

Table 6 cont'd

Summary - Foliage treatments. Expt 72/78 cont'd

Results cont'd

Herbicide	Dose kg/ha	Score (0-9)		F. Wt % control	Symptoms
		4 wks	7 wks		
Paraquat	0.56	1.5	2.0	3	cn
	1.12	0.8	0.0	0	
	2.24	0.0	0.0	0	
Pendimethalin	1.5	7.0	6.5	97	c(y)kslhA
	3.0	7.0	6.8	105	
	6.0	6.5	6.0	107	
Pentachlor	2.2	6.8	7.0	109	cnsA
	4.4	6.5	6.3	97	
	8.8	4.8	5.3	78	
Phenmedipham/	1.1	7.3	7.0	101	cnsA
	2.2	6.5	6.3	95	
	4.4	5.8	5.8	82	
Prodiamine	1.1	8.5	7.8	120	chksA
	2.2	8.0	7.3	103	
	4.4	7.5	6.8	112	
SMA*	14.0	4.0	3.5	40	cnkA
	28.0	2.0	2.5	15	
	56.0	2.0	2.3	12	
Triclopyr	0.2	1.5	0.8	3	ekn
	0.8	0.0	0.0	0	
	3.2	0.0	0.0	0	
Trifop-methyl	1.5	7.3	6.5	63	nlhsA
	3.0	6.5	6.5	91	
	6.0	5.5	6.0	91	
UNI-N252	0.5	8.5	7.3	99	nshA
	1.5	7.3	7.0	112	
	4.5	6.3	6.5	88	
Untreated controls	-	9.0	7.8	100 (65.9g)	
S.E. \pm (treated v untreated)		0.14	0.19	6.5	

/ Spray volume rate 240 l/ha

* + Agral (1%)

Table 7

Summary - foliage treatments Expt 74/80

Planted: 22.5.80
 Treated: 13.6.80
 Spray volume rate: 437 l/ha

Assessments:

Score 1 30.6.80
 Score 2 14.7.80
 Fresh wt 6.8.80

Met data on 13.6.80
 Temps °C: 9 a.m. 17.5
 Max. 22.4 Min. 12.5
 RH%: 85
 Sunshine hours: 8.8

Results

Herbicide	Dose kg/ha	Score (0-9)		Fresh wt % control	Symptoms
		2 weeks	4 weeks		
Acifluorfen	1.5	5.8	6.0	83	c(y)nA
	3.0	4.8	5.0	94	
	6.0	5.3	4.5	80	
Alachlor	2.25	8.5	8.8	102	nryA
	4.5	7.0	7.0	90	
	9.0	6.3	6.5	99	
Alloxydim	1.5	8.8	9.0	86	cnsA
	3.0	7.0	7.5	93	
	6.0	5.0	5.5	65	
Buminaphos	1.0	7.5	7.5	94	n(m)nA
	3.0	5.8	5.8	75	
	9.0	5.0	5.8	90	
Chlorsulfuron	0.005	3.0	2.8	17	cn
	0.025	3.0	2.8	4	
	0.125	2.3	0.8	0	
	0.625	2.0	0.5	0	
Diphenamid	4.5	9.0	8.8	94	c(y)nk
	9.0	9.0	9.0	101	
	18.0	8.5	8.8	101	
Fluazifop*	0.75	8.8	8.5	100	cknsy
	1.5	8.0	8.3	103	
	3.0	7.3	7.8	100	
Hexazinone	2.0	4.0	4.5	36	cnc(y)A
	4.0	3.0	1.8	0	
	8.0	2.3	0.0	0	

* + Agral (0.1%)

