 ± .083	
tchR	vs	ccsR	Re -.094	.171 ± 1.180	-.049 ± .069	-.146 ± .144	
tchR	vs	ccsR	Be -.274	-.108 ± .355	-.225 ± .066	-.390 ± .125	
tchR	vs	ccsR	Se -.126	.031 ± .294	-.066 ± .069	-.294 ± .135	
tchR	vs	ccsR	RBS -.164	-.016 ± .195	-.110 ± .039	-.269 ± .078	
tchP	vs	tshP	Re .939	.936 ± .041	.937 ± .008	.946 ± .015	
tchP	vs	tshP	Be .941	.941 ± .031	.945 ± .007	.956 ± .013	
tchP	vs	tshP	Se .929	.901 ± .062	.926 ± .010	.959 ± .012	
tchP	vs	tshP	RBS .939	.937 ± .020	.942 ± .004	.953 ± .008	
tchR	vs	tshR	Re .950	.991 ± .017	.967 ± .005	.923 ± .022	
tchR	vs	tshR	Be .914	.919 ± .057	.915 ± .011	.917 ± .024	
tchR	vs	tshR	Se .944	.950 ± .028	.945 ± .007	.938 ± .018	
tchR	vs	tshR	RBS .935	.952 ± .018	.942 ± .004	.923 ± .013	
tchP	vs	nmgyotP	Re .825	.837 ± .097	.843 ± .020	.867 ± .036	
tchP	vs	nmgyotP	Be .848	.841 ± .078	.862 ± .018	.917 ± .023	
tchP	vs	nmgyotP	Se .795	.747 ± .145	.814 ± .024	.904 ± .027	
tchP	vs	nmgyotP	RBS .835	.838 ± .049	.856 ± .011	.896 ± .017	
tchR	vs	nmgyotR	Re .722	.888 ± .100	.830 ± .022	.759 ± .063	
tchR	vs	nmgyotR	Be .663	.671 ± .181	.701 ± .035	.762 ± .062	
tchR	vs	nmgyotR	Se .682	.820 ± .106	.790 ± .026	.726 ± .070	
tchR	vs	nmgyotR	RBS .700	.802 ± .067	.784 ± .015	.747 ± .037	
tshP	vs	ccsP	Re .421	.634 ± .218	.520 ± .051	.304 ± .134	
tshP	vs	ccsP	Be .432	.299 ± .248	.361 ± .060	.536 ± .105	
tshP	vs	ccsP	Se .260	.320 ± .282	.295 ± .063	.261 ± .137	
tshP	vs	ccsP	RBS .377	.378 ± .143	.380 ± .034	.388 ± .071	
tshR	vs	ccsR	Re .217	.322 ± 1.125	.204 ± .067	.238 ± .139	
tshR	vs	ccsR	Be .136	.294 ± .322	.183 ± .067	.004 ± .147	
tshR	vs	ccsR	Se .203	.341 ± .259	.260 ± .065	.047 ± .147	
tshR	vs	ccsR	RBS .190	.290 ± .177	.225 ± .038	.113 ± .083	
tshP	vs	nmgyotP	Re .954	.975 ± .015	.975 ± .003	.977 ± .007	
tshP	vs	nmgyotP	Be .955	.975 ± .013	.978 ± .003	.986 ± .004	
tshP	vs	nmgyotP	Se .933	.961 ± .025	.969 ± .004	.982 ± .005	
tshP	vs	nmgyotP	RBS .952	.976 ± .008	.977 ± .002	.981 ± .003	

Table 61 continued (3/8)

Character & crop		Type	Plots	Means		rP	rE
X	Y		rP	rG			
tshR	vs	nmgyotR	Re	.830	.943 ± .045	.929 ± .010	.924 ± .022
tshR	vs	nmgyotR	Be	.801	.882 ± .067	.896 ± .014	.925 ± .021
tshR	vs	nmgyotR	Se	.792	.963 ± .033	.931 ± .009	.865 ± .037
tshR	vs	nmgyotR	RBS	.818	.936 ± .024	.925 ± .006	.905 ± .015
