

# HERBICIDE CLASSIFICATION

Repeated use of herbicides with the same site of action can result in the development of herbicide-resistant weed populations.



## by MODE OF ACTION

(effect on plant growth)

This chart groups herbicides by their modes of action to assist you in selecting herbicides **1**) to maintain greater diversity in herbicide use and **2**) to rotate among effective herbicides with different sites of action to delay the development of herbicide resistance.

| SITE-OF-ACTION GROUP | NUMBER OF RESISTANT WEED SPECIES IN U.S. | CHEMICAL FAMILY  | ACTIVE INGREDIENT  | PRODUCT EXAMPLES (TRADE NAME*)   |  |
|----------------------|--|--|--|--|--|
| <b>1</b>             | <b>15</b>                                | <b>LIPID SYNTHESIS INHIBITORS</b>                                    | clodinafop, cyhalofop, fenoxaprop, fluzafop, quizalofop, cletothidim, sethoxydim, Phenyglyrazolin            | <i>Discover NG</i> , <i>Clincher</i> , <i>Ricestar, Tecoma, others</i> , <i>Fusilade DX</i> , <i>Assure II, Targa</i> , <i>Select Max, others</i> , <i>Poast, Poast Plus</i> , <i>Axial XL</i>   |  |
| <b>2</b>             | <b>49</b>                                | <b>AMINO ACID SYNTHESIS INHIBITORS</b>                               | Imidazolinone, Pyrimidinylthiobenzoic acid, Sulfonamino carbonyl triazolones, Sulfonurea, Triazolopyrimidine | <i>Raptor, Beyond, Clearmax</i> , <i>Plateau</i> , <i>Scepter</i> , <i>Pursuit, Newpath</i> , <i>Regiment</i> , <i>Staple</i> , <i>Everest, Pre-Pare, Sierra</i> , <i>Olympus</i> , <i>Varro</i> , <i>Landax</i> , <i>Classic</i> , <i>Glean</i> , <i>Permit</i> , <i>Autumn</i> , <i>Osprey</i> , <i>Ally</i> , <i>Accent Q, Zest</i> , <i>Strada</i> , <i>Beacon</i> , <i>Peak</i> , <i>Resolve, Matrix</i> , <i>Maverick</i> , <i>Harmony</i> , <i>Amber</i> , <i>Express</i> , <i>Envoke</i> , <i>UpBeet</i> , <i>FirstRate</i> , <i>component of Orion</i> , <i>Python, Accolade</i> , <i>Grasp</i> , <i>PowerFlex HL</i> |  |
| <b>9</b>             | <b>17</b>                                | <b>EPSP SYNTHASE INHIBITOR</b> (5-enolpyruvyl shikimate-3-phosphate) | Organophosphorus   | glyphosate <i>Roundup, several others</i>  |  |
| <b>4</b>             | <b>8</b>                                 | <b>SYNTHETIC AUXINS</b> (TIR1, AFB5, and unknown auxin receptors)    | Arylpicolinate, Benzoic acid, Aminopyralid, Carboxylic acid, Phenoxy   | <i>Elevore</i> , <i>Banel, Clarity, DiFlex, Engenia, Flexstar, XtendiMax, others</i> , <i>Milestone</i> , <i>Stinger</i> , <i>Starane</i> , <i>Remedy Ultra</i> , <i>Facet</i> , <i>2,4-D, Enlist One, others</i> , <i>MCPA, others</i>  |  |
| <b>19</b>            | <b>0</b>                                 | <b>AUXIN TRANSPORT INHIBITOR</b>                                     | Semicarbazone  | diflufenzopyr <i>component of Status</i>   |  |
| <b>5</b>             | <b>26</b>                                | <b>PHOTOSYSTEM II INHIBITORS</b> (different binding than 6 & 7)      | Phenylcarbamate, Triazine, Triazinone, Uracil  | <i>Betnex</i> , <i>component of Betamix</i> , <i>AAtrex, others</i> , <i>Caparol</i> , <i>Princep</i> , <i>Velpar</i> , <i>Metribuzin, others</i> , <i>Sinbar</i>  |  |
| <b>6</b>             | <b>1</b>                                 | <b>PHOTOSYSTEM II INHIBITORS</b> (different binding than 5 & 7)      | Benzothiadiazole   | <i>Basagan, others</i>   |  |
| <b>7</b>             | <b>9</b>                                 | <b>PHOTOSYSTEM II INHIBITORS</b> (different binding than 5 & 6)      | Nitrile, Amide, Urea   | <i>Maestro, Mox, others</i> , <i>SuperWham</i> , <i>Dirax, Karmex</i> , <i>Cotoran</i> , <i>Lorox, Linex</i>   |  |
