



1988

## Annual medic evaluation on Eradu sandplain soil - 3 m rows.

Bradley Nutt

M. K. Laslett

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1988 EXPERIMENTAL SUMMARY

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M. K. LASLETT	TECHNICAL OFFICER

GERALDTON REGIONAL OFFICE  
DEPARTMENT OF AGRICULTURE  
WESTERN AUSTRALIA

Trial: 88EC16

Title: Annual medic evaluation on Eradu sandplain soil -  
3 m rows.

Location: East Chapman Research Station.

Soil Type: Deep yellow sand, pH 5.8 (1:5 water).

April to October Rainfall: 329.7 mm

Sowing Date: 10/6/88

Fertilizer: Superphosphate 17 g/3 m row (approx. 140 kg/ha)  
Murate of potash 8.5 g/3 m row (approx. 70 kg/ha)

Results:

VARIETY	SPECIES	VIGOUR RATING 26/8	APHID DAMAGE *RATING	DAYS TO FLOWER	SEED YIELD g/3m
TORNAFIELD	M. TORNATA	3.0	2.0	71	126.38
SA10012	M. TORNATA	3.5	1.5	82	117.42
SA 4066	M. TORNATA	3.0	2.5	58	109.97
LIB 133.1	M. TORNATA	3.0	3.0	62	109.70
SANTIAGO	M. POLYMORPHA	4.0	2.5	54	109.66
LIB1484.4	M. TORNATA	2.5	1.0	62	92.98
Z-11 F7	M. TRUNCATULA	5.0	0.0	74	91.28
GMJ 50.1	M. POLYMORPHA	2.0	2.0	72	91.27
GMJ 65.1.1	M. TRUNCATULA	2.0	4.0	65	88.38
SA 5550	M. POLYMORPHA	3.5	3.0	53	88.32
SA 9818	M. TRUNCATULA	3.5	2.0	54	87.05
GMJ 40.1.2	M. TRUNCATULA	3.0	3.0	70	86.92
GMJ 56.1.1	M. TRUNCATULA	4.0	1.5	65	85.94
SWANI	M. TORNATA	2.0	3.0	60	84.60
PARABINGA	M. TRUNCATULA	3.5	0.0	70	80.88
SA17616	M. TRUNCATULA	3.5	2.0	72	79.23
Z-286	M. TRUNCATULA	5.0	0.0	62	78.34
GMJ 13.2.1	M. TRUNCATULA	3.0	0.5	77	76.55
HARBINGER	M. LITTORALIS	4.0	3.0	64	72.89
SERENA	M. POLYMORPHA	3.5	2.0	53	71.56
GMJ 70.4.2	M. TRUNCATULA	3.0	1.5	80	68.28
GRC5674.2	M. TRUNCATULA	3.0	3.5	72	67.70
SA 9277	M. TORNATA	3.0	3.5	85	67.41
GMJ 87.1.4	M. TRUNCATULA	2.0	4.0	76	67.15
Z-85 F4	M. LITTORALIS	3.5	3.0	67	67.12
GMJ 13.2.1	M. TRUNCATULA	2.5	0.5	79	66.59
Z-213 F4 LM	M. LITTORALIS	3.0	0.0	63	65.62
Z-288	M. TRUNCATULA	4.0	0.5	60	63.35
SA 5572	M. POLYMORPHA	3.0	3.0	60	61.83
SA 8458	M. TRUNCATULA	3.0	3.0	52	61.52
SA 7597	M. POLYMORPHA	4.0	3.0	71	59.33
GMJ 51.1.1	M. TRUNCATULA	3.5	4.0	66	59.00
SA 9145	M. TORNATA	3.0	2.0	79	58.66
SA 5551	M. POLYMORPHA	2.5	3.0	63	58.45
Z-309 F5	M. TRUNCATULA	3.0	3.5	61	57.42
GMJ 77.1.1	M. TRUNCATULA	3.0	2.0	77	57.02
Z-306 F5	LITT X TRUN HYB	3.0	1.0	62	56.70
CYPRUS	M. TRUNCATULA	3.0	4.0	57	56.48

