



1990

Preliminary agronomic evaluation and characterization of the genetic resources of *Trifolium* and *Ornithopus* species.

R. Snowball

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Snowball, R. (1990), *Preliminary agronomic evaluation and characterization of the genetic resources of *Trifolium* and *Ornithopus* species.*. Department of Primary Industries and Regional Development, Western Australia, Perth. Report.

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TITLE: Preliminary Agronomic Evaluation and Characterization of the
Genetic Resources of Trifolium and Ornithopus species

PERSONNEL: R. Snowball, R.O.

DATE: 1990

EX FILE NUMBER: 5457

TRIAL NUMBER: 91MD13

DOS FILE NAME: SNOR90e.doc

Aim: To evaluate and characterize new and old collections of Trifolium and Ornithopus species.

To regenerate lines to provide sufficient seed of high quality for long term storage in the Australian Trifolium Genetic Resource Centre (ATGRC).

Results: Second stage sorting of recent collections of Serradella from Greece, Morocco and Cyprus resulted in 97 types. Most are O. compressus with a small number belonging to the other three species. Data is presented for all new lines of Serradella grown in 1989 and 1990 and includes maturity, vigour, pod yield, pod strength and growth habit (Table 1).

The genetic resource of Arrowleaf clover (T. vesiculosum) recently requested from interstate and overseas, and from existing collections in the ATGRC was grown and evaluated. Data is presented for maturity, vigour, growth habit and seed yield (Table 2).

Second stage sorting of Trifolium species from a recent collection from Greece resulted in 40 types being identified from an initial number of 26 lines. The species, the number of lines and types, and the maturity are presented (Table 3).

A total of 200 lines of 4 species including T. resupinatum, T. michelianum (syn. T. balansae), T. cherleri, and T. purpureum were grown for the purpose of seed increase for long term storage in the ATGRC.

Table 3.

Species	Number of lines	Number of types	Range in maturity (days)
<u>T. cherleri</u>	8	17	107-160
<u>T. stellatum</u>	11	15	108-143
<u>T. batmanicum</u>	3	4	140-167
<u>T. tomentosum</u>	2	2	95-105
<u>T. spumosum</u>	1	1	136
<u>T. glomeratum</u>	1	1	152-155

Table 1. Agronomic data of new lines of Serradella grown at Medina in 1989 and 1990.