Table 7 cont'd

Summary - foliage treatments Expt 74/80 cont'd

	Dose kg/ha	Score (0-9)		Fresh wt % control	Symptoms
		2 weeks	4 weeks		
Phenmedipham [/]	1.1	7.0	6.8	107	cnA
	2.2	4.3	4.5	95	
	4.4	3.0	2.8	12	
Sethoxydim	1.5	5.3	5.5	90	cnsx
	3.0	4.3	5.8	115	
	6.0	3.0	4.0	76	
Tebutam	4.3	6.0	6.8	105	nckSA
	8.6	5.5	5.8	105	
	17.2	3.0	3.3	65	
Untreated controls	-	9.0	8.6	100 (27.0g)	
S.E. (treated v untreated)		0.13	0.19	7.4	

[/] Spray volume 211 l/ha

Table 8

Summary - foliage treatments Expt 74/81

Planted: 8.7.81
 Treated: 7.8.81
 Spray volume rate: 386 l/ha

Assessments

Score 1 1.9.81
 Score 2 22.9.81
 Fresh wt 6.11.81

Met data for 7.8.81

Temps °C: 9 a.m. 15.0
 Max. 15.1 Min. 13.5
 RH%: 96
 Sunshine hours: 0

Results

Herbicide	Dose kg/ha	Score (0-9)		Fresh wt (% control)	Symptoms
		3 weeks	6 weeks		
AC 222293	1.0	6.3	5.7	86	c(y)
	3.0	5.0	5.7	96	
Benazolin (K salt)	0.2	5.3	5.7	95	esf(y)
	0.6	3.7	4.3	73	
Clopyralid	0.2	6.0	6.0	89	echf(y)A
	0.6	4.7	5.6	72	
Chlorthal dimethyl	6.5	7.7	6.7	89	c(y)nkA
	19.5	6.3	6.3	81	
Dikegulac	2	4.0	4.7	69	s(y)c(y)nx
	6	3.0	3.3	47	
Dinoseb-in-oil	10	1.0	1.0	9	n
	30	0.0	0.0	0	
Glufosinate	0.5	1.0	1.3	5.0	n(y)n
	1.5	0.3	0.0	0.0	
MBR 18337	0.25	5.7	6.7	grown on	s(y)wxkh
	0.75	4.3	4.7		
Mefluidide	0.25	6.3	6.3	grown on	hsw(y)k(y)yA
	0.75	4.7	5.3		
Monisouron	0.25	5.7	5.0	68	cnyA
	0.75	5.0	5.3	58	
Paclobutrazol	1.0	5.7	4.7	grown on	swkhx
	3.0	4.7	4.7		
Paraquat	1.1	0.0	0.0	0	n
	3.3	0.0	0.0	0	

Table 8 cont'd

Summary - foliage treatments

Expt 74/81 cont'd

Herbicide	Dose kg/ha	Score (0-9)		Fresh wt (% control)	Symptoms
		3 weeks	6 weeks		
Phenmedipham/	0.8	7.3	8.0	93	cnA
	2.4	6.3	6.7	82	
Propachlor	4.5	7.7	7.0	77	n(y)c(y)w(y)
	13.5	6.3	6.3	88	snA
SMA (Herbon Ion)	22.5	0.0	0.0	0.0	n
	67.5	0.0	0.0	0.0	
SMA (Herbon Somon)*	22.5	3.7	4.0	46	nx
	67.5	1.0	3.2	7	
Untreated controls	-	7.8	8.5	100 (53.4g)	
S.E. \pm (treated v untreated)		0.26	0.27	7.9	

/ Spray volume rate 240 l/ha
* + Agral (1%)

Table 9

Summary - foliage treatments Expt 77/82

Planted: 16.7.82
 Treated: 27.8.82
 Spray volume rate: 240 l/ha

Assessments:

Score 1 10.9.82
 Score 2 4.10.82
 Fresh wt 21.10.82

Met data on 27.8.82
 Temps °C 9 a.m. 14.5
 Max. 19.8 Min. 5.5
 RH: 77%
 Sunshine hours: 7.8

