

TRIAL NUMBER		1					
		CGA-131036					
SPECIES		0.002 kg/ha		0.010 kg/ha		0.050 kg/ha	
CYP ROTU	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(88)	93	XXXXXXXXXXXXXXXXXXXXX	93	XXXXXXXXXXXXXXXXXXXXX	93	XXXXXXXXXXXXXXXXXXXXX	
OXAL LAT	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(89)	100	XXXXXXXXXXXXXXXXXXXXX	93	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	
CYN DACT	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(90)	100	XXXXXXXXXXXXXXXXXXXXX	93	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	
AUBGIN	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(91)	50	XXXXXXXXXXXX	43	XXXXXXXXXXXX	36	XXXXXXXXXXXX	
LENTIL	100	XXXXXXXXXXXXXXXXXXXXX	0		0		
(92)	21	XXXX	0		0		
MUNGB	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(93)	57	XXXXXXXXXXXX	36	XXXXXXXXXXXX	21	XXXX	
TEFF	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(94)	100	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	
COMMEL	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	90	XXXXXXXXXXXXXXXXXXXXX	
(95)	57	XXXXXXXXXXXX	21	XXXX	14	XXX	
EUPHOR	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	
(96)	64	XXXXXXXXXXXX	57	XXXXXXXXXXXX	36	XXXXXXXXXXXX	
ORY BATH	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(97)	86	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	57	XXXXXXXXXXXX	
MIM PIG	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(98)	64	XXXXXXXXXXXX	36	XXXXXXXXXXXX	7	x	
PEN SET	100	XXXXXXXXXXXXXXXXXXXXX	0		0		
(99)	57	XXXXXXXXXXXX	0		0		
CHROM S	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	
(100)	79	XXXXXXXXXXXXXXXXXXXXX	50	XXXXXXXXXXXX	43	XXXXXXXXXXXX	

NB: AC 263,499 is imazethapyr, BAS 514 is quinclorac, CGA is 131036 is triasulfuron, DPX L5300 is tribenuron-methyl, DPX A7881 is ethametsulfuron-methyl