1	IDENTIFIER															
2	SPECIES (C-COMPRESSUS, P-PINNATUS, S-SATIVUS, E-PERPUSILLUS)															
3,10	YEAR															
4,11	FLOWERING TIME															
5,12	WINTER VIGOUR (5-BEST)															
6	SPRING VIGOUR (5-BEST)															
7,13	POD YIELD															
8,14	NUMBER OF PLANTS															
9,15	POD BREAKAGE RATING (4-PODS SEGMENTING STRONGLY)															
16	GROWTH HABIT (5-ERECT)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
CFD15COM-A	C	89	119		4.0	44			90	118	1.0	500	6	3.0	3.0	
CFD15COM-B	C	89	126		4.0	45			90	118	1.0	685	7	3.0	3.0	
CFD15COM-C	C	89	130		4.0	66			90	120	1.0	766	7	3.0	3.0	
CFD9COM-A	C	89	109		4.0	270		1.0	90	103	3.0	610	4	3.0	3.0	
CFD9COM-B	C	89	114		4.0	21			90	109	3.0	562	6	3.0	5.0	
DAM15COM	C	89	133		4.5	430		1.0							2.5	
DAM28COM-A	C	89	114		4.0	37			90	114	2.0	693	7	3.0	2.0	
DAM28COM-B	C	89	117		4.0	24			90	110	2.0	486	6	3.0	2.0	
DAM28COM-C	C	89	126		4.0	106			90	120	2.0	574	6	3.0	2.0	
DAM28COM-D	C	89	133		4.0	31									2.0	
DAM28COM-D1	C	90	128	2.0		254	2	1.0								
DAM28COM-D2	C	90	140	2.0		385	4	1.0								
DAM28COM-E	C	89	142		4.0	10			90	131	2.0	591	7	1.0	2.0	
DAM31COM-A	C	89	115		4.0	237			90	118	3.0	854	7	2.0	3.0	
DAM31COM-B	C	89	120		4.0	82			90	118	3.0	750	7	1.0	3.0	
DAM31COM-C	C	89	124		4.0	260			90	118	3.0	926	7	1.0	3.0	
DAM38COM-A	C	89	108		4.0	50			90	113	3.0	988	7	3.0	1.5	
DAM38COM-B	C	89	112		4.0	42			90	114	2.0	732	7	3.0	1.5	
DAM38COM-C	C	89	126		4.0	355			90	123	2.0	905	7	1.0	1.5	
DAM39COM-A1	C	89	110		4.5	93			90	116	2.0	719	7	3.0	1.5	
DAM39COM-A2	C	90	116	1.0		182	3	3.0								
DAM39COM-B1	C	89	114		4.5	163			90	111	2.0	737	6	3.0	1.5	
DAM39COM-B2	C	90	110	1.0		406	3	3.0								
DAM39COM-C	C	89	118		4.5	39									1.5	
DAM39COM-D	C	89	126		4.5	277			90	117	2.0	703	6	1.0	1.5	
DAM4COM-A	C	89	130		3.5	242			90	122	3.0	880	7	1.0	3.0	
DAM4COM-B	C	89	135		3.5	104			90	128	3.0	742	5	1.0	3.0	
DAM5COM	C	89	130		5.0	712		1.0							2.0	
DAM6COM-A	C	89	133		4.5	45			90	124	3.0	484	7	1.0	2.0	
DAM6COM-B	C	89	145		4.5	131		1.0							2.0	
DAM6COM-B1	C	90	127	2.0		178	2	1.0								
DAM6COM-B2	C	90	138	2.0		114	1	3.0								
DAM6COM-B3	C	90	149	2.0		296	2	1.0								
DAM7COM-A	C	89	145		4.0	58			90	134	2.0	895	7	1.0	3.0	
