

## North Dakota Herbicide Compendium

The listings are approximate average retail prices for small quantities. Herbicide prices do not include cost of additives, surfactants, oils, fertilizer or application costs. Prices vary depending on area of the state, wholesaler, bulk discounts, seasonal changes, quantities purchased and particular programs the manufacturing company offers. Consult local agricultural suppliers for exact price in area.

| Product <sup>Site of action-pg 100-101</sup> | Company  | Brand equivalent | Active ingredients                | Formulation        | \$/Unit     | Product/A  |            |            | Cost \$/A |       |       |
|--|----------|------------------|-----------------------------------|--------------------|-------------|------------|------------|------------|-----------|-------|-------|
|  |          |                  |                                   |                    |             | Low        | Med        | High       | Low       | Med   | High  |
| Aatrex 4L <sup>5</sup>                       | Syngenta | -                | atrazine                          | 4F                 | 14.50 gal   | 0.75 pt    | 1.5 pt     | 2 pt       | 1.40      | 2.70  | 3.60  |
| Aatrex Nine-O <sup>5</sup>                   | Syngenta | -                | atrazine                          | 90DF               | 3.70 lb     | 0.42 lb    | 0.56 lb    | 0.83 lb    | 1.60      | 2.10  | 3.10  |
| Abundit Edge <sup>9</sup>                    | Corteva  | RU PM            | glyphosate-k salt                 | 4.5SL              | 22.15 gal   | 22 fl oz   | 32 fl oz   | 44 fl oz   | 3.80      | 5.50  | 7.60  |
| Accent Q <sup>2</sup>                        | Corteva  | Accent           | nicosulfuron + isoxadifen safener | 54.5DF             | 18.00 oz    | 0.67 oz    | 1.25 oz    | 1.8 oz     | 12.10     | 22.50 | 32.40 |
| Accurate Extra <sup>2,2,2</sup>              | FMC      | Ally Extra       | thifensulf & triben & metsulfuron | 37.50+18.75+15DF   | 4.25 oz     | 10 A/pk    | -          | 5 A/pk     | 0.85      | -     | 1.70  |
| Acumen <sup>3</sup>                          | Tenkoz   | Prowl            | pendimethalin                     | 3.3EC              | 35.00 gal   | 2.4 pt     | 3 pt       | 3.64 pt    | 10.50     | 13.10 | 15.90 |
| Acuron <sup>5,15,27,27</sup>                 | Syngenta | -                | atra&meto&meso&bicyclo&benox      | 1+2.14+0.24+.06ZC  | 66.50 gal   | 1.5 qt     | 2.25 qt    | 3 qt       | 24.90     | 37.40 | 49.90 |
| AcuronFlex <sup>15,27,27</sup>               | Syngenta | -                | meto & meso & bicyclo & benox     | 2.86+0.32+.08ZC    | 79.50 gal   | 1.2 qt     | -          | 2.25 qt    | 23.90     | -     | 44.70 |
| Affinity BrdSpec <sup>2,2</sup>              | FMC      | -                | thifensulfuron & tribenuron 1:1   | 25 + 25SG          | 8.40 oz     | 0.4 oz     | 0.6 oz     | 1 oz       | 3.40      | 5.00  | 8.40  |
| AffinityTankMix <sup>2,2</sup>               | FMC      | -                | thifensulfuron & tribenuron 4:1   | 40 + 10SG          | 7.80 oz     | 0.6 oz     | 0.75 oz    | 1 oz       | 4.70      | 5.90  | 7.80  |
| Afforia <sup>2,2,14</sup>                    | Corteva  | -                | flumioxazin & thifensulf & triben | 40.8 & 5 & 5SG     | 5 oz        | 2.5 oz     | 3 oz       | 3.75 oz    | 12.50     | 15.00 | 18.70 |
| Agility <sup>4,2,2,2</sup>                   | FMC      | -                | dicamba&thifen&triben&metsulf     | 57.8+4.7+2.4+1.9SG | 2.27 oz     | 1.6 oz     | 2.4 oz     | 3.2 oz     | 3.60      | 5.40  | 7.30  |
| Aim EC <sup>14</sup>                         | FMC      | -                | carfentrazone-ethyl               | 2EC                | 156.00 qt   | 1/2 fl oz  | -          | 1 fl oz    | 2.40      | -     | 4.90  |
| Alion <sup>29</sup>                          | Bayer    | -                | indaziflam                        | 1.67EC             | 13.75 fl oz | 5 fl oz    | 5.75 fl oz | 6.5 fl oz  | 68.80     | 79.10 | 89.40 |
| Alluvex <sup>2,2</sup>                       | Corteva  | -                | thifensulfuron & rimsulfuron 1:1  | 16.7 + 16.7SG      | 5.40 oz     | 1.5 oz     | -          | 1.5 oz     | 8.10      | -     | 8.10  |
| Ally <sup>2</sup>                            | FMC      | -                | metsulfuron-methyl                | 60XP               | 8.50 oz     | 0.05 oz    | 0.1 oz     | 0.3 oz     | 0.40      | 0.90  | 2.60  |
| AllyExtra SG <sup>2,2,2</sup>                | FMC      | -                | thifensulf & triben & metsulf     | 27.3+13.6+10.9SG   | 7.60 oz     | 0.3 oz     | -          | 0.5 oz     | 2.30      | -     | 3.80  |
| Amber <sup>2</sup>                           | Syngenta | -                | triasulfuron                      | 75DF               | 10.00 oz    | 0.14 oz    | 0.28 oz    | 0.56 oz    | 1.40      | 2.80  | 5.60  |
| Anthem <sup>14,15</sup>                      | FMC      | -                | fluthiacet & pyroxasulfone        | 0.0632 + 2.09SC    | 2.85 fl oz  | 5 fl oz    | 9 fl oz    | 13 fl oz   | 14.30     | 25.70 | 37.10 |
| AnthemATZ <sup>5,14,15</sup>                 | FMC      | -                | atra & fluthiacet & pyroxasulfone | 4+0.014+0.485SC    | 101.75 gal  | 1.75 pt    | 2.75 pt    | 3.75 pt    | 22.30     | 35.00 | 47.70 |
| AnthemFlex <sup>14,15</sup>                  | FMC      | -                | carfentrazone & pyroxasulfone     | 0.267 + 3.733SC    | 570.00 gal  | 2 fl oz    | 4 fl oz    | 4.5 fl oz  | 8.90      | 17.80 | 20.00 |
| AnthemMaxx <sup>14,15</sup>                  | FMC      | -                | fluthiacet & pyroxasulfone        | 0.126 + 4.174SC    | 760.00 gal  | 2.5 fl oz  | 4.5 fl oz  | 6.5 fl oz  | 14.80     | 26.70 | 38.60 |
| Armezon <sup>27</sup>                        | BASF     | Impact           | topramezone                       | 2.8SC              | 16.35 fl oz | 0.33 fl oz | 0.5 fl oz  | 0.75 fl oz | 5.40      | 8.20  | 12.30 |
| ArmezonPro <sup>15,27</sup>                  | BASF     | -                | topramezone & dimethenamid        | 0.1 + 5.25SC       | 140.00 gal  | 16 fl oz   | 20 fl oz   | 24 fl oz   | 17.50     | 21.90 | 26.30 |
| Arrow <sup>1</sup>                           | ADAMA    | Select           | clethodim                         | 2EC                | 73.50 gal   | 4 fl oz    | 6 fl oz    | 8 fl oz    | 2.30      | 3.40  | 4.60  |
| Arsenal <sup>2</sup>                         | BASF     | -                | imazapyr-ipa salt                 | 2AS                | 70.00 gal   | 1 qt       | 2 qt       | 3 qt       | 17.50     | 35.00 | 52.50 |
| Assure II <sup>1</sup>                       | AMVAC    | -                | quizalofop-ethyl                  | 0.88EC             | 88.48 gal   | 4 fl oz    | 8 fl oz    | 10 fl oz   | 2.80      | 5.50  | 6.90  |
| Atra-5 <sup>5</sup>                          | Drexel   | -                | atrazine                          | 5F                 | 20.25 gal   | 0.75 pt    | 1.5 pt     | 2 pt       | 1.90      | 3.80  | 5.10  |
| Atrazine 4L <sup>5</sup>                     | Severl   | -                | atrazine                          | 4L                 | 17.00 gal   | 0.75 pt    | 1.5 pt     | 2 pt       | 1.60      | 3.20  | 4.30  |
| Atrazine 90DF <sup>5</sup>                   | Severl   | -                | atrazine                          | 90DF               | 4.23 lb     | 0.42 lb    | 0.83 lb    | 1.11 lb    | 1.80      | 3.50  | 4.70  |
| Audit 1:1 <sup>2,2</sup>                     | UPL      | -                | thifensulfuron & tribenuron 1:1   | 25 + 25XP          | 11.00 oz    | 0.4 oz     | 0.6 oz     | 1 oz       | 4.40      | 6.60  | 11.00 |
| Audit 1:1 <sup>2,2</sup>                     | UPL      | -                | thifensulfuron & tribenuron 4:1   | 40 + 10XP          | 8.30 oz     | 0.6 oz     | 0.75 oz    | 1 oz       | 5.00      | 6.20  | 8.30  |
| Authority Assist <sup>2,14</sup>             | FMC      | -                | imazethapyr & sulfentrazone       | 0.67 + 3.33L       | 2.90 fl oz  | 6 fl oz    | 7.5 fl oz  | 9 fl oz    | 17.40     | 21.80 | 26.10 |
| Authority Edge <sup>15, 14</sup>             | FMC      | -                | pyroxasulfone & sulfentrazone     | 1.52 + 2.73 SC     | -           | 11.7 fl oz | 13.7 fl oz | 15.7 fl oz | -         | -     | -     |
| Authority Elite <sup>15,14</sup>             | FMC      | BroadAxe         | S-metolachlor & sulfentrazone     | 6.3 + 0.7EC        | 104.00 gal  | 20 fl oz   | 25 fl oz   | 32 fl oz   | 16.30     | 20.30 | 26.00 |
| Authority First <sup>2,14</sup>              | FMC      | Sonic            | cloransulam & sulfentrazone       | 7.9 + 62.1WDG      | 4.53 oz     | 4 oz       | 6 oz       | 8 oz       | 18.10     | 27.20 | 36.20 |
| Authority MTZ <sup>5,14</sup>                | FMC      | -                | metribuzin & sulfentrazone        | 27 + 18WDG         | 32.10 lb    | 8 oz       | 12 oz      | 15 oz      | 16.10     | 24.10 | 30.10 |
| Authority Supreme <sup>14,15</sup>           | FMC      | -                | pyroxasulfone & sulfentrazone     | 2.08 + 2.08SC      | 400.00 gal  | 5 fl oz    | 8 fl oz    | 11 fl oz   | 15.60     | 25.00 | 34.40 |
| Autumn Super <sup>2,2</sup>                  | Bayer    | -                | iodosulfuron & thiencazabone      | 6 + 45WDG          | 21.75 oz    | 0.5 oz     | -          | 0.5 oz     | 10.90     | -     | 10.90 |

| Product <sup>Site of action-pg 100-101</sup> | Company      | Brand equivalent | Active ingredients                          | Formulation      | \$/Unit    | Product/A  |            |            | Cost \$/A |       |       |
|--|--------------|------------------|---|------------------|------------|------------|------------|------------|-----------|-------|-------|
|  |              |                  |   |                  |            | Low        | Med        | High       | Low       | Med   | High  |
| Avadex MA <sup>8</sup>                       | Gowan        | Far-Go           | triallate                                   | 10G              | 1.40 lb    | 10 lb      | 12.5 lb    | 15 lb      | 14.00     | 17.50 | 21.00 |
| Avalanche Ultra <sup>14</sup>                | Winfield     | -                | acifluorfen-Na salt                         | 2SL              | 67.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 8.40      | 12.60 | 16.80 |
| Axial Bold <sup>1,1</sup>                    | Syngenta     | -                | Fenoxaprop + pinoxaden                      | 0.457 + 0.228 EC | 121.00 gal | 15 fl oz   | -          | 15 fl oz   | 14.20     | -     | 14.20 |
| Axial Star <sup>4,1</sup>                    | Syngenta     | -                | fluroxypyr & pinoxaden & safnr              | 0.73 + 0.42EC    | 123.00 gal | 16.4 fl oz | -          | 16.4 fl oz | 15.80     | -     | 15.80 |
| Axial XL <sup>1</sup>                        | Syngenta     | -                | pinoxaden&cloquintocet safener              | 0.42EC           | 117.50 gal | 16.4 fl oz | -          | 16.4 fl oz | 15.10     | -     | 15.10 |
| Balance Flexx <sup>27</sup>                  | Bayer        | -                | isoxaflutole & cyprosulfamide               | 2SC              | 3.93 fl oz | 3 fl oz    | 4.5 floz   | 6 fl oz    | 11.80     | 17.70 | 23.60 |
| Banvel <sup>4</sup>                          | Several      | -                | dicamba-dma salt                            | 4SL              | 75.00 gal  | 4 fl oz    | 8 fl oz    | 16 fl oz   | 2.30      | 4.70  | 9.40  |
| Barrage HF <sup>4</sup>                      | Helena       | -                | 2,4-D ethylhexyl-ester                      | 4.7SL            | 44.00 gal  | 6 fl oz    | 9 fl oz    | 13 fl oz   | 2.10      | 3.10  | 4.50  |
| Basagran <sup>6</sup>                        | Several      | -                | bentazon-Na salt                            | 4SL              | 55.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.90      | 10.30 | 13.80 |
| Basagran 5L <sup>6</sup>                     | BASF         | Basgran          | bentazon-Na salt                            | 5SL              | 65.50 gal  | 0.8 pt     | 1.2 pt     | 1.6 pt     | 6.60      | 9.80  | 13.10 |
| Basis Blend <sup>2,2</sup>                   | Corteva      | ResolveQ         | rimsulfuron & thifen & isoxadifen           | 20 + 10SG        | 7.15 oz    | 1.25 oz    | -          | 1.5 oz     | 8.90      | -     | 10.70 |
| Beacon <sup>2</sup>                          | Syngenta     | -                | primisulfuron-methyl                        | 75DF             | 36.00 oz   | 0.38 oz    | 0.5 oz     | 0.76 oz    | 13.70     | 18.00 | 27.40 |
| Bentazon <sup>6</sup>                        | Willowood    | Basagran         | bentazon-Na salt                            | 4SL              | 50.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.30      | 9.40  | 12.50 |
| Betamix <sup>5,5</sup>                       | Bayer        | -                | desmedipham & phenmedipham                  | 0.65 + 0.65EC    | 90.00 gal  | 4.62 pt    | 6 pt       | 7.7 pt     | 52.00     | 67.50 | 86.60 |
| Beyond <sup>2</sup>                          | BASF         | Raptor           | imazamox-NH <sub>4</sub> salt               | 1SL              | 450.00 gal | 2 fl oz    | 3 fl oz    | 4 fl oz    | 7.00      | 10.50 | 14.10 |
| Bicep II Magnum <sup>5,15</sup>              | Syngenta     | -                | atrazine & S-metolachlor                    | 3.1 + 2.4L       | 37.00 gal  | 2.1 qt     | 2.35 qt    | 2.6 qt     | 19.40     | 21.70 | 24.10 |
| Bicep Lite II Magnum <sup>5,15</sup>         | Syngenta     | -                | atrazine & S-metolachlor                    | 2.67 + 3.23L     | 53.00 gal  | 1.5 qt     | 1.9 qt     | 2.2 qt     | 19.90     | 25.20 | 29.20 |
