

Biological data

The abbreviations used hereinafter denote:

ABUTH	Abutilon theophrasti	AMARE	Amaranthus retroflexus
DIGSA	Digitaria sanguinalis	ECHCG	Echinochloa crus-galli
POLCO	Polygonum convolvulus	SETVI	Setaria viridis
SOLNI	Solanum Nigrum		
g	gram	a.i.	active ingredient
ha	hectare	Ec	expected value according to Colby formula

amicarbazone

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
amicarbazone	30	10
A1-13 + amicarbazone	1,6 + 30	97 (Ec = 46, Diff. = +51)

herbicidal activity against SOLNI

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	30
amicarbazone	30	45
A1-13 + amicarbazone	1,6 + 30	85 (Ec = 62, Diff. = +24)

herbicidal activity against DIGSA

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	25
amicarbazone	30	10
A1-13 + amicarbazone	1,6 + 30	80 (Ec = 33, Diff. = +48)

atrazine

herbicidal activity against SOLNI

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	30
atrazine	20	10
A1-13 + atrazine	1,6 + 20	80 (Ec = 37, Diff. = +43

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
atrazine	20	10
A1-13 + atrazine	1,6 + 20	89 (Ec = 46, Diff. = +43

bicyclopyrone

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
bicyclopyrone	4	15
A1-13 + bicyclopyrone	1,6 + 4	73 (Ec = 49, Diff. = +24

herbicidal activity against POLCO

active ingredient	dosage [g a.i./ha]	activity [%]
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A1-13	0,4	0
bicyclopyrone	4	35
A1-13 + bicyclopyrone	0,4 + 4	87 (Ec = 35, Diff. = +52)

dicamba

herbicidal activity against ABUTH

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	0,4	78
dicamba	10	10
A1-13 + dicamba	0,4 + 10	98 (Ec = 80, Diff. = +18)

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
dicamba	10	0
A1-13 + dicamba	1,6 + 10	65 (Ec = 40, Diff. = +25)

dimethenamide-P

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
dimethenamide-P	20	50
A1-13 + dimethenamide-P	1,6 + 20	98 (Ec = 70, Diff. = +28)

herbicidal activity against SETVI

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	28
dimethenamide-P	100	28
A1-13 + dimethenamide-P	1,6 + 100	60 (Ec = 48, Diff. = +12

flufenacet

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
flufenacet	16	33
A1-13 + flufenacet	1,6 + 16	94 (Ec = 60, Diff. = +34

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
flufenacet	50	20
A1-13 + flufenacet	1,6 + 50	73 (Ec = 52, Diff. = +21

glufosinate-ammonium

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
glufosinate-ammonium	150	10

A1-13 + glufosinate-ammonium	1,6 + 150	93 (Ec = 46, Diff. = +47)
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herbicidal activity against AMARE

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	0,4	45
glufosinate-ammonium	30	60
A1-13 + glufosinate-ammonium	0,4 + 30	99 (Ec = 78, Diff. = +21)

herbicidal activity against SOLNI

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	30
glufosinate-ammonium	30	55
A1-13 + glufosinate-ammonium	1,6 + 30	80 (Ec = 69, Diff. = +12)

glyphosate

herbicidal activity against POLCO

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	0
glyphosate	30	0
A1-13 + glyphosate	1,6 + 30	0 (Ec = 15, Diff. = +15)

halauxifen

herbicidal activity against AMARE

active ingredient	dosage [g a.i./ha]	activity [%]
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A1-13	0,4	45
halauxifen	1	70
A1-13 + halauxifen	0,4 + 1	94 (Ec = 84, Diff. = +11)

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
halauxifen	1	20
A1-13 + halauxifen	1,6 + 1	73 (Ec = 52, Diff. = +21)

isoxaflutole

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
isoxaflutole	1,6	3
A1-13 + isoxaflutole	1,6 + 1,6	87 (Ec = 42, Diff. = +45)

mesotrione

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
mesotrione	10	25
A1-13 + mesotrione	1,6 + 10	80 (Ec = 55, Diff. = +25)

herbicidal activity against DIGSA

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	25
mesotrione	10	55
A1-13 + mesotrione	1,6 + 10	80 (Ec = 66, Diff. = +14

herbicidal activity against POLCO

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	0
mesotrione	10	30
A1-13 + mesotrione	1,6 + 10	68 (Ec = 30, Diff. = +38

nicosulfuron

herbicidal activity against POLCO

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	0
nicosulfuron	5	60
A1-13 + nicosulfuron	1,6 + 5	78 (Ec = 60, Diff. = +18

herbicidal activity against SOLNI

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	30
nicosulfuron	5	30
A1-13 + nicosulfuron	1,6 + 5	68 (Ec = 51, Diff. = +17

pyroxasulfone

herbicidal activity against DIGSA

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	25
pyroxasulfone	20	10
A1-13 + pyroxasulfone	1,6 + 20	50 (Ec = 33, Diff. = +17

saflufenacil

herbicidal activity against SETVI

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	0,4	0
saflufenacil	3	35
A1-13 + saflufenacil	0,4 + 3	63 (Ec = 35, Diff. = +28

tembotrione

herbicidal activity against ECHCG

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	40
tembotrione	2	10
A1-13 + tembotrione	1,6 + 2	92 (Ec = 46, Diff. = +46

thiencarbazone-methyl

herbicidal activity against SOLNI

active ingredient	dosage [g a.i./ha]	activity [%]
A1-13	1,6	30
thiencarbazone-methyl	0,2	40
A1-13 + thiencarbazone-methyl	1,6 + 0,2	75 (Ec = 58, Diff. = +17