VARIETY	SPECIES	VIGOUR RATING 26/8	APHID DAMAGE *RATING	DAYS TO FLOWER	SEED YIELD g/3m
SA17210	M. TRUNCATULA	3.5	3.5	54	55.60
SA 9821	M. TRUNCATULA	3.5	3.0	54	54.80
Z-293 F5	M. TRUNCATULA	3.0	2.5	62	54.32
GRC5673.1	M. TRUNCATULA	3.5	3.0	71	54.09
GMJ 70.1.4	M. TRUNCATULA	3.0	3.5	72	53.00
Z-68 F4	M. LITTORALIS	3.5	3.0	64	52.33
Z-90 F6	M. TRUNCATULA	3.0	1.0	68	52.08
N3173	M. TURBINATA	3.0	0.0	72	51.45
Z-9 F7	M. TRUNCATULA	3.5	0.0	71	50.41
N3665	M. TORNATA	3.0	1.5	82	49.75
Z-188 F5	M. TRUNCATULA	3.0	0.0	76	48.94
Z-294	M. TRUNCATULA	4.0	2.0	60	48.63
SA 5615	M. SCUTELATA	3.0	0.0	56	48.20
CYRENE 3	M. LITTORALIS	2.5	0.0	76	47.13
Z-292 F5	M. TRUNCATULA	3.0	2.0	65	45.70
GMJ 51.1.5	M. TRUNCATULA	3.0	4.0	62	45.63
SA11829	M. TORNATA	3.0	3.0	60	43.84
HYKON	T. HIRTUM	3.0	0.0	82	42.91
Z-75 F4	M. TRUNCATULA	3.0	1.5	62	42.72
Z-225 F4	M. TRUNCATULA	2.5	1.0	64	41.96
Z-62 F4	M. LITTORALIS	3.0	2.0	62	41.73
GMJ 72	M. LITTORALIS	1.5	0.5	70	41.68
GRC5658.2	M. MUREX	2.5	3.0	76	40.39
GMJ 78	M. TRUNCATULA	2.0	1.5	63	36.73
LISARE	T. CHERLI	2.0	1.5	78	35.81
GRC5661.1	M. LITTORALIS	1.5	2.0	77	35.54
GRC 50	M. MUREX	3.0	3.0	76	33.72
Z-303	M. TRUNCATULA	2.0	0.0	64	33.55
DALKEITH	T. SUBTERRANEUM	2.0	0.0	77	28.62
Z-307	M. TRUNCATULA	3.0	1.0	62	28.40
LIB1504.3	M. TRUNCATULA	1.5	2.0	56	22.77
NUNGARIN	T. SUBTERRANEUM	2.5	0.0	64	21.16
SA11826	M. LITTORALIS	2.0	3.0	68	20.43
SA 8450	M. ORBICULARIS	2.0	2.0	56	18.34
GMJ 75.2	M. LITTORALIS	1.0	0.0	82	17.89
SA14109	M. ROTATA	3.5	1.5	66	14.19
SYR10.2	M. TRUNCATULA	3.0	2.0	87	13.06
GMJ 71	M. LITTORALIS	0.5	1.0	78	11.60
GMJ 70	M. LITTORALIS	1.0	0.0	86	10.67
GMJ 18	M. LITTORALIS	1.0	0.0	84	8.29
GMJ 74.2	T. SUBTERRANEUM	1.0	0.0	86	5.22
GMJ 87	M. TURBINATA	1.0	0.0	90	4.96
GMJ 1	M. DISCIFORMIS	0.5	0.0	78	2.26
GMJ 65	M. LITTORALIS	1.0	0.0	85	1.39
GMJ 73	M. LITTORALIS	1.0	1.0	73	0.70

\* Aphid damage rating - 0 no damage visually evident  
4 row severely affected

#### Comments:

Inoculated and lime pelleted seed was hand sown into 3m rows at 0.25 g/m. All the medics were inoculated with WSM 540 which may have been less effective with some of the M. littoralis and M. tornata varieties. The 1988 season was very good in terms of frequency and amount of rainfall which is reflected in the high seed yields compared to 1987.

Trial: 88EC17

Title: Annual medic evaluation on Eradu sandplain soil - plots.

Location: East Chapman Research Station.

Soil Type: Deep yellow sand, pH 5.8 (1:5 water)

April to October Rainfall: 327.9 mm

Sowing Date: 9/6/88

Fertilizer: Superphosphate 140 kg/ha drilled at sowing.  
Murate of potash 70 kg/ha applied 6 weeks after germination.

Results:

VARIETY	SPECIES	APHID DAMAGE *RATING	VIGOUR RATING 26/8/88	DAYS TAKEN TO FORM FLOWERS	!RIPE PODS	SEED YIELD g/m2
SWANI	M.TORNATA	2	2	59	103	97.7
LIB 17.1	M.TORNATA	1	4	66	108	92.8
N5067	M.TORNATA	0	5	70	112	92.1
LIB 52.2	M.TORNATA	2	3	56	101	87.4
SA11829	M.TORNATA	3	2	60	101	81.5
TORNAFIELD	M.TORNATA	1	4	71	115	78.8
SA 5550	M.POLYMORPHA	4	1	54	95	75.5
SERENA	M.POLYMORPHA	3	2	52	96	74.6
LIB147 1	M.TRUNCATULA	1	3	64	109	63.8
SA10012	M.TORNATA	0	5	78	121	63.1
SANTIAGO	M.POLYMORPHA	3	2	57	96	60.4
SA 9145	M.TORNATA	1	5	76	121	55.7
LIB 791.5	M.LITTORALIS	0	4	64	107	55.4
HARBINGER	M.LITTORALIS	1	3	63	108	52.2
SA 9818	M.TRUNCATULA	3	2	56	102	48.5
Z-111 F6	LITT*TRUN HYB	3	2	70	100	44.8
SA 2678	M.SCUTELATA	0	1	61	93	43.7
Z-239 F4	M.LITTORALIS	2	3	65	107	42.8
SA17216	M.TRUNCATULA	3	2	62	104	41.2
SA 9811	M.TRUNCATULA	4	2	52	98	40.2
SA17210	M.TRUNCATULA	4	2	57	99	38.5
SA 9790	M.LITTORALIS	2	2	60	115	36.8
SA11826	M.LITTORALIS	3	2	57	101	36.9
SA 9821	M.TRUNCATULA	4	1	55	102	36.2
SA 8458	M.TRUNCATULA	3	2	52	94	35.6
PARABINGA	M.TRUNCATULA	1	3	71	109	35.4
SA 5615	M.SCUTELATA	0	1	57	93	32.6
CYRENE 3	M.LITTORALIS	2	2	70	116	32.3
SA11720	M.TORNATA	2	3	60	107	29.8
Z-189 F5	M.TRUNCATULA	0	5	66	122	29.1
Z-9 F4	M.TRUNCATULA	0	5	74	115	28.9
GRC 50	M.MUREX	2	3	75	121	28.6

VARIETY	SPECIES	APHID DAMAGE *RATING	VIGOUR RATING 26/8/88	DAYS TAKEN TO FORM FLOWERS !RIPE PODS		SEED YIELD g/m2
SA 9277	M.TORNATA	0	4	74	123	28.6
SA 9822	M.TRUNCATULA	4	2	67	97	28.1
PARAGGIO	M.TRUNCATULA	2	4	81	121	27.7
SAVA	M.SCUTELATA	0	1	61	91	25.8
SAD 5341	M.POLYMORPHA	1	3	70	115	24.8
GRC5674.3	M.LITTORALIS	3	2	77	118	24.5
GRC5675	M.TRUNCATULA	1	3	72	116	24.0
GRC5674.2	M.TRUNCATULA	2	3	73	115	23.6
GRC5658.2	M.MUREX	3	2	74	119	23.3
DALKEITH	T.SUBTERRANEUM	0	3	79	-	23.1
CYPRUS	M.TRUNCATULA	4	2	58	105	22.8
GRC5673.2	M.TRUNCATULA	4	2	73	117	20.4
GRC5661.1	M.LITTORALIS	1	2	72	116	20.0
Z-117 F6	M.TRUNCATULA	3	2	64	113	18.5
Z-110 F6	LITT*TRUN HYB	2	3	67	112	18.2
GRC566 4	M.TRUNCATULA	1	2	74	120	17.7
NUNGARIN	T.SUBTERRANEUM	1	2	65	-	15.0
SA10966	M.LITTORALIS	1	2	61	117	14.7
Z-188 F5	M.TRUNCATULA	2	3	71	113	12.9
SA 4332	M.SCUTELATA	0	2	67	100	10.8
GRC5661	M.MUREX	4	1	71	122	10.3

\* Aphid damage rating - 0 no damage visually evident.

4 plot severely affected.

! Pods were defined as ripe if they dropped readily from the plant.

#### Comments:

The plots were hand sown at 2 g/m2 of inoculated and lime pelleted seed. The medics were inoculated with WSM540 which may have been ineffective on some of the M. littoralis and M. tornata varieties. The time taken to form ripe pods was monitored to gain some extra measure of maturity besides flowering time for comparing wide ranges of species. The ripening time involved was very similar over all the varieties, averaging out to 44 days after the flower opens. What appears to be a more important factor when considering maturity is the rate of flower and pod development, which appears the most rapid in M. tornata and M. polymorpha.

Trial: 88EC18

Title: Effect of deep ripping and aphid infestation on pasture production.

Location: East Chapman Research Station

Soil Type: Deep yellow sand, pH 5.8 (1:5 water)

April to October Rainfall: 327.9 mm

Sowing Date: 25/5/88

Fertilizer: Superphosphate 140 kg/ha drilled at sowing.  
Murate of potash 70 kg/ha applied 6 weeks after sowing.