TRIAL NUMBER 1

CGA-131036

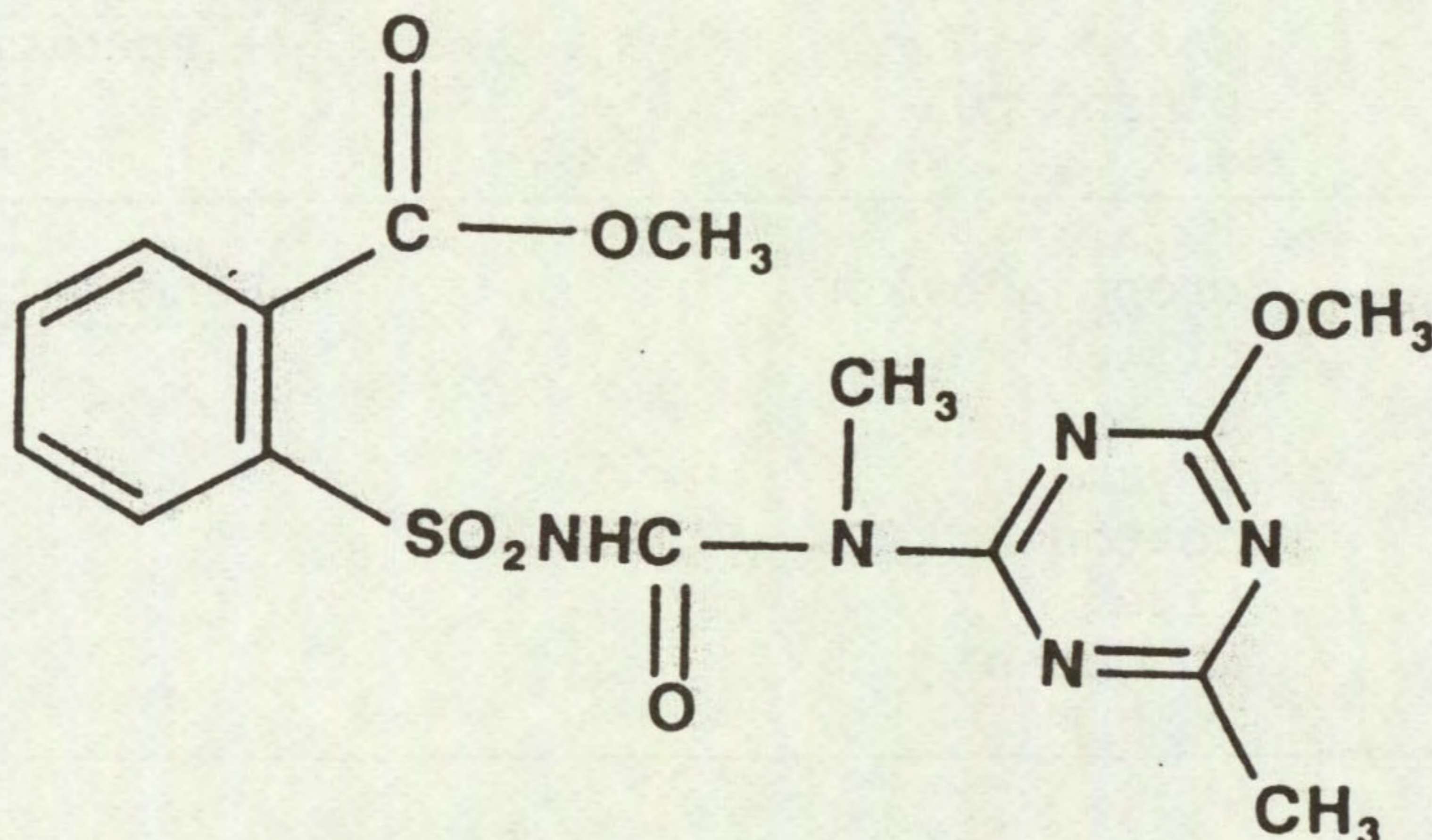
SPECIES	0.002 kg/ha	0.010 kg/ha	0.050 kg/ha
CHROM 100	XXXXXXXXXXXXXXXXXXXX	100 XXXXXXXXXXXXXXXXXXXX	100 XXXXXXXXXXXXXXXXXXXX
(101) 100	XXXXXXXXXXXXXXXXXXXX	71 XXXXXXXXXXXXXXX	43 XXXXXXXXX

Code name DPX-L5300 Trade name Granstar/Express

Common name none at time of publication

Chemical name methyl 2-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl(methyl)carbamoyl]sulfamoyl]benzoate

Structure



Source DuPont de Nemours (UK) Ltd
Wedgwood Way
Stevenage
Herts, SG1 4QN
U.K.

Information available and suggested uses

Control of broad-leaved weeds in cereal crops including the perennial Cirsium arvense applied post-emergence at rates of 10-20 g ai/ha.

Formulation used Dry flowable 75% ai

Spray volume 312 l/ha

RESULTS

Full results are given in the histograms on pages 30 - 33 and potential selectivities are summarised in the following table.

DPX-L5300 POST-EMERGENCE

Dose kg ai/ha	Crops: vigour reduced by less than 15%	Weeds: number or vigour reduced by more than 70%
0.08	teff	<u>Mimosa pigra</u>
0.02	crop above + maize + S pigeon pea	<u>Amaranthus hybridus</u> + species below
0.005	crops above + millet maize soyabean cotton rice mungbean	<u>Pennisetum setosum</u>

DPX-L5300 POST-EMERGENCE

COMMENTS ON RESULTS

Applied post-emergence to a range of tropical crops and weeds, DPX-L5300 had a poor spectrum of weed control. At the highest dose of 0.08 kg ai/ha, teff was the only tolerant crop but the two broad-leaved weeds Mimosa pigra and Amaranthus hybridus, together with the grass Pennisetum setosum, were controlled at this dose. Several crops, including millet and maize, tolerated the lowest dose of 0.005 kg ai/ha but only P. setosum was controlled.

Susceptibility of the legume crops was variable with pigeon pea tolerating the middle dose of 0.02 kg ai/ha, and soyabean and mungbean showing good resistance to 0.005 kg ai/ha, but groundnut and lentil were extremely sensitive, even at this lowest dose.

In view of the very limited range of weeds controlled, this herbicide will not be of great interest for weed control in tropical crops.

