

**Table 1. Weed management in corn with preemergence and postemergence applied herbicides.**

| Treatment <sup>a</sup>                                       | Rate  | Appl time     | Corn stand <sup>b</sup> | Injury 6/10           | Setfa 6/10 | Abuth 6/10 | Amata 6/10 | Cheal 6/10 | Polpy 6/10 |
|--|---|---------------|-------------------------|-----------------------|------------|------------|------------|------------|------------|
|  | Product/A   |               |                         | - (%) - -----(%)----- |            |            |            |            |            |
| Untreated  | -   | -             | 33                      | 0                     | 0          | 0          | 0          | 0          | 0          |
| Outlook + (Marksman)   | 21.0 fl oz + (3.5 pt)   | PRE + (EPOST) | 31                      | 0                     | 99         | 35         | 98         | 82         | 87         |
| G-Max Lite + (Distinct + NIS + AMS)                          | 3.5 pt + 4.0 oz wt + 0.25% + 5.0 lb/100 gal)                    | PRE + (MPOST) | 32                      | 0                     | 99         | 58         | 99         | 98         | 98         |
| Outlook + (Distinct + Prowl H2O + NIS + AMS)                 | 10.0 fl oz + (4.0 oz wt + 2.5 pt + 0.25% + 5.0 lb/100 gal)      | PRE + (MPOST) | 34                      | 0                     | 95         | 17         | 96         | 65         | 65         |
| Celebrity Plus + Prowl H2O + NIS + AMS                       | 4.67 oz wt + 2.5 pt + 0.25% + 5.0 lb/100 gal                    | MPOST         | 34                      | 0                     | 0          | 0          | 0          | 0          | 0          |
| Radius + Atrazine  | 25.0 fl oz + 1.0 qt   | PRE           | 34                      | 0                     | 96         | 92         | 98         | 99         | 98         |
| Balance Pro + (Option + Callisto + Atrazine + MSO + AMS)     | 1.5 fl oz + (1.5 oz wt + 1.5 fl oz + 1.0 pt + 1.5 pt + 1.5 lb)  | PRE + (MPOST) | 32                      | 0                     | 93         | 67         | 92         | 93         | 90         |
| Keystone + Hornet WDG  | 2.65 qt + 3.0 oz wt   | PRE           | 34                      | 0                     | 99         | 83         | 99         | 99         | 99         |
| Keystone + (Hornet WDG + Atrazine + COC + 28% UAN)           | 2.65 qt + (3.0 oz wt + 0.83 lb + 1.0% + 2.5%)                   | PRE + (MPOST) | 33                      | 0                     | 98         | 57         | 99         | 93         | 91         |
| FulTime + (Glyphomax + AMS)                                  | 2.25 qt + (2.0 pt + 2.5 lb)                                     | PRE + (MPOST) | 33                      | 0                     | 96         | 52         | 98         | 96         | 95         |
| Cinch ATZ + (Steadfast + Callisto + Atrazine + COC + AMS)    | 2.5 pt + (0.75 oz wt + 2.0 fl oz + 4.44 oz wt + 1.0 % + 2.0 lb) | PRE + (MPOST) | 33                      | 0                     | 96         | 43         | 96         | 92         | 78         |
| Steadfast + Callisto + Atrazine + COC + AMS                  | 0.75 oz wt + 2.0 fl oz + 26.7 oz wt + 1.0% + 2.0 lb             | EPOST         | 33                      | 0                     | 0          | 0          | 0          | 0          | 0          |
| Harness Xtra 5.6 SC + (Roundup WeatherMAX + AMS)             | 1.75 qt + (22.0 fl oz + 2.5 lb)                                 | PRE + (MPOST) | 33                      | 0                     | 96         | 60         | 98         | 96         | 90         |
| Lexar  | 3.5 qt  | PRE           | 33                      | 0                     | 99         | 98         | 99         | 99         | 99         |
| Lumax + (Lumax)  | 1.5 qt + (1.5 qt)   | PRE + (EPOST) | 32                      | 0                     | 96         | 88         | 98         | 99         | 99         |
| Bicep Lite II Magnum + (Callisto + Atrazine + COC + 28% UAN) | 1.5 qt + (3.0 fl oz + 0.556 lb + 1.0% + 2.5%)                   | PRE + (MPOST) | 33                      | 0                     | 96         | 48         | 96         | 90         | 93         |
| LSD (P=0.05)   |   |               | 3                       | 0                     | 4          | 16         | 3          | 9          | 10         |

<sup>a</sup> NIS = Activator 90, a nonionic surfactant from UAP - Loveland Industries; AMS = ammonium sulfate fertilizer from Agrilience, LLC; MSO = methylated seed oil plus surfactant from UAP - Loveland Industries; COC = Herbimax crop oil concentrate from UAP - Loveland Industries; 28% UAN = mixture of urea and ammonium sulfate from United Suppliers.

<sup>b</sup> Corn stand per 17' 5" row-feet on June 10.