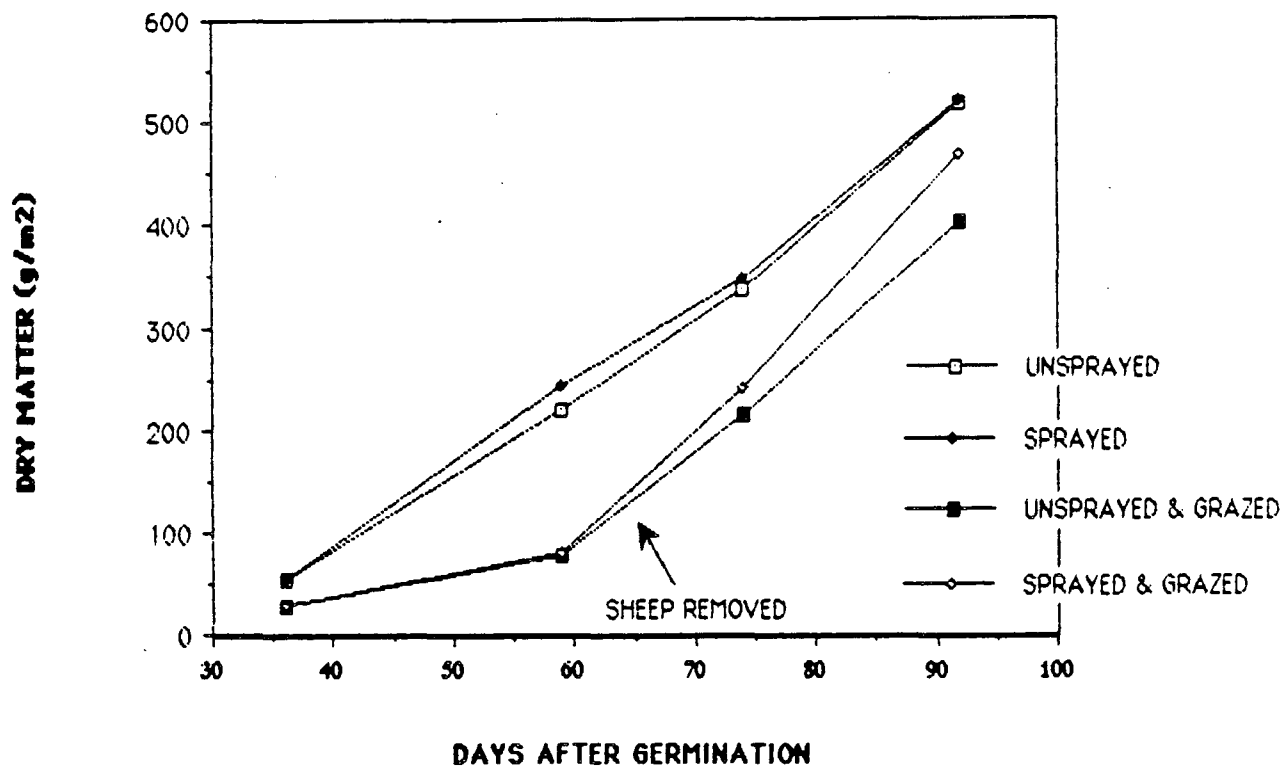
Results:

CULTIVAR	APHID CONTROL	SEED YIELD t/ha	SEEDS PER POD	SEED WEIGHT (mg)
Ungrazed Harbinger	No	1.11	4.3	2.06
	Yes	1.34	4.5	2.11
Parabinga	No	1.15	7.5	2.50
	Yes	1.06	7.0	2.76
LSD p<0.05		0.22	0.7	0.18
Grazed until 3/8/88 Harbinger	No	1.32	4.2	2.19
	Yes	1.50	4.1	2.36
Parabinga	No	0.96	6.7	2.94
	Yes	1.00	6.1	2.92
LSD p<0.05		0.17	0.8	0.12