| <b>10</b>            | <b>1</b>                                 | <b>NITROGEN METABOLISM INHIBITOR</b>                                 | GLUTAMINE SYNTHETASE INHIBITOR   | Organophosphorus   | glufosinate <i>Liberty, Cheetah, others</i>  |
| <b>12</b>            | <b>1</b>                                 | <b>PHYTOENE DESATURASE (PDS) INHIBITOR</b>                           | none recognized  | fluridone <i>Sonar</i>   |  |
| <b>13</b>            | <b>1</b>                                 | <b>DOXP SYNTHASE INHIBITOR</b> (1-DEOXY-D-XYULOSE 5-PHOSPHATE)       | isoxazolidinone  | clomazone <i>Command</i>   |  |
| <b>27</b>            | <b>2</b>                                 | <b>HPPD INHIBITORS</b>   | Isoxazole, Pyrazole, Pyrazolone  | <i>Balance Flexx</i> , <i>component of Huskie</i> , <i>Armezon, Impact</i> , <i>Callisto</i>   |  |
| <b>14</b>            | <b>4</b>                                 | <b>CELL MEMBRANE DISRUPTERS</b>                                      | PPD INHIBITORS   | Aryl triazine, Diphenylether, N-phenylphthalimide, Pyrimidinone  | <i>Spartan</i> , <i>carfentrazone</i> , <i>Aim</i> , <i>fluthiacet</i> , <i>Cadet</i> , <i>acifluorfen</i> , <i>Ultra Blazer</i> , <i>fomesafen</i> , <i>Flexstar, Reflex, others</i> , <i>lactofen</i> , <i>Cobra, Phoenix</i> , <i>flumiclorac</i> , <i>Resource</i> , <i>flumioxazin</i> , <i>Valor, Rowel</i> , <i>sulfenacil</i> , <i>Sharpen</i> |
| <b>22</b>            | <b>5</b>                                 | <b>PHOTOSYSTEM I ELECTRON DIVERTER</b>                               | Bipyridylum  | diquat <i>Reglone</i> , paraquat <i>Gramoxone SL</i>   |  |
| <b>3</b>             | <b>6</b>                                 | <b>SEEDLING ROOT GROWTH INHIBITORS</b>                               | MICROTUBULE INHIBITORS   | Benzamide, Dinitroaniline  | <i>pronamide</i> , <i>Kerb</i> , <i>ethalfuralin</i> , <i>Sonatan</i> , <i>pendimethalin</i> , <i>Prowl H2O, others</i> , <i>trifluralin</i> , <i>Treflan, others</i>  |
| <b>8</b>             | <b>5</b>                                 | <b>SEEDLING SHOOT GROWTH INHIBITORS</b>                              | LIPID SYNTHESIS INHIBITOR (not ACCase)   | Thiocarbamate  | <i>butylate</i> , <i>Sutan +</i> , <i>cycloate</i> , <i>Ro-Neet</i> , <i>EPTC</i> , <i>Eradicane, Eptam</i> , <i>thiencarb</i> , <i>Bolero</i> , <i>triallate</i> , <i>Far-Go</i>  |
| <b>15</b>            | <b>1</b>                                 | <b>LONG-CHAIN FATTY ACID INHIBITORS</b>                              | Chloroacetamide  | <i>acetochlor</i> , <i>Degree, Harness, Surpass NXT, Topnotch, Warrant, others</i> , <i>alachlor</i> , <i>Intro, Micro-Tech</i> , <i>s-metolachlor</i> , <i>Dual Magnum, others</i> , <i>dimethenamid-P</i> , <i>Outlook</i> , <i>Oxycetamide</i> , <i>flufenacet</i> , <i>Define</i> , <i>Pyrazole</i> , <i>pyroxasulfone</i> , <i>Zidua</i>  |  |
| <b>16</b>            | <b>0</b>                                 | <b>SPECIFIC SITE UNKNOWN</b>   | Benzofuran   | ethofumesate <i>Nartron</i>  |  |
| <b>17</b>            | <b>1</b>                                 | <b>UNDEFINED</b>   | NUCLEIC ACID INHIBITOR   | Arsenical, MSMA  | <i>MSMA</i>  |

## by PREMIX

This chart lists premix herbicides alphabetically by their trade names so you can identify the premix's component herbicides and their respective site-of-action groups. Refer to the Site-of-Action chart on the left for more information.