TRIAL NUMBER 1

DPX L5300

SPECIES	0.005 kg/ha	0.020 kg/ha	0.080 kg/ha
MILLET (57)	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 79 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
MAIZE+S (58)	100 93 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 93 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
MAIZE (59)	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 79 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
SORGHUM (61)	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 64 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
TOMATO (62)	100 57 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 36 XXXXXXXXXXXXXXXXXXXX XXXXXXX	100 36 XXXXXXXXXXXXXXXXXXXX XXXXXXX
PIGEON P (63)	100 100 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
COWPEA (64)	100 64 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 57 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
CHICKPEA (65)	100 57 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 36 XXXXXXXXXXXXXXXXXXXX XXXXXXX	0 0
GRNDNUT (66)	100 7 XXXXXXXXXXXXXXXXXXXX x	100 7 XXXXXXXXXXXXXXXXXXXX x	0 0
SOYABEAN (67)	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 29 XXXXXXXXXXXXXXXXXXXX XXXXXXX
COTTON (68)	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 64 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
JUTE (69)	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 29 XXXXXXXXXXXXXXXXXXXX XXXXXXX	100 14 XXXXXXXXXXXXXXXXXXXX xxx
KENAF (70)	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 14 XXXXXXXXXXXXXXXXXXXX xxx	100 14 XXXXXXXXXXXXXXXXXXXX xxx

TRIAL NUMBER 1

DPX L5300

SPECIES		0.005 kg/ha		0.020 kg/ha		0.080 kg/hCa
TOBACCO	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(71)	64	XXXXXXXXXXXXX	50	XXXXXXXXXXXXX	36	XXXXXXXXXXXXX
SESAMUM	100	XXXXXXXXXXXXXXXXXXXXX	94	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(72)	57	XXXXXXXXXXXXX	29	XXXXXXX	7	x
RICE	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(74)	100	XXXXXXXXXXXXXXXXXXXXX	79	XXXXXXXXXXXXXXXXXXXXX	79	XXXXXXXXXXXXXXXXXXXXX
ELEU IND	94	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	87	XXXXXXXXXXXXXXXXXXXXX
(76)	100	XXXXXXXXXXXXXXXXXXXXX	93	XXXXXXXXXXXXXXXXXXXXX	71	XXXXXXXXXXXXX
ECH CRUS	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(77)	86	XXXXXXXXXXXXXXXXXXXXX	79	XXXXXXXXXXXXXXXXXXXXX	57	XXXXXXXXXXXXX
ROT COCH	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(78)	100	XXXXXXXXXXXXXXXXXXXXX	79	XXXXXXXXXXXXXXXXXXXXX	57	XXXXXXXXXXXXX
DIG SANG	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	92	XXXXXXXXXXXXXXXXXXXXX
(79)	86	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	79	XXXXXXXXXXXXXXXXXXXXX
AMAR HYB	108	XXXXXXXXXXXXXXXXXXXXX+	108	XXXXXXXXXXXXXXXXXXXXX+	108	XXXXXXXXXXXXXXXXXXXXX+
(80)	50	XXXXXXXXXXXXX	21	XXXXX	14	XXX
PORT OLE	100	XXXXXXXXXXXXXXXXXXXXX	90	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(81)	86	XXXXXXXXXXXXXXXXXXXXX	93	XXXXXXXXXXXXXXXXXXXXX	50	XXXXXXXXXXXXX
BROM PEC	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(84)	100	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXXXXXXXXXX	57	XXXXXXXXXXXXX
SNO POL	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(85)	86	XXXXXXXXXXXXXXXXXXXXX	86	XXXXXXXXXXXXX	57	XXXXXXXXXXXXX
PHAL MIN	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(86)	93	XXXXXXXXXXXXXXXXXXXXX	93	XXXXXXXXXXXXXXXXXXXXX	36	XXXXXXXXXXXXX
CYP ESCU	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX
(87)	100	XXXXXXXXXXXXXXXXXXXXX	100	XXXXXXXXXXXXXXXXXXXXX	79	XXXXXXXXXXXXXXXXXXXXX