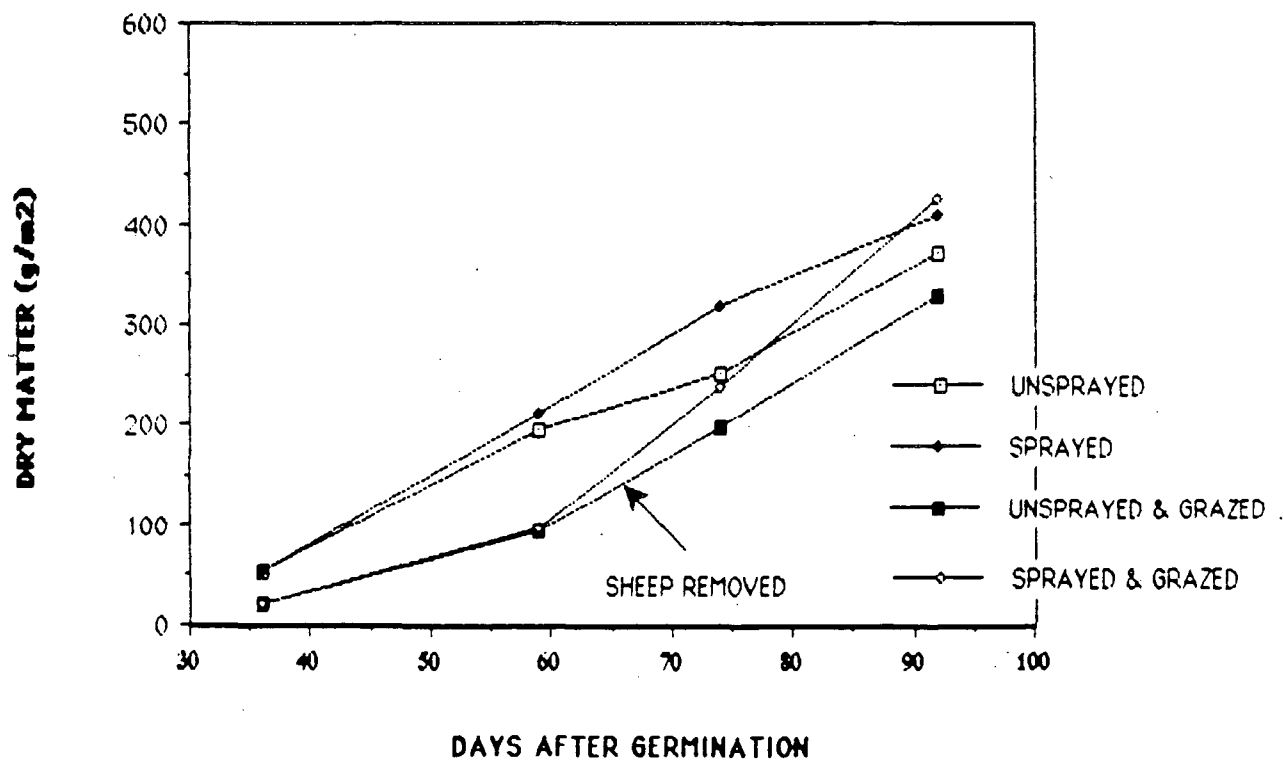
Comments:

Half the trial site was cultivated to 30cm at the break of the season and the whole site was normally cultivated. Weeds were then sprayed with Roundup at 1 l/ha prior to seeding with an eight run cone seeder. The plots were kept weed free during the year by hand weeding. The root distribution was calculated from soil cores taken in 20 cm increments on 20 August. Aphid control consisted of spraying every two weeks with Pirimor at 140 g/ha between July and October. Lorsban at 150 ml/ha was used for the last two sprays, which appeared to have some affect on the pasture growth and may have compounded the results slightly. Both cultivars displayed an early response to deep ripping, however this response had faded out by 8 weeks after germination and had no effect on seed yield. Blue-green aphids were at the highest numbers between 8 and 11 weeks, and had virtually disappeared by 13 weeks.

EFFECT OF APHID CONTROL ON THE GROWTH OF PARABINGA MEDIC AT ECRS IN 1988.

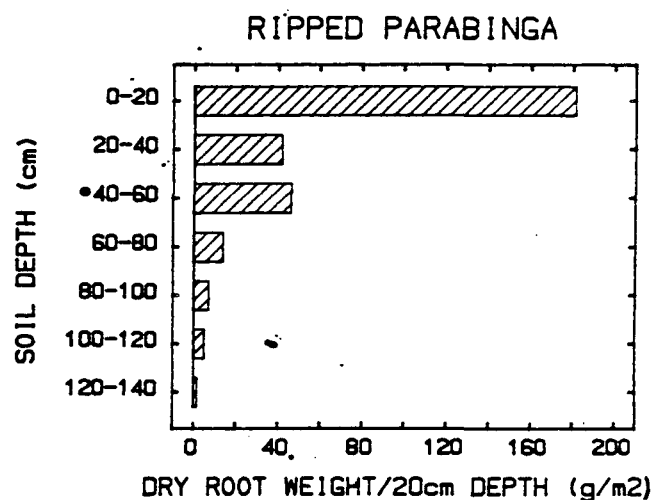
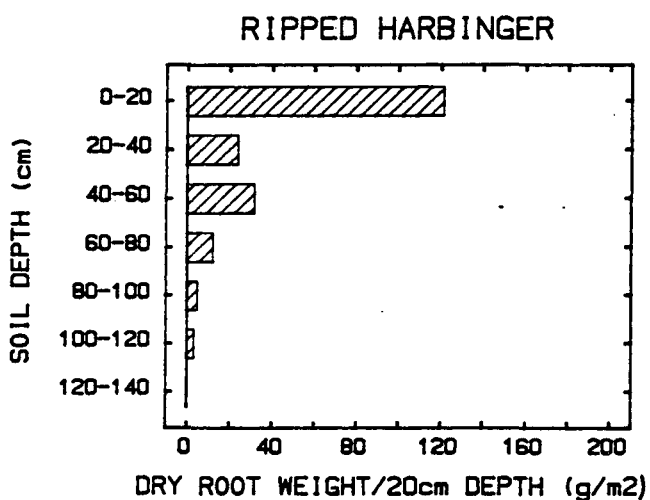
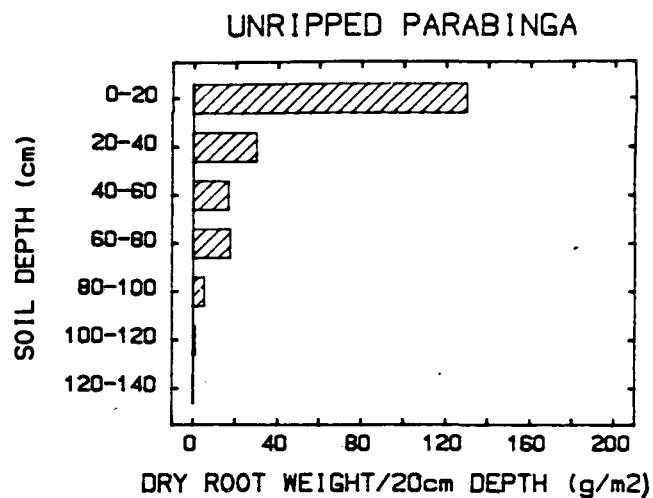
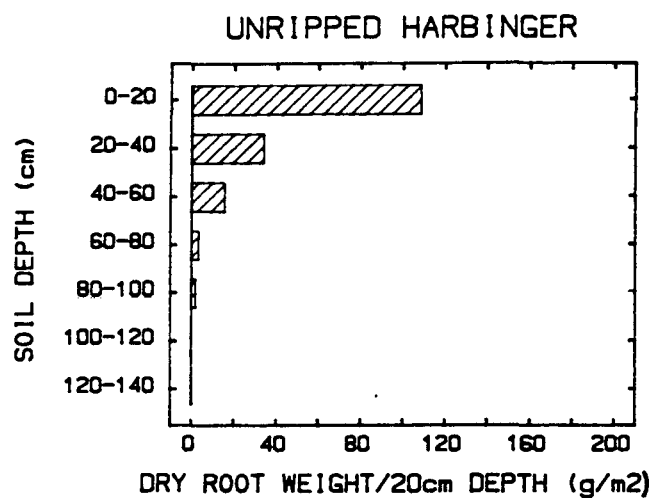