| Bison <sup>6,4</sup>                         | Winfield     | Bronate          | bromoxynil ester & MCPA ester               | 2 + 2EC          | 50.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.30      | 9.40  | 12.50 |
| Blanket <sup>14</sup>                        | Tenkoz       | Spartan          | sulfentrazone                               | 4L               | 227.00 gal | 3 fl oz    | 4.5 fl oz  | 6 fl oz    | 5.30      | 8.00  | 10.60 |
| Boundary <sup>15,5</sup>                     | Syngenta     | -                | S-metolachlor & metribuzin                  | 5.25 + 1.25L     | 80.00 gal  | 1.2 pt     | 1.6 pt     | 2.45 pt    | 12.00     | 16.00 | 24.50 |
| Brash <sup>4,4</sup>                         | Winfield     | Weedmstr         | 2,4-D-dma & dicamba-dma salt                | 2.87 + 1SL       | 28.00 gal  | 0.5 pt     | 2 pt       | 4 pt       | 1.80      | 7.00  | 14.00 |
| Brawl <sup>15</sup>                          | Tenkoz       | Dual Mag         | S-metolachlor                               | 7.62EC           | 83.00 gal  | 1.33 pt    | 1.67 pt    | 2 pt       | 13.80     | 17.30 | 20.80 |
| Brawl II <sup>15</sup>                       | Tenkoz       | Dual II M        | S-metolachlor & benoxacor safen             | 7.64EC           | 87.00 gal  | 1.33 pt    | 1.67 pt    | 2 pt       | 14.50     | 18.20 | 21.80 |
| Breakfree <sup>15</sup>                      | Corteva      | Surpass          | acetochlor & dichlormid safener             | 6.4EC            | 65.00 gal  | 1.5 pt     | 2 pt       | 2.25 pt    | 12.20     | 16.30 | 18.30 |
| Breakfree NXT Lite <sup>15,5</sup>           | Corteva      | Harness X        | acetochlor & atrazine                       | 4.3 + 1.7L       | 36.50 gal  | 1.5 qt     | 1.8 qt     | 2.1 qt     | 13.70     | 16.40 | 19.20 |
| Broadrange 55 <sup>4</sup>                   | Wilbur-Ellis | 2,4-D            | 2,4-D-diethylamine salt                     | 5.03L            | 36.00 gal  | 0.38 pt    | 0.75 pt    | 1.5 pt     | 1.70      | 3.40  | 6.80  |
| BroadAxe XC <sup>15,14</sup>                 | Syngenta     | Auth. Elite      | S-metolachlor & sulfentrazone               | 6.3 + 0.7EC      | 108.00 gal | 20 fl oz   | 25 fl oz   | 32 fl oz   | 16.90     | 21.10 | 27.00 |
| Broclean <sup>6</sup>                        | Loveland     | Buctril          | bromoxynil-ester                            | 2EC              | 51.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.40      | 9.60  | 12.80 |
| Bromac <sup>6,4</sup>                        | Loveland     | Bronate          | bromoxynil-ester & MCPA-ester               | 2 + 2EC          | 47.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 5.90      | 8.80  | 11.80 |
| Bromac Advanced <sup>6,4</sup>               | Loveland     | Bron.Adv.        | bromoxynil-ester & MCPA-ester               | 2.5 + 2.5EC      | 60.00 gal  | 0.8 pt     | 1.2 pt     | 1.6 pt     | 6.00      | 9.00  | 12.00 |
| Brox <sup>6</sup>                            | Albaugh      | Buctril          | bromoxynil-ester                            | 2EC              | 47.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 5.90      | 8.80  | 11.80 |
| Brox M <sup>6,4</sup>                        | Albaugh      | Bronate          | bromoxynil-ester & MCPA-ester               | 2 + 2EC          | 50.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.30      | 9.40  | 12.50 |
| Brox M Ultra <sup>6,4</sup>                  | Albaugh      | Bron. Adv.       | bromoxynil-ester & MCPA-ester               | 2.5 + 2.5EC      | 60.00 gal  | 0.8 pt     | 1.2 pt     | 1.6 pt     | 6.00      | 9.00  | 12.00 |
| Buccaneer/Plus <sup>9</sup>                  | Tenkoz       | Roundup          | glyphosate-ipa salt                         | 3SL              | 22.00 gal  | 2 pt       | 3 pt       | 4 pt       | 5.50      | 8.30  | 11.00 |
| Butyrac 200 <sup>4</sup>                     | Albaugh      | -                | 2,4-DB-dma salt                             | 2SL              | 27.75 gal  | 2 pt       | 3 pt       | 4 pt       | 6.90      | 10.40 | 13.90 |
| Cadet <sup>14</sup>                          | FMC          | -                | fluthiacet-methyl                           | 0.91SL           | 300.00 qt  | 0.4 fl oz  | 0.65 fl oz | 0.9 fl oz  | 3.80      | 6.10  | 8.40  |
| Callisto <sup>27</sup>                       | Syngenta     | -                | mesotrione                                  | 4SE              | 264.00 gal | 2 fl oz    | 2.5 fl oz  | 3 fl oz    | 4.10      | 5.20  | 6.20  |
| Callisto GT <sup>9,27</sup>                  | Syngenta     | -                | mesotrione & glyphosate                     | 0.38 + 3.8SE     | 40.20 gal  | 2 pt       | -          | 2 pt       | 10.00     | -     | 10.00 |
| Callisto Xtra <sup>27,5</sup>                | Syngenta     | -                | mesotrione & atrazine                       | 0.5 + 3.2SC      | 46.75 gal  | 15 fl oz   | 22 fl oz   | 24 fl oz   | 5.50      | 8.00  | 8.80  |
| Candor <sup>4,4</sup>                        | Nufarm       | Crossbow         | triclopyr-bee & 2,4-D-bee                   | 1 + 2SL          | 42.00 gal  | 1 qt       | 3 qt       | 6 qt       | 10.50     | 31.50 | 63.00 |
| Capreno <sup>27,2</sup>                      | Bayer        | -                | tembo & thien carbazole & isox              | 2.88 + 0.57SC    | 5.10 fl oz | 3 fl oz    | -          | 3 fl oz    | 15.30     | -     | 15.30 |
| Capstone <sup>4,4</sup>                      | Corteva      | -                | aminopyralid-3ipNH <sub>2</sub> & triclopyr | 0.1 + 1SL        | 43.00 gal  | 4 pt       | 5 pt       | 6 pt       | 21.50     | 26.90 | 32.30 |
| Carnivore <sup>4,4,6</sup>                   | Winfield     | -                | MCPA & floroxypr & bromoxynil               | 1.67+0.67+1.67EC | 55.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.90      | 10.30 | 13.80 |
| Casoron 4G                                   | UPL          | -                | dichlobenil                                 | 4G               | 2.74 lb    | 100 lb     | 150 lb     | 200 lb     | 274       | 411   | 548   |

| Product                         | Site of action-pg 100-101 | Company      | Brand equivalent | Active ingredients                           | Formulation       | \$/Unit    | Product/A  |           |            | Cost \$/A |       |       |
|---------------------------------|---------------------------|--------------|------------------|--|-------------------|------------|------------|-----------|------------|-----------|-------|-------|
|                                 |                           |              |                  |  |                   |            | Low        | Med       | High       | Low       | Med   | High  |
| Casoron 10G                     |                           | UPL          | -                | dichlobenil                                  | 10G               | 7.50 lb    | 40 lb      | 60 lb     | 80 lb      | 300       | 450   | 600   |
| Chaparral <sup>4,2</sup>        |                           | Corteva      | -                | aminopyralid-K salt+ metsulfuron             | 52.5 + 9.45DF     | 92.50 lb   | 1 oz       | 2 oz      | 3 oz       | 5.80      | 11.60 | 17.30 |
| Charger Basic <sup>15</sup>     |                           | Winfield     | Dual Mag.        | S-metolachlor                                | 7.62EC            | 57.00 gal  | 1.33 pt    | 1.67 pt   | 2 pt       | 9.50      | 11.90 | 14.30 |
| Charger Max <sup>15</sup>       |                           | Winfield     | Dual II M        | S-metolachlor & benoxacor safen              | 7.64EC            | 61.00 gal  | 1.33 pt    | 1.67 pt   | 2 pt       | 10.10     | 12.70 | 15.30 |
| Chateau <sup>14</sup>           |                           | Valent       | Valor            | flumioxazin                                  | 51WDG             | 5.75 oz    | 1.5 oz     | 2 oz      | 2.5 oz     | 8.60      | 11.50 | 14.40 |
| Cheetah <sup>10</sup>           |                           | Nufarm       | Liberty          | glufosinate-NH <sub>4</sub> salt             | 2.34SL            | 68.25 gal  | 29 fl oz   | 32 fl oz  | 43 fl oz   | 15.50     | 17.10 | 22.90 |
| Cheetah Max <sup>10</sup>       |                           | Nufarm       | -                | fomesafen & glufosinate-NH <sub>4</sub> salt | 1 + 2SL           |            | 24 fl oz   | -         | 24 fl oz   | -         | -     | -     |
| Cimarron X-tra <sup>2,2</sup>   |                           | Bayer        | -                | chlorsulfuron & metsulfuron                  | 37.5 + 30DF       | 17.00 oz   | 0.5 oz     | 1 oz      | 2 oz       | 8.50      | 17.00 | 34.00 |
| Cinch <sup>15</sup>             |                           | Corteva      | Dual II M        | S-metolachlor & benoxacor safen              | 7.64EC            | 107.50 gal | 1.33 pt    | 1.67 pt   | 2 pt       | 17.90     | 22.40 | 26.90 |
| Cinch ATZ Lite <sup>5,15</sup>  |                           | Corteva      | Bicep II L       | atrazine & S-metolachlor                     | 2.67 + 3.23L      | 44.00 gal  | 1 qt       | 1.5 qt    | 1.9 qt     | 11.00     | 16.50 | 20.90 |
| Clarity <sup>4</sup>            |                           | BASF         | -                | dicamba-dga salt                             | 4SL               | 92.00 gal  | 4 fl oz    | 8 fl oz   | 16 fl oz   | 2.90      | 5.80  | 11.50 |
| Clash <sup>4</sup>              |                           | Nufarm       | Clarity          | dicamba-dga salt                             | 4SL               | 80.00 gal  | 2 fl oz    | 4 fl oz   | 8 fl oz    | 1.30      | 2.50  | 5.00  |
| Clean Slate <sup>4</sup>        |                           | Nufarm       | Stinger          | clopyralid-monoethanolamine salt             | 3SL               | 185.00 gal | 1.3 fl oz  | 2.6 fl oz | 0.25 pt    | 1.90      | 3.80  | 5.80  |
| Cleansweep D <sup>4,4,6</sup>   |                           | Nufarm       | -                | fluroxypyr-e & 2,4-D-e & bromox              | 0.64 + 1.6 + 2EC  | 70.00 gal  | 1 pt       | 1.25 pt   | 1.5 pt     | 8.80      | 10.90 | 13.10 |
| Cleansweep M <sup>4,4,6</sup>   |                           | Nufarm       | -                | fluroxypyr-e & MCPA-e & bromox               | 0.67+1.67+1.67 EC | 68.00 gal  | 1 pt       | 1.5 pt    | 2 pt       | 8.50      | 12.80 | 17.00 |
| CleanTraxx <sup>1</sup>         |                           | Corteva      | -                | penoxsulam & oxyfluorfen                     | 0.083 + 3.93EC    |            | 3pt        | 3.75 pt   | 4.5 pt     | -         | -     | -     |
| CleanWave <sup>4,4</sup>        |                           | Corteva      | -                | aminopyralid & fluroxypyr                    | 0.08 + 1.12EC     | 65.00 gal  | 10 fl oz   | 12 fl oz  | 14 fl oz   | 5.10      | 6.10  | 7.10  |
| Clethodim <sup>1</sup>          |                           | Several      | Select           | clethodim                                    | 2EC               | 85.00 gal  | 4 fl oz    | 6 fl oz   | 8 fl oz    | 2.70      | 4.00  | 5.30  |
| Cobra <sup>14</sup>             |                           | Valent       | -                | lactofen                                     | 2EC               | 204.25 gal | 8 fl oz    | 10 fl oz  | 12.5 fl oz | 12.80     | 16.00 | 19.90 |
| Collide <sup>14</sup>           |                           | UPL          | Goal             | oxyfluorfen                                  | 2EC               | 98.00 gal  | 4 pt       | 6 pt      | 8 pt       | 49.00     | 73.50 | 98.00 |
| Colt AS <sup>4,4</sup>          |                           | Loveland     | WideMatch        | clopyralid-MEAsalt & fluroxypyr-e            | 0.75 + 0.75EC     | 55.00 gal  | 1 pt       | 1.25 pt   | 1.33 pt    | 6.90      | 8.60  | 9.10  |
| Colt + Salvo <sup>4,4</sup>     |                           | Loveland     | -                | fluroxypyr-ester & 2,4-D-ester               | 0.75 + 3EC        | 48.00 gal  | 1 pt       | 1.33 pt   | 1.67 pt    | 6.00      | 8.00  | 10.00 |
| Colt + Sword <sup>4,4</sup>     |                           | Loveland     | -                | fluroxypyr-ester & MCPA-ester                | 0.71 + 2.84EC     | 55.00 gal  | 1.125 pt   | 1.5 pt    | 2 pt       | 7.70      | 10.30 | 13.80 |
| Comet <sup>4</sup>              |                           | Nufarm       | Starane          | fluroxypyr-ester                             | 1.5EC             | 64.00 gal  | 0.5 pt     | 0.67 pt   | 1 pt       | 4.00      | 5.40  | 8.00  |
| Confidence <sup>15</sup>        |                           | Winfield     | Harness          | acetochlor & safener                         | 7EC               | 62.00 gal  | 1.25 pt    | 1.75 pt   | 2.25 pt    | 9.70      | 13.60 | 17.40 |
| Confidence Xtra <sup>15,5</sup> |                           | Winfield     | Harness X        | acet & dichlormid & atra                     | 4.3 + 1.7F        | 38.00 gal  | 1.2 qt     | 1.5 qt    | 1.8 qt     | 11.40     | 14.30 | 17.10 |
| Cornerstone/Plus <sup>9</sup>   |                           | Winfield     | Roundup          | glyphosate-ipa salt                          | 3SL               | 15.00 gal  | 2 pt       | 3 pt      | 4 pt       | 3.80      | 5.60  | 7.50  |
| Corvus <sup>27,2</sup>          |                           | Bayer        | -                | isox&thiencarbazone&cyprosulf                | 1.88 & 0.75SC     | 6.65 fl oz | 3.3 fl oz  | 4.5 fl oz | 5.6 fl oz  | 21.90     | 29.90 | 37.20 |
| Credit 41 Extra <sup>9</sup>    |                           | Nufarm       | Roundup          | glyt-ipa salt                                | 3SL               | 15.00 gal  | 2 pt       | 3 pt      | 4 pt       | 3.80      | 5.60  | 7.50  |