TRIAL NUMBER 1

DPX L5300

SPECIES	0.005 kg/ha	0.020 kg/ha	0.080 kg/ha
CYP ROTU (88)	100 100 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 86 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 79 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX
OXAL LAT (89)	100 100 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 100 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
CYN DACT (90)	100 100 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 100 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 93 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX
AUBGIN (91)	100 43 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 36 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
LENTIL (92)	100 36 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 29 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	0 0
MUNGB (93)	100 93 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 57 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX
TEFF (94)	100 100 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 86 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 86 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX
COMMEL (95)	100 86 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 50 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
EUPHOR (96)	100 100 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	86 79 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	86 64 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX
ORY BATH (97)	100 86 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 57 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
MIM PIG (98)	100 71 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 50 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 29 XXXXXXXXXXXXXXXXXXXXX XXXXXXX
PEN SET (99)	100 29 XXXXXXXXXXXXXXXXXXXXX XXXXXXX	0 0	0 0
CHROM S (100)	100 79 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX

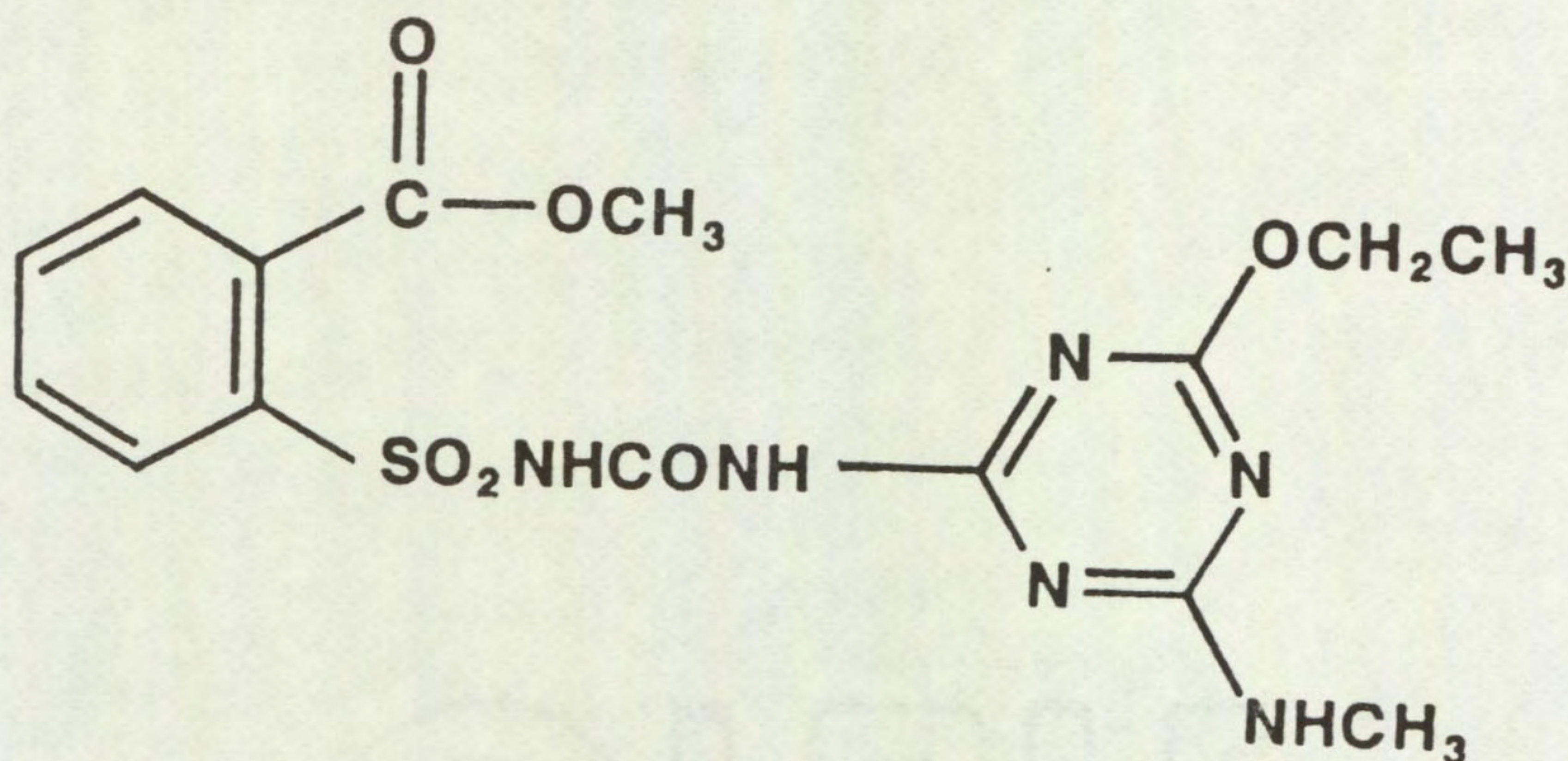
NB: AC 263,499 is imazethapyr, BAS 514 is quinclorac, CGA is 131036 is triasulfuron, DPX L5300 is tribenuron-methyl, DPX A7881 is ethametsulfuron-methyl