DAM7COM-B	C	89	152		4.0	4									3.0	
DAM7COM-B1	C	90	119	2.0		564	3	2.0								
DAM7COM-B2	C	90	145	2.0		128	2	2.0								
DAM9COM	C	89	146		3.0	25	3	1.0	90	141	1.0	385	5	2.0	2.0	
ENEABBA	C	89	130													
G100COM	C	89	140		4.5	267		3.0							3.0	

Table 1 continued ...

G101PIN	P 89 144	5.0	260	2.0	3.0
G106COM	C 89 135	4.5	275	1.0	2.5
G107PIN	P 89 148	4.0	128	2 1.0	4.0
G113COM	C 89 135	5.0	330	3.0	3.0
G114PIN	P 89 136	4.5	216	2.0	3.0
G116COM	C 89 133	4.5	541	3.0	3.0
G117PIN	P 89 140	4.5	344	2.0	3.0
G119COM	C 89 135	4.5	463	2.0	3.0
G125COM	C 89 133	4.5	532	1.0	3.0
G135COM-A	C 89 133	4.0	77	1.0	4.0
G135COM-B	C 89 150	4.0	25	1.0	4.0
G137COM	C 89 136	4.5	338	2.0	3.0
G139COM	C 89 148	4.0	82	2.0	3.0
G140PIN	P 89 148	4.0	158	3.0	3.0
G142COM	C 89 146	4.5	182	1.0	3.0
G146COM	C 89 135	4.0	346	2.0	3.0
G148COM	C 89 135	4.5	374	1.0	3.0
G151COM	C 89 135	4.5	304	1.0	3.0
G156COM	C 89 150	4.5	200	1.0	3.5
G157PIN	P 89 148	5.0	344	2.0	3.0
G160COM	C 89 135	4.5	326	2.0	3.0
G162COM	C 89 137	4.5	210	2.0	3.0
G164COM	C 89 144	4.5	236	2.0	3.0
G165PIN	P 89 148	4.5	250	2.0	4.0
G166PER	E 89 150	3.0	28	2.0	2.5
G169COM	C 89 136	4.5	285	2.0	3.0
G170PIN	P 89 150	4.0	89	2.0	3.0
G172COM	C 89 144	4.5	369	2.0	4.0
G173PIN	P 89 145	4.0	398	1.0	4.0
G175COM	C 89 144	4.0	319	3.0	2.0
G176COM	C 89 137	4.0	345	4.0	3.0
G177COM	C 89 135	4.5	360	4.0	3.0
G178COM	C 89 140	4.5	329	4.0	3.0
G179COM	C 89 138	4.5	268	4.0	3.0
G180COM	C 89 140	4.0	249	4.0	3.0
G181.1COM	C 89 140	4.5	215		3.0
G181.2COM	C 89 150	4.5	35	1.0	4.0
G182COM	C 89 145	4.0	210	2.0	2.0
G183COM	C 89 137	4.5	512	2.0	3.0
G184COM	C 89 150	4.0	217	1.0	3.0
G185COM	C 89 136	4.5	119	2.0	3.0
G186COM	C 89 140	4.5	385	3.0	2.5
G187PER	E 89 170	3.0	12		2.0
G188COM	C 89 150	4.0	24	1.0	4.0
G189COM	C 89 140	4.5	329	2.0	3.0
G191COM	C 89 135	4.5	418	3.0	3.0
G192COM	C 89 138	4.5	347	2.0	2.5
G194COM	C 89 150	4.0	123	2.0	2.5
G195COM	C 89 148	4.0	109	2.0	3.0
G196COM	C 89 136	4.5	305	3.0	2.5
G197COM	C 89 138	3.5	191	4.0	2.0
G198COM	C 89 144	4.0	134	2.0	2.5
G199COM	C 89 138	4.5	438	2.0	3.0
G200PER	E 89 150	2.0	33		2.0
G201COM	C 89 144	4.5	283	2.0	3.0
G202COM	C 89 146	4.0	232	2.0	3.0
G203COM	C 89 160	4.0	38	2.0	2.5
G204COM	C 89 148	4.5	194	2.0	3.0