nmgyotP	vs	ccsP	Re	.585	.790 ± .150	.682 ± .037	.464 ± .116
nmgyotP	vs	ccsP	Be	.558	.506 ± .202	.534 ± .050	.615 ± .092
nmgyotP	vs	ccsP	Se	.431	.564 ± .222	.500 ± .052	.386 ± .125
nmgyotP	vs	ccsP	RBS	.523	.570 ± .114	.551 ± .028	.506 ± .062
nmgyotR	vs	ccsR	Re	.395	.708 ± 1.442	.451 ± .055	.481 ± .113
nmgyotR	vs	ccsR	Be	.274	.609 ± .240	.466 ± .054	.212 ± .141
nmgyotR	vs	ccsR	Se	.354	.623 ± .212	.512 ± .051	.280 ± .136
nmgyotR	vs	ccsR	RBS	.341	.557 ± .146	.472 ± .031	.336 ± .074
sel8P	vs	visualnmgP	Re	.782	.978 ± .098	.848 ± .020	.705 ± .074
sel8P	vs	visualnmgP	Be	.882	.958 ± .046	.915 ± .011	.851 ± .041
sel8P	vs	visualnmgP	Se	.830	1.416 ± .564	.940 ± .008	.757 ± .063
sel8R	vs	visualnmgR	Re	.826	1.074 ± .060	.934 ± .009	.674 ± .081
sel8R	vs	visualnmgR	Be	.847	1.056 ± .062	.931 ± .009	.757 ± .063
sel8R	vs	visualnmgR	Se	.890	1.093 ± .071	.963 ± .005	.816 ± .049
sel8PR	vs	visualnmgPR	Re	.807	1.067 ± .111	.891 ± .014	.736 ± .068
sel8PR	vs	visualnmgPR	Be	.872	1.049 ± .043	.950 ± .007	.766 ± .061
sel8PR	vs	visualnmgPR	Se	.767	.985 ± .076	.860 ± .018	.669 ± .081
sel8PR	vs	visualnmgPR	RBS	.818	1.014 ± .035	.900 ± .008	.722 ± .040
sel8P	vs	hardnessP	Re	.233	.432 ± .317	.311 ± .063	.153 ± .144
sel8P	vs	hardnessP	Be	.217	.344 ± .287	.280 ± .064	.167 ± .143
sel8P	vs	hardnessP	Se	.150	.223 ± .496	.194 ± .067	.223 ± .140
sel8R	vs	hardnessR	Re	.019	.155 ± .331	.073 ± .069	-.062 ± .147
sel8R	vs	hardnessR	Be	-.088	.141 ± .309	.021 ± .069	-.244 ± .139
sel8R	vs	hardnessR	Se	.085	.461 ± .309	.245 ± .065	-.127 ± .145
sel8PR	vs	hardnessPR	Re	.039	-.048 ± .355	-.005 ± .070	.061 ± .147
sel8PR	vs	hardnessPR	Be	.060	.117 ± .287	.086 ± .069	.014 ± .147
sel8PR	vs	hardnessPR	Se	.216	.396 ± .274	.294 ± .064	.092 ± .146
sel8PR	vs	hardnessPR	RBS	.121	.203 ± .173	.157 ± .039	.066 ± .084
sel8P	vs	brixP	Be	.363	.384 ± .335	.368 ± .060	.352 ± .129
sel8P	vs	brixP	Se	.356	.595 ± .536	.385 ± .059	.294 ± .135
sel8R	vs	brixR	Re	.505	.857 ± .180	.652 ± .040	.333 ± .131
sel8R	vs	brixR	Be	.368	.671 ± .215	.500 ± .052	.156 ± .144
sel8R	vs	brixR	Se	.312	.371 ± .279	.321 ± .062	.259 ± .138

Table 61 continued (4/8)

Character & crop		Type	Plots	Means			
X	Y		rP	rG	rP	rE	
sel8PR	vs	brixPR	Re	.280	.725 ± .385	.405 ± .058	.134 ± .145