| PREMIX                                  | ACTIVE INGREDIENT                                  | TRADE NAME®                      | COMPONENT         |             |
|---|--|----------------------------------|-------------------|-------------|
|   |  |                                  | ACTIVE INGREDIENT | TRADE NAME® |
| ACURON                                  | bicyclopyrone, mesotrione, atrazine, s-metolachlor | Callisto, AAtrex, Dual II Magnum | 27, 27, 6, 15     |             |
| ACURON FLEXI                            | bicyclopyrone, mesotrione, s-metolachlor           | Callisto, Dual II Magnum         | 27, 27, 15        |             |
| AFFINITY BROADSPEC (Affinity Tankmix)   | thifensulfuron, tribenuron                         | Harmony, Express                 | 2, 2              |             |
| AFFORIA                                 | thifensulfuron, tribenuron, flumioxazin            | Harmony, Express, Valor          | 2, 2, 14          |             |
| AGILITY SG                              | dicamba, thifensulfuron, tribenuron, metsulfuron   | Clarity, Harmony, Express, Ally  | 4, 2, 2, 2        |             |
| ALLY EXTRA                              | thifensulfuron, tribenuron, metsulfuron            | Harmony, Express, Ally           | 2, 2, 2           |             |
| ANTHEM ATZ                              | pyroxasulfone, fluthiacet, atrazine                | Zidua, Cadet, AAtrex             | 15, 14, 6         |             |
| ANTHEM FLEX                             | pyroxasulfone, carfentrazone                       | Zidua, Aim                       | 15, 14            |             |
| ANTHEM MAXX                             | pyroxasulfone, fluthiacet                          | Zidua, Cadet                     | 15, 14            |             |
| ARMEZON PRO                             | topramezone, dimethenamid-P                        | Armezon, Outlook                 | 27, 15            |             |
| AUTHORITY ASSIST                        | sulfentrazone, imazethapyr                         | Spartan, Pursuit                 | 14, 2             |             |
| AUTHORITY ELITE                         | sulfentrazone, s-metolachlor                       | Spartan, Dual Magnum             | 14, 15            |             |
| AUTHORITY FIRST                         | sulfentrazone, clorasulam                          | Spartan, FirstRate               | 14, 2             |             |
| AUTHORITY MTZ                           | sulfentrazone, metribuzin                          | Spartan, Metribuzin              | 14, 5             |             |
| AUTHORITY SUPREME                       | sulfentrazone, pyroxasulfone, Zidua                | Spartan, Zidua                   | 14, 15            |             |
| AUTHORITY XL (Authority Maxx)           | sulfentrazone, chlorimuron                         | Spartan, Classic                 | 14, 2             |             |
| AUTUMN SUPER                            | iodosulfuron, thiencarbazone                       | Autumn, Varro                    | 2, 2              |             |
| AXIAL STAR                              | pinoxaden, fluroxypyr                              | Axial XL, Starane                | 1, 4              |             |
| AXIOM                                   | flufenacet, metribuzin                             | Define, Metribuzin               | 15, 5             |             |
| BASIS BLEND                             | ribenuron  | Resolve                          | 2                 |             |
| BETAMIX                                 | desmedipham, phenmedipham                          | Betnex, Dual II Magnum           | 6, 15             |             |
| BICEP II MAGNUM (Biceps Lite II Magnum) | s-metolachlor, atrazine                            | Dual II Magnum, AAtrex           | 15, 6             |             |
| BOUNDARY                                | s-metolachlor, metribuzin                          | Dual Magnum, Metribuzin          | 15, 5             |             |
| BRAKE F16                               | fomesafen, fluridone                               | Flexstar, Sonar                  | 14, 12            |             |
| BRAKE FX                                | flumeturon, fluridone                              | Cotoran, Sonar                   | 12, 12            |             |
| BREAKFREE NXT ATZ (Breakfree NXT Lite)  | acetochlor, atrazine                               | Breakfree NXT, AAtrex            | 15, 6             |             |
| BROADAXE XC                             | s-metolachlor, sulfentrazone                       | Dual Magnum, Spartan             | 15, 14            |             |
| BROADHEAD                               | carfentrazone, quinclorac                          | Aim, Facet                       | 14, 4             |             |
| BRONATE                                 | bromoxynil, MCPA                                   | Maestro, MCPA                    | 6, 4              |             |
| CALLISTO GT                             | mesotrione, glyphosate                             | Callisto, glyphosate             | 27, 9             |             |
| CALLISTO XTRA                           | mesotrione, atrazine                               | Callisto, AAtrex                 | 27, 6             |             |