Results

	Dose kg/ha	Score (0-9)		Fresh wt % control	Symptoms
		2 weeks	6 weeks		
AC 222293	1.0	7.3	6.8	109	c(y)*s
	3.0	7.0	4.5	98	
Dowco 453	0.1	8.0	7.3	97	n(op)nshA
	0.4	5.7	5.8	83	
FBC 32197	0.4	8.0	8.3	119	n(o)c(y)sn1A
	1.6	6.3	7.3	100	
Fluazifop ^x	1.25	8.8	8.0	110	sn(y)hA
	3.75	7.5	7.8	97	
Metazachlor [/]	1.25	5.3	5.3	86	k(y)h(y)snrA
	3.75	4.3	3.5	62	
Napropamide	3	8.3	7.8	104	c(y)nA
	9	8.0	7.5	120	
Phenmedipham	1.1	7.8	7.5	105	cnA
	3.3	6.0	6.0	81	
Propachlor [/]	4.5	7.5	8.0	100	nshr(v)A
	13.5	6.0	6.3	94	
Pyridate	2	6.0	6.3	75	cn(m)nA ⁺
	6	5.3	5.5	64	
R40244	0.5	5.5	5.3	53	n(o)c(y)nc ^{+o}
	1.5	4.0	3.0	22	
Untreated		7.9	7.9	100 (54.0 g)	
S.E. <u>±</u> (treated v untreated)		0.27	0.28	9.4	

* All new leaves yellow/green
 + Old leaves dead
 / Volume rate 475 l/ha

^o distinct white patches on younger
 sprayed leaves
 x + Agral (0.1%)

Table 10

Summary - Foliage treatments

Expt 74/83

Planted: July 83
 Treated: 7.9.83
 Spray volume rate: 240 l/ha

Assessments:

Score 1 7.10.83
 Score 2 25.10.83
 Fresh wt 3.7.84

Met. data for 7.9.83
 Temps °C: 9 a.m. 13.9
 Max. 19.4 Min. 6.2
 RH%: 67
 Sunshine hours: 8.6

Results

Herbicide	Dose (kg/ha)	Score (0-9)		Fresh wt % control	Symptoms
		4 weeks	6 weeks		
Amitrole*	1.1	4.0	3.0	71	c(y)n(m)n
	4.4	3.0	2.0	7	
Clopyralid	0.2	7.0	7.2	96	ef(y)sA
	0.6	5.7	4.5	87	
Diuron	0.25	5.7	5.0	78	nA
	0.5	5.7	5.2	92	
	1.0	5.2	4.5	87	
	2.0	4.2	3.2	79	
Fluroxypyr	0.2	2.7	2.0	28	en
	0.6	2.0	0.5	0	
Simazine s.c.	1.0	7.5	7.8	94	cA
	3.0	7.2	7.0	98	
Untreated control		7.2	7.4	100 (22.4g)	
SE ± (treated v. untreated)		0.31	0.30	11.8	

* as Weedazol TL

Table 11

Summary - Root treatments

Expt 10/73

Planted: 30.4.73
Treated: 5.7.73

Assessments:

Score 1 20.7.73
Score 2 7.8.73
Fresh wt 7.8.73

Met. data on 5.7.73

Temps °C: 9 a.m. 14.0
Max. 23.2 Min. 8.2

RH%: 68

Sunshine hours: n.a.