sel8PR	vs	brixPR	Be	.260	.190 ± .304	.224 ± .066	.290 ± .135
sel8PR	vs	brixPR	Se	.320	.371 ± .281	.335 ± .062	.279 ± .136
sel8PR	vs	brixPR	RBS	.278	.335 ± .175	.295 ± .036	.232 ± .079
sel8P	vs	stalkP	Re	.458	.530 ± .400	.470 ± .054	.434 ± .120
sel8P	vs	stalkP	Be	.398	.289 ± .287	.350 ± .061	.470 ± .115
sel8P	vs	stalkP	Se	.184	.202 ± .564	.196 ± .067	.215 ± .141
sel8R	vs	stalkR	Re	.388	.423 ± .250	.402 ± .058	.378 ± .126
sel8R	vs	stalkR	Be	.187	.034 ± .294	.119 ± .069	.381 ± .126
sel8R	vs	stalkR	Se	.398	.763 ± .196	.559 ± .048	.147 ± .144
sel8PR	vs	stalkPR	Re	.458	.619 ± .272	.515 ± .051	.413 ± .122
sel8PR	vs	stalkPR	Be	.332	.282 ± .263	.306 ± .063	.395 ± .124
sel8PR	vs	stalkPR	Se	.105	.196 ± .284	.151 ± .068	.054 ± .147
sel8PR	vs	stalkPR	RBS	.294	.310 ± .162	.302 ± .036	.304 ± .076
sel8P	vs	nmgvarP	R				
sel8P	vs	nmgvarP	Be	.247	.228 ± .360	.238 ± .066	.252 ± .138
sel8P	vs	nmgvarP	S				
sel8R	vs	nmgvarR	Re	.582	.630 ± .356	.578 ± .046	.606 ± .093
sel8R	vs	nmgvarR	Be	.269	.711 ± .380	.403 ± .058	.134 ± .145
sel8R	vs	nmgvarR	Se	.387	.055 ± .433	.281 ± .064	.509 ± .109
sel8PR	vs	nmgvarPR	R				
sel8PR	vs	nmgvarPR	Be	.300	.822 ± .335	.472 ± .054	.126 ± .145
sel8PR	vs	nmgvarPR	Se	.311	.320 ± .475	.311 ± .063	.328 ± .132
sel8PR	vs	nmgvarPR	RBS	.295	.262 ± .267	.276 ± .037	.305 ± .076
sel8P	vs	tchP	Re	.533	.746 ± .230	.616 ± .043	.476 ± .114
sel8P	vs	tchP	Be	.504	.986 ± .152	.715 ± .034	.202 ± .141
sel8P	vs	tchP	Se	.364	.939 ± .526	.525 ± .050	.324 ± .132
sel8R	vs	tchR	Re	.617	.940 ± .128	.758 ± .030	.462 ± .116
sel8R	vs	tchR	Be	.414	.423 ± .312	.425 ± .057	.428 ± .120
sel8R	vs	tchR	Se	.667	1.026 ± .117	.814 ± .023	.499 ± .111
sel8PR	vs	tchP	Re	.630	1.082 ± .165	.804 ± .025	.527 ± .106
sel8PR	vs	tchP	Be	.665	1.068 ± .098	.846 ± .020	.399 ± .124
sel8PR	vs	tchP	Se	.466	.818 ± .219	.606 ± .044	.335 ± .131
sel8PR	vs	tchP	RBS	.602	.969 ± .075	.761 ± .017	.412 ± .070

Table 61 continued (5/8)

Character & crop		Type	Plots	Means		rP	rE
X	Y		rP	rG			
sel8PR	vs	tchR	Re	.499	1.022 ± .214	.697 ± .036	.339 ± .130
sel8PR	vs	tchR	Be	.315	.882 ± .251	.542 ± .049	.070 ± .147
sel8PR	vs	tchR	Se	.427	.765 ± .198	.583 ± .046	.263 ± .137
sel8PR	vs	tchR	RBS	.425	.859 ± .112	.616 ± .025	.213 ± .080