| CANOPY                                  | chlorimuron, metribuzin                            | Classic, Metribuzin              | 2, 5              |             |
| CANOPY EX                               | chlorimuron, tribenuron                            | Classic, Express                 | 2, 2              |             |
| CAPRENO                                 | thiencarbazone, tembotrione                        | Varro, Laudis                    | 2, 27             |             |
| CARNIVORE                               | clopyralid, bromoxynil                             | Stinger, Maestro                 | 4, 6              |             |
| CHEETAH MAX                             | glufosinate, fomesafen                             | Cheetah, Reflex                  | 10, 14            |             |
| CINCH ATZ (Cinch ATZ Lite)              | s-metolachlor, atrazine                            | Dual II Magnum, AAtrex           | 15, 6             |             |
| CLEARPATH                               | quinclorac, imazethapyr                            | Facet, Newpath                   | 4, 2              |             |
| COLT + SALVO (Trump Card)               | 2,4-D, fluroxypyr                                  | 2,4-D, Starane                   | 4, 4              |             |
| COLT + SWORD                            | MCPA, fluroxypyr                                   | MCPA, Starane                    | 4, 4              |             |
| CORVUS                                  | thiencarbazone, isoxaflutole                       | Varro, Balance Flexx             | 2, 27             |             |
| CURTAIL                                 | cloglyralid, 2,4-D                                 | Stinger, 2,4-D                   | 4, 4              |             |
| CURTAIL M                               | cloglyralid, MCPA                                  | Stinger, MCPA                    | 4, 4              |             |
| DEGREE XTRA                             | acetochlor, atrazine                               | Degree, AAtrex                   | 15, 6             |             |
| DIFLEX DUO                              | dicamba, tembotrione                               | DiFlexx, Laudis                  | 4, 27             |             |
| DILIGENT*                               | chlorimuron, rimsulfuron, flumioxazin              | Classic, Resolve, Valor          | 2, 14, 14         |             |
| ENLIST DUO                              | 2,4-D, glyphosate                                  | 2,4-D, glyphosate                | 4, 9              |             |
| ENLITE                                  | chlorimuron, thifensulfuron, flumioxazin           | Classic, Harmony, Valor          | 2, 2, 14          |             |
| ENWIVE                                  | chlorimuron, thifensulfuron, flumioxazin           | Classic, Harmony, Valor          | 2, 2, 14          |             |
| EXPERT                                  | s-metolachlor, atrazine, glyphosate                | Dual Magnum, AAtrex, glyphosate  | 15, 6, 9          |             |
| EXTREME                                 | imazethapyr, glyphosate, acetochlor                | Pursuit, glyphosate, Harness     | 2, 9, 15          |             |
| FIELD MASTER                            | atrazine, glyphosate                               | AAtrex, glyphosate               | 6, 9              |             |
| FIERCE                                  | flumioxazin, pyroxasulfone, Zidua                  | Valor, Zidua                     | 14, 15            |             |
| FIERCE MTZ*                             | flumioxazin, metribuzin                            | Valor, Metribuzin                | 14, 5             |             |
| FIERCE XLT                              | pyroxasulfone, chlorimuron                         | Valor, Classic                   | 15, 2             |             |
| FINESSE                                 | chlorimuron, chlorsulfuron, metsulfuron            | Glean, Ally                      | 2, 2              |             |
| FINESSE GRASS AND BROADLEAF             | chlorsulfuron, flucarbazone                        | Glean, Everest                   | 2, 2              |             |
| FLEXSTAR GT                             | fomesafen, glyphosate                              | Flexstar, glyphosate             | 14, 9             |             |
| FOXFIRE                                 | fenoxaprop, pinoxaden                              | Tecoma, Axial XL                 | 1, 1              |             |
| FULTIME NXT                             | acetochlor, atrazine                               | TopNotch, AAtrex                 | 15, 6             |             |
| FUSION                                  | fluzifop, fenoxaprop                               | Fusilade DX, Puma                | 1, 1              |             |
| GANGSTER                                | flumioxazin, clorasulam                            | Valor, FirstRate                 | 14, 2             |             |
| GOLDSKY                                 | pyroxasulfone, florasulam                          | PowerFlex HL, Starane            | 2, 4              |             |
| GRAZONNEX HTL                           | 2,4-D, s-metolachlor                               | 2,4-D, Dual Magnum               | 4, 15             |             |
| HALEX GT                                | mesotrione, glyphosate                             | Callisto, glyphosate             | 27, 9             |             |