Table 1 continued ...

G205COM	C 89 140	4.0	311	3.0						3.0
G206COM	C 89 140	5.0	440	3.0						4.0
GEH106COM	C 89 133	2.0	153	2 2.0						1.0
GEH109COM-A	C 89 145	2.5	38		90 136 1.0	705	7 2.0			1.0
GEH109COM-B	C 89 150	2.5	6							1.0
GEH109COM-B1	C 90 146 1.0		709	9 2.5						
GEH109COM-B2	C 90 100 2.0		139	1 3.0						
GEH109COM-C	C 89 155	2.5	4							1.0
GEH110COM	C 89 140	4.0	263	5 3.0						2.0
GEH111COM-A	C 89 133	3.0	149		90 133 1.0	576	7 3.0			1.5
GEH111COM-B	C 89 144	3.0	65		90 133 1.0	565	7 3.0			1.5
GEH113COM-A	C 89 124		134		90 120 1.0	951	6 1.0			1.5
GEH113COM-B	C 89 149		35							1.5
GEH113COM-B1	C 90 132 1.0		398	3 1.0						
GEH113COM-B2	C 90 140 1.0		136	1 1.0						
GEH113COM-B3	C 90 138 1.0		91	1 3.0						
GEH113COM-B4	C 90 146 1.0		403	1 2.0						
GEH113COM-C	C 89 155		19	1.0						1.5
GEH113COM-C1	C 90 144 1.0		204	1 1.0						
GEH113COM-C2	C 90 143 1.0		70	1 3.0						
GEH113COM-C3	C 90 151 1.0		361	4 2.0						
GEH114COM	C 89 130	4.0	283	4 3.0						3.0
GEH114PIN	P 89 130	4.5	443	1.0						4.0
GEH116COM-A	C 89 146	3.5	29							2.0
GEH116COM-A1	C 90 144 1.0		213	2 1.0						
GEH116COM-A2	C 90 134 1.0		330	3 1.0						
GEH116COM-A3	C 90 138 1.5		228	2 1.0						
GEH116COM-B	C 89 144	3.5	60		90 122 1.5	627	5 1.0			2.0
GEH118COM	C 89 150	3.0	28	3 1.0	90 139 1.0	634	6 2.0			2.0
GEH13COM-A	C 89 106	4.0	101		90 110 2.0	523	6 1.0			2.0
GEH13COM-B	C 89 114	4.0	364	1.0	90 113 2.0	621	7 1.0			2.0
GEH24COM-A	C 89 133	3.0	170		90 130 1.0	548	7 1.0			2.0
GEH24COM-B	C 89 140	3.0	26	1.0	90 131 1.0	902	7 1.0			2.0
GEH40COM	C 89 130	3.5	169	2 2.0						2.0
GEH40COM-A	C 90 111 2.0		133	1 3.0						
GEH40COM-B	C 90 119 2.0		578	6 1.0						
GEH46COM	C 89 111	3.0	113	1	90 112 2.0	680	7 1.0			1.0
GEH49COM	C 89 112	3.0	167	1						2.0
GEH49COM-A1	C 90 102 2.0		214	2 1.0						1.0
GEH49COM-A2	C 90 106 2.0		564	4 1.0						1.0
GEH49COM-B	C 90 118 2.0		192	1 3.0						1.0
GEH56COM	C 89 109	4.0	238	1						3.0
GEH62COM	C 89 102	4.0	487	1.0						2.0
GEH63COM	C 89 110	3.5	260	1 1.0						3.0
GEH68COM	C 89 104	4.5	642	1.0						3.5
GEH69COM-A	C 89 107	3.0	117							3.0
GEH69COM-A1	C 90 103 3.0		382	3 1.0						
GEH69COM-A2	C 90 107 3.0		203	1 3.0						
GEH69COM-B	C 89 115	3.0	38		90 110 3.0	960	6 1.0			3.0
GEH69COM-C	C 89 123	3.0	164		90 117 2.0	804	7 3.0			3.0
GEH69COM-D	C 89 130	3.0	31		90 118 2.0	748	7 3.0			3.0
GEH70COM	C 89 102	4.0	691	2.0						3.0
GEH72-1COM-A	C 89 104	4.0	264	4.0	90 102 3.0	929	7 4.0			3.0
GEH72-1COM-B	C 89 112	4.0	48	4.0	90 104 3.0	700	6 4.0			3.0
GEH72-1COM-C	C 89 114		65		90 141 1.0	875	7 2.0			1.0
GEH72-1COM-D	C 89 118	4.0	13	4.0	90 103 3.0	951	10 4.0			3.0
GEH72-1COM-E	C 89 123	4.0	17	4.0	90 104 2.0	837	7 4.0			3.0
GEH72-2COM-A	C 89 98	4.0	95		90 90 3.5	764	7 3.0			2.0