| Credit Xtreme <sup>9</sup>      |                           | Nufarm       | -                | glyphosate-ipa & K salt                      | 2.5 + 2 SL        | 18.00 gal  | 22 fl oz   | 32 fl oz  | 44 fl oz   | 3.10      | 4.50  | 6.20  |
| Crossbow <sup>4,4</sup>         |                           | Corteva      | -                | triclopyr-bee & 2,4-D-bee                    | 1 + 2SL           | 44.00 gal  | 1 qt       | 3 qt      | 6 qt       | 11.00     | 33.00 | 66.00 |
| Curtail <sup>4,4</sup>          |                           | Corteva      | -                | clopyralid-mea & 2,4-D-3ipa salt             | 0.38 + 2SL        | 60.50 gal  | 2 pt       | 2.67 pt   | 4 pt       | 15.10     | 20.20 | 30.30 |
| Curtail M <sup>4,4</sup>        |                           | Corteva      | -                | clopyralid-acid & MCPAioester                | 0.42 + 2.35SL     | 69.00 gal  | 1.75 pt    | 2 pt      | 2.33 pt    | 15.10     | 17.30 | 20.10 |
| Dacthal                         |                           | AMVAC        | -                | DCPA   | 6F                | 185.50 gal | 8 pt       | 10 pt     | 14 pt      | 186       | 232   | 325   |
| Dacthal                         |                           | AMVAC        | -                | DCPA   | 75WDG             | 20.00 lb   | 8 lb       | 10 lb     | 14 lb      | 160       | 200   | 280   |
| Deadbolt <sup>6,4</sup>         |                           | Wilbur-Ellis | -                | bromoxynil-ester & 2,4-D-ester               | 2 + 2.5EC         | 68.00 gal  | 12.8 fl oz | -         | 12.8 fl oz | 6.80      | -     | 6.80  |
| Defol                           |                           | Drexel       | Na chlorat       | Sodium chlorate                              | 5SL               | 7.00 gal   | 4.8 qt     | -         | 4.8 qt     | 8.40      | -     | 8.40  |
| Detonate <sup>4</sup>           |                           | Tenkoz       | Banvel           | dicamba-dma salt                             | 4SL               | 72.00 gal  | 4 fl oz    | 8 fl oz   | 16 fl oz   | 2.30      | 4.50  | 9.00  |
| Diablo <sup>4</sup>             |                           | Nufarm       | Banvel           | dicamba-dma salt                             | 4SL               | 43.00 gal  | 4 fl oz    | 8 fl oz   | 16 fl oz   | 1.30      | 2.70  | 5.40  |
| Dicamba <sup>4</sup>            |                           | Several      | Banvel           | dicamba-dma salt                             | 4SL               | 50.00 gal  | 4 fl oz    | 8 fl oz   | 16 fl oz   | 1.60      | 3.10  | 6.30  |
| DiFlexx <sup>4</sup>            |                           | Bayer        | Clarity          | dicamba-dga & cyprosulfamide                 | 4SL               | 179.00 gal | 8 fl oz    | 12 fl oz  | 16 fl oz   | 11.20     | 16.80 | 22.40 |
| DiFlexx Duo <sup>4</sup>        |                           | Bayer        | -                | dic-dga & tembotrione & safener              | 1.86 + 0.27SC     | 84.00 gal  | 24 fl oz   | 32 fl oz  | 40 fl oz   | 15.80     | 21.00 | 26.30 |
| Dimetric EXT <sup>5</sup>       |                           | Winfield     | Sencor           | metribuzin                                   | 75DF              | 20.50 lb   | 0.25 lb    | 0.33 lb   | 0.5 lb     | 5.10      | 6.80  | 10.30 |

| Product <sup>Site of action-pg 100-101</sup> | Company   | Brand equivalent | Active ingredients                      | Formulation         | \$/Unit    | Product/A  |            |            | Cost \$/A |       |       |
|--|-----------|------------------|---|---------------------|------------|------------|------------|------------|-----------|-------|-------|
|  |           |                  |   |                     |            | Low        | Med        | High       | Low       | Med   | High  |
| Dimetric <sup>5</sup>                        | Winfield  | Sencor           | metribuzin                              | 3F                  | 89.00 gal  | 0.5 pt     | 0.67 pt    | 1 pt       | 5.60      | 7.50  | 11.10 |
| Discover NG <sup>1</sup>                     | Syngenta  | -                | clodinafop & oil adjuvant               | 0.5EC               | 141.00 gal | 12.8 fl oz | 14.5 fl oz | 16 fl oz   | 14.10     | 16.00 | 17.60 |
| Diquat <sup>22</sup>                         | Nufarm    | Reglone          | diquat-dibromide salt                   | 2SL                 | 48.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.00      | 9.00  | 12.00 |
| Diuron <sup>7</sup>                          | Several   | -                | diuron                                  | 80WDG               | 22.50 lb   | 0.75 lb    | 2 lb       | 6 lb       | 3.10      | 8.30  | 24.90 |
| Dog Fight <sup>2,9</sup>                     | Loveland  | Extreme          | imazethapyr-acid & glyt-ipa salt        | 0.17 + 2SL          | 26.00 gal  | 1.5 pt     | 2.25 pt    | 3 pt       | 4.90      | 7.30  | 9.80  |
| Double Header <sup>15,27</sup>               | Loveland  | -                | acetochlor & mesotrione                 | 3.2 + 0.38          | 52.00 gal  | 1.7 qt     | 2 qt       | 2.4 qt     | 22.10     | 26.00 | 31.20 |
| Draft <sup>2,2</sup>                         | Rotam     | Harm Extr        | thifensulfuron & tribenuron             | 50 + 25DF           | 17.00 oz   | 0.3 oz     | -          | 0.3 oz     | 5.10      | -     | 5.10  |
| Dual Magnum <sup>15</sup>                    | Syngenta  | -                | S-metolachlor                           | 7.62EC              | 89.50 gal  | 1.33 pt    | 1.67 pt    | 2 pt       | 14.90     | 18.70 | 22.40 |
| Dual II Magnum <sup>15</sup>                 | Syngenta  | -                | S-metolachlor & benoxacor safen         | 7.64EC              | 111.50 gal | 1.33 pt    | 1.67 pt    | 2 pt       | 18.50     | 23.30 | 27.90 |
| Duramax <sup>9</sup>                         | Corteva   | Rodeo            | glyphosate-dma salt                     | 4SL                 | 30.00 gal  | 24 fl oz   | 36 fl oz   | 48 fl oz   | 5.60      | 8.40  | 11.30 |
| Durango DMA <sup>9</sup>                     | Corteva   | Roundup          | glyphosate-dma salt                     | 4SL                 | 20.00 gal  | 24 fl oz   | 36 fl oz   | 48 fl oz   | 3.80      | 5.60  | 7.50  |
| Elevore <sup>4</sup>                         | Corteva   | -                | halauxifen-methyl                       | 0.572 EC            | 892.00 gal | 1 fl oz    | -          | 1 fl oz    | 7.00      | -     | 7.00  |
| Encompass <sup>14</sup>                      | Tenkoz    | Valor            | flumioxazin                             | 51WDG               | 6.00 oz    | 2 oz       | 2.5 oz     | 3 oz       | 12.00     | 15.00 | 18.00 |
| Engenia <sup>4</sup>                         | BASF      | -                | dicamba-BAPMA salt                      | 5SL                 | 104.00 gal | 12.8 fl oz | 19.2 fl oz | 25.6 fl oz | 10.40     | 15.60 | 20.80 |
| Enlist Duo <sup>4,9</sup>                    | Corteva   | -                | glyphosate-dma & 2,4-D-choline          | 1.7 + 1.6SL         | 29.00 gal  | 3.5 pt     | 4 pt       | 4.75 pt    | 12.70     | 14.50 | 17.20 |
| Enlist One <sup>4</sup>                      | Corteva   | -                | 2,4-D-choline                           | 3.8SL               | 43.50 gal  | 1 pt       | 1.5 pt     | 2 pt       | 5.40      | 8.20  | 10.90 |
| Eptam <sup>8</sup>                           | Gowan     | -                | EPTC                                    | 7EC                 | 56.00 gal  | 2.3 pt     | 4 pt       | 6.75 pt    | 16.10     | 28.00 | 47.30 |
| Escort XP <sup>2</sup>                       | Bayer     | Ally             | metsulfuron-methyl                      | 60XP                | 7.00 oz    | 0.33 oz    | 1 oz       | 2 oz       | 2.30      | 7.00  | 14.00 |
| Establish <sup>15</sup>                      | Tenkoz    | Outlook          | dimethenamid                            | 6EC                 | 180.00 gal | 16 fl oz   | 18 fl oz   | 21 fl oz   | 22.50     | 25.30 | 29.50 |
| Ethofumesate <sup>16</sup>                   | GCS       | Nortron          | ethofumesate                            | 4SC                 | 70.00 gal  | 6 pt       | 7 pt       | 7.5 pt     | 52.50     | 61.30 | 65.60 |
| Ethotron <sup>16</sup>                       | UPL       | Nortron          | ethofumesate                            | 4EC                 | 80.00 gal  | 6 pt       | 7 pt       | 7.5 pt     | 60.00     | 70.00 | 75.00 |
| Everest 3.0 <sup>2</sup>                     | UPL       | -                | flucarbazone-Na salt & safener          | 1.75OD              | 7.00 fl oz | 1.5 fl oz  | -          | 2 fl oz    | 10.50     | -     | 14.00 |
| EverpreX <sup>15</sup>                       | Corteva   | -                | S-metolachlor                           | 7.62 EC             | 74.50 gal  | 1.33 pt    | 1.67 pt    | 2 pt       | 12.40     | 15.60 | 18.60 |
| Express SG <sup>2</sup>                      | FMC       | -                | tribenuron-methyl                       | 50SG                | 12.65 oz   | 1/4 oz     | 1/3 oz     | 1/2 oz     | 3.20      | 4.20  | 6.30  |
| Extra Credit 5 <sup>9</sup>                  | Nufarm    | Roundup          | glyphosate-ipa salt                     | 3.75SL              | 28.00 gal  | 1.6 pt     | 2.4 pt     | 3.2 pt     | 5.60      | 8.40  | 11.20 |
| Extreme <sup>2,9</sup>                       | BASF      | -                | imazethapyr-acid & glyt-ipa salt        | 0.17 + 2SL          | 26.50 gal  | 1.5 pt     | 2.25 pt    | 3 pt       | 5.00      | 7.50  | 9.90  |
| Fallow Star <sup>9,4</sup>                   | Albaugh   | Fallow Mst       | glyt-ipa & dicamba-ipa salt             | 1.1 + 0.5SL         | 19.00 gal  | 22 fl oz   | 32 fl oz   | 44 fl oz   | 3.30      | 4.80  | 6.50  |
| Far-Go EC <sup>8</sup>                       | Gowan     | -                | triallate                               | 4EC                 | 55.00 gal  | 1 qt       | 1.25 qt    | 1.5 qt     | 13.80     | 17.20 | 20.60 |
| Facet L <sup>4,26</sup>                      | BASF      | -                | quinclorac                              | 1.5L                | 99.50 gal  | 22 fl oz   | 32 fl oz   | 64 fl oz   | 17.10     | 24.90 | 49.80 |
| FeXapan <sup>4</sup>                         | Corteva   | XtendiMax        | dicamba-dga salt + VaporGrip            | 2.9SL               | 58.00 gal  | 22 fl oz   | 33 fl oz   | 44 fl oz   | 10.00     | 15.00 | 19.90 |
| Fierce <sup>14,15</sup>                      | Valent    | -                | flumioxazin + pyroxasulfone             | 33.5 + 42.5WDG      | 6.43 oz    | 3 oz       | 3.33 oz    | 3.75 oz    | 19.30     | 21.40 | 24.10 |
| Fierce MTZ <sup>5,14,15</sup>                | Valent    | -                | flumioxazin&pyroxasulfone+metri         | 0.5+0.64+1.5 SC     | 220.00 gal | 1 pt       | 1.25 pt    | 1.5 pt     | 27.50     | 34.40 | 41.30 |
| Firestorm <sup>22</sup>                      | UPL       | Paraquat         | paraquat-dichloride                     | 3SL                 | 35.00 gal  | 2 pt       | 3 pt       | 4 pt       | 8.80      | 13.10 | 17.50 |
| FirstRate <sup>2</sup>                       | Corteva   | -                | cloransulam-methyl                      | 84WDG               | 41.50 oz   | 0.3 oz     | 0.6 oz     | 0.75       | 12.50     | 24.90 | 31.10 |
| Flexstar <sup>14</sup>                       | Syngenta  | -                | fomesafen-Na salt & adjuvants           | 1.88EC              | 58.50 gal  | 0.5 pt     | -          | 0.75 pt    | 3.70      | -     | 5.50  |
| Flexstar GT 3.5 <sup>14,9</sup>              | Syngenta  | -                | fomesafen & glyt & adjuvants            | 0.56 + 2.26SL       | 36.00 gal  | 1.75 pt    | -          | 2.68 pt    | 7.90      | -     | 12.10 |
| Foma 1.88 <sup>14</sup>                      | Drexel    | Flexstar         | fomesafen-Na salt & adjuvants           | 1.88EC              | 33.00 gal  | 0.5 pt     | -          | 0.75 pt    | 2.10      | -     | 3.10  |
| Foma 2.0 <sup>14</sup>                       | Drexel    | Reflex           | fomesafen-Na salt                       | 2EC                 | 45.00 gal  | 0.5 pt     | -          | 0.75 pt    | 2.80      | -     | 4.20  |
| FomAsate <sup>14,9</sup>                     | Drexel    | Flexstr GT       | fomesafen & glyt & adjuvants            | 0.56 + 2.26SL       | 25.00 gal  | 1.75 pt    | -          | 2.68 pt    | 5.50      | -     | 8.40  |
| Fomesafen1.88 <sup>14</sup>                  | Willowood | Flexstar         | fomesafen-Na salt & adjuvants           | 1.88EC              | 39.00 gal  | 0.5 pt     | -          | 0.75 pt    | 2.40      | 0.00  | 3.70  |
| Forefront HL <sup>4,4</sup>                  | Corteva   | -                | aminopyralid-3ipNH <sub>4</sub> & 2,4-D | 0.41 + 3.33EC       | 62.50 gal  | 1.2 pt     | 1.5 pt     | 2.1 pt     | 9.40      | 11.70 | 16.40 |
| Framework <sup>3</sup>                       | Winfield  | Prowl            | pendimethalin                           | 3.3EC               | 33.00 gal  | 2.4 pt     | 3 pt       | 3.64 pt    | 9.90      | 12.40 | 15.00 |
| Frequency <sup>27</sup>                      | BASF      | Impact           | topramezone                             | 2.8SC               | 860.00 gal | 1 oz       | 2 oz       | 4 oz       | 6.70      | 13.40 | 26.90 |
| Full Deck <sup>4,4,4</sup>                   | Helena    | -                | MCPA & fluroxypyr & clopyralid          | 2.48+ 0.66 + 0.57SL | 95.00 gal  | 1 pt       | 1.25 pt    | 1.5 pt     | 11.90     | 14.80 | 17.80 |

| Product                           | Site of action-pg 100-101 | Company   | Brand equivalent | Active ingredients               | Formulation         | \$/Unit    | Product/A  |            |            | Cost \$/A |       |        |