| HARMONY EXTRA (NIMBLE)                  | thifensulfuron, tribenuron                         | Harmony, Express                 | 2, 2              |             |
| HARNESS MAX                             | acetochlor, mesotrione                             | Harness, Callisto                | 15, 27            |             |
| HARNESS XTRA                            | acetochlor, atrazine                               | Harness, AAtrex                  | 15, 6             |             |
| HORNET                                  | cloglyralid, flumetsulam                           | Stinger, Python                  | 4, 2              |             |
| HUSKIE                                  | pyrasulfotole, bromoxynil                          | -----, Maestro                   | 27, 6             |             |
| HUSKIE COMPLETE                         | pyrasulfotole, bromoxynil, thiencarbazone          | -----, Maestro, Varro            | 27, 6, 2          |             |
| IMPACT Z*                               | atrazine, topramezone                              | AAtrex, Impact                   | 6, 27             |             |
| INSTIGATE                               | rimsulfuron, mesotrione                            | Resolve, Matrix, Callisto        | 2, 27             |             |
| KEYSTONE NXT (Keystone LA NXT)          | acetochlor, atrazine                               | Surpass NXT, AAtrex              | 15, 6             |             |
| KOCHIAVORE                              | 2,4-D, fluroxypyr, bromoxynil                      | 2,4-D, Starane, Maestro          | 4, 4, 6           |             |
| LEADOFF                                 | rimsulfuron, thifensulfuron                        | Resolve, Harmony                 | 2, 2              |             |
| LEXAR EZ                                | mesotrione, s-metolachlor                          | Callisto, Dual II Magnum         | 27, 15            |             |
| LUMAX EZ                                | atrazine, fluthiacet                               | AAtrex, Cadet                    | 6, 14             |             |
| MARVEL                                  | fomesafen  | Flexstar                         | 14                |             |
| OBEY                                    | clomazone, quinclorac                              | Command, Facet                   | 13, 4             |             |
| OPTILL                                  | safluenacil, imazethapyr                           | Sharpen, Pursuit                 | 14, 2             |             |
| OPTILL PRO                              | safluenacil, imazethapyr, dimethenamid-P           | Sharpen, Pursuit, Outlook        | 14, 2, 15         |             |
| ORION                                   | florasulam   | -----                            | 2                 |             |
| PANOFLEX                                | thifensulfuron, tribenuron                         | Harmony, Express                 | 2, 2              |             |
| PERMIT PLUS                             | thifensulfuron, halosulfuron                       | Harmony, Permit                  | 2, 2              |             |
| PREFIX                                  | s-metolachlor, fomesafen                           | Dual Magnum, Reflex              | 15, 14            |             |
| PREQUEL                                 | rimsulfuron, isoxaflutole                          | Resolve, Balance                 | 2, 27             |             |
| PROGRESS                                | desmedipham, phenmedipham                          | Betnex, -----                    | 6, 6              |             |
| PULSAR                                  | ethofumesate, dicamba                              | Norton, Clarity                  | 16, 4             |             |
| QUELEX                                  | fluroxypyr, haloxaflutole, florasulam              | Starane, Elevore, -----          | 4, 4, 2           |             |
| RAVE                                    | triasulfuron, dicamba                              | Amber, Clarity                   | 2, 4              |             |
| RAZE                                    | flucarbazone, fluroxypyr                           | Everest, Starane                 | 2, 4              |             |
| REALM Q                                 | rimsulfuron, mesotrione                            | Resolve, Callisto                | 2, 27             |             |
| REBLEX                                  | cyhalofop, penoxsulam                              | Clincher, Grasp                  | 1, 2              |             |
| RESICORE                                | cloglyralid, acetochlor                            | Stinger, Surpass NXT             | 4, 15             |             |
| RESOLVE Q                               | mesotrione, rimsulfuron                            | Callisto, Resolve                | 27, 2             |             |
| REVULIN Q                               | nicosulfuron                                       | Accent Q                         | 2                 |             |
| RIMFIRE MAX                             | propoxycarbazine, mesosulfuron                     | Olympus, Osprey                  | 2, 2              |             |