Table 1 continued ...

GEH72-2COM-B	C 89 110	4.0	90		90 106 2.0	870	7 3.0 2.0
GEH72-2COM-C	C 89 116	4.0	402		90 111 3.0	983	7 3.0 2.0
GEH72-2COM-D	C 89 121	4.0	13		90 115 3.0	969	7 3.0 2.0
GEH73COM	C 89 116	3.0	174	1	90 109 2.0	640	7 3.0 3.0
GEH74COM-A	C 89 102	4.0	280	4.0	90 103 3.0	559	5 4.0 5.0
GEH74COM-B	C 89 116	4.0	53		90 110 2.0	751	7 4.0 5.0
GEH76COM-A	C 89 98	4.0	136		90 109 1.0	647	7 2.0
GEH76COM-B	C 89 98	4.0	36				
GEH76COM-B1	C 90 92 1.0		146	1 3.0			
GEH76COM-B2	C 90 102 2.0		112	2 3.0			
GEH76COM-C	C 89 112	4.0	160		90 104 3.0	704	5 2.0
GEH76COM-D	C 89 116	4.0	31		90 110 1.0	329	6 3.0
GEH76COM-E	C 89 110	4.0	30		90 109 1.0	550	7 3.0
GEH76COM-F	C 89 119	4.0	12		90 105 2.0	796	7 2.0
GEH78COM	C 89 119	4.0	356	2 1.0			4.0
GEH79COM-A	C 89 105	4.5	624	1.0			3.0
GEH79COM-A1	C 90 105 2.0		356	3 1.0			
GEH79COM-A2	C 90 111 2.0		217	2 1.0			
GEH79COM-B	C 89 133	4.5	73				3.0
GEH79COM-B1	C 90 105 2.0		301	2 1.0			
GEH79COM-B2	C 90 112 2.0		263	3 1.0			
GEH79COM-B3	C 90 115 2.0		204	1 1.0			
GEH82COM	C 89 133	3.5	307	2 2.0			4.0
GEH83COM-A	C 89 118	4.5	342	1.0	90 115 3.0	957	7 3.0 2.5
GEH83COM-B	C 89 135	4.5	153		90 131 1.0	766	7 3.0 2.5
GEH84COM-A	C 89 124	4.5	254		90 115 2.0	711	7 3.0 2.5
GEH84COM-B	C 89 137	4.5	163		90 126 1.0	789	7 3.0 2.5
GEH84PIN	P 89 124	4.0	404	1.0			3.0
GEH87COM-A	C 89 116	4.0	359	2.0	90 109 2.0	722	7 3.0 3.5
GEH87COM-B	C 89 126	4.5	44				3.5
GEH87COM-B1	C 90 119 3.0		797	6 2.0			5.0
GEH87COM-B2	C 90 124 3.0		212	1 3.0			1.0
MADEIRA	C 90 112 2.0		1141	10 4.0			
MAMORA	E 90 123 1.0		645	10 4.0			
MCD103COM-A	C 89 117		400	3.0	90 111 2.0	1110	6 3.0 3.0
MCD103COM-B	C 89 133		20		90 114 2.0	957	7 3.0 5.0
MCD103COM-C	C 89 140		2		90 113 2.0	1043	7 3.0 5.0
MCD103PIN-A	P 89 117		29				3.0
MCD103PIN-A1	P 90 113 1.0		76	3 3.0			1.0
MCD103PIN-A2	P 90 119 1.0		194	3 3.0			1.0
MCD103PIN-A3	P 90 125 1.0		26	1 3.0			1.0
MCD103PIN-B	P 89 125		69				3.0
MCD103PIN-B1	P 90 126 1.0		132	2 3.0			1.0
MCD103PIN-B2	P 90 121 1.0		196	4 3.0			1.0
MCD111COM	C 89 98		923	3.0			3.0
MCD112SAT-A	S 89 121	4.0	179	4.0	90 119 1.5	326	7 3.0 2.0
MCD112SAT-B	S 89 123	4.0	110	4.0	90 120 1.5	1282	7 3.0 2.0
MCD112SAT-C	S 89 126	4.0	75	4.0	90 120 1.0	427	6 4.0 2.0
MCD112SAT-D	S 89 133	4.0	175	4.0			2.0
MCD112SAT-D1.1	S 90 117 2.0		438	9 3.0			
MCD112SAT-D1.2	S 90 126 2.0		62	1 3.0			
MCD112SAT-D1.3	S 90 135 2.0		46	1 3.0			
MCD112SAT-D2	S 90 124 1.0		736	7 4.0			
MCD113COM	C 89 102	4.0	354				3.5
MCD113SAT-A	S 89 121	4.0	37				3.5
MCD113SAT-A1	S 90 119 1.0		384	2 3.0			
MCD113SAT-A2	S 90 114 1.0		118	1 3.0			
MCD113SAT-A3	S 90 129 1.0		107	2 3.0			

Table 1 continued ...

