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Trial: 87MA31/4365EX

Title: Selection of subclover cultivars - mid to late maturing

Aim: To select in the field subterranean clover cultivars of mid to late maturity having superior persistence and productivity.

Location: C. Ryan, Wilgarup

Details: 10 lines selected from the NSCIP, 6 clover cultivars, 1 Persian, 1 balansa, 1 medic and 1 nil: 4 replicates. Plots 5 m x 2.5 m. Old land, sown to vegetables 1985, 1986. Sown 29/4/87 after herbicide and cultivation. Seed broadcast at 15 kg/ha for clover, 10 kg/ ha (IP) for medic and 5 kg/ha for persian and balansa clovers. Seed harrowed in. Sprayed with Lorsban. 200 kg/ha super, Cu, Zn, Mo plus 50 kg/ha of muriate of potash at seeding. Grazed in common with paddock. Mowed to 15 cm on 29/10. Reglone 400 ml/ha for capeweed, 19/6.

Results: Legume plant establishment, no/sqm, 9/6. Yield and % clover, 16/9 and 29/10. Disease rating (CMV), 29/10. CMV plot: 1 = whole plot showing symptoms, 5 = no symptoms. CMV plant: 1 = growth much reduced, 5 = no affect on plant. Seed yield, kg/ha, 5/1/88 (n.a.).

Comments:

1. Establishment of legume reduced by about 50% from expected (to 123 plants/sqm) because of dense capeweed germination.
2. Excellent control of capeweed achieved by use of Reglone with legume content averaging some 80% in spring.
3. Symptoms of CMV infection were noted in October. Symptoms easily seen on most plots of subclover, particularly 89841E, 89860D and 89880J. Least affected of the subclovers were 89822H and Larisa. Growth of affected plants appeared to be only 70%-80% of apparently unaffected plants. Observations were based on comparing 'good' and 'bad' areas of the same plot. No symptoms of virus disease on Paradana, Kyambro or Zodiac.
4. No symptoms of clover scorch were observed.

Table 11. 87MA31 - Summary of plant assessments - 1987

Line	Legume density	Yield 16/9	% Clover 16/9	Yield 29/10	% Clover 29/10	CMV plot	CMV plant
Junee	112	2,007	80	3,235	79	1.6	3.8
Green Range	197	2,134	83	3,105	80	1.5	3.1
Woogenellup	84	2,439	86	3,450	80	1.3	3.3
Karridale	106	2,416	83	3,205	83	2.4	3.0
Mt Barker	103	2,251	79	3,590	85	2.3	4.0
Larisa	106	1,724	63	3,780	68	3.1	3.8
47308C	103	1,801	78	3,565	79	2.1	3.6
89774F	125	2,000	88	2,860	78	1.5	2.5
89777C	131	2,281	83	2,965	83	2.3	3.3
89816F	142	1,875	83	3,905	80	1.6	4.0
89820D	154	1,765	79	3,370	78	1.3	3.1
89822H	100	2,241	73	3,435	70	3.0	3.4
89830F	133	2,285	79	3,190	79	1.3	3.6
89841E	120	1,745	74	3,475	79	1.0	3.6
89860D	145	1,862	83	3,525	81	1.0	3.0
89880J	150	2,057	80	2,820	74	1.1	2.9
Paradana	142	3,409	96	2,890	84	5.0	5.0
Kyambro	25	1,869	58	3,765	51	5.0	5.0
Zodiac	158	2,684	84	2,580	80	5.0	5.0
Nil	3	1,409	15	2,925	13	0.0	0.0