|-----------------------------------|---------------------------|-----------|------------------|----------------------------------|---------------------|------------|------------|------------|------------|-----------|-------|--------|
|                                   |                           |           |                  |                                  |                     |            | Low        | Med        | High       | Low       | Med   | High   |
| FulTime NXT <sup>15,5</sup>       |                           | Corteva   | -                | acetochlor & atrazine            | 2.4 ME + 1.6L       | 42.00 gal  | 2.5 qt     | 2.7 qt     | 3 qt       | 26.30     | 28.40 | 31.50  |
| Fusilade DX <sup>1</sup>          |                           | Syngenta  | -                | fluazifop-P butyl                | 2EC                 | 122.00 gal | 6 fl oz    | 10 fl oz   | 12 fl oz   | 5.70      | 9.50  | 11.40  |
| Garlon 4 Ultra <sup>4</sup>       |                           | Corteva   | -                | triclopyr-ester                  | 4EC                 | 103.00 gal | 1 qt       | 2 qt       | 4 qt       | 25.80     | 51.50 | 103.00 |
| Glorv <sup>5</sup>                |                           | ADAMA     | Sencor           | metribuzin                       | 75DF                | 14.25 lb   | 0.25 lb    | 0.33 lb    | 0.5 lb     | 3.60      | 4.70  | 7.10   |
| Glyphogan/Plus <sup>9</sup>       |                           | ADAMA     | Roundup          | glyphosate-ipa salt              | 3SL                 | 18.00 gal  | 2 pt       | 3 pt       | 4 pt       | 4.50      | 6.80  | 9.00   |
| GlyStar 5Extra <sup>9</sup>       |                           | Albaugh   | Rodeo            | glyphosate-ipa salt              | 4SL                 | 25.00 gal  | 24 fl oz   | 36 fl oz   | 48 fl oz   | 4.70      | 7.00  | 9.40   |
| GlyStar Gold <sup>9</sup>         |                           | Albaugh   | Roundup          | glyphosate-ipa salt              | 3SL                 | 18.00 gal  | 2 pt       | 3 pt       | 4 pt       | 4.50      | 6.80  | 9.00   |
| GlyStar Original <sup>9</sup>     |                           | Albaugh   | Roundup          | glyphosate-ipa salt              | 3SL                 | 18.00 gal  | 2 pt       | 3 pt       | 4 pt       | 4.50      | 6.80  | 9.00   |
| GlyStar Plus <sup>9</sup>         |                           | Albaugh   | Roundup          | glyphosate-ipa salt              | 3SL                 | 15.00 gal  | 2 pt       | 3 pt       | 4 pt       | 3.80      | 5.60  | 7.50   |
| Goal <sup>14</sup>                |                           | Corteva   | Collide          | oxyfluorfen                      | 2EC                 | 62.50 gal  | 4 pt       | 6 pt       | 8 pt       | 31.30     | 46.90 | 62.50  |
| GoldSky <sup>2,2,4</sup>          |                           | Corteva   | -                | pyroxsulam&florasulam&flurox     | 0.11+0.018+0.71OD   | 145.00 gal | 1 pt       | -          | 1 pt       | 18.10     | -     | 18.10  |
| Gramoxone SL 3.0 <sup>22</sup>    |                           | Syngenta  | Paraquat         | paraquat-dichloride              | 3SL                 | 31.50 gal  | 1.3 pt     | 2 pt       | 2.7 pt     | 5.10      | 7.90  | 10.60  |
| Graslan L <sup>4,4</sup>          |                           | Corteva   | Grazon           | picloram-3ipa & 2,4-D-choline    | 0.81 + 3SL          | 38.00 gal  | 1.5 pt     | 2 pt       | 2.5 pt     | 7.10      | 9.50  | 11.90  |
| GrazonNext <sup>4,4</sup>         |                           | Corteva   | -                | aminopyralid-3ipa + 2,4-D-3ipa   | 0.33 + 2.67SL       | 56.25 gal  | 1.5 pt     | 2 pt       | 2.6 pt     | 10.50     | 14.10 | 18.30  |
| Grazon P+D <sup>4,4</sup>         |                           | Corteva   | Graslan          | picloram-3ipa & 2,4-D-3ipa       | 0.54 + 2SL          | 35.50 gal  | 2 qt       | 3 qt       | 4 qt       | 17.80     | 26.60 | 35.50  |
| GunSlinger <sup>4,4</sup>         |                           | Albaugh   | Grazon           | picloram-3ipamine&2,4-D-3ipa     | 0.54 + 2 S          | 35.00 gal  | 2 qt       | 3 qt       | 4 qt       | 17.50     | 26.30 | 35.00  |
| Habitat <sup>2</sup>              |                           | BASF      | Arsenal          | imazapyr-ipa salt                | 2SL                 | 130.00 gal | 1 qt       | 2 qt       | 3 qt       | 32.50     | 65.00 | 97.50  |
| Halex GT <sup>27,9,15</sup>       |                           | Syngenta  | -                | mesotrione & glyt-K & S-meto     | 4.39 SC (1:10:10)   | 52.00 gal  | 3 pt       | 3.6 pt     | 4 pt       | 19.50     | 23.40 | 26.00  |
| Halomax <sup>2</sup>              |                           | Aceto     | Permit           | halosulfuron-methyl              | 75DF                | 22.00 oz   | 0.67 oz    | 1 oz       | 1.33 oz    | 14.70     | 22.00 | 29.30  |
| Harmony SG <sup>2</sup>           |                           | FMC       | -                | thifensulfuron-methyl            | 50SG                | 31.00 oz   | 0.3 oz     | 0.45 oz    | 0.7 oz     | 9.30      | 14.00 | 21.70  |
| Harness <sup>15</sup>             |                           | Bayer     | -                | acetochlor & furilazole safener  | 7EC                 | 70.50 gal  | 1.25 pt    | 1.75 pt    | 2.25 pt    | 11.00     | 15.40 | 19.80  |
| Harness Max <sup>15</sup>         |                           | Bayer     | -                | acet & meso & furilazole safener | 3.52 + 0.33EC       | 57.00 gal  | 40 fl oz   | 55 fl oz   | 88 fl oz   | 17.80     | 24.50 | 39.20  |
| Harness Xtra <sup>15,5</sup>      |                           | Bayer     | -                | acet & furilazole & atrazine     | 4.3 + 1.7F          | 48.00 gal  | 1.2 qt     | 1.5 qt     | 1.8 qt     | 14.40     | 18.00 | 21.60  |
| Harness Xtra 5.6L <sup>15,5</sup> |                           | Bayer     | -                | acet & furilazole & atrazine     | 3.1 + 2.5F          | 48.00 gal  | 1.5 qt     | 1.7 qt     | 2.3 qt     | 18.00     | 20.40 | 27.60  |
| Hat Trick <sup>4,4,4</sup>        |                           | Loveland  | -                | clop-mea&fluroxy-mhe&MCPAe       | 0.51 + 0.51 + 1.8EC | 52.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 6.50      | 9.80  | 13.00  |
| Helmquat <sup>22</sup>            |                           | Helm Agro | Gramoxon         | paraquat-dichloride              | 3SL                 | 26.50 gal  | 0.67 pt    | 1 pt       | 1.33 pt    | 2.20      | 3.30  | 4.40   |
| Herbivore <sup>2</sup>            |                           | Winfield  | Permit           | halosulfuron-methyl              | 75DF                | 17.00 oz   | 0.67 oz    | 1 oz       | 1.33 oz    | 11.40     | 17.00 | 22.60  |
| Hornet <sup>2,4</sup>             |                           | Corteva   | -                | flumetsulam & clopyralid-K salt  | 18.5 + 60WDG        | 4.50 oz    | 2 oz       | 3 oz       | 4 oz       | 9.00      | 13.50 | 18.00  |
| Huskie <sup>6,27</sup>            |                           | Bayer     | -                | brom & pyrasulfotole & mefenpyr  | 1.75 + 0.31EC       | 99.00 gal  | 11 fl oz   | 12.8 fl oz | 13.7 fl oz | 8.50      | 9.90  | 10.60  |
| Huskie Complete <sup>6,27,2</sup> |                           | Bayer     | -                | brom&pyrasulf&thiencarb&mfnp     | 1.46+0.26+0.042OD   | 171.00 gal | 13.7 fl oz | -          | 13.7 fl oz | 18.30     | -     | 18.30  |
| Hydrothol 191                     |                           | UPL       | Herb. 273        | endothall                        | 2G                  | 4.50 lb    | -          | -          | -          | -         | -     | -      |
| Hyvar X                           |                           | Bayer     | -                | bromacil                         | 80WP                | 98.00 lb   | 3 lb       | 7 lb       | 15 lb      | 66        | 154   | 330    |
| Impact <sup>27</sup>              |                           | AMVAC     | Armezon          | topramezone                      | 2.8SC               | 17.50fl oz | 0.33 fl oz | 0.5 fl oz  | 0.75 fl oz | 5.80      | 8.80  | 13.10  |
| ImpactZ <sup>5,27</sup>           |                           | AMVAC     | -                | topramezone & atrazine           | 0.26 & 4SC          | 150.00 gal | 8 fl oz    | -          | 10.7 fl oz | 9.40      | -     | 12.50  |
| Impose <sup>2</sup>               |                           | ADAMA     | Plateau          | imazapic-NH <sub>4</sub> salt    | 2SL                 | 1.78 fl oz | 4 fl oz    | 8 fl oz    | 12 fl oz   | 7.10      | 14.20 | 21.40  |
| Incinerate <sup>27</sup>          |                           | Winfield  | Callisto         | mesotrione                       | 4SE                 | 139.00 gal | 2 fl oz    | 2.5 fl oz  | 3 fl oz    | 2.20      | 2.70  | 3.30   |
| Instigate <sup>2,27</sup>         |                           | Corteva   | Realm Q          | rimsulfuron & mesotrione         | 4.17 + 41.67WDG     | 3.15 oz    | 5.25 oz    | -          | 7 oz       | 16.50     | -     | 22.10  |
| Intensity <sup>1</sup>            |                           | Loveland  | Select           | clethodim                        | 2EC                 | 60.00 gal  | 4 fl oz    | 6 fl oz    | 8 fl oz    | 1.90      | 2.80  | 3.80   |
| Intensity One <sup>1</sup>        |                           | Loveland  | Select Max       | clethodim                        | 1EC                 | 91.00 gal  | 6 fl oz    | 8 fl oz    | 12 fl oz   | 4.30      | 5.70  | 8.50   |
| Interline <sup>10</sup>           |                           | UPL       | Liberty          | glufosinate-NH <sub>4</sub> salt | 2.34SL              | 81.25 gal  | 22 fl oz   | 29 fl oz   | 36 fl oz   | 14.00     | 18.40 | 22.90  |
| Karmex <sup>7</sup>               |                           | ADAMA     | Diuron           | diuron                           | 80XP                | 4.80 lb    | 2 lb       | 6 lb       | 8 lb       | 9.60      | 28.80 | 38.40  |
| Keystone LA NXT <sup>15,5</sup>   |                           | Corteva   | Harness          | acetochlor & atrazine            | 4 + 1.5L            | 53.00 gal  | 1.33 qt    | 1.5 qt     | 1.8 qt     | 17.60     | 19.90 | 23.90  |
| Kochiavore <sup>6,4</sup>         |                           | Winfield  | -                | 2,4-De&bromox-e&fluroxypyr-e     | 1.67&1.67&0.67EC    | 60.00 gal  | 1 pt       | -          | 1.5 pt     | 7.50      | -     | 11.30  |

| Product                         | Site of action-pg 100-101 | Company  | Brand equivalent | Active ingredients                   | Formulation          | \$/Unit     | Product/A            |           |          | Cost \$/A |       |       |
|---------------------------------|---------------------------|----------|------------------|--------------------------------------|----------------------|-------------|----------------------|-----------|----------|-----------|-------|-------|
|                                 |                           |          |                  |                                      |                      |             | Low                  | Med       | High     | Low       | Med   | High  |
| Krovax I <sup>6,7</sup>         |                           | Bayer    | -                | bromacil & diuron                    | 40 + 40DF            | 11.50 lb    | 6 lb                 | 12 lb     | 16 lb    | 69        | 138   | 184   |
| Landmaster BW <sup>9,4</sup>    |                           | Albaugh  | -                | glyphosate-ipa & 2,4-D-ipa salt      | 0.9 + 1.5SL          | 16.00 gal   | 27 fl oz             | 40 fl oz  | 54 fl oz | 3.40      | 5.00  | 6.80  |
| Latigo <sup>4,4</sup>           |                           | Helena   | Weedmstr         | dicamba-acid & 2,4-D-acid            | 1.8 + 2.4 SL         | 74.00 gal   | 0.33 pt              | 0.67 pt   | 1 pt     | 3.10      | 6.20  | 9.30  |
| Latir <sup>2,14</sup>           |                           | ADAMA    | -                | flumioxazin & imazethapyr            | 31.5 + 23.5WDG       |             | 3.2 oz               | 3.8 oz    | 4.25 oz  | -         | -     | -     |
| Laudis <sup>27</sup>            |                           | Bayer    | -                | tembotrione & isoxadifen safener     | 3.5 + 1.75SC         | 3.70 fl oz  | 3 fl oz              | -         | 3 fl oz  | 11.10     | -     | 11.10 |
| Liberty 280 <sup>10</sup>       |                           | BASF     | -                | glufosinate-NH <sub>4</sub> salt     | 2.34SL               | 49.50 gal   | 29 fl oz             | 32 fl oz  | 43 fl oz | 11.20     | 12.40 | 16.60 |
| Linex <sup>7</sup>              |                           | TKI      | -                | linuron                              | 4L                   | 90.00 gal   | 8 fl oz              | 12 fl oz  | 16 fl oz | 5.60      | 8.40  | 11.30 |
| Lorox <sup>7</sup>              |                           | TKI      | -                | linuron                              | 50DF                 | 25.00 lb    | 1 lb                 | 2 lb      | 3 lb     | 25.00     | 50.00 | 75.00 |
| Lumax EZ <sup>5,27,15</sup>     |                           | Syngenta | -                | atrazine & mesotrione & S-metol      | 0.94 + 0.25 + 2.5SE  | 61.00 gal   | 3 pt                 | 4 pt      | 5 pt     | 22.90     | 30.50 | 38.10 |
| Mad Dog/Plus <sup>9</sup>       |                           | Loveland | Roundup          | glyphosate-ipa salt                  | 3SL                  | 13.00 gal   | 2 pt                 | 3 pt      | 4 pt     | 3.30      | 4.90  | 6.50  |
| Maestro 2EC <sup>6</sup>        |                           | Nufarm   | Buctril          | bromoxynil-ester                     | 2EC                  | 44.00 gal   | 1 pt                 | 1.5 pt    | 2 pt     | 5.50      | 8.30  | 11.00 |