sel8PR	vs	tchPR	Re	.618	1.104 ± .169	.809 ± .024	.486 ± .113
sel8PR	vs	tchPR	Be	.536	1.061 ± .141	.766 ± .029	.236 ± .139
sel8PR	vs	tchPR	Se	.498	.833 ± .173	.651 ± .040	.344 ± .130
sel8PR	vs	tchPR	RBS	.560	.964 ± .079	.742 ± .018	.347 ± .074
sel8P	vs	ccsP	Re	.123	.286 ± .359	.164 ± .068	.005 ± .147
sel8P	vs	ccsP	Be	.330	.327 ± .274	.329 ± .062	.352 ± .129
sel8P	vs	ccsP	Se	.139	.834 ± .652	.270 ± .064	-.188 ± .142
sel8R	vs	ccsR	Re	.088	.950 ± 2.429	.194 ± .067	.006 ± .147
sel8R	vs	ccsR	Be	.065	.654 ± .337	.292 ± .064	-.219 ± .140
sel8R	vs	ccsR	Se	.117	.151 ± .337	.119 ± .069	.072 ± .147
sel8PR	vs	ccsP	Re	.209	.289 ± .363	.221 ± .066	.147 ± .144
sel8PR	vs	ccsP	Be	.318	.147 ± .290	.237 ± .066	.450 ± .118
sel8PR	vs	ccsP	RBS	.234	.305 ± .169	.256 ± .037	.170 ± .082
sel8PR	vs	ccsR	Re	-.127	.669 ± 2.264	-.025 ± .069	-.145 ± .144
sel8PR	vs	ccsR	Be	.110	.302 ± .321	.198 ± .067	.031 ± .147
sel8PR	vs	ccsR	Se	.152	.642 ± .283	.359 ± .061	-.128 ± .145
sel8PR	vs	ccsR	RBS	.073	.455 ± .199	.226 ± .038	-.092 ± .083
sel8PR	vs	ccsPR	Re	.051	.295 ± .430	.120 ± .068	-.048 ± .147
sel8PR	vs	ccsPR	Be	.249	.215 ± .277	.229 ± .066	.279 ± .136
sel8PR	vs	ccsPR	Se	.152	.565 ± .270	.330 ± .062	-.157 ± .144
sel8PR	vs	ccsPR	RBS	.172	.368 ± .168	.252 ± .037	.029 ± .084
sel8P	vs	tshP	Re	.535	.730 ± .222	.604 ± .044	.461 ± .116
sel8P	vs	tshP	Be	.574	1.042 ± .134	.773 ± .028	.294 ± .135
sel8P	vs	tshP	Se	.411	1.233 ± .634	.604 ± .044	.271 ± .137
sel8R	vs	tshR	Re	.639	.988 ± .115	.792 ± .026	.468 ± .115
sel8R	vs	tshR	Be	.459	.670 ± .232	.553 ± .048	.388 ± .125
sel8R	vs	tshR	Se	.700	.997 ± .106	.821 ± .023	.561 ± .101
sel8PR	vs	tshP	Re	.648	.996 ± .153	.780 ± .027	.554 ± .102
sel8PR	vs	tshP	Be	.711	1.050 ± .087	.859 ± .018	.493 ± .112
sel8PR	vs	tshP	Se	.512	.970 ± .184	.688 ± .037	.306 ± .134
sel8PR	vs	tshP	RBS	.643	.993 ± .068	.790 ± .015	.444 ± .067
sel8PR	vs	tshR	Re	.446	1.037 ± .236	.670 ± .038	.255 ± .138
sel8PR	vs	tshR	Be	.380	.952 ± .199	.630 ± .042	.107 ± .146
sel8PR	vs	tshR	Se	.483	.909 ± .158	.681 ± .037	.251 ± .138
sel8PR	vs	tshR	RBS	.458	.945 ± .097	.680 ± .021	.203 ± .080

Table 61 continued (6/8)

Character & crop		Type	Plots	Means		rP	rE
X	Y		rP	rG			
sel8PR	vs	tshPR	Re	.614	1.073 ± .168	.794 ± .026	.475 ± .114