| ROUNDUP XTEND*                          | dicamba, glyphosate                                | XtendiMax, glyphosate            | 4, 9              |             |
| ROWEL FX                                | flumioxazin, chlorimuron                           | Valor, Classic                   | 14, 2             |             |
| SENTRALLAS                              | thifensulfuron, fluroxypyr                         | Harmony, Starane                 | 2, 4              |             |
| SEQUENCE                                | s-metolachlor, glyphosate                          | Dual Magnum, glyphosate          | 15, 9             |             |
| SOLSTICE                                | mesotrione, fluthiacet                             | Callisto, Cadet                  | 27, 14            |             |
| SONIC                                   | sulfentrazone, clorasulam                          | Spartan, FirstRate               | 14, 2             |             |
| SPARTAN CHARGE                          | sulfentrazone, carfentrazone                       | Spartan, Aim                     | 14, 14            |             |
| STANZA                                  | cloglyralid, flumetsulam                           | Stinger, Python                  | 4, 2              |             |
| STARANE FLEX                            | florasulam, fluroxypyr                             | -----, Starane                   | 2, 4              |             |
| STARANE NXT                             | fluroxypyr, bromoxynil                             | Starane, Maestro                 | 4, 6              |             |
| STATUS                                  | diflufenzopyr, dicamba                             | -----, Clarity                   | 19, 4             |             |
| STEADFAST Q                             | nicosulfuron                                       | Accent Q                         | 2                 |             |
| STORM                                   | benfotiazole, acifluorfen                          | Basagan, Ultra Blazer            | 6, 14             |             |
| SUPREMACY                               | thifensulfuron, fluroxypyr, tribenuron             | Harmony, Starane, Express        | 2, 4, 2           |             |
| SUPREND                                 | prometryn, trifloxysulfuron                        | Caparol, Envoke                  | 6, 2              |             |
| SURESTART II                            | acetochlor, cloglyralid                            | Surpass NXT, Stinger             | 15, 4             |             |
| SURVEIL                                 | flumetsulam, flumioxazin, clorasulam               | Python, Valor, FirstRate         | 2, 14, 2          |             |
| SYNCHRONY                               | chlorimuron, thifensulfuron                        | Classic, Harmony                 | 2, 2              |             |
| TALINDR                                 | bromoxynil, bicyclopyrone                          | Maestro, -----                   | 6, 27             |             |
| TRAVALLAS                               | metsulfuron, thifensulfuron, fluroxypyr            | Ally, Harmony, Starane           | 2, 2, 4           |             |
| TRIPLEFLEX II                           | acetochlor, cloglyralid                            | Harness, Stinger                 | 15, 4             |             |
| TRIVENCE                                | flumetsulam, chlorimuron, flumioxazin              | Python, Classic, Valor           | 2, 2, 14          |             |
| VALOR XLT                               | flumioxazin, chlorimuron                           | Valor, Classic                   | 14, 2             |             |
| VARISTO                                 | imazamox, bentazon                                 | Raptor, Basagan                  | 4, 6              |             |
| VELPAR ALFAMAX                          | hexazinone, diuron                                 | Velpar, Karmex                   | 6, 7              |             |
| VERDICT                                 | safluenacil, dimethenamid-P                        | Sharpen, Outlook                 | 14, 15            |             |
| WARRANT ULTRA                           | fomesafen, acetochlor                              | Reflex, Warrant                  | 14, 15            |             |
| WELD (FULL DECK)                        | MCPA, fluroxypyr                                   | MCPA, Starane                    | 4, 4              |             |
| WIDEMATCH                               | cloglyralid, fluroxypyr                            | Stinger, Starane                 | 4, 4              |             |
| WOLVERINE                               | fenoxaprop, pyrasulfotole                          | Tecoma, -----                    | 1, 27             |             |
| YUKON                                   | pyrasulfotole, bromoxynil, dicamba                 | Maestro, Banel                   | 27, 4             |             |
| ZEMAX                                   | mesotrione, s-metolachlor                          | Callisto, Dual II Magnum         | 27, 15            |             |
| ZIDUA PRO                               | imazethapyr, safluenacil, pyroxasulfone            | Pursuit, Sharpen, Zidua          | 15, 14, 15        |             |

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