| Maestro 4EC <sup>6</sup>        |                           | Nufarm   | Buctril          | bromoxynil-ester                     | 4EC                  | 80.00 gal   | 0.5 pt               | 0.75 pt   | 1 pt     | 5.00      | 7.50  | 10.00 |
| Maestro Adv. <sup>6,4</sup>     |                           | Nufarm   | Bron. Adv.       | bromoxynil-ester & MCPA-ester        | 2.5 + 2.5EC          | 60.00 gal   | 0.8 pt               | 1.2 pt    | 1.6 pt   | 6.00      | 9.00  | 12.00 |
| Maestro D <sup>6,4</sup>        |                           | Nufarm   | -                | bromoxynil-ester & 2,4-D-ester       | 2 + 1.9EC            | 50.00 gal   | 0.75 pt              | 1.33 pt   | 2 pt     | 4.70      | 8.30  | 12.50 |
| Maestro MA <sup>6,4</sup>       |                           | Nufarm   | Bronate          | bromoxynil-ester & MCPA-ester        | 2 + 2EC              | 48.00 gal   | 1 pt                 | 1.5 pt    | 2 pt     | 6.00      | 9.00  | 12.00 |
| Makaze <sup>9</sup>             |                           | Loveland | Roundup          | glyphosate-ipa salt                  | 3SL                  | 16.00 gal   | 2 pt                 | 3 pt      | 4 pt     | 4.00      | 6.00  | 8.00  |
| Makaze Yield Pro <sup>9</sup>   |                           | Loveland | -                | glyphosate-ipa salt+IBA+cytokinin    | 3+0.005+0.0009SL     | 28.00 gal   | 2 pt                 | 3 pt      | 4 pt     | 7.00      | 10.50 | 14.00 |
| Marvel <sup>14,14</sup>         |                           | FMC      | -                | fomesafen & fluthiacet               | 2.88 + 0.12SC        | 170.50 gal  | 5 fl oz              | 6 fl oz   | 7 fl oz  | 6.70      | 8.00  | 9.30  |
| Matador <sup>15,5,2</sup>       |                           | Loveland | -                | metochlr & metrib & imazethapyr      | 4 + 0.56 + 0.13SL    | 50.00 gal   | 2 pt                 | 3 pt      | 4 pt     | 12.50     | 18.80 | 25.00 |
| Matador S <sup>15,5,2</sup>     |                           | Loveland | -                | metochlr & metrib & imazethapyr      | 3.38 + 0.75 + 0.17SL | 60.00 gal   | 1.9 pt               | -         | 2.4 pt   | 14.30     | -     | 18.00 |
| Matrix <sup>2</sup>             |                           | Corteva  | -                | rimsulfuron                          | 25DF                 | 13.39 oz    | 1 oz                 | -         | 1.5 oz   | 13.40     | -     | 20.10 |
| Mauler <sup>5</sup>             |                           | Valent   | Sencor           | metribuzin                           | 4F                   | 130.50 gal  | 6 fl oz              | 9 fl oz   | 12 fl oz | 6.10      | 9.20  | 12.20 |
| MCPA amine <sup>4</sup>         |                           | Severl   | -                | MCPA-amine                           | 4SL                  | 23.17 gal   | 0.4 pt               | 1 pt      | 2 pt     | 1.20      | 2.90  | 5.80  |
| MCPA ester <sup>4</sup>         |                           | Severl   | -                | MCPA-ester                           | 4EC                  | 24.00 gal   | 0.5 pt               | 1 pt      | 2 pt     | 1.50      | 3.00  | 6.00  |
| Mes-O-sate <sup>27,9,15</sup>   |                           | Drexel   | Halex GT         | mesotrione & glyt-K & S-meto         | 4.39 SC (1:10:10)    | 40.00 gal   | 3.6 pt               | -         | 4 pt     | 18.00     | -     | 20.00 |
| MesoTryOne <sup>27</sup>        |                           | Drexel   | Callisto         | mesotrione                           | 4SE                  | 160.00 gal  | 2 fl oz              | 2.5 fl oz | 3 fl oz  | 2.50      | 3.10  | 3.80  |
| Me-Too-Lachlor <sup>15</sup>    |                           | Drexel   | Dual Mag.        | metolachlor                          | 8EC                  | 40.00 gal   | 1.33 pt              | 1.67 pt   | 2 pt     | 6.70      | 8.40  | 10.00 |
| Me-Too-Lachlor II <sup>15</sup> |                           | Drexel   | Dual II M        | metolachlor & benoxacor safen        | 7.8EC                | 40.00 gal   | 1.33 pt              | 1.67 pt   | 2 pt     | 6.70      | 8.40  | 10.00 |
| Method <sup>4</sup>             |                           | Bayer    | -                | aminocyclopyrachlor-K                | 2SL                  | 4.75 fl oz  | 4 fl oz              | 8 fl oz   | 12 fl oz | 19.00     | 38.00 | 57.00 |
| Metribuzin <sup>5</sup>         |                           | ADAMA    | Sencor           | metribuzin                           | 75DF                 | 22.50 lb    | 0.25 lb              | 0.33 lb   | 0.5 lb   | 5.60      | 7.40  | 11.30 |
| Milestone / VM <sup>4</sup>     |                           | Corteva  | -                | aminopyralid-3ipNH <sub>4</sub> salt | 2SL                  | 331.5 0gal  | 3 fl oz              | 5 fl oz   | 7 fl oz  | 7.80      | 12.90 | 18.10 |
| Moxy <sup>6</sup>               |                           | Winfield | Buctril          | bromoxynil-ester                     | 2EC                  | 56.00 gal   | 1 pt                 | 1.5 pt    | 2 pt     | 7.00      | 10.50 | 14.00 |
| NextStep NG <sup>1</sup>        |                           | UPL      | Discover         | clodinafop & oil adjuvant            | 0.5EC                | 156.00 gal  | 12.8 floz            | 14.5 floz | 16 fl oz | 15.60     | 17.70 | 19.50 |
| Nimble <sup>2,2</sup>           |                           | FMC      | Harm Extr        | thifensulfuron & tribenuron 2:1      | 50 + 25DF            | 6.50 oz     | 0.15 oz              | 0.3 oz    | 0.6 oz   | 1.00      | 2.00  | 3.90  |
| Nortron SC <sup>16</sup>        |                           | Bayer    | -                | ethofumesate                         | 4EC                  | 90.00 gal   | 6 pt                 | 7 pt      | 7.5 pt   | 67.50     | 78.80 | 84.40 |
| Olympus <sup>2</sup>            |                           | Bayer    | -                | propoxycarbazone-Na salt             | 70WDG                | 13.75 oz    | 0.4 oz               | 0.5 oz    | 0.6 oz   | 5.50      | 6.90  | 8.30  |
| OpenSky <sup>2,4</sup>          |                           | Corteva  | -                | pyroxulam&fluroxypyr                 | 0.107+0.95SE         | 135.50 gal  | 1 pt                 | -         | 1.25 pt  | 16.90     | -     | 21.20 |
| Orion <sup>2,4</sup>            |                           | Syngenta | -                | florasulam & MCPA-ehe                | 0.033 + 2.34EC       | 348.00 case | 17 fl oz - 40 A/case |           |          | 8.70      |       |       |
| Osprey <sup>2</sup>             |                           | Bayer    | Silverado        | mesosulfuron-methyl                  | 4.5WDG               | 3.40 oz     | 3.2 oz               | 4 oz      | 4.75 oz  | 10.90     | 13.60 | 16.20 |
| Oust XP <sup>2</sup>            |                           | Bayer    | -                | sulfometuron-methyl                  | 75XP                 | 7.00 oz     | 2 oz                 | 6 oz      | 8 oz     | 14.00     | 42.00 | 56.00 |
| Oust Extra <sup>2,2</sup>       |                           | Bayer    | -                | sulfometuron & metsulfuron           | 56.25 + 15DF         | 6.00 oz     | 3 oz                 | 4 oz      | 5 oz     | 18.00     | 24.00 | 30.00 |
| Outflank <sup>14</sup>          |                           | ADAMA    | Valor            | flumioxazin                          | 51WDG                | 6.00 oz     | 1.5 oz               | 2 oz      | 3 oz     | 9.00      | 12.00 | 18.00 |
| Outlaw <sup>4,4</sup>           |                           | Helena   | Weedmstr         | 2,4-D-ehe & dicamba-acid             | 1.45 + 1.09SL        | 55.00 gal   | 1.5 pt               | 1.75 pt   | 2.75 pt  | 10.30     | 12.00 | 18.90 |
| Outlook <sup>15</sup>           |                           | BASF     | -                | dimethenamid-P                       | 6EC                  | 131.00 gal  | 10 fl oz             | 14 fl oz  | 18 fl oz | 10.20     | 14.30 | 18.40 |

| Product <sup>Site of action-pg 100-101</sup> | Company      | Brand equivalent | Active ingredients               | Formulation       | \$/Unit    | Product/A |           |            | Cost \$/A |       |       |
|--|--------------|------------------|----------------------------------|-------------------|------------|-----------|-----------|------------|-----------|-------|-------|
|  |              |                  |                                  |                   |            | Low       | Med       | High       | Low       | Med   | High  |
| Outrider <sup>2</sup>                        | Valent       | Maverick         | sulfosulfuron                    | 75DF              | 15.70 oz   | 0.33 oz   | 0.50 oz   | 0.67 oz    | 5.20      | 7.90  | 10.50 |
| Overdrive <sup>4,19</sup>                    | BASF         | Distinct         | dicamba-Na & diflufenzopyr-Na    | 50 + 20WDG        | 2.80 oz    | 4 oz      | 6 oz      | 8 oz       | 11.20     | 16.80 | 22.40 |
| Palace <sup>15,27</sup>                      | Tenkoz       | Zemax            | S-metolachlor & mesotrione       | 3.34 + 0.33SC     | 52.50 gal  | 1.6 qt    | 2 qt      | 2.4 qt     | 21.00     | 26.30 | 31.50 |
| Panoflex <sup>2,2</sup>                      | Corteva      | -                | thifensulfuron & tribenuron 1:4  | 10 + 40SG         | 9.50 oz    | 0.3 oz    | 0.45 oz   | 0.6 oz     | 2.90      | 4.30  | 5.70  |
| Panther SC <sup>14</sup>                     | Nufarm       | Valor            | flumioxazin                      | 4SC               | 425.00 gal | 1.5 fl oz | 2 fl oz   | 3 fl oz    | 5.00      | 6.60  | 10.00 |
| Panther Pro <sup>2,5,14</sup>                | Nufarm       | -                | flumioxazin&metri&imazethapyr    | 0.67 + 3 + 0.56SC | 190.00 gal | 12 fl oz  | -         | 12 fl oz   | 17.80     | -     | 17.80 |
| Parallel <sup>15</sup>                       | ADAMA        | Dual II          | metolachlor & safener            | 7.8EC             | 41.00 gal  | 1.33 pt   | 1.67 pt   | 2 pt       | 6.80      | 8.60  | 10.30 |
| Parallel PCS <sup>15</sup>                   | ADAMA        | Dual             | metolachlor                      | 8EC               | 27.50 gal  | 1.33 pt   | 1.67 pt   | 2 pt       | 4.60      | 5.70  | 6.90  |
| Paraquat <sup>22</sup>                       | Willowood    | Gramoxon         | paraquat-dichloride              | 3SL               | 26.00 gal  | 0.67 pt   | 1 pt      | 1.33 pt    | 2.20      | 3.30  | 4.30  |
| Parazone <sup>22</sup>                       | AMVAC        | Gramoxon         | paraquat-dichloride              | 3SL               | 23.00 gal  | 0.67 pt   | 1 pt      | 1.33 pt    | 1.90      | 2.90  | 3.80  |
| Parity <sup>1</sup>                          | Tenkoz       | Puma             | fenoxaprop-P ethyl               | 1EC               | 170.00 gal | 0.33 pt   | 0.4 pt    | 0.67 pt    | 7.00      | 8.50  | 14.20 |
| Pathfinder II <sup>4</sup>                   | Corteva      | Garlon           | triclopyr-acid/bee               | 0.75EC            | 48.30 gal  | 2.7 gal   | 8 gal     | 10.7 gal   | 130       | 386   | 517   |
| Patriot <sup>2</sup>                         | Nufarm       | Escort           | metsulfuron-methyl               | 60DF              | 5.80 oz    | 0.33 oz   | 1 oz      | 2 oz       | 1.90      | 5.80  | 11.60 |
| Peak <sup>2</sup>                            | Syngenta     | -                | prosulfuron                      | 57DF              | 16.50 oz   | 0.25 oz   | 0.38 oz   | 0.5 oz     | 4.10      | 6.30  | 8.30  |
| PerfectMatch <sup>2,4,4</sup>                | Corteva      | -                | pyroxsulam & clopyr & fluroxypyr | 1.66SE            | 136.50 gal | 1 pt      | -         | 1 pt       | 17.10     | -     | 17.10 |
| Permit <sup>2</sup>                          | Gowan        | -                | halosulfuron-methyl              | 75DF              | 20.75 oz   | 0.67 oz   | 1 oz      | 1.33 oz    | 13.90     | 20.80 | 27.60 |
| Perspective <sup>4,2</sup>                   | Bayer        | -                | aminocyclopyrachlor+chlorsulf    | 39.5 + 15.8DF     | 6.80 oz    | 3 oz      | 4.75 oz   | 8 oz       | 20.40     | 32.30 | 54.40 |
| Phoenix <sup>14</sup>                        | Valent       | -                | lactofen & adjuvants             | 2EC               | 215.00 gal | 8 fl oz   | 10 fl oz  | 12.5 fl oz | 13.40     | 16.80 | 21.00 |
| Pin-Dee <sup>3</sup>                         | Drexel       | Prowl EC         | pendimethalin                    | 3.3EC             | 35.00 gal  | 2.4pt     | 3 pt      | 3.6 pt     | 10.50     | 13.10 | 15.80 |
| Pixxaro EC <sup>4,4</sup>                    | Corteva      | -                | Halauxifen-methyl + fluroxypyr   | 2.43 EC           | -          | -         | 6 fl oz   | -          | -         | -     | -     |
| Plateau <sup>2</sup>                         | BASF         | -                | imazapic-NH <sub>4</sub> salt    | 2SL               | 150.00 gal | 4 fl oz   | 8 fl oz   | 12 fl oz   | 4.70      | 9.40  | 14.10 |
| Plotter <sup>2</sup>                         | Rotam        | Ally             | metsulfuron-methyl (cropland)    | 60DF              | 5.80 oz    | 0.05 oz   | 0.1 oz    | 0.3 oz     | 0.30      | 0.60  | 1.70  |
| Poast <sup>1</sup>                           | BASF         | -                | sethoxydim                       | 1.5EC             | 101.00 gal | 0.5 pt    | 1 pt      | 1.5 pt     | 6.30      | 12.60 | 18.90 |
| Portfolio4F <sup>14</sup>                    | Wilbur-Ellis | Spartan          | sulfentrazone                    | 4L                | 555.00 gal | 3 fl oz   | 4.5 fl oz | 6 fl oz    | 13.00     | 19.50 | 26.00 |