Results

	TI			RI			Symptoms
	Score 1	Score 2	Fr.wt	Score 1	Score 2	Fr.wt	
Ametryn	0.5	0.5	0.3	3.1	2.1	2.3	c(v)n(i)nA
Amitrole	10	7.6	1.5	5.1	2.9	2.3	c(v)c(y) n(y)rs
Bromacil	0.5	0.7	0.3	3.0	2.1	2.7	c(vm)n(i)nA
Chloridazon	3.4	4.6	5.6	2.8	2.0	1.0	c(v)n(im)nA
Chloroxuron	571	129	241	3.5	7.7	3.0	c(m)sn(m) c(vp)lA
Chlorpropham	6.1	<1.2*	<0.9*	4.1	NR	NR	l(st)s(y)snA
Dalapon	9.5	4.7	4.9	11	15	49	r(m)n(m) l(s)nA
Glyphosate	25	37	16	6.1	4.0	5.2	c(y)n(y) l(st)rsn
Lenacil	2.2	3.2	4.3	19	4.3	3.0	c(v)n(i)nA
Prometryn	0.6	0.6	0.5	3.6	1.9	1.7	c(miv)n(i)nA
Propyzamide	3.9	1.6	1.0	21	1.5	1.6	s(y)n(y) l(st)sn
TCA	117	48	51	10	8.0	8.0	wr(m)lrnsA
Terbacil	0.8	1.0	0.9	3.4	2.5	2.4	c(v)n(mi)cnA
Trietazine	11	14	8.1	2.4	1.7	2.0	c(v)n(mi)nA
Trifluralin	NR	4.8	3.0	NR	2.7	3.1	cs(y)l(st)s

Standard

Simazine 1 1 1 3.7 1.8 1.5 c(im)nA

Dose range (mg/pot) 0.14 - 10.8

Actual ED 20 values (mg/pot) 0.93 Score 1
0.66 Score 2
0.86 Fresh wt

* all doses > 20% damage

Table 12

Summary - root treatments

Expt 16/73

Variety: Cambridge Favourite
 Planted: 25.6.73
 Treated: 16.8.73

Assessments:

Score 1 30.8.73
 Score 2 27.9.73
 Fresh wt 1.10.73

Met. data on 16.8.73
 Temps °C: 9 a.m. 16.3
 Max. 29.5 Min. 11.0
 RH%: 79
 Sunshine hours: n.a.

<u>Results</u>	TI			RI			Symptoms
	Score 1	Score 2	Fr.wt.	Score 1	Score 2	Fr.wt.	
Aziprotryne	2.7	1.6	1.6	6.0	1.4	1.4	c(m)n(m)nA
Bentazone	67	53	7.7	2.3	2.9	7.1	c(y)n
Bifenox	> 200	> 183	> 142	NR	NR	NR	
Chlorbromuron	7.0	1.6	0.9	3.5	1.4	1.4	c(v)n(i)nA
Chloroxuron	271	184	61	72	11	8.8	c(v)s1A
Chlornitrofen	> 68	> 73	> 57	NR	NR	NR	
Chlorthal- dimethyl	> 171	> 183	> 142	NR	NR	NR	
Cyanazine	1.7	1.1	0.8	5.0	2.1	1.9	c(y)nA
Ethofumesate	45	27	35	4.0	2.4	1.8	s(y)whs
Isocarbamid	65	80	35	2.7	1.6	1.6	c(m)n(m)nA
Lenacil	17	10	5.5	6.7	1.2	1.6	c(v)n(i)cnA
Linuron	4.0	1.2	1.7	4.6	2.1	1.4	cnA
Metabromuron	2.0	1.0	0.7	6.2	2.3	1.7	c(m)n(m)nrA
Methazole	5.1	1.5	0.9	7.3	2.2	2.0	cnA
Norflurazon	7.8	1.4	3.0	50	7.3	3.1	c(v)r(mv)cnA
Oxadiazon	> 68	> 73	> 57	NR	NR	NR	
Pendimethalin	71	49	3.9	2.6	4.9	3.2	c(y)p)k(y)s(y)
Pentanochlor	> 171	> 183	> 142	NR	NR	NR	

Table 12 cont'd

Root treatments 16/73 Cont'd

	Score 1	Score 2	Fr.wt.	Score 1	Score 2	Fr.wt.	Symptoms
Perfluidone	> 85	> 91	> 71	NR	NR	NR	
Propachlor	> 120	75	77	NR	2.8	2.1	s(y)c(m)n lsrA
RU 12068	2.3	3.3	4.0	5.8	2.1	1.6	cn
RU 12709	1.2	1.4	0.9	6.6	1.8	1.6	n
SAN 52123	3.6	1.8	1.4	4.1	2.3	1.5	n(i)c(mi)n
Sodium chlorate	620	286	151	8.7	9.7	16	c(y)s(y) r(v)ynA
Terbacil	2.7	2.6	1.3	5.0	1.9	1.6	cn(i)n
Terbuthylazine	5.7	1.2	2.9	5.2	2.1	1.2	c(v)nA
Terbutryn	4.5	1.2	2.0	12	3.8	1.9	c(v)nA
U 27267	62	49	32	2.0	1.5	1.9	l(sd)r(m)cs