EFFECT OF APHID CONTROL ON THE GROWTH OF HARBINGER MEDIC AT ECRS IN 1988.



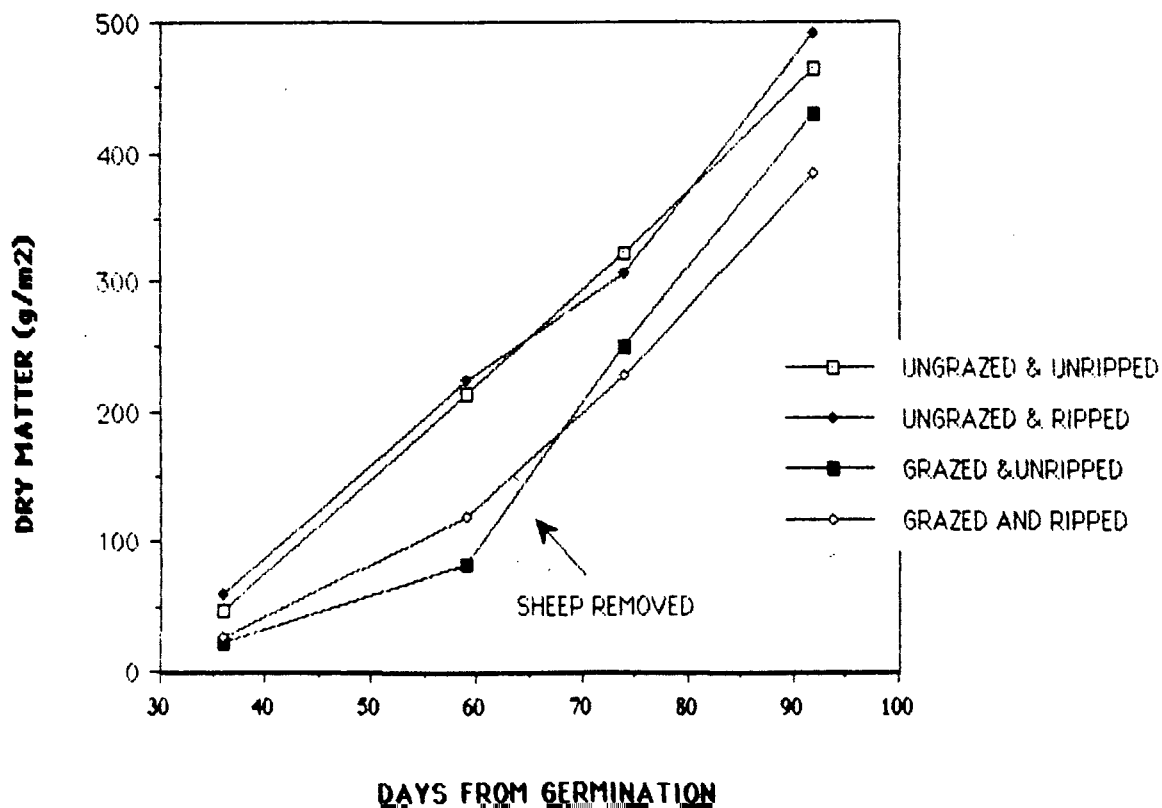


# ROOT DISTRIBUTION OF HARBINGER & PARABINGA MEDICS ON DEEP YELLOW SAND



CORES TAKEN 26/8/88 - 74 DAYS AFTER GERMINATION

## EFFECT OF DEEP RIPPING ON MEDIC GROWTH



Trial: 87GE81

Title: Serradella establishment on light textured soil.