TRIAL NUMBER 1

DPX L5300

SPECIES	0.005 kg/ha	0.020 kg/ha	0.080 kg/ha
CHROM 100	XXXXXXXXXXXXXXXXXXXXXX	100 XXXXXXXXXXXXXXXXXXXX	100 XXXXXXXXXXXXXXXXXXXX
(101) 100	XXXXXXXXXXXXXXXXXXXXXX	100 XXXXXXXXXXXXXXXXXXXX	79 XXXXXXXXXXXXXXXXXXXX

Code name DPX-A7881 Trade name none at time of publication
Common name none at time of publication
Chemical name methyl 2-[3-(4-ethoxy-6-methylamino-1,3,5-triazin-2-yl)carbamoylsulfamoyl]benzoate
Structure



Source DuPont de Nemours (UK) Ltd,
Wedgwood Way
Stevenage
Herts SG1 4QN
U.K.

Information available and suggested uses

For post-emergence use in oilseed rape at 15-30 g ai/ha to control broad-leaved weeds including Sinapis arvensis, Thlaspi arvense Stellaria media among others.

Formulation used 75% w/w water dispersible granules

Spray volume 312 l/ha

RESULTS

Full results are given in the histograms on page 37 - 40 and potential selectivities are summarised in the following table.

DPX-A7881 POST-EMERGENCE

Dose kg ai/ha	Crops: vigour reduced by 15% or less	Weeds: number or vigour reduced by more than 70%
0.16	pigeon pea	<u>Digitaria sanguinalis</u> <u>Commelina diffusa</u> + species below
0.04	crop above + teff	<u>Echinochloa crus-galli</u> <u>Amaranthus hybridus</u> <u>Bromus pectinatus</u> <u>Snowdenia polystachya</u> <u>Phalaris minor</u> <u>Oryza barthii</u> + species below
0.01	crops above + cowpea mungbean	<u>Pennisetum setosum</u>

DPX-A7881 POST-EMERGENCE

COMMENTS ON RESULTS

All the cereal crops, with the exception of teff, were very susceptible to post-emergence applications of DPX-A7881. Teff, however, was tolerant at the middle dose of 0.04 kg ai/ha, which controlled a good range of annual grass weeds, including Snowdenia polystachya, and the broad-leaved weed Amaranthus hybridus.

Pigeon pea was tolerant at the top dose of 0.16 kg ai/ha and the additional weeds controlled at this dose were Digitaria sanguinalis and Commelina diffusa. Two other leguminous crops, cowpea and mungbean, were tolerant of the lowest dose of 0.01 kg ai/ha, although only Pennisetum setosum was controlled at this dose.

Of the broad-leaved crops, jute and sesamum were very sensitive, but cotton, kenaf, tomato, aubergine and tobacco were more resistant, although not tolerant of even 0.01 kg ai/ha the lowest dose. The range of broad-leaved weed control was very limited, but included the difficult -to-control Commelina diffusa at the top dose of 0.16 kg ai/ha as well as Amaranthus hybridus at 0.04 kg ai/ha. Cynodon dactylon, the broad-leaved perennial Oxalis latifolia and the perennial sedges Cyperus rotundus and C. esculentus were all very resistant to DPX A7881, as might be expected with a sulfonyl urea herbicide. Rottboellia cochinchinensis was resistant to post-emergence application of DPX A7881, although it was selectively controlled by pre-emergence applications in pigeon pea at 0.16 kg ai/ha.

The most interesting selectivity shown in these results is the control of the annual grass weeds Bromus pectinatus, Phalaris minor and Snowdenia polystachya in teff. This will be of direct interest to research workers in Ethiopia where these weeds are an increasing problem.