Standard

Simazine	1	1	1	20	3.2	2.5	cnA
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Dose range (mg/pot): 0.32 - 25.9

Actual ED20 value	0.30	Score 1
for simazine (mg/pot)	0.28	Score 2
	0.36	Fresh weight

Table 13

Summary - root treatments

Expt 9/74

Planted: 12.7.74
Treated: 13.8.74

Assessments:
Score 11.10.74
Fresh wt 16.10.74

Met. data on 13.8.74
Temps °C: 9.00 hrs 12.6
Max. 19.1 Min. 12.3
RH%: 97
Sunshine hours: 0

Results

	TI		RI		Symptoms
	Score	Fr. wt	Score	Fr. wt	
Asulam	44	77	2.5	1.4	cns1
Benzadox	36	31	NR	NR	cns
Carbetamide	3.5	<3.0	7.6	NR	s1
Lenacil	3.2	4.2	7.2	2.8	c(v)n
Isoproturon	<1.0	<1.0*	NR	NR	n
Metamitron	5.4	9.2	2.9	2.6	c(i)n
Oxyfluorfen	4.0	7.8	8.9	5.0	s1

Standard

Simazine	1	1	2.2	2.0
Dose range (mg/pot)	0.14 - 10.8			
Actual ED ₂₀ values (mg/pot)	0.40	Score		
	0.32	Fresh wt		

* killed at lowest dose, 1.2 mg/pot

Table 14 .

Summary - root treatments

Expt 72/75Planted: 13.6.75
Treated: 30.7.75

Assessments:

Score 1 15.9.75
Score 2 21.11.75
Fresh wt 17.9.75Met. data on 30.7.75
Temps °C 9 a.m. 18.8
Max 29.3 Min 21.2

RH% n.a.

Sunshine hours n.a.

Results

	TI			Score 1	Score 2	Fr.wt	Symptoms
	Score 1	Score 2	Fr.wt				
Dimefuron	0.4	0.3	0.4	1.7	1.5	1.5	c(iv)n
Methabenz- thiazuron	2.2	1.7	2.3	1.2	1.2	1.6	n

Standard

Simazine 1 1 1 2.0 1.5 1.7

Dose range (mg/pot) 0.2-5.4

Actual ED₂₀ values (mg/pot) 0.34 Score 1
0.43 Score 2
0.27 Fresh wt

Table 15

Summary - Root treatments

Expt 71/78

Planted: 4.5.78
Treated: 13.7.78

Met. data on 13.7.78
Temps °C: 9 a.m. 17.6
 Max. 23.4 Min. 7.9
% RH: 82
Sunshine hours: 10

Assessments:

Score 1 11.8.78
Score 2 25.8.78
Fresh wt 11.9.78

Results

Herbicide	TI			RI			Symptoms
	Score 1	Score 2	Fr.wt	Score 1	Score 2	Fr.wt	
Alloxydim	20	64	108	5.1	NR	NR	csA
Ammonium sulphamate	65	144	320	3.7	2.7	1.4	cny
Clopyralid	0.3	0.3	2.3	NR	9.1	9.2	ef(y)s1A
Cycloate	4.4	4.5	5.2	3.6	3.1	4.7	s
EPTC	7.5	7.5	8.8	3.1	3.6	3.4	nsw
Lenacil	3.5	4.7	6.1	3.3	2.6	1.7	cn
Prodiamine	24	20	34	3.8	NR	NR	1(sd)c(y)
SMA	48	67	139	2.7	2.3	1.7	sny
Triclopyr ester	0.5	0.6	0.8	2.1	1.6	2.1	eny
Trifop-methyl	19	32	25	2.3	2.3	2.6	ny

