

Herbizide Wirkstoffgruppen (HRAC) und ihre Wirkmechanismen (2021)

MoA	1	2	15	29	30	9	5/6	12/13/27/32	14	3	23	0	4	
MoA (alt)	A	B	N, K3	L	Z	G	C	F	E	K1	K2	K3	O	
Wirkmechanismus	ACCCase- Hemmer	ALS-Hemmer	Lipidsynthese-hemmer	Cellulose-synthese-Hemmer	Fettsäure-hemmer	ESPS- Hemmer	Photosynthese-hemmer	Carotinoidsynthesehemmer	PPO- Hemmer	Zellwachstumshemmer			Synthetische Auxine	
Resistente Ungräser & Unkräuter in Deutschland*	A.fuchsschwanz (ALOMY) Windhalm (APESV) Amarant (AMARE) Spr. Melde (ATXPA) Flughafer (AVEFA) Taube Trespe (BROST) Weidelgras (LOLPE)	A.fuchsschw. (ALOMY) Hundskerbel (ANCRA) Amarant (AMARE) Windhalm (APESV) Flughafer (AVEFA) Taube Trespe (BROST) Hühnerhirse (ECHCG) Weidelgras (LOLPE) E. Kamille (MATCH) G. Kamille (MATIN) Kornblume (CENCY) Klatschmohn (PAPRH) Ackersenf (SINAR) Vogelmiere (STEME)	A.fuchsschw. (ALOMY)	-	-	A.fuchsschw. (ALOMY)	A.fuchsschw. (ALOMY) Amarant (AMARE) Windhalm (APESV) W. Gänsefuß (CHEAL) V. Gänsefuß (CHEPO) H. Hirse (ECHCG) Weidenröschen (EPISS) Franzosenkraut (GASCI) J. Rispe (POAAN) W.Knöterich (POLCO) A. Knöterich (POLLA) G. Kreuzkraut (SENVU) Nachtschatten (SOLNI) Vogelmiere (STEME)	-	-	A.fuchsschw. (ALOMY)	-	A.fuchsschw. (ALOMY) Weidelgras ()	-	
Wirkstoff (Bsp.)	Sethoxydim Clethodim (DIM) Cycloxydim (DIM) Clodinafop-propargyl (FOP) Haloxifop-methyl (FOP) Fluazifop-butyl (FOP) Quizalofop-ethyl (FOP) Pinoxaden (DEN)	Chorsulfuron Foramsulfuron Amidosulfuron Iodosulfuron-methyl-Na Mesosulfuron-methyl Metsulfuron-methyl Nicosulfuron Prosulfuron Rimsulfuron Tribenuron-methyl Thifensulfuron-methyl Trifloxysulfuron-methyl Tritosulfuron Imazamox Florasulam Penoxsulam Pyroxulam	Triallate Ethofumesat Prosulfocarb Flufenacet Metazachlor Dimethachlor Dimethenamid (DMA-P) Pethoxamid Metolachlor	Dichlobenil Isoxaben	Cinmethylin	Glyphosate	Atrazine (C1) Chlorotoluron (C2) Bromoxynil (C3) Terbutylazin Metamitron Metribuzin Lenacil Phenmedipham Bromoxynil Pyridate	Diflufenican (F1) Isoxaflutole (F2) Amitrole (F3) Clomazone (F4) Picolnafen Beflubutamid Bixlozone Mesotrione Tembotrione Sulcotrione Aclonifen	Oxyfluorfen Bifenox Carfentrazone Flumioxazin	Trifluralin Pendimethalin Propyzamid	Propham Chlorpropham Carbetamide	Butachlor Napropamide	2,4 D Dichlorprop MCPA Mecoprop Aminopyralid Clopyralid Halauxifen Picloram Quinmerac Dicamba Fluroxypyr Triclopyr	
Getreide	Axial, Sword, Traxos, Avoxa	Niantic, Atlantis Flex, Attribut, Broadway, Concert SX, Finy, Gropper S, Viper Compact, Saracen, Biathlon 4D, Pointer SX, Concert SX	Boxer, Cadou SC, Herold SC, Malibu, Picon, Sunfire, Jura, Carpatus, Trinity	Cleanshot	Luximo	Roundup u.a.	Carmina 640, Lentipur 700, Trinity	Diflanil 500 SC, Jura, Viper Compact, Herold SC, Carmina 640, Trinity, Beflex, Picon	Artus Sumimax, Fox, Oratio 40, Antarktis	Activus SC, Stomp Aqua, Malibu, Picon, Trinity	-	-	Starane XL, U 46 M Fluid, U 46 D Fluid, Duanti, Ariane C, Duplosan KV, Duplosan Super, Pixxaro, Zypar	
Kartoffeln	Agil S, Fusilade Max, Galant Super, Panarex, Targa Super, Select 240 EC, Focus Ultra	Cato	Boxer, Artist, Arcade	-	-	Roundup u.a.	Sencor Liquid, Artist, Proman	Centium 36 CS, Novitron DamTec, Bandur	Shark	-	-	-	-	
Rüben		Debut, Debut-Duo-Active, Shiro, Trek	Oblix 500, Stemat, Belvedere Duo, Goltix Super, Tanaris, Spectrum	-	-		Metafol, Goltix/Titan/Super, Venzar, Debut Duo Active, Betasana SC, Belvedere Duo, Kezuro u.a.	-	-	-	-	-	-	Lontrel 600, Lontrell 700SG, Goltix Titan, Tanaris, Vivendi 100, Kezuro
Raps		Clearfield-Vantiga & Clearfield-Clientiga (Imazamox-resistente Kulturpflanzen)	Butisan Gold, Butisan Top, Butisan Kombi, Spectrum, Nimbus Komplett, Fuego, Colzor SyncTec, Quantum, Colzor Uno, Colzor Trio, Gajus	-	-		-	Centium 36 CS, Nimbus CS, Altiplano DamTec, Colzor SyncTec, Stallion SyncTec	-	Fox	Kerb Flo, Milestone	Crawler	Devrinol FL, Altiplano DamTec, Colzor Trio	-
Mais	Focus Ultra (Cycloxdim-resistente Kulturpflanzen)	Arigo, Cato, MaisTer Power, Nicogan, Milagro 6OD, Peak, Principal, Kelvin Ultra, Samson 4SC, Motivell Forte	Dual Gold, Gardo Gold	-	-	Roundup u.a.	Calaris, Gardo Gold, Spectrum Gold, Successor T, Aspect, Buctril, B 235, Nagano, Zeagran Ultimate, Onyx	Adengo, Arigo, Elumis, Laudis, Callisto, Calaris, Temsa SC, Sulcogan	-	Activus SC, Stomp Aqua, Spectrum Plus	-	-	Mais Barvel, Effigo, Arrat, Task	

HRAC (=Herbicide Resistance Action Committee); *: International Herbicide-Resistant Weed Database (HEAP 2020)

Quelle: Wolber, Pflanzenschutzamt Landwirtschaftskammer Niedersachsen