<sup>c</sup> % weed control = Setfa = giant foxtail, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lamb's quarters, Polpy = Pennsylvania smartweed.

**Table 2. Weed management in corn with preemergence and postemergence applied herbicides.**

| Treatment <sup>a</sup>                                       | Rate  | Appl time     | Injury 6/17 | Injury 7/1 | Setfa 7/1                   | Abuth 7/1 | Amata 7/1 | Cheal 7/1 | Polpy 7/1 |
|--|---|---------------|-------------|------------|-----------------------------|-----------|-----------|-----------|-----------|
|  | Product/A   |               | - (%) -     | - (%) -    | -----(% <sup>b</sup> )----- |           |           |           |           |
| Untreated  | -   | -             | 0           | 0          | 0                           | 0         | 0         | 0         | 0         |
| Outlook + (Marksman)   | 21.0 fl oz + (3.5 pt)   | PRE + (EPOST) | 7           | 2          | 99                          | 99        | 99        | 99        | 99        |
| G-Max Lite + (Distinct + NIS + AMS)                          | 3.5 pt + 4.0 oz wt + 0.25% + 5.0 lb/100 gal)                    | PRE + (MPOST) | 0           | 3          | 96                          | 96        | 99        | 98        | 98        |
| Outlook + (Distinct + Prowl H2O + NIS + AMS)                 | 10.0 fl oz + (4.0 oz wt + 2.5 pt + 0.25% + 5.0 lb/100 gal)      | PRE + (MPOST) | 0           | 2          | 95                          | 92        | 96        | 93        | 93        |
| Celebrity Plus + Prowl H2O + NIS + AMS                       | 4.67 oz wt + 2.5 pt + 0.25% + 5.0 lb/100 gal                    | MPOST         | 0           | 7          | 93                          | 92        | 93        | 93        | 93        |
| Radius + Atrazine  | 25.0 fl oz + 1.0 qt   | PRE           | 0           | 0          | 93                          | 88        | 93        | 96        | 96        |
| Balance Pro + (Option + Callisto + Atrazine + MSO + AMS)     | 1.5 fl oz + (1.5 oz wt + 1.5 fl oz + 1.0 pt + 1.5 pt + 1.5 lb)  | PRE + (MPOST) | 0           | 5          | 95                          | 99        | 99        | 99        | 99        |
| Keystone + Hornet WDG  | 2.65 qt + 3.0 oz wt   | PRE           | 0           | 0          | 95                          | 85        | 96        | 98        | 99        |
| Keystone + (Hornet WDG + Atrazine + COC + 28% UAN)           | 2.65 qt + (3.0 oz wt + 0.83 lb + 1.0% + 2.5%)                   | PRE + (MPOST) | 0           | 5          | 98                          | 98        | 98        | 99        | 99        |
| FulTime + (Glyphomax + AMS)                                  | 2.25 qt + (2.0 pt + 2.5 lb)                                     | PRE + (MPOST) | 0           | 0          | 99                          | 99        | 99        | 99        | 99        |
| Cinch ATZ + (Steadfast + Callisto + Atrazine + COC + AMS)    | 2.5 pt + (0.75 oz wt + 2.0 fl oz + 4.44 oz wt + 1.0 % + 2.0 lb) | PRE + (MPOST) | 0           | 7          | 99                          | 99        | 99        | 99        | 99        |
| Steadfast + Callisto + Atrazine + COC + AMS                  | 0.75 oz wt + 2.0 fl oz + 26.7 oz wt + 1.0% + 2.0 lb             | EPOST         | 12          | 5          | 98                          | 99        | 99        | 99        | 99        |
| Harness Xtra 5.6 SC + (Roundup WeatherMAX + AMS)             | 1.75 qt + (22.0 fl oz + 2.5 lb)                                 | PRE + (MPOST) | 0           | 0          | 99                          | 99        | 99        | 99        | 99        |
| Lexar  | 3.5 qt  | PRE           | 0           | 0          | 96                          | 98        | 98        | 98        | 99        |
| Lumax + (Lumax)  | 1.5 qt + (1.5 qt)   | PRE + (EPOST) | 0           | 0          | 99                          | 99        | 99        | 99        | 99        |
| Bicep Lite II Magnum + (Callisto + Atrazine + COC + 28% UAN) | 1.5 qt + (3.0 fl oz + 0.556 lb + 1.0% + 2.5%)                   | PRE + (MPOST) | 0           | 7          | 98                          | 99        | 99        | 99        | 99        |
| LSD (P=0.05)   |   |               | 2           | 3          | 3                           | 4         | 3         | 3         | 2         |

<sup>a</sup> NIS = Activator 90, a nonionic surfactant from UAP - Loveland Industries; AMS = ammonium sulfate fertilizer from Agrilience, LLC; MSO = methylated seed oil plus surfactant from UAP - Loveland Industries; COC = Herbimax crop oil concentrate from UAP - Loveland Industries; 28% UAN = mixture of urea and ammonium sulfate from United Suppliers.