Standard

Simazine	1	1	1	1.8	1.7	1.5
Dose range (mg/pot)	0.08-6.48					
Actual ED20 values	2.9	Score 1				
for simazine (mg/pot)	3.2	Score 2				
	1.9	Fresh wt				

Table 16

Summary - Root treatments Expt 73/80

Planted: 21.5.80
 Treated: 12.6.80
 Met. data on 12.6.80
 Temps °C: 9 a.m. 13.3
 Max. 20.9 Min. 10.3
 RH%: 87
 Sunshine hours: 7.1

Assessments:
 Score 1 30.6.80
 Score 2 14.7.80
 Fresh Wt 7.8.80

Results

	TI			RI			Symptoms
	Score 1	Score 2	Fr.Wt	Score 1	Score 2	Fr.Wt	
Acifluorfen	11	11	11	2.7	2.4	1.5	cn(y)srA
Alachlor	108	49	81	4.0	4.4	1.7	snA
Alloxydim	238	185	235	NR	23	NR	ck(y)l(s)A
Buminaphos	238	235	188	NR	NR	NR	sr
Chlorsulfuron	0.001	0.003	0.004	20	4.4	6.3	csn
Diphenamid	29	19	30	2.2	2.8	1.5	c(y)nsA
Fluazifop	77	70	65	2.9	2.3	1.6	snA
Hexazinone	1.3	0.1	0.1	15	1.5	1.7	cnA
Lenacil	5.2	5.1	3.7	4.0	2.3	1.5	c(v)n
Sethoxydim	66	44	95	3.2	2.6	1.4	c(y)s(y)nA
Tebutam	48	40	82	3.0	3.5	1.7	c(y)nsA
<u>Standard</u>							
Simazine	1	1	1	2.7	1.6	1.2	

Dose range (mg/pot) 0.24-6.48

Actual ED20 values 0.86 Score 1
 for simazine (mg/pot) 0.87 Score 2
 1.09 Fresh Wt

Table 17

Summary - Root treatments Expt 76/81Planted: 24.7.81
Treated: 13.8.81

Assessments:

Score 1 3.9.81
Score 2 22.9.81
Fresh wt 17.11.81

Met. data for 13.8.81

Temps °C: 9 a.m. 18.4
Max. 27.7 Min. 9.1RH%: 74
Sunshine hours: 9.4Results

	TI			RI			Symptoms
	Score 1	Score 2	Fr. wt	Score 1	Score 2	Fr. wt	
AC 222293	1.0	1.7	11	6.4	6.9	3.9	c(y)s(y)k(y)x
Benazolin	0.9	0.5	2.5	4.4	5.7	1.8	ftsana
Clopyralid	0.3	0.6	0.9	5.7	5.8	10	csf(a)t
Dikegulac	3.6	50	95	3.7	2.9	2.1	c(y)s(g)xA
Glufosinate	8	8	12	22	5.2	1.7	cskr(m)A
Lenacil	2.4	2.6	2.7	3.7	3.2	1.9	c(v)n
MBR 18337	11	6.6	69	2.3	9.2	NR	csk(y)naA
Mefluidide	14	8.5	43	2.2	6.3	2.7	csknWA
Monisouron	<0.3	<0.2	<0.14	NR	NR	NR	n
Paclobutrazol	<0.5	<0.3	1.0	NR	NR	27	s(y)hr ^o
Pendimethalin	242	151	130	NR	NR	NR	cskA

Standard

Simazine 1 1 1 1.9 1.7 1.4 cnA

Dose range (mg/pot)
0.32-8.64Actual ED20 values 0.4 Score 1
for simazine (mg/pot) 0.64 Score 2
0.74 Fresh wt

o Deep green, no petioles

Table 18

Summary - Root treatments

Expt 78/82

Planted: 16.7.82
Treated: 1.9.82

Assessments:

Score 1 10.9.82
Score 2 4.10.82
Fresh wt 18.10.82

Met data on 1.9.82

Temps °C: 9 a.m. 14.6
Max. 18.4 Min. 8.8

RH%: 97

Sunshine hours: 2.1

Results

	TI			RI			Symptoms
	Score 1	Score 2	F. wt	Score 1	Score 2	F. wt	
Dowco 453	19	25	58	7.0	4.8	2.0	sy
FBC 32197	8.1	10	26	3.5	4.2	1.6	sbyrn1(s)
Fluazifop	75	47	126	8.8	10	7.1	sr
Lenacil	13	5.9	8.0	5.5	3.6	2.5	c(v)cn
Metazochlor	0.6	<3.0	0.6	NR	69	40	sn(y)hn
Napropamide	19	6.0	>57	7.6	5.4	NR	cslc(v)
Pendimethalin	43	15	>57	NR	141	NR	sl
Propachlor	37	36	95	10	5.6	1.7	sl
Pyridate	>256	>772	>337	NR	NR	NR	
R40244	0.4	1.2	2.5	NR	NR	2.3	c(vy)ncs

Standard

Simazine 1 1 1 8.5 3.3 1.5 cn

Dose range (mg/pot) 0.16-4.32

Actual ED20 values 1.0 Score 1

for simazine (mg/pot) 0.33 Score 2

0.76 Fresh wt

Table 19

Summary - Root treatments

Expt 75/83

Planted c 20.6.83
Treated 9.9.83

Assessments:

Score 1 25.10.83
Score 2 2.5.84
Fresh wt 20.6.84

Met. data on 9.9.83

Temps °C: 9 a.m. 13.6
Max. 15.6 Min 10.5
RH% 85
Sunshine hours: 4.0

Results

	TI			RI			Symptoms
	Score 1	Score 2	F. wt	Score 1	Score 2	F. wt	
Clopyralid	0.7	1.0	1.3	5.1	2.2	1.7	efa
Fluroxypyr	0.11	0.12	0.13	2.7	2.9	2.2	eny
Diuron	0.14	0.22	0.24	4.7	3.0	2.0	cn

Standard

Simazine	1	1	1	2.3	1.5	1.3	cn
----------	---	---	---	-----	-----	-----	----

Dose range (mg/pot) 0.32-8.64

Actual ED20 values

for simazine (mg/pot)	2.2	Score 1
	2.9	Score 2
	2.8	Fresh wt

APPENDIX 1

Criteria for assessing the potential of a new product for use in strawberries

In deciding whether to test further any particular herbicide, factors other than crop tolerance must be taken into account. These will include assessment of the economics of the use of the herbicide as well as its efficacy. However the same criteria will not be appropriate for the herbicide manufacturer/supplier seeking a new market for his product compared with the adviser/grower seeking an answer to a local but severe weed problem. A possible scheme for considering the potential usefulness of a new herbicide is suggested below.

Source of information

- | | |
|---|---|
| 1. What weed problems will the herbicide solve? | consult Weed Control Handbook, manufacturers literature. |
| 2. What herbicides are currently used for the problem? | consult ADAS booklet (MAFF, 1982) |
| 3. Is the new herbicide likely to be safer to the crop?
cheaper?
more acceptable in other ways
e.g. toxicology? | see Table 2 of this report;
other published information
consult ADAS booklet (MAFF, 1982)
see manufacturers literature |
| 4. What crop damage is acceptable from its use? | consider effects of weed problem - short and long-term |
| 5. Will there be any problems from side effects of using the new herbicide e.g.
i) hazard to operators, wild life

ii) drift onto adjoining crops
iii) residues in fruit from treated crops
iv) soil residues affecting subsequent crops | check on label or other manufacturers information

check on PSPS clearance

consult manufacturers literature |
| 6. For desiccants, is translocation from treated runners into crop rows likely to be a problem?
Will soil activity cause problems? | see manufacturers and other published literature |
| 7. What will be the cost of obtaining the required data on crop safety and on herbicide residues in fruit? | |
-