MCD113SAT-B	S	89	130	4.0	26		90	131	1.0	230	7	4.0	3.5
MCD43COM	C	89	121	4.5	197								2.0
MCD43SAT	S	89	127	4.5	230								2.0
MCD45PIN-A	P	89	121	4.0	252								3.0
MCD45PIN-A1	P	90	127	1.0	173	2	3.0						1.0
MCD45PIN-A2	P	90	113	1.0	61	1	3.0						1.0
MCD45PIN-B	P	89	126	5.0	198								3.0
MCD45PIN-B1	P	90	108	1.5	50	1	3.0						1.0
MCD45PIN-B2	P	90	129	1.5	12	1	3.0						1.0
MCD45PIN-B3	P	90	129	1.5	168	2	3.0						1.0
MCD45PIN-B4	P	90	133	1.5	130	2	3.0						1.0
MCD47COM-A	C	89	108	4.0	403		90	107	1.0	472	6	1.0	2.0
MCD47COM-B	C	89	124	4.0	88		90	119	2.0	1012	7	3.0	2.0
MCD47COM-C	C	89	115	4.0	23		90	108	1.0	354	5	3.0	2.0
MCD47COM-D	C	89	126	4.0	161		90	122	1.0	726	7	2.0	2.0
MCD47COM-E	C	89	135	4.0	15								2.0
MCD47COM-E1	C	90	123	1.5	234	2	3.0						
MCD47COM-E2	C	90	135	1.5	70	1	3.0						
MCD52COM	C	89	126	5.0	634	5	1.0						5.0
MCD57COM	C	89	123	4.5	573	3	2.0						5.0
MCD66COM	C	89	135	4.5	473	5	2.0						4.0
MCD70COM	C	89	145	4.0	226	7	2.0						4.0
MCD73COM	C	89	130	5.0	429	5							5.5
PAROS	C	90	104	1.5	1059	11	3.0						
PITMAN	C	89	138										
PITMAN	C	90	147	1.0	559	5	4.0						
TAURO	C	90	130	2.0	1002	9	4.0						
WA929.1	S	90	157	2.0		1	3.0						
WA929.10	S	90	132	2.0		1	3.0						5.0
WA929.11	S	90	133	2.0		1	3.0						5.0
WA929.12	S	90	135	2.0		1	3.0						5.0
WA929.2	S	90	157	2.0		1	3.0						5.0
WA929.3	S	90	143	2.0		1	3.0						5.0
WA929.4	S	90	136	2.0		1	3.0						5.0
WA929.5	S	90	128	2.0		1	3.0						5.0
WA929.6	S	90	130	2.0		1	3.0						5.0
WA929.7	S	90	128	2.0		1	3.0						5.0
WA929.8	S	90	142	2.0		1	3.0						5.0
WA929.9	S	90	158	2.0		1	3.0						5.0
WA930	C	90	150	1.0	651	9	4.0						1.0
WA931	E	90	118	1.0	647	11	4.0						1.0

Where plant number is not listed for lines grown in 1989 and not grown in 1990, plant number = 12.

Table 2. Agronomic data of lines of Arrowleaf Clover (*T.vesiculosum*) grown at Medina in 1990.

1 IDENTIFIER	2 SPECIES	3 SUBSPECIES	4 FLOWERING TIME (DAYS TO FIRST FLOWERING PLANT)	5 WINTER VIGOUR (5-GOOD)	6 SPRING VIGOUR (5-GOOD)	7 GROWTH HABIT (5-ERECT)	8 SEED YIELD (GRAMS PER PLANT)
1	2	3	4	5	6	7	8
028583-1	VESICULOSUM	VESICULOSUM	188	1.5			13.2
028583-2	VESICULOSUM	VESICULOSUM	188	1.5	2.0		18.5
031882-1	VESICULOSUM	VESICULOSUM	165	2.0			38.8
031882-2	VESICULOSUM	VESICULOSUM	167	2.0			10.6
031882-3	VESICULOSUM	VESICULOSUM	167	1.5			21.9
031882-4	VESICULOSUM	VESICULOSUM	180	2.0	2.0		17.5
031882-5	VESICULOSUM	VESICULOSUM	185	1.5			20.0
031882-6	VESICULOSUM	VESICULOSUM	188	1.5	4.0		22.6
031883-1	VESICULOSUM	VESICULOSUM	185	1.5	4.0		30.2
031883-2	VESICULOSUM	VESICULOSUM	180	1.0			19.8
031883-3	VESICULOSUM	VESICULOSUM	188	2.0			15.6
031883-4	VESICULOSUM	VESICULOSUM	188	1.5	4.0		17.9
031884-1	VESICULOSUM	VESICULOSUM	169	2.0			34.5
031884-2	VESICULOSUM	VESICULOSUM	160	1.5			15.8
031884-3	VESICULOSUM	VESICULOSUM	155	2.0	4.0		28.8
031884-4	VESICULOSUM	VESICULOSUM	155	1.5			22.5
031884-5	VESICULOSUM	VESICULOSUM	150	1.5	5.0	4.0	22.0
087173	VESICULOSUM	VESICULOSUM	167	2.0	5.0		21.6
234310/S-50-6	VESICULOSUM	VESICULOSUM	160	1.5			29.0
98707710561	VESICULOSUM	RUMELICUM	196	1.0			4.5
98707710605	VESICULOSUM	RUMELICUM	196	1.0	1.0		10.1
98707710676	VESICULOSUM	RUMELICUM	188	1.5	3.0	3.0	15.3
AMCLO-1	VESICULOSUM	VESICULOSUM	160	1.5	3.0		36.0
AMCLO-2	VESICULOSUM	VESICULOSUM	154	1.5			38.0
AMCLO-3	VESICULOSUM	VESICULOSUM	170	1.5			26.2
AMCLO-4	VESICULOSUM	VESICULOSUM	175	1.0			25.5
AMCLO-5	VESICULOSUM	VESICULOSUM	175	1.0			21.6
AZ223	VESICULOSUM	VESICULOSUM	195	1.0			13.5
AZ2700	VESICULOSUM	VESICULOSUM	188	1.5	3.0		9.1
M-14884	VESICULOSUM	VESICULOSUM	195	1.0	5.0		12.1
M-14891	VESICULOSUM	RUMELICUM	180	1.0	2.0	3.0	4.2
MEECHEE-1	VESICULOSUM	VESICULOSUM	195	1.5			22.0
MEECHEE-2	VESICULOSUM	VESICULOSUM	188	1.5			21.2
MEECHEE-3	VESICULOSUM	VESICULOSUM	188	1.5	5.0		22.7
PI234310	VESICULOSUM	VESICULOSUM	160	1.0			17.0
PI279948-1	VESICULOSUM	RUMELICUM	195	1.0		2.0	6.1
PI279948-2	VESICULOSUM	RUMELICUM	180	1.0	2.0		4.5
PI290758-1	VESICULOSUM	VESICULOSUM	188	1.5			20.3
PI290758-2	VESICULOSUM	VESICULOSUM	188	1.0	2.0		13.1
PI290758-3	VESICULOSUM	VESICULOSUM	188	1.5	4.0	5.0	21.7
PI290759-1	VESICULOSUM	VESICULOSUM	188	1.5			18.2
PI290759-2	VESICULOSUM	VESICULOSUM	188	1.0	3.0		19.1
PI291921	VESICULOSUM	VESICULOSUM	188	1.5	4.0	3.0	21.4