| PowerFlex HL <sup>2</sup>                    | Corteva      | -                | pyroxsulam+cloquintocet safener  | 13.1WDG           | 6.55 oz    | 2 oz      | -         | 2 oz       | 13.10     | -     | 13.10 |
| Pramitol EC                                  | Severl       | -                | prometon                         | 25EC              | 38.50 gal  | 5 gal     | 7.5 gal   | 10 gal     | 193       | 289   | 385   |
| Pramitol 5S                                  | Severl       | -                | prometon                         | 5PS               | 3.03 lb    | 150 lb    | 200 lb    | 400 lb     | 454       | 605   | 1210  |
| Prefix <sup>15,14</sup>                      | Syngenta     | -                | S-metolachlor & fomesafen        | 4.34 + 0.95EC     | 54.00 gal  | 1 pt      | 1.5 pt    | 2 pt       | 6.80      | 10.10 | 13.50 |
| Pre-Pare <sup>2</sup>                        | UPL          | Everest          | flucarbazone-Na salt             | 70WDG             | 24.75 oz   | 0.3 oz    | -         | 0.3 oz     | 7.40      | -     | 7.40  |
| Prequel <sup>2,27</sup>                      | Corteva      | -                | rimsulfuron & isoxaflutole       | 15 + 30SG         | 7.90 oz    | 1.66 oz   | 2 oz      | 2.5 oz     | 13.10     | 15.80 | 19.80 |
| Presidual <sup>5,5</sup>                     | Winfield     | Boundary         | S-metolachlor & metribuzin       | 5.25 + 1.25L      | 71.00 gal  | 1.2 pt    | 1.6 pt    | 2.45 pt    | 10.70     | 14.20 | 21.70 |
| Primer <sup>2</sup>                          | Rotam        | Accent           | nicosulfuron                     | 75DF              | 10.00 oz   | 0.33 oz   | 0.5 oz    | 0.67 oz    | 3.30      | 5.00  | 6.70  |
| Princep 4L <sup>5</sup>                      | Syngenta     | -                | simazine                         | 4L                | 24.25 gal  | 2 qt      | 3 qt      | 4 qt       | 12.10     | 18.20 | 24.30 |
| Princep Caliber 90 <sup>5</sup>              | Syngenta     | -                | simazine                         | 90DF              | 5.18 lb    | 1.8 lb    | 3 lb      | 4.4 lb     | 9.30      | 15.50 | 22.80 |
| Prowl H2O <sup>3</sup>                       | BASF         | -                | pendimethalin                    | 3.8ACS            | 47.00 gal  | 2.1 pt    | 2.6 pt    | 3 pt       | 12.30     | 15.30 | 17.60 |
| Pruvin <sup>2</sup>                          | ADAMA        | Resolve          | rimsulfuron                      | 25SG              | 8.75 oz    | 0.75 oz   | -         | 1 oz       | 6.60      | -     | 8.80  |
| Purestand <sup>2</sup>                       | Nufarm       | Ally             | metsulfuron-methyl               | 60DF              | 5.75 oz    | 0.05 oz   | 0.1 oz    | 0.3 oz     | 0.30      | 0.60  | 1.70  |
| Pursuit <sup>2</sup>                         | BASF         | -                | imazethapyr-NH <sub>4</sub> salt | 2AS               | 430.00 gal | 2 fl oz   | 2.5 fl oz | 3 fl oz    | 6.70      | 8.40  | 10.10 |
| Python <sup>2</sup>                          | Corteva      | -                | flumetsulam                      | 80WDG             | 13.15 oz   | 0.8 oz    | 1 oz      | 1.33 oz    | 10.50     | 13.20 | 17.50 |
| Quelex <sup>4,2</sup>                        | Corteva      | -                | halauxifen & florasulam          | 0.1 + 0.1WDG      | 111.83 lb  | 0.75 oz   | -         | 0.75 oz    | 5.20      | -     | 5.20  |
| Quik-Quat <sup>22</sup>                      | Drexel       | Paraquat         | paraquat-dichloride              | 3SL               | 35.00 gal  | 0.67 pt   | 1 pt      | 1.33 pt    | 2.90      | 4.40  | 5.80  |
| Range Star <sup>4,4</sup>                    | Albaugh      | Weedmstrt        | 2,4-D-dea & dicamba-dea salt     | 2.87 + 1SL        | 29.50 gal  | 1 pt      | 2 pt      | 4 pt       | 3.70      | 7.40  | 14.80 |
| Rapport BrdSpec <sup>2,2</sup>               | Nufarm       | Affinity BS      | thifensulfuron & tribenuron 1:1  | 25 + 25DF         | 7.15 oz    | 0.4 oz    | 0.6 oz    | 1 oz       | 2.90      | 4.30  | 7.20  |
| Rapport TankMix <sup>2,2</sup>               | Nufarm       | Affinity TM      | thifensulfuron & tribenuron 4:1  | 40 + 10DF         | 6.65 oz    | 0.6 oz    | 0.75 oz   | 1 oz       | 4.00      | 5.00  | 6.70  |

| Product <sup>Site of action-pg 100-101</sup> | Company   | Brand equivalent | Active ingredients                    | Formulation        | \$/Unit     | Product/A |            |            | Cost \$/A |       |        |
|--|-----------|------------------|---------------------------------------|--------------------|-------------|-----------|------------|------------|-----------|-------|--------|
|  |           |                  |                                       |                    |             | Low       | Med        | High       | Low       | Med   | High   |
| Raptor <sup>2</sup>                          | BASF      | -                | imazamox-NH <sub>4</sub> salt         | 1SL                | 446.50 gal  | 3 fl oz   | 4 fl oz    | 5 fl oz    | 10.50     | 14.00 | 17.40  |
| Realm Q <sup>2,27</sup>                      | Corteva   | Instigate        | rimsulfuron & meso. & isoxadifen      | 7.5+31.25SG        | 4.33 oz     | 4 oz      | -          | 4 oz       | 17.30     | -     | 17.30  |
| Reflex <sup>14</sup>                         | Syngenta  | -                | fomesafen-Na salt                     | 2EC                | 53.50 gal   | 0.5 pt    | 0.75 pt    | 1 pt       | 3.30      | 5.00  | 6.70   |
| Reglone <sup>22</sup>                        | Syngenta  | -                | diquat-dibromide salt                 | 2SL                | 66.00 gal   | 1 pt      | 1.5 pt     | 2 pt       | 8.30      | 12.40 | 16.50  |
| Relegate <sup>4</sup>                        | Nufarm    | Remedy           | tricypr-ester                         | 4EC                | 55.00 gal   | 1 qt      | 1.5 qt     | 2 qt       | 13.80     | 20.60 | 27.50  |
| Rely 280 <sup>10</sup>                       | BASF      | Liberty          | glufosinate-NH <sub>4</sub> salt      | 2.34SL             | 75.00 gal   | 48 fl oz  | 56 fl oz   | 82 fl oz   | 28.10     | 32.80 | 48.00  |
| Remedy Ultra <sup>4</sup>                    | Corteva   | -                | tricypr-ester                         | 4EC                | 68.00 gal   | 1 qt      | 1.5 qt     | 2 qt       | 17.00     | 25.50 | 34.00  |
| Resicore <sup>4,15,27</sup>                  | Corteva   | -                | clopyralid & acetochlor & meso        | 0.19 + 2.8 + 0.3SC | 60.00 gal   | 2.25 qt   | 2.5 qt     | 3 qt       | 33.80     | 37.50 | 45.00  |
| Resolve Q <sup>2,2</sup>                     | Corteva   | Alluvex          | rimsulfuron & thifen & isoxadifen     | 18.4 + 4SG         | 8.43 oz     | 1 oz      | -          | 1.25 oz    | 8.40      | -     | 10.50  |
| Resource <sup>14</sup>                       | Valent    | -                | flumiclorac-ester                     | 0.86SL             | 209.50 gal  | 2 fl oz   | 4 fl oz    | 6 oz       | 3.30      | 6.50  | 9.80   |
| Revulin Q <sup>2,27</sup>                    | Corteva   | -                | nicosulfuron & meso. & isoxadifen     | 14.4 + 36.8SG      | 5.25 oz     | 3.4 oz    | 3.7 oz     | 4 oz       | 17.90     | 19.40 | 21.00  |
| Rifle <sup>4</sup>                           | Loveland  | Banvel           | dicamba-dma salt                      | 4SL                | 45.00 gal   | 4 fl oz   | 8 fl oz    | 16 fl oz   | 1.40      | 2.80  | 5.60   |
| Rifle D <sup>4,4</sup>                       | Loveland  | Weedmstr         | 2,4-D-dea & dicamba-dea salt          | 2.87 + 1SL         | 31.00 gal   | 0.5 pt    | 2 pt       | 4 pt       | 1.90      | 7.80  | 15.50  |
| Rimfire Max <sup>2,2</sup>                   | Bayer     | -                | propoxy-Na & meso & mefenpyr          | 4.76 + 1.91WDG     | 3.37 oz     | 3 oz      | -          | 3 oz       | 10.10     | -     | 10.10  |
| Ringside <sup>14</sup>                       | Tenkoz    | Reflex           | fomesafen-Na salt                     | 2EC                | 41.38 gal   | 0.5 pt    | 0.75 pt    | 1 pt       | 2.60      | 3.90  | 5.20   |
| Rodeo <sup>9</sup>                           | Corteva   | -                | glyphosate-ipa salt                   | 4SL                | 30.00 gal   | 24 fl oz  | 36 fl oz   | 48 fl oz   | 5.60      | 8.40  | 11.30  |
| Ro-Neet SB <sup>8</sup>                      | Helm Agro | -                | cycloate                              | 6EC                | 173.00 gal  | 4 pt      | 4.5 pt     | 5.33 pt    | 86.50     | 97.30 | 115.30 |
| RT 3 <sup>9</sup>                            | Bayer     | Roundup          | glyphosate-K salt                     | 4.5SL              | 17.25 gal   | 22 fl oz  | 32 fl oz   | 44 fl oz   | 3.00      | 4.30  | 5.90   |
| RU PowerMax <sup>9</sup>                     | Bayer     | Roundup          | glyphosate-K salt                     | 4.5SL              | 21.25 gal   | 22 fl oz  | 32 fl oz   | 44 fl oz   | 3.70      | 5.30  | 7.30   |
| RU WeatherMax <sup>9</sup>                   | Bayer     | Roundup          | glyphosate-K salt                     | 4.5SL              | 28.00 gal   | 22 fl oz  | 32 fl oz   | 44 fl oz   | 4.80      | 7.00  | 9.60   |
| Rugged <sup>4</sup>                          | Winfield  | 2,4-D acid       | 2,4-D-acid                            | 3.49EC             | 32.35 gal   | 0.67 pt   | 1.33 pt    | 2.5 pt     | 2.70      | 5.40  | 10.10  |
| Rumble <sup>14</sup>                         | ADAMA     | Flexstar         | fomesafen-Na salt & adjuvants         | 1.88EC             | 60.00 gal   | 0.5 pt    | 0.75 pt    | 1 pt       | 3.80      | 5.60  | 7.50   |
| Saber <sup>4</sup>                           | Loveland  | 2,4-D a          | 2,4-D-dma salt                        | 3.8SL              | 22.00 gal   | 0.5 pt    | 1 pt       | 2 pt       | 1.40      | 2.80  | 5.50   |
| Salvo <sup>4</sup>                           | Loveland  | 2,4-D e          | 2,4-D-ester                           | 5EC                | 36.00 gal   | 6.4 fl oz | 9.6 fl oz  | 12.8 fl oz | 1.80      | 2.70  | 3.60   |
| Sandea <sup>2</sup>                          | Gowan     | Permit           | halosulfuron-methyl                   | 75DF               | 41.00 oz    | 0.67 oz   | 1 oz       | 1.33 oz    | 27.50     | 41.00 | 54.50  |
| Scorch <sup>4,4,4</sup>                      | Nufarm    | -                | 2,4-D & floroxypr & dicamba           | 3 + 0.75 + 1EC     | 49.60 gal   | 1 pt      | 2 pt       | 4 pt       | 6.20      | 12.40 | 24.80  |
| Scout <sup>10</sup>                          | Valent    | Liberty          | Glufosinate-NH <sub>4</sub> Salt      | 2.34 SL            | 63.00 gal   | 29 fl oz  | 32 fl oz   | 43 fl oz   | 14.30     | 15.80 | 21.20  |
| Section <sup>1</sup>                         | Winfield  | Select           | clethodim                             | 2EC                | 120.00 gal  | 4 fl oz   | 6 fl oz    | 8 fl oz    | 3.80      | 5.60  | 7.50   |
| Section Three <sup>1</sup>                   | Winfield  | Shadow           | clethodim                             | 3EC                | 103.50 gal  | 2.66 floz | 5.33 floz  | 10.66 floz | 2.20      | 4.30  | 8.60   |
| Select Max <sup>1</sup>                      | Valent    | -                | clethodim                             | 1EC                | 100.00 gal  | 8 fl oz   | 12 fl oz   | 16 fl oz   | 6.30      | 9.40  | 12.50  |
| Sentrallas <sup>2,4</sup>                    | FMC       | -                | thifensulfuron & fluroxypr            | 0.25 & 1.3OD       | 116.00 gal  | 7 fl oz   | 9 fl oz    | 14 fl oz   | 6.30      | 8.20  | 12.70  |
| Sequence <sup>9,15</sup>                     | Syngenta  | -                | glyphosate-K salt & S-metolachlor     | 2.25 + 3SC         | 45.50 gal   | 1.5 pt    | 2.5 pt     | 3 pt       | 8.50      | 14.20 | 17.10  |
| Shadow <sup>1</sup>                          | UPL       | Select           | clethodim                             | 3EC                | 91.00 gal   | 2.66 floz | 5.33 floz  | 10.66 floz | 1.90      | 3.80  | 7.60   |
| Sharpen <sup>14</sup>                        | BASF      | -                | saflufenacil                          | 2.85SC             | 702.50 gal  | 1 fl oz   | 2 fl oz    | 3 fl oz    | 5.50      | 11.00 | 16.50  |
| Showdown <sup>9</sup>                        | Helena    | Roundup          | glyphosate-ipa & NH <sub>4</sub> salt | 2.7 + 0.3SL        | 20.00 gal   | 22 fl oz  | 32 fl oz   | 44 fl oz   | 3.40      | 5.00  | 6.90   |
| Shredder E-99 <sup>4</sup>                   | Winfield  | -                | 2,4-D-beester                         | 6.1EC              | 30.00 gal   | 0.33 pt   | 0.67 pt    | 1.33 pt    | 1.20      | 2.50  | 5.00   |
| Sierra <sup>2</sup>                          | Syngenta  | Everest          | flucarbazone-Na salt & safener        | 3.5SC              | 15.00 fl oz | 0.5 fl oz | 0.75 fl oz | 1 fl oz    | 7.50      | 11.30 | 15.00  |
| Simazine L <sup>5</sup>                      | Several   | Princep          | simazine                              | 4L                 | 18.50 gal   | 2 qt      | 3 qt       | 4 qt       | 9.30      | 13.90 | 18.50  |
| Simazine DF <sup>5</sup>                     | Several   | Princep          | simazine                              | 90DF               | 4.13 lb     | 1.8 lb    | 3 lb       | 4.4 lb     | 7.40      | 12.40 | 18.20  |
| Sinbar                                       | TKI       | -                | terbacil                              | 80WP               | 47.75 lb    | 0.5 lb    | 2 lb       | 4 lb       | 23.90     | 95.50 | 191.00 |
| Sinister <sup>14</sup>                       | Helena    | Reflex           | fomesafen-acid                        | 2.87SL             | 132.25 gal  | 0.52 pt   | -          | 0.52 pt    | 8.60      | -     | 8.60   |