TRIAL NUMBER 1

DPX A7881

SPECIES	0.010 kg/ha		0.040 kg/ha		0.160 kg/ha	
MILLET (57)	100 50	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxx	100 29	xxxxxxxxxxxxxxxxxxxxx xxxxxxx	0 0	
MAIZE+S (58)	100 79	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 57	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	100 7	xxxxxxxxxxxxxxxxxxxxx x
MAIZE (59)	100 64	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 7	xxxxxxxxxxxxxxxxxxxxx x	0 0	
SORGHUM (61)	100 29	xxxxxxxxxxxxxxxxxxxxx xxxxxxx	100 14	xxxxxxxxxxxxxxxxxxxxx xxx	0 0	
TOMATO (62)	100 64	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 57	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	100 29	xxxxxxxxxxxxxxxxxxxxx xxxxxxx
PIGEON P (63)	100 93	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 86	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 86	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx
COWPEA (64)	100 86	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 71	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 57	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx
CHICKPEA (65)	80 43	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	0 0		0 0	
GRNDNUT (66)	100 79	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 57	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	100 57	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx
SOYABEAN (67)	100 71	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 71	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	100 57	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx
COTTON (68)	100 79	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 71	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	100 64	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx
JUTE (69)	100 43	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	100 29	xxxxxxxxxxxxxxxxxxxxx xxxxxxx	100 21	xxxxxxxxxxxxxxxxxxxxx xxxxx
KENAF (70)	100 71	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxxx	100 64	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx	100 57	xxxxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxx

TRIAL NUMBER 1

DPX A7881

SPECIES	0.010 kg/ha		0.040 kg/ha		0.160 kg/ha	
TOBACCO (71)	100 71	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 57	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 43	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
SESAMUM (72)	100 64	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 36	XXXXXXXXXXXXXXXXXXXXX XXXXXXX	100 14	XXXXXXXXXXXXXXXXXXXXX XXX
RICE (74)	100 57	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 43	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 29	XXXXXXXXXXXXXXXXXXXXX XXXXXX
ELEU IND (76)	100 100	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 86	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 71	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX
ECH CRUS (77)	100 79	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 29	XXXXXXXXXXXXXXXXXXXXX XXXXXXX	100 14	XXXXXXXXXXXXXXXXXXXXX XXX
ROT COCH (78)	100 86	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 71	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 57	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
DIG SANG (79)	100 71	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	92 71	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 21	XXXXXXXXXXXXXXXXXXXXX XXXXX
AMAR HYB (80)	100 36	XXXXXXXXXXXXXXXXXXXXX XXXXXXX	100 7	XXXXXXXXXXXXXXXXXXXXX X	0 0	
PORT OLE (81)	100 100	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 93	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 79	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX
BROM PEC (84)	100 43	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 14	XXXXXXXXXXXXXXXXXXXXX XXX	0 0	
SNO POL (85)	100 64	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	87 14	XXXXXXXXXXXXXXXXXXXXX XXX	0 0	
PHAL MIN (86)	100 64	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 7	XXXXXXXXXXXXXXXXXXXXX X	0 0	
CYP ESCU (87)	100 100	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 93	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXX	100 50	XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX

TRIAL NUMBER 1

DPX A7881

SPECIES	0.010 kg/ha	0.040 kg/ha	0.160 kg/ha
CYP ROTU (88)	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 50 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
OXAL LAT (89)	100 100 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 100 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 79 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
CYN DACT (90)	100 93 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 93 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 79 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
AUBGIN (91)	100 79 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 57 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
LENTIL (92)	100 36 XXXXXXXXXXXXXXXXXXXX XXXXXXX	100 7 XXXXXXXXXXXXXXXXXXXX x	0 0
MUNGB (93)	100 93 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 57 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
TEFF (94)	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
COMMEL (95)	100 79 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 29 XXXXXXXXXXXXXXXXXXXX XXXXXXX
EUPHOR (96)	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	86 36 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
ORY BATH (97)	100 57 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 29 XXXXXXXXXXXXXXXXXXXX XXXXXXX	100 29 XXXXXXXXXXXXXXXXXXXX XXXXXXX
MIM PIG (98)	100 86 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 43 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX
PEN SET (99)	0 0	0 0	0 0
CHROM S (100)	100 93 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX	100 71 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX	100 50 XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX

NB: AC 263,499 is imazethapyr, BAS 514 is quinclorac, CGA is 131036 is triasulfuron, DPX L5300 is tribenuron-methyl, DPX A7881 is ethametsulfuron-methyl

TRIAL NUMBER 1

DPX A7881

SPECIES	0.010 kg/ha	0.040 kg/ha	0.160 kg/ha
CHROM	100 xxxxxxxxxxxxxxxxxxxxxxxx	100 xxxxxxxxxxxxxxxxxxxxxxxx	100 xxxxxxxxxxxxxxxxxxxxxxxx
(101)	100 xxxxxxxxxxxxxxxxxxxxxxxx	93 xxxxxxxxxxxxxxxxxxxxxxxx	71 xxxxxxxxxxxxxxxx

ACKNOWLEDGEMENTS

I am grateful to C.M. Marshall for processing the experimental data and to Miss J. Wyatt, and R.F. Hughes and glasshouse staff for technical assistance. The work was carried out with financial support from the European Economic Community (EEC) under contract no. TSD.A.198 UK.

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Appendix 1. Species, abbreviations, varieties and stages of growth at spraying and assessment for post-emergence selectivity test.

	Designation and computer serial number	Cultivar or source	Stage of growth at spraying (No. true leaves)	Stage of growth at assessment (untreated controls, leaf number exclusive of cotyledons)
Millet (<u>Pennisetum americanum</u>)	MILLET (57)	ex Bornu	3.5 - 4.5	7.5 - 9.5
Maize + safener (NA) (<u>Zea mays</u>)	MAIZE + S (58)	LG11	3 - 3.5	6.5 - 7.5
Maize (<u>Zea mays</u>)	MAIZE (59)	LG11	3 - 3.5	7.5 - 8.5
Sorghum (<u>Sorghum bicolor</u>)	SORGHUM (61)	Tub 22	3.5	7.5 - 8.5
Tomato (<u>Lycopersicum esculentum</u>)	TOMATO (62)	Moneymaker	2	5.5 - 6.5
Pigeon Pea (<u>Cajanus cajan</u>)	PIGEON P (63)	ICPL 138	1 - 1.5	5.5 - 6.5
Cowpea (<u>Vigna unguiculata</u>)	COWPEA (64)	TRS	1	2.0 - 2.5
Chickpea (<u>Cicer arietinum</u>)	CHICKPEA (65)	ILC 482	5 - 6	19.5
Groundnut (<u>Arachis hypogaea</u>)	GRDNUT (66)	Robut 33-1	4 - 4.5	8.5
Soyabean (<u>Glycine max</u>)	SOYABEAN (67)	Amsoy	1.5	4.5 - 5.5
Cotton (<u>Gossypium hirsutum</u>)	COTTON (68)	Coker 315	1.5	3.5 - 4.0
Jute (<u>Corchorus olitorius</u>)	JUTE (69)	JRC 7447	1.5 - 2.0	8.5 - 10.5
Kenaf (<u>Hibiscus cannabinus</u>)	KENAF (70)	ex Sudan	2	6.5 - 7.5
Tobacco (<u>Nicotiana tabacum</u>)	TOBACCO (71)	North Carolina 2326	4 - 4.5	6.0 - 6.5

Appendix 1 Cont'd..