Table 2 continued ...

S3559VES	VESICULOSUM VESICULOSUM	175	2.0	4.0		15.7
S3684VES	VESICULOSUM VESICULOSUM	166	2.0			18.4
SA1184	VESICULOSUM VESICULOSUM	160	1.5			25.7
SA19622	VESICULOSUM VESICULOSUM	180	2.0	5.0	5.0	11.6
SA19624	VESICULOSUM VESICULOSUM	175	1.5	5.0	5.0	27.4
SA20018	VESICULOSUM VESICULOSUM	170	1.5	5.0	5.0	17.2
SA22044-1	VESICULOSUM VESICULOSUM	160	1.5	5.0		24.9
SA22044-2	VESICULOSUM VESICULOSUM	155	1.5	4.0		29.5
SA4724	VESICULOSUM RUMELICUM	192	1.0			5.8
SA4739	VESICULOSUM RUMELICUM	188	1.0			4.8
SA8382	VESICULOSUM RUMELICUM	188	1.0			1.8
SA8383	VESICULOSUM RUMELICUM	188	1.0			2.9
SEELU	VESICULOSUM VESICULOSUM	137	2.0			33.9
WA599	VESICULOSUM VESICULOSUM	160	1.0			17.3
WA600	VESICULOSUM VESICULOSUM	152	1.5	2.0	3.0	19.4
WA758	VESICULOSUM VESICULOSUM	175	1.5			26.8
WIR39814	VESICULOSUM VESICULOSUM	188	2.0	5.0	5.0	22.6
YUCHI-1	VESICULOSUM VESICULOSUM	185	1.0			23.1
YUCHI-2	VESICULOSUM VESICULOSUM	188	1.0			20.2
YUCHI-3	VESICULOSUM VESICULOSUM	195	1.5			13.2
YUCHI-4	VESICULOSUM VESICULOSUM	188	1.5	3.0		22.5
YUCHI-5	VESICULOSUM VESICULOSUM	188	1.5	6.0		16.7
ZULU	VESICULOSUM VESICULOSUM	160	1.5	1.0		20.6