| Smack Down <sup>15,4,2</sup>                 | Loveland  | SureStart        | aceto&clpyr&flumet&dichlormid         | 3.75+0.29+0.12SC   | 45.00 gal   | 1.5 pt    | 2 pt       | 3 pt       | 8.40      | 11.30 | 16.90  |
| Solida <sup>2</sup>                          | FMC       | Matrix           | rimsulfuron                           | 25DF               | 18.00 oz    | 1 oz      | -          | 1.5 oz     | 18.00     | -     | 27.00  |
| Solstice <sup>27,14</sup>                    | FMC       | -                | mesotrione & fluthiacet               | 3.784 + 0.216SC    | 379.00 gal  | 2.5 fl oz | -          | 3 fl oz    | 7.40      | -     | 8.90   |
| Sonalan HFP <sup>3</sup>                     | Gowan     | -                | ethalfuralin                          | 3EC                | 45.00 gal   | 1.5 pt    | 3 pt       | 4.5 pt     | 8.40      | 16.90 | 25.30  |



| Product                         | Site of action-pg 100-101 | Company  | Brand equivalent | Active ingredients                           | Formulation       | \$/Unit    | Product/A  |            |            | Cost \$/A |       |        |
|---------------------------------|---------------------------|----------|------------------|--|-------------------|------------|------------|------------|------------|-----------|-------|--------|
|                                 |                           |          |                  |  |                   |            | Low        | Med        | High       | Low       | Med   | High   |
| Sonalan 10G <sup>3</sup>        |                           | Gowan    | -                | ethalfuralin                                 | 10G               | 1.65 lb    | 6 lb       | 11.5 lb    | 17 lb      | 9.90      | 19.00 | 28.10  |
| Sonic <sup>2,14</sup>           |                           | Corteva  | Authrty 1st      | cloransulam & sulfentrazone                  | 7.9 + 62.1WDG     | 4.37 oz    | 4 oz       | 6 oz       | 8 oz       | 17.50     | 26.20 | 35.00  |
| Spartan <sup>14</sup>           |                           | FMC      | -                | sulfentrazone                                | 4L                | 199.00 gal | 3 fl oz    | 4.5 fl oz  | 6 fl oz    | 4.70      | 7.00  | 9.30   |
| Spartan Charge <sup>14,14</sup> |                           | FMC      | -                | carfentrazone & sulfentrazone                | 0.35 + 3.15SE     | 248.50 gal | 3.75 fl oz | 4.5 fl oz  | 5.75 fl oz | 7.30      | 8.70  | 11.20  |
| Spartan Elite <sup>15,14</sup>  |                           | FMC      | BroadAxe         | S-metolachlor & sulfentrazone                | 6.3 + 0.7EC       | 125.00 gal | 20 fl oz   | 25 fl oz   | 32 fl oz   | 19.50     | 24.40 | 31.30  |
| Spike <sup>7</sup>              |                           | Corteva  | -                | tebuthiuron                                  | 80DF              | 22.00 lb   | 2.5 lb     | 3.75 lb    | 5 lb       | 55.00     | 82.50 | 110.00 |
| SpitFire <sup>4,4</sup>         |                           | Nufarm   | -                | dicamba & 2,4-D                              | 0.5 + 3.07SL      | 30.75 gal  | 1 pt       | 2 pt       | 4 pt       | 3.80      | 7.70  | 15.40  |
| Spur <sup>4</sup>               |                           | Albaugh  | Stinger          | clopyralid-monoea salt                       | 3SL               | 185.00 gal | 1.3 fl oz  | 2.6 fl oz  | 0.25 pt    | 1.90      | 3.80  | 5.80   |
| Stalker <sup>2</sup>            |                           | BASF     | Arsenal          | imazapyr-ipa salt                            | 2SL               | 300.00 gal | 48 fl oz   | 2 qt       | 3 qt       | 113       | 150   | 225    |
| Starane Flex <sup>2,4</sup>     |                           | Corteva  | -                | florasulam & fluroxypyr                      | 0.042 + 0.833EC   | 67.00 gal  | 13.5 fl oz | -          | 13.5 fl oz | 7.10      | -     | 7.10   |
| Starane NXT <sup>6,4</sup>      |                           | Corteva  | -                | bromoxynil & fluroxypyr-ester                | 2.33 + 0.583EC    | 77.00 gal  | 14 fl oz   | 21 fl oz   | 27.4 fl oz | 8.40      | 12.60 | 16.50  |
| Starane Ultra <sup>4</sup>      |                           | Corteva  | -                | fluroxypyr-ester                             | 2.8EC             | 218.50 gal | 0.25 pt    | 0.35 pt    | 0.54 pt    | 6.80      | 9.60  | 14.70  |
| Status <sup>4,19</sup>          |                           | BASF     | -                | dic-Na&diflufenzpr-Na&isoxadifen             | 40 + 16WDG        | 3.70 oz    | 5 oz       | 7.5 oz     | 10 oz      | 18.50     | 27.80 | 37.00  |
| Streamline <sup>4,2</sup>       |                           | Bayer    | -                | aminocyclopyrachlor + metsulf                | 39.5 + 12.6DF     | 7.00 oz    | 4.75 oz    | 7.5 oz     | 9.5 oz     | 33.30     | 52.50 | 66.50  |
| Stealth <sup>3</sup>            |                           | Loveland | Prowl            | pendimethalin                                | 3.3EC             | 32.00 gal  | 2.4 pt     | 3 pt       | 3.64 pt    | 9.60      | 12.00 | 14.60  |
| Sterling Blue <sup>4</sup>      |                           | Winfield | Clarity          | dicamba-dga salt                             | 4SL               | 52.50 gal  | 4 fl oz    | 8 fl oz    | 16 fl oz   | 1.60      | 3.30  | 6.60   |
| Stinger <sup>4</sup>            |                           | Corteva  | Stinger          | clopyralid-monoea salt                       | 3SL               | 346.50 gal | 1.3 fl oz  | 2.6 fl oz  | 0.25 pt    | 3.50      | 7.00  | 10.80  |
| Storm <sup>14,6</sup>           |                           | UPL      | -                | acifluorifen & bentazon                      | 1.33 + 2.67SL     | 85.00 gal  | 1 pt       | 1.5 pt     | 2 pt       | 10.60     | 15.90 | 21.30  |
| Strut <sup>4</sup>              |                           | Loveland | Clarity          | dicamba-dga salt                             | 4SL               | 63.00 gal  | 4 fl oz    | 8 fl oz    | 16 fl oz   | 2.00      | 3.90  | 7.90   |
| Supremacy <sup>4,2,2</sup>      |                           | UPL      | -                | fluroxypyr & thifen & tribenuron             | 25 + 4.5 + 1.5WDG | 1.75 oz    | 4 oz       | 5 oz       | 6 oz       | 7.00      | 8.80  | 10.50  |
| SureStart II <sup>15,4,2</sup>  |                           | Corteva  | -                | aceto&clpyr&flumet&dichlormid                | 3.75+0.29+0.12SC  | 68.50 gal  | 1.5 pt     | 2 pt       | 3 pt       | 12.80     | 17.10 | 25.70  |
| Surflan <sup>3</sup>            |                           | UPL      | -                | oryzalin                                     | 4EC               | 52.00 gal  | 2 qt       | 3 qt       | 4 qt       | 26.00     | 39.00 | 52.00  |
| Surpass NXT <sup>15</sup>       |                           | Corteva  | -                | acetochlor & dichlormid safener              | 6.4EC             | 78.50 gal  | 1.5 pt     | 2 pt       | 2.25 pt    | 14.70     | 19.60 | 22.10  |
| Surveil <sup>14,2</sup>         |                           | Corteva  | Gangster         | flumioxazin & cloransulm                     | 36 + 12WDG        | 96.00 lb   | 2.1 oz     | 2.8 oz     | 4.2 oz     | 12.60     | 16.80 | 25.20  |
| Sword <sup>4</sup>              |                           | Loveland | -                | MCPA ester                                   | 5.2EC             | 35.00 gal  | 3 fl oz    | 1 pt       | 2 pt       | 0.80      | 4.40  | 8.80   |
| Tacoma <sup>1</sup>             |                           | Winfield | Puma             | fenoxaprop-P ethyl                           | 1EC               | 150.00 gal | 0.33 pt    | 0.4 pt     | 0.67 pt    | 6.20      | 7.50  | 12.60  |
| Tailwind <sup>15,5</sup>        |                           | ADAMA    | Boundary         | S-metolachlor & metribuzin                   | 5.25 + 1.25L      | 75.00 gal  | 1.2 pt     | 1.6 pt     | 2.45 pt    | 11.30     | 15.00 | 23.00  |
| Talino <sup>6,27</sup>          |                           | Syngenta | -                | bromoxynil & bicyclopyrone                   | 1.77EC            | 79.25 gal  | 13.7 fl oz | -          | 18.2 fl oz | 8.50      | -     | 11.30  |
| Tapout <sup>1</sup>             |                           | Helena   | Select           | clethodim                                    | 1EC               | 100.00 gal | 4 fl oz    | 6 fl oz    | 8 fl oz    | 3.10      | 4.70  | 6.30   |
| Targa <sup>1</sup>              |                           | Gowan    | Assure II        | quizalofop-ethyl                             | 0.88EC            | 91.00 gal  | 7 fl oz    | 8 fl oz    | 10 fl oz   | 5.00      | 5.70  | 7.10   |
| Tavium <sup>4,15</sup>          |                           | Syngenta | -                | Dicamba-dga salt + VaporGrip + S-metolachlor | 3.38 CS           | 51.75 gal  | -          | 56.5 fl oz | -          | 22.80     | 22.80 | 22.80  |
| Teammate <sup>2</sup>           |                           | Corteva  | -                | pyroxulam & safener                          | 21.5WDG           | 205.00 lb  | 1 oz       | -          | 1 oz       | 12.80     | -     | 12.80  |
| Thistrol <sup>4</sup>           |                           | Nufarm   | -                | MCPB   | 2EC               | 52.75 gal  | 2 pt       | 4 pt       | 6 pt       | 13.20     | 26.40 | 39.60  |
| Thunder <sup>2</sup>            |                           | Albaugh  | Pursuit          | imazethapyr-NH4 salt                         | 2AS               | 330.00 gal | 2 fl oz    | 2.5 fl oz  | 3 fl oz    | 5.20      | 6.40  | 7.70   |
| Thunder Master <sup>2,9</sup>   |                           | Albaugh  | Extreme          | imazethapyr-acid & glyph-ipa salt            | 0.17 + 2SL        | 22.00 gal  | 1.5 pt     | 2.25 pt    | 3 pt       | 4.10      | 6.20  | 8.30   |
| Top Gun <sup>14</sup>           |                           | Loveland | Reflex           | fomesafen-Na salt                            | 2EC               | 41.00 gal  | 0.5 pt     | 0.75 pt    | 1 pt       | 2.60      | 3.80  | 5.10   |
| Tordon 22K <sup>4</sup>         |                           | Corteva  | -                | picloram-K salt                              | 2SL               | 63.00 gal  | 1 pt       | 2 pt       | 4 pt       | 7.90      | 15.80 | 31.50  |
| Torment <sup>14,2</sup>         |                           | ADAMA    | -                | fomesafen & imazethapyr                      | 2 + 0.5           | 104.75 gal | 0.75 pt    | -          | 1 pt       | 9.80      | -     | 13.10  |
| Transline <sup>4</sup>          |                           | Corteva  | Stinger          | clopyralid-monea salt                        | 3SL               | 193.25 gal | 0.67 pt    | 1 pt       | 1.33 pt    | 16.20     | 24.20 | 32.10  |
| Travallas <sup>2,2,4</sup>      |                           | FMC      | -                | metsulfuron & thifen & fluroxypyr            | 0.025&0.25&1.3OD  | 1.12 fl oz | 10 fl oz   | -          | 10 fl oz   | 11.20     | -     | 11.20  |
| Treaty <sup>2</sup>             |                           | Nufarm   | Harmony          | thifensulfuron-methyl                        | 75DF              | 9.50 oz    | 1/12 oz    | 0.3 oz     | 0.6 oz     | 0.80      | 2.90  | 5.70   |
| Treaty Extra <sup>2,2</sup>     |                           | Nufarm   | Harm. Extr       | thifensulfuron & tribenuron                  | 50 + 25DF         | 8.00 oz    | 0.15 oz    | 0.3 oz     | 0.6 oz     | 1.20      | 2.40  | 4.80   |
| Treflan HFP <sup>3</sup>        |                           | Gowan    | -                | trifluralin                                  | 4EC               | 21.00 gal  | 1 pt       | 2 pt       | 4 pt       | 2.60      | 5.30  | 10.50  |
| Treflan TR-10 <sup>3</sup>      |                           | Gowan    | -                | trifluralin                                  | 10G               | 1.16 lb    | 5 lb       | 10 lb      | 20 lb      | 5.80      | 11.60 | 23.20  |

| Product                         | Site of action-pg 100-101 | Company      | Brand equivalent | Active ingredients               | Formulation         | \$/Unit    | Product/A  |           |            | Cost \$/A |       |        |
|---------------------------------|---------------------------|--------------|------------------|----------------------------------|---------------------|------------|------------|-----------|------------|-----------|-------|--------|
|                                 |                           |              |                  |                                  |                     |            | Low        | Med       | High       | Low       | Med   | High   |
| TriCor 4F <sup>5</sup>          |                           | UPL          | Sencor           | metribuzin                       | 4F                  | 94.75 gal  | 6 fl oz    | 8 fl oz   | 16 fl oz   | 4.40      | 5.90  | 11.80  |
| TriCor 75DF <sup>5</sup>        |                           | UPL          | Sencor           | metribuzin                       | 75DF                | 17.90 lb   | 0.25 lb    | 0.33 lb   | 0.67 lb    | 4.50      | 5.90  | 12.00  |
| Trifluralin EC <sup>3</sup>     |                           | Several      | Treflan          | trifluralin                      | 4EC                 | 24.5 gal   | 1 pt       | 2 pt      | 4 pt       | 3.10      | 6.10  | 12.30  |
| Triflurex <sup>3</sup>          |                           | ADAMA        | Treflan          | trifluralin                      | 4EC                 | 25.00 gal  | 1 pt       | 2 pt      | 4 pt       | 3.10      | 6.30  | 12.50  |