<sup>b</sup> % weed control = Setfa = giant foxtail, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lamb's quarters, Polpy = Pennsylvania smartweed.

**Table 3. Weed management in corn with preemergence and postemergence applied herbicides.**

| Treatment <sup>a</sup>                                       | Rate  | Appl time     | Injury 7/20                         | Setfa 7/20 | Abuth 7/20 | Amata 7/20 | Cheal 7/20 | Polpy 7/20 |
|--|---|---------------|-------------------------------------|------------|------------|------------|------------|------------|
|  | Product/A   |               | - (%) - -----(%) <sup>b</sup> ----- |            |            |            |            |            |
| Untreated  | -   | -             | 0                                   | 0          | 0          | 0          | 0          | 0          |
| Outlook + (Marksman)   | 21.0 fl oz + (3.5 pt)   | PRE + (EPOST) | 2                                   | 96         | 99         | 99         | 99         | 99         |
| G-Max Lite + (Distinct + NIS + AMS)                          | 3.5 pt + 4.0 oz wt + 0.25% + 5.0 lb/100 gal)                    | PRE + (MPOST) | 3                                   | 99         | 99         | 99         | 99         | 99         |
| Outlook + (Distinct + Prowl H2O + NIS + AMS)                 | 10.0 fl oz + (4.0 oz wt + 2.5 pt + 0.25% + 5.0 lb/100 gal)      | PRE + (MPOST) | 5                                   | 98         | 95         | 98         | 99         | 99         |
| Celebrity Plus + Prowl H2O + NIS + AMS                       | 4.67 oz wt + 2.5 pt + 0.25% + 5.0 lb/100 gal                    | MPOST         | 0                                   | 99         | 96         | 96         | 99         | 99         |
| Radius + Atrazine  | 25.0 fl oz + 1.0 qt   | PRE           | 0                                   | 90         | 88         | 92         | 95         | 96         |
| Balance Pro + (Option + Callisto + Atrazine + MSO + AMS)     | 1.5 fl oz + (1.5 oz wt + 1.5 fl oz + 1.0 pt + 1.5 pt + 1.5 lb)  | PRE + (MPOST) | 0                                   | 96         | 99         | 99         | 99         | 99         |
| Keystone + Hornet WDG  | 2.65 qt + 3.0 oz wt   | PRE           | 0                                   | 90         | 85         | 92         | 95         | 99         |
| Keystone + (Hornet WDG + Atrazine + COC + 28% UAN)           | 2.65 qt + (3.0 oz wt + 0.83 lb + 1.0% + 2.5%)                   | PRE + (MPOST) | 0                                   | 98         | 99         | 99         | 99         | 99         |
| FulTime + (Glyphomax + AMS)                                  | 2.25 qt + (2.0 pt + 2.5 lb)                                     | PRE + (MPOST) | 0                                   | 95         | 98         | 98         | 96         | 99         |
| Cinch ATZ + (Steadfast + Callisto + Atrazine + COC + AMS)    | 2.5 pt + (0.75 oz wt + 2.0 fl oz + 4.44 oz wt + 1.0 % + 2.0 lb) | PRE + (MPOST) | 0                                   | 99         | 99         | 99         | 99         | 99         |
| Steadfast + Callisto + Atrazine + COC + AMS                  | 0.75 oz wt + 2.0 fl oz + 26.7 oz wt + 1.0% + 2.0 lb             | EPOST         | 0                                   | 98         | 99         | 99         | 99         | 99         |
| Harness Xtra 5.6 SC + (Roundup WeatherMAX + AMS)             | 1.75 qt + (22.0 fl oz + 2.5 lb)                                 | PRE + (MPOST) | 0                                   | 95         | 99         | 98         | 96         | 99         |
| Lexar  | 3.5 qt  | PRE           | 0                                   | 96         | 96         | 98         | 98         | 99         |
| Lumax + (Lumax)  | 1.5 qt + (1.5 qt)   | PRE + (EPOST) | 0                                   | 96         | 99         | 99         | 99         | 99         |
| Bicep Lite II Magnum + (Callisto + Atrazine + COC + 28% UAN) | 1.5 qt + (3.0 fl oz + 0.556 lb + 1.0% + 2.5%)                   | PRE + (MPOST) | 2                                   | 98         | 99         | 99         | 99         | 99         |
| LSD (P=0.05)   |   |               | 2                                   | 3          | 4          | 4          | 2          | 1          |

<sup>a</sup> NIS = Activator 90, a nonionic surfactant from UAP - Loveland Industries; AMS = ammonium sulfate fertilizer from Agrilience, LLC; MSO = methylated seed oil plus surfactant from UAP - Loveland Industries; COC = Herbimax crop oil concentrate from UAP - Loveland Industries; 28% UAN = mixture of urea and ammonium sulfate from United Suppliers.

<sup>b</sup> % weed control = Setfa = giant foxtail, Abuth = velvetleaf, Amata = common waterhemp, Cheal = common lam'b squarers, Polpy = Pennsylvania smartweed.