sel8PR	vs	tshPR	Be	.634	1.067 ± .107	.829 ± .022	.357 ± .129
sel8PR	vs	tshPR	Se	.566	.991 ± .134	.755 ± .030	.328 ± .132
sel8PR	vs	tshPR	RBS	.619	1.022 ± .066	.800 ± .014	.382 ± .072
sel8P	vs	nmgyotP	Re	.494	.669 ± .239	.557 ± .048	.428 ± .120
sel8P	vs	nmgyotP	Be	.540	1.029 ± .136	.765 ± .029	.289 ± .135
sel8P	vs	nmgyotP	Se	.342	1.264 ± .675	.586 ± .046	.212 ± .141
sel8R	vs	nmgyotR	Re	.451	.887 ± .186	.673 ± .038	.396 ± .124
sel8R	vs	nmgyotR	Be	.275	.421 ± .287	.378 ± .060	.316 ± .133
sel8R	vs	nmgyotR	Se	.421	.830 ± .188	.646 ± .040	.386 ± .125
sel8PR	vs	nmgyotP	Re	.630	.883 ± .174	.715 ± .034	.542 ± .104
sel8PR	vs	nmgyotP	Be	.662	1.011 ± .092	.831 ± .022	.485 ± .113
sel8PR	vs	nmgyotP	Se	.489	.965 ± .187	.675 ± .038	.267 ± .137
sel8PR	vs	nmgyotP	RBS	.614	.957 ± .074	.760 ± .017	.421 ± .069
sel8PR	vs	nmgyotR	Re	.347	1.037 ± .295	.607 ± .044	.198 ± .142
sel8PR	vs	nmgyotR	Be	.302	.696 ± .234	.485 ± .053	.105 ± .146
sel8PR	vs	nmgyotR	Se	.356	.957 ± .199	.633 ± .042	.104 ± .146
sel8PR	vs	nmgyotR	RBS	.360	.877 ± .119	.599 ± .025	.140 ± .082
sel8PR	vs	nmgyotPR	Re	.572	.976 ± .178	.730 ± .032	.455 ± .117
sel8PR	vs	nmgyotPR	Be	.607	.930 ± .120	.750 ± .030	.380 ± .126
sel8PR	vs	nmgyotPR	Se	.508	1.021 ± .058	.726 ± .033	.221 ± .140
sel8PR	vs	nmgyotPR	RBS	.582	.964 ± .076	.750 ± .017	.349 ± .074
visnmgP	vs	nmgyotP	Re	.631	.816 ± .142	.712 ± .034	.519 ± .108
visnmgP	vs	nmgyotP	Be	.590	1.003 ± .094	.815 ± .023	.395 ± .124
visnmgP	vs	nmgyotP	Se	.420	.858 ± .182	.637 ± .041	.267 ± .137
visnmgR	vs	nmgyotR	Re	.603	.894 ± .125	.762 ± .029	.577 ± .098
visnmgR	vs	nmgyotR	Be	.310	.487 ± .224	.423 ± .057	.260 ± .137
visnmgR	vs	nmgyotR	Se	.390	.738 ± .157	.631 ± .042	.359 ± .128
visnmgPR	vs	nmgyotP	Re	.683	.830 ± .113	.753 ± .030	.566 ± .100
visnmgPR	vs	nmgyotP	Be	.660	.930 ± .079	.819 ± .023	.504 ± .110
visnmgPR	vs	nmgyotP	Se	.523	.843 ± .147	.673 ± .038	.307 ± .034
visnmgPR	vs	nmgyotP	RBS	.650	.883 ± .057	.773 ± .016	.458 ± .066
visnmgPR	vs	nmgyotR	Re	.567	.929 ± .137	.744 ± .031	.458 ± .116
visnmgPR	vs	nmgyotR	Be	.389	.615 ± .200	.506 ± .052	.229 ± .140
visnmgPR	vs	nmgyotR	Se	.482	.868 ± .122	.711 ± .034	.266 ± .137
visnmgPR	vs	nmgyotR	RBS	.513	.820 ± .078	.687 ± .021	.334 ± .075