Aim: Evaluate early maturing serradella lines on deep sands.

Location: East Chapman Research Station.

Soil Type: Deep yellow sand, pH 5.8 (1:5 water).

April to October Rainfall: 327.9 mm

Sowing Date: 5/6/87

Fertilizer: Superphosphate 140 kg/ha drilled at sowing.  
Murate of potash 50 kg/ha applied 6 weeks after germination.

Results:

VARIETY	DRY WEIGHT (g/m <sup>2</sup> )	
	LEGUME	TOTAL
ENEABBA	156	255
MC1	149	245
GTO46	143	261
UNISERRA	121	255
MADEIRA	103	211
HARBINGER MEDIC	95	224
DP6	81	211
GTO65.2	74	207
NUNGARIN/NORTHAM SUBCLOVER	62	173
TAURO	22	175
NATURAL PASTURE	18	143
PITMAN	15	150
LSD p<0.05	48	

Comments:

The trial site was grazed at 3 dse/ha from 10/6 to 22/7. The earlier flowering serradella varieties compare favorably to Harbinger medic and the subclover mix.

Trial: 88GE34

Title: Pasture cultivar comparison on red loam soil - large plots.

Aim: Evaluation of pasture cultivars in large plots.

Location: North Mullewa Research Station  
Morawa Agricultural School

Soil Type: Both sites are a heavy red clay loam (Salmon Gum soil). NMRS pH 6.2 (1:5 water).  
Morawa pH 5.8 (1:5 water ) 5.0 (1:5 0.01M CaCl<sub>2</sub>).

April to October Rainfall: NMRS 370 mm, Morawa 316 mm.

Sowing Date: NMRS 3/6/88  
Morawa 25/5/88

Fertilizer: Superphosphate 70 kg/ha drilled at seeding.

Results:

Dry matter yields and seed yields of annual pasture legume cultivars at North Mullewa Research Station in 1988.

CULTIVAR	DRY MATTER YIELD (g/m <sup>2</sup> ) TAKEN			SEED YIELD (g/m <sup>2</sup> )
	14 JUL	15 AUG	12 SEP	
Serena	33.2	258	175	33.1
Santiago	37.6	276	206	19.7
Cyprus	22.1	256	203	6.4
Parabinga	49.3	360	344	12.1
Parragio	34.4	276	281	0.1
Harbinger	45.2	255	242	9.2
Zodiac	36.1	210	166	-
Swani	13.6	151	113	3.8
Parragosa	27.6	214	219	0.8
Sava	21.3	151	323	27.1
Nungarin	26.0	260	187	1.6
Dalkeith	21.9	263	170	0.2
Daliak	19.9	269	162	-
Hykon	22.9	228	195	1.6
LSD (p=0.05)	7.8	63	82	12.7

Dry matter yields and seed yields of annual pasture legume cultivars at Morawa in 1988.

CULTIVAR	DRY MATTER YIELD (g/m <sup>2</sup> ) TAKEN			SEED YIELD (g/m <sup>2</sup> )
	27 JUL	24 AUG	23 SEP	
Serena	73	222	193	37.1
Santiago	64	263	381	38.0
Cyprus	52	186	264	18.4
Parabinga	72	238	363	25.0
Parragio	52	170	236	5.7
Harbinger	67	179	326	24.0
Zodiac	58	156	244	1.2
Swani	23	129	201	24.4
Parragosa	56	169	296	3.9
Sava	35	180	276	21.1
Nungarin	40	172	227	4.9
Dalkeith	49	149	258	4.8
Daliak	53	169	196	1.5
Hykon	53	180	293	7.4
LSD (p=0.05)	24	20	39	11.9

Comments:

Results above are from ungrazed pastures. There was included in the trial a grazed treatment which was eaten out by stock due to the poor quality of surrounding pastures. There was a very large Blue-green aphid infestation of trial plots and surrounding pastures at North Mullewa which badly damaged any susceptible cultivars. Aphids were present but not in large numbers at Morawa.

Trial: 88TS63

Title: Pasture cultivar comparison - large plots.

Aim: To evaluate the effect of various legume pasture cultivars on pasture and crop production.