ABBREVIATIONS

ångström	Å	freezing point	f.p.
Abstract	Abs.	from summary	F.s.
acid equivalent*	a.e.	gallon	gal
acre	ac	gallons per hour	gal/h
active ingredient*	a.i.	gallons per acre	gal/ac
approximately equal to*	≈	gas liquid chromatography	GLC
aqueous concentrate	a.c.	gramme	g
bibliography	bibl.	hectare	ha
boiling point	b.p.	hectokilogram	hkg
bushel	bu	high volume	HV
centigrade	C	horse power	hp
centimetre*	cm	hour	h
concentrated	concd	hundredweight*	cwt
concentration concentration x time product	concn	hydrogen ion concentration*	pH
concentration required to kill 50% test animals	ct	inch	in.
cubic centimetre*	LC50	infra red	i.r.
cubic foot*	cm ³	kilogramme	kg
cubic inch*	ft ³	kilo (x10 ³)	k
cubic metre*	in ³	less than	<
cubic yard*	m ³	litre	l.
cultivar(s)	yd ³	low volume	LV
curie*	cv.	maximum	max.
degree Celsius*	Ci	median lethal dose	LD50
degree centigrade	°C	medium volume	MV
degree Fahrenheit*	°C	melting point	m.p.
diameter	°F	metre	m
diameter at breast height	diam.	micro (x10 ⁻⁶)	μ
divided by*	d.b.h.	microgramme*	μg
dry matter	÷ or /	micromicro (pico: x10 ⁻¹²)*	μμ
emulsifiable concentrate	d.m.	micrometre (micron)*	μm (or μ)
equal to*	e.c.	micron (micrometre)*†	μm (or μ)
fluid	=	miles per hour*	mile/h
foot	fl.	milli (x10 ⁻³)	m
	ft	milliequivalent*	m.equiv.
		milligramme	mg
		millilitre	ml

† The name micrometre is preferred to micron and μm is preferred to μ.

millimetre*	mm	pre-emergence	pre-em.
millimicro* (nano: $\times 10^{-9}$)	n or mp	quart	quart
minimum	min.	relative humidity	r.h.
minus	-	revolution per minute*	rev/min
minute	min	second	s
molar concentration*	M (small cap)	soluble concentrate	s.c.
molecule, molecular	mol.	soluble powder	s.p.
more than	>	solution	soln
multiplied by*	x	species (singular)	sp.
normal concentration*	N (small cap)	species (plural)	spp.
not dated	n.d.	specific gravity	sp. gr.
oil miscible concentrate	o.m.c. (tables only)	square foot*	ft ²
organic matter	o.m.	square inch	in ²
ounce	oz	square metre*	m ²
ounces per gallon	oz/gal	square root of*	√
page	p.	sub-species*	ssp.
pages	pp.	summary	s.
parts per million	ppm	temperature	temp.
parts per million by volume	ppmv	ton	ton
parts per million by weight	ppmw	tonne	t
percent(age)	%	ultra-low volume	ULV
pico (micromicro: $\times 10^{-12}$)	p or pp	ultra violet	u.v.
pint	pint	vapour density	v.d.
pints per acre	pints/ac	vapour pressure	v.p.
plus or minus*	+ -	<u>varietas</u>	var.
post-emergence	post-em	volt	V
pound	lb	volume	vol.
pound per acre*	lb/ac	volume per volume	v/v
pounds per minute	lb/min	water soluble powder	w.s.p. (tables only)
pound per square inch*	lb/in ²	watt	W
powder for dry application	p. (tables only)	weight	wt
power take off	p.t.o.	weight per volume*	w/v
precipitate (noun)	ppt.	weight per weight*	w/w
		wettable powder	w.p.
		yard	yd
		yards per minute	yd/min

* Those marked * should normally be used in the text as well as in tables etc.



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