| Trimec Classic <sup>4,4,4</sup> |                           | PBI          | -                | 2,4-D-amine & MCPP & dicamba     | 3.32EC              | 43.00 gal  | 3.25 pt    | 3.8 pt    | 4.33 pt    | 17.50     | 20.40 | 23.30  |
| TripleFlex II <sup>15,4,2</sup> |                           | Bayer        | SureStart        | aceto&clopyr&flumet&furlazole    | 3.75+0.38+0.12SC    | 80.00 gal  | 1.5 pt     | 2 pt      | 3 pt       | 15.00     | 20.00 | 30.00  |
| Trisidual <sup>15,4,2</sup>     |                           | Winfield     | SureStart        | aceto&clopyr&flumet&furlazole    | 3.75+0.38+0.12SC    | 55.00 gal  | 1.5 pt     | 2 pt      | 3 pt       | 10.30     | 13.80 | 20.60  |
| Triumph 22K <sup>4</sup>        |                           | Albaugh      | Tordon           | picloram-K salt                  | 2SL                 | 61.00 gal  | 1 pt       | 2 pt      | 4 pt       | 7.60      | 15.30 | 30.50  |
| Trooper 22 K <sup>4</sup>       |                           | Nufarm       | Tordon           | picloram-K salt                  | 2SL                 | 60.00 gal  | 1 pt       | 2 pt      | 4 pt       | 7.50      | 15.00 | 30.00  |
| Trooper Extra <sup>4,4,4</sup>  |                           | Nufarm       | -                | picloram-3ipa & 2,4-D-3ipa & dic | 0.5 + 2 + 0.5S      | 39.00 gal  | 1 pt       | 2 pt      | 4 pt       | 4.90      | 9.80  | 19.50  |
| Trooper P+D <sup>4,4</sup>      |                           | Nufarm       | Grazon           | picloram-3ipa & 2,4-D-3ipa salt  | 0.54 + 2 S          | 25.00 gal  | 2 qt       | 3 qt      | 4 qt       | 12.50     | 18.80 | 25.00  |
| Trooper Pro <sup>4,4</sup>      |                           | Nufarm       | Surmount         | picloram-3ipa & fluroxypyr-mhe   | 1 + 1S              | 56.00 gal  | 2 pt       | 3 pt      | 4 pt       | 14.00     | 21.00 | 28.00  |
| Trump Card <sup>4,4</sup>       |                           | Helena       | -                | fluroxypyr-ester & 2,4-D-acid    | 0.66 + 2.65EC       | 75.00 gal  | 1 pt       | 2 pt      | 3 pt       | 9.40      | 18.80 | 28.10  |
| Truslate <sup>4,4</sup>         |                           | Nufarm       | WideMatch        | clopyralid-mea & fluroxypyr-mhe  | 0.75 + 0.75EC       | 70.00 gal  | 0.75 pt    | 1 pt      | 1.33 pt    | 6.60      | 8.80  | 11.60  |
| Truslate Pro <sup>4,4,4</sup>   |                           | Nufarm       | -                | clop-mea & flurox-mhe & MCPAe    | 0.5 + 0.64 + 1.75EC | 53.00 gal  | 1 pt       | 1.5 pt    | 2 pt       | 6.60      | 9.90  | 13.30  |
| Trust <sup>3</sup>              |                           | Winfield     | Treflan          | trifluralin                      | 4EC                 | 25.00 gal  | 1 pt       | 2 pt      | 4 pt       | 3.10      | 6.30  | 12.50  |
| Trycera <sup>4</sup>            |                           | Helena       | Garlon           | triclopyr-acid                   | 4EC                 | 135.00 gal | 1 qt       | 2 qt      | 4 qt       | 33.80     | 67.50 | 135.00 |
| Tuscany SC <sup>14</sup>        |                           | Nufarm       | Valor            | flumioxazin                      | 4 SC                | 540.00 gal | 2 fl oz    | 3 fl oz   | 4 fl oz    | 8.40      | 12.70 | 16.90  |
| Ultra Blazer <sup>14</sup>      |                           | UPL          | -                | acifluorfen-Na salt              | 2SL                 | 47.50 gal  | 1 pt       | 1.5 pt    | 2 pt       | 5.90      | 8.90  | 11.90  |
| Unison <sup>4</sup>             |                           | Helena       | Hardball         | 2,4-D-acid                       | 1.74SL              | 40.00 gal  | 1 pt       | 1.75 pt   | 2.5 pt     | 5.00      | 8.80  | 12.50  |
| UpBeet <sup>2</sup>             |                           | FMC          | -                | triflusalufuron-methyl           | 50DF                | 19.00 oz   | 0.25 oz    | 0.3 oz    | 0.5 oz     | 4.80      | 5.70  | 9.50   |
| Valor EZ <sup>14</sup>          |                           | Valent       | -                | flumioxazin                      | 4SC                 | 4.10 fl oz | 2 fl oz    | 2.5 fl oz | 3 fl oz    | 8.20      | 10.20 | 12.30  |
| Valor SX <sup>14</sup>          |                           | Valent       | -                | flumioxazin                      | 51WDG               | 3.75 oz    | 2 oz       | 2.5 oz    | 3 oz       | 7.50      | 9.40  | 11.30  |
| Vanquish <sup>4</sup>           |                           | Nufarm       | -                | dicamba-dga salt                 | 4SL                 | 85.00 gal  | 4 fl oz    | 8 fl oz   | 16 fl oz   | 2.70      | 5.30  | 10.60  |
| Varisto <sup>6,2</sup>          |                           | BASF         | -                | bentazon & imazamox              | 4 + 0.19SL          | 136.50 gal | 16 fl oz   | 21 fl oz  | 27 fl oz   | 17.10     | 22.40 | 28.80  |
| Varro <sup>2</sup>              |                           | Bayer        | -                | thiencarbazon & mefenpyr         | 0.083OD             | 232.00 gal | 6.85 fl oz | -         | 6.85 fl oz | 12.40     | -     | 12.40  |
| Vaquero <sup>1</sup>            |                           | Wilbur-Ellis | Select           | clethodim                        | 2EC                 | 107.00 gal | 4 fl oz    | 6 fl oz   | 8 fl oz    | 3.30      | 5.00  | 6.70   |
| Vastlan <sup>4</sup>            |                           | Corteva      | Garlon           | triclopyr-choline                | 4SL                 | 95.00 gal  | 1 qt       | 2 qt      | 4 qt       | 23.80     | 47.50 | 95.00  |
| Velossa <sup>5</sup>            |                           | Helena       | Velpar           | hexazinone                       | 2L                  | 130.00 gal | 2 pt       | 4 pt      | 6 pt       | 32.50     | 65.00 | 97.50  |
| Velpar <sup>5</sup>             |                           | TKI          | -                | hexazinone                       | 2L                  | 87.25 gal  | 2 pt       | 4 pt      | 6 pt       | 21.80     | 43.60 | 65.40  |
| Verdict <sup>14,15</sup>        |                           | BASF         | -                | saflufenacil & dimethenamid-P    | 0.57 + 5EC          | 211.75 gal | 10 fl oz   | 13 fl oz  | 16 fl oz   | 16.50     | 21.50 | 26.50  |
| Verdure X <sup>22</sup>         |                           | Helm Agro    | Reglone          | diquat-dibromide salt            | 2SL                 | 105.00 gal | 1 pt       | 1.5 pt    | 2 pt       | 13.10     | 19.70 | 26.30  |
| Victory <sup>2</sup>            |                           | Nufarm       | Express          | tribenuron-methyl                | 75DF                | 9.30 oz    | 1/8 oz     | 1/6 oz    | 1/3 oz     | 1.20      | 1.60  | 3.10   |
| Vida <sup>14</sup>              |                           | Gowan        | ET               | pyraflufen-ethyl                 | 0.208EC             | 3.72 fl oz | 0.5 fl oz  | 2 fl oz   | 5.5 fl oz  | 1.90      | 7.40  | 20.50  |
| Viewpoint <sup>4,2,2</sup>      |                           | Bayer        | -                | aminocycpyrchl&imazapyr&met      | 22.8 + 31.6 + 7.3DF | 5.00 oz    | 13 oz      | 16 oz     | 18 oz      | 65.00     | 80.00 | 90.00  |
| Vise <sup>15,14</sup>           |                           | ADAMA        | Prefix           | S-metolachlor & fomesafen        | 4.34 + 0.95EC       | 60.00 gal  | 1 pt       | 1.5 pt    | 2 pt       | 7.50      | 11.30 | 15.00  |
| Vision <sup>4</sup>             |                           | Helena       | Banvel           | dicamba-acid                     | 3.8SL               | 94.00 gal  | 4 fl oz    | 8 fl oz   | 16 fl oz   | 2.90      | 5.90  | 11.80  |
| Vista XRT <sup>4</sup>          |                           | Corteva      | Starane          | fluroxypyr-ester                 | 2.8AE               | 170.00 gal | 6 fl oz    | 12 fl oz  | 22 fl oz   | 8.00      | 15.90 | 29.20  |
| Volley <sup>15</sup>            |                           | Tenkoz       | Surpass          | acetochlor & dichlormid safener  | 6.4EC               | 76.75 gal  | 1.5 pt     | 2 pt      | 2.25 pt    | 14.40     | 19.20 | 21.60  |
| Volta <sup>2</sup>              |                           | Rotam        | Harmony          | thifensulfuron-methyl            | 75DF                | 7.60 oz    | 1/12 oz    | 0.3 oz    | 0.6 oz     | 0.60      | 2.30  | 4.60   |
| Volta Extra <sup>2,2</sup>      |                           | Rotam        | Harm. Extr       | thifensulfuron & tribenuron      | 50 + 25DF           | 8.00 oz    | 0.15 oz    | 0.3 oz    | 0.6 oz     | 1.20      | 2.40  | 4.80   |
| Volunteer <sup>1</sup>          |                           | Tenkoz       | Select           | clethodim                        | 2EC                 | 84.00 gal  | 4 fl oz    | 6 fl oz   | 8 fl oz    | 2.60      | 3.90  | 5.30   |
| Voucher <sup>4,4</sup>          |                           | Helena       | Strn+Swd         | MCPA-acid & fluroxypyr-ester     | 2.6 + 0.64SL        | 65.00 gal  | 1 pt       | 2 pt      | 3 pt       | 8.10      | 16.30 | 24.40  |
| Warrant <sup>15</sup>           |                           | Bayer        | -Degree          | acetochlor (microencapsulated)   | 3ME water based     | 29.50 gal  | 1.25 qt    | 1.5 qt    | 2 qt       | 9.20      | 11.10 | 14.80  |
| Warrant Ultra <sup>15</sup>     |                           | Bayer        | -                | acetochlor & fomesafen           | 2.83 + 0.64EC       | 36.50 gal  | 48 fl oz   | -         | 48 fl oz   | 13.70     | -     | 13.70  |

| Product <sup>Site of action-pg 100-101</sup> | Company  | Brand equivalent | Active ingredients              | Formulation         | \$/Unit    | Product/A |          |           | Cost \$/A |       |       |
|--|----------|------------------|---------------------------------|---------------------|------------|-----------|----------|-----------|-----------|-------|-------|
|  |          |                  |                                 |                     |            | Low       | Med      | High      | Low       | Med   | High  |
| Weed Blast <sup>5,7</sup>                    | Loveland | -                | bromacil & diuron               | 4 + 4G              | 7.00 lb    | 40 lb     | 50 lb    | 60 lb     | 280       | 350   | 420   |
| Weedone 638 <sup>4,4</sup>                   | Nufarm   | -                | 2,4-D-acid & 2,4-D-ester        | 2.8EC               | 24.30 gal  | 0.67 pt   | 2 pt     | 3 pt      | 2.00      | 6.10  | 9.10  |
| Weedmaster <sup>4,4</sup>                    | Nufarm   | -                | 2,4-D-dea & dicamba-dea         | 2.87 + 1SL          | 27.00 gal  | 0.5 pt    | 2 pt     | 4 pt      | 1.70      | 6.80  | 13.50 |
| Weld <sup>4,4,4</sup>                        | Winfield | -                | MCPAe & fluroxypyr & clopyralid | 1.75 + 0.64 + 0.5EC | 58.00 gal  | 1 pt      | 1.5 pt   | 2 pt      | 7.30      | 10.90 | 14.50 |
| Whiteout <sup>4</sup>                        | Loveland | -                | 2,4-D-ehe (solventless)         | 5.64EC              | 23.00 gal  | 0.33 pt   | 0.67 pt  | 1.33 pt   | 0.90      | 1.90  | 3.80  |
| WideMatch <sup>4,4</sup>                     | Corteva  | -                | clopyralid-mea & fluroxypyr-mhe | 0.75 + 0.75EC       | 70.00 gal  | 0.75 pt   | 1 pt     | 1.33 pt   | 6.60      | 8.80  | 11.60 |
| Wildcard <sup>4</sup>                        | Helena   | -                | MCPA-ester                      | 4EC                 | 45.00 gal  | 0.5 pt    | 1 pt     | 2 pt      | 2.80      | 5.60  | 11.30 |
| Wildcard Xtra <sup>6,4</sup>                 | Helena   | Bronate          | bromoxynil-ester & MCPA-ester   | 2 + 2EC             | 65.00 gal  | 0.75 pt   | 1 pt     | 1.5 pt    | 6.10      | 8.10  | 12.20 |
| Wolverine Adv. <sup>1,27,6</sup>             | Bayer    | -                | fenox&pyrasulf&bromox&mefenpr   | 0.4 & 0.13 & 1.05EC | 92.50 gal  | 1.7 pt    |          | 1.7 pt    | 19.70     | -     | 19.70 |
| XtendiMax <sup>4</sup>                       | Bayer    | Clarity          | dicamba-dga salt + VaporGrip    | 2.9SL               | 59.50 gal  | 22 fl oz  | 33 fl oz | 44 fl oz  | 10.20     | 15.30 | 20.50 |
| Yukon <sup>4,2</sup>                         | Gowan    | -                | dicamba-Na & halosulfuron-CH3   | 55 + 12.5 WDG       | 3.75 oz    | 4 oz      | 6 oz     | 8 oz      | 15.00     | 22.50 | 30.00 |
| Zidua <sup>15</sup>                          | BASF     | -                | pyroxasulfone                   | 85WDG               | 8.58 oz    | 3 oz      | 4 oz     | 5 oz      | 25.70     | 34.30 | 42.90 |
| Zidua SC <sup>15</sup>                       | BASF     | -                | pyroxasulfone                   | 4.17SC              | 764.00 gal | 1.75 oz   | 4 oz     | 6.5 oz    | 10.40     | 23.90 | 38.80 |
| Zidua Pro <sup>2,14,15</sup>                 | BASF     | -                | pyrox&saflufenacil&imazethapyr  | 2.28+0.48+1.33SC    | 438.00 gal | 4.5 fl oz | -        | 4.5 fl oz | 15.40     | -     | 15.40 |
| 2,4-D Products <sup>4</sup>                  | Several  | -                | 2,4-D                           |                     |            |           |          |           |           |       |       |
| 2,4-D amine <sup>4</sup>                     |          |                  |                                 | 3.8SL               | 14.61 gal  | 0.5 pt    | 2 pt     | 4 pt      | 0.90      | 3.70  | 7.30  |
| 2,4-D ester <sup>4</sup>                     |          |                  |                                 | 3.8EC               | 20.66 gal  | 0.5 pt    | 2 pt     | 4 pt      | 1.30      | 5.20  | 10.30 |
| LV ester <sup>4</sup>                        |          |                  |                                 | 5.7EC               | 23.00 gal  | 0.33 pt   | 2 pt     | 4 pt      | 0.90      | 5.70  | 11.50 |