Location: Perenjori - T Coonan.

Soil Type: Red sandy clay loam, pH 5.3 (1:5 water) 3.9 (1:5 0.01M CaCl<sub>2</sub>)

April to October Rainfall: 267 mm.

Fertilizer: Superphosphate 70 kg/ha drilled at seeding.

Sowing Date: 25/5/88

Results:

CULTIVAR	DRY MATTER YIELD (g/m <sup>2</sup> )		TAKEN	SEED YIELD (g/m <sup>2</sup> )
	27 JUL	24 AUG		
Serena	60	190	144	64.6
Santiago	113	277	248	80.0
Cyprus	37	96	125	18.5
Parabinga	87	270	380	27.7
Parragio	46	158	215	11.2
Harbinger	40	142	91	18.1
Zodiac	69	187	294	0.5
Swani	18	87	77	29.6
Parragosa	58	157	175	0.4
Sava	43	161	240	38.8
Nungarin	56	204	372	18.6
Dalkeith	63	217	398	14.0
Daliak	62	227	386	4.8
Hykon	47	182	339	11.0
LSD (p=0.05)	31	78	104	14.5

Comments:

The results above were recorded from ungrazed pastures. There was a grazed treatment however these plots were grazed out by stock due to the poor quality of surrounding pastures.

Trial: 88TS65

Title: Pasture cultivar comparison - large plots.

Aim: To evaluate the effect of various pasture legume cultivars on pasture and crop production.

Location: Three Springs - P. Millards.

Soil Type: Red clay loam, pH 7.1 (1:5 water) 6.0 (1:5 0.01M CaCl<sub>2</sub>).

April to October Rainfall: 388 mm.

Sowing Date: 30/5/88

Fertilizer: Superphosphate 70 kg/ha drilled at seeding.

Results:

CULTIVAR	DRY MATTER YIELD (g/m <sup>2</sup> ) TAKEN			SEED YIELD(g/m <sup>2</sup> )	
	28 JUL	1 SEP	30 SEP	Ungrazed	Grazed*
Serena	87	300	481	90.0	52.6
Santiago	88	359	584	67.2	45.9
Circle Valley	64	294	594	51.5	18.9
Cyprus	68	241	518	46.8	34.4
Parabinga	116	334	700	53.5	40.0
Parragio	61	262	618	39.0	9.0
Harbinger	72	230	566	35.2	27.5
Zodiac	52	196	440	4.9	1.7
Tornafield	53	185	428	40.4	23.8
Parragosa	94	307	569	10.9	8.2
Sava	96	316	597	77.7	66.6
Nungarin	39	180	556	12.5	23.9
Dalkeith	64	203	740	19.2	19.0
Daliak	48	201	628	13.8	11.5
Geraldton	57	232	568	20.1	16.1
Seaton Park	69	256	615	1.0	2.2
Hykon	58	222	578	41.6	19.9
Madeira	19	141	364	6.1	5.4
Tauro	17	93	418	4.6	3.5
LSD (p=0.05)	35	51	170	17.8	10.4

\* Plots were grazed until 30 September.

Comments:

The plots were sown using an eight run cone seeder, at 15 kg/ha of inoculated and lime pelleted seed. Lucerne flea were present in large numbers early in the season, however this did not appear to affect the more vigorously growing cultivars. The grazed plots were commonly grazed with the paddock at approximately 3 DSE/ha. There did appear to be some differences in grazing preference with the Snail medic Sava and the Gamma medic Parragosa being less heavily grazed than burr medics, disc medics and barrel medics.

Trial: 88TS64

Title: Pasture cultivar comparison on acid wodjil soil - large plots.

Aim: To evaluate the effect of various legume pasture cultivars on pasture production on acid wodjil soils.

Location: Latham - I. McAlpine.

Soil Type: Grey-brown loamy sand, pH 5.6 (1:5 water) 4.7 (1:5 0.01M CaCl<sub>2</sub>).

Sowing Date: 1/6/88

Fertilizer: Superphosphate 70 kg/ha drilled at sowing.

Results:

CULTIVAR	DRY MATTER YIELD	SEED YIELD
	30 SEP (g/m <sup>2</sup> )	(g/m <sup>2</sup> )
Serena	-	62.4
Santiago	117	42.4
Parabinga	170	24.8
Zodiac	210	10.3
Nungarin	320	12.7
Dalkeith	404	27.5
Daliak	328	12.7
Geraldton	311	13.1
Hykon	312	31.8
Lisare	248	41.3
Madeira	184	10.5
Eneabba	209	22.9
Tauro	187	16.4
LSD (p=0.05)	61	8.5

Comments:

The trial was sown at 15 kg/ha of inoculated and lime pelleted seed using an eight run cone seeder. Fusilade was applied at 250 ml/ha plus 50 ml of wetter in late winter to control grass weeds. Serena had senesced by the 30 September when the dry matter cuts were taken.