	Designation and computer serial number	Cultivar or source	Stage of growth at spraying (No. true leaves)	Stage of growth at assessment (untreated controls, leaf number exclusive of cotyledons)
<u>Sesamum</u> (<u>Sesamum indicum</u>)	SESAMUM (74)	75403-B	1.5	3.5 - 4.5
<u>Rice</u> (<u>Oryza sativa</u>)	RICE (74)	IR 36	3 - 3.5	6.5 - 7.5
<u>Eleusine indica</u>	ELEU IND (76)	Zimbabwe	3 - 3.5	6.5 - 7.5
<u>Echinochloa</u> <u>crus-galli</u>	ECH CRUS (77)	S. Africa 1979	3	6.5 - 7.5
<u>Rottboellia</u> <u>cochinchinensis</u> (= <u>R. exaltata</u>)	ROT COCH (78)	Zimbabwe 1978	2.5 - 3	6.5 - 7.5
<u>Digitaria</u> <u>sanguinalis</u>	DIG SANG (79)	USA 1979	3 - 3.5	Tillered
<u>Amaranthus</u> <u>hybridus</u>	AMAR HYB (80)	Zimbabwe 1985	4.5	7.5 - 8.5
<u>Portulaca</u> <u>oleracea</u>	PORT OLE (81)	Israel 1973	4.5 - 5.5	6 - 8 pairs
<u>Bromus pectinatus</u>	BROM PEC (84)	Tanzania 1081	2 - 2.5	5.5 - 7.5
<u>Snowdenia</u> <u>polystachya</u>	SNOW POL (85)	Ethiopia 1980	4 - 4.5	5.5 - 6.5
<u>Phalaris minor</u>	PHAL MIN (86)	India 1979	2 - 3	6.5 - 8.0
<u>Cyperus esculentus</u>	CYP ESCU (87)	S. Africa WRO Clone 2	3 - 7	8.5 - 10.5
<u>Cyperus rotundus</u>	CYP ROTU (88)	Zimbabwe WRO Clone 1	5 - 6	11.0 - 11.5
<u>Oxalis latifolia</u>	OXAL LAT (89)	Cornwall B WRO Clone 2	3 - 19 3 - 19	15 - 23 15 - 23

Cont'd..

Appendix 1 cont'd..

	Designation and computer serial number	Cultivar or source	Stage of growth at spraying (No. true leaves)	Stage of growth at assessment (untreated controls, leaf number exclusive of cotyledons)
<u>Cynodon dactylon</u>	CYN DACT (90)	Clone 2 WRO Sudan	5 - 5.5	Stolons well developed
<u>Aubergine (Solanum melongena)</u>	AUBGIN (91)	Moneymaker (F ₁ hybrid)	1.5	4.5 - 5.5
<u>Lentil (Lens culinaris)</u>	LENTIL (92)	Syrian local ILL 4401	5 - 7	12.5 - 13.5
<u>Mungbean (Phaseolus aureus)</u>	MUNGB (93)	CES-ID-21	1	2.5 - 3.5
<u>Teff (Eragrostis tef)</u>	TEFF (94)	ex Addis Ababa 1981	4 - 5	5.5 - 6.5
<u>Commelina diffusa</u>	COMMEL (95)	USA 1985	3	6.5 - 7.5
<u>Euphorbia heterophylla</u>	EUPHOR (96)	Brazil 1985	3 - 3.5	5.5 - 7.5
<u>Oryza barthii</u>	ORY BATH (97)	Senegal 1981	2.5 - 3.5	7.5
<u>Mimosa pigra</u>	MIM PIG (98)	Thailand 1985	2	6.5 - 7.5
<u>Pennisetum setosum</u>	PEN SET (99)	Thailand 1985	4.5	tillered
<u>Chromolaena odorata (Seedlings)</u>	CHROM S (100)	Malaysia 1986	2.4	3.5 - 4.5
<u>Chromolaena odorata</u>	CHROM (101)	Malaysia 1986	2.5 - 3.5	6.5 - 7.5

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 ct	hydrogen ion concentration*	pH
concentration required to kill 50% test animals	LC50	inch	in.
cubic centimetre*	cm ³	infra red	i.r.
cubic foot*	ft ³	kilogramme	kg
cubic inch*	in ³	kilo (x10 ³)	k
cubic metre*	m ³	less than	<
cubic yard*	yd ³	litre	l.
cultivar(s)	cv.	low volume	LV
curie*	Ci	maximum	max.
degree Celsius*	°C	median lethal dose	LD50
degree centigrade	°C	medium volume	MV
degree Fahrenheit*	°F	melting point	m.p.
diameter	diam.	metre	m
diameter at breast height	d.b.h.	micro (x10 ⁻⁶)	μ
divided by*	÷ or /	microgramme*	μg
dry matter	d.m.	micromicro (pico: x10 ⁻¹²)*	μμ
emulsifiable concentrate	e.c.	micrometre (micron)*	μm (or μ)
equal to*	=	micron (micrometre)* †	μm (or μ)
fluid	fl.	miles per hour*	mile/h
foot	ft	milli (x10 ⁻³)	m
		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 μ	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*	$\sqrt{\quad}$
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 μ	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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Long Ashton Research Station

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