

| Weed Situation | Amount of Product(s) per Acre | Remarks and Limitations |
|---|---|---|
| Conventional corn hybrids | | |
| PRE Programs Annual grass and broadleaf weeds | 2.3 qt. *†Harness Xtra or 2.3 qt. *†Keystone LA NXT | GROUP 5 and 15 HERBICIDES • Apply preemergence or early postemergence. If used postemergence, apply prior to the 2-leaf grass stage and before corn is 11 in. tall. *†Harness Xtra and *†Keystone LA NXT, and other acetochlor products are not for use in Nassau and Suffolk Counties. See label for special groundwater protection requirements. |
| | 3 pt. *†G-Max Lite | GROUP 5 and 15 HERBICIDES • Apply preemergence or early postemergence to corn up to 12 in. tall. *†G-Max Lite is not for use in Nassau and Suffolk Counties. |
| | 10-18 fl oz *†Verdict | GROUP 14 and 15 HERBICIDES • Apply prior to crop emergence. Application after emergence will cause crop injury. A postemergence treatment may be required for full-season weed control. Note that rates vary depending on soil texture. *†Verdict is not for use in Nassau and Suffolk Counties. |
| | 1.5 qt. *†Bicep Lite II Magnum or 1.5 qt. *†Cinch ATZ Lite | GROUP 5 and 15 HERBICIDES • Apply preemergence or early postemergence to corn up to 5 in. tall. A lower rate of *†Bicep Lite II Magnum or *†Cinch ATZ Lite should be used on sandy and/or low organic matter soils. *†Bicep Lite II Magnum and *†Cinch ATZ Lite are not for use in Nassau and Suffolk Counties. |
| | 1.5 qt. *†Bicep Lite II Magnum or 1.5 qt. *†Cinch ATZ Lite + 1 qt. *†Princep 4L | GROUP 5 and 15 HERBICIDES • Preemergence only. Use with heavy infestations of crabgrass or fall panicum. *Atrazine and (or) *†Princep carryover may injure triazine-sensitive rotational crops. *†Bicep Lite II Magnum and *†Cinch ATZ Lite are not for use in Nassau and Suffolk Counties. |
| | 2.7-3.25 qt. *†Lumax EZ | GROUP 5, 15 and 27 HERBICIDES • Apply preemergence or early postemergence before corn reaches 5 in. in height. Use the lower rate if soil organic matter content is less than 3 percent and the higher rate if soil organic matter content is 3 percent or greater. The addition of 1 pt./A of *atrazine will improve common ragweed control. *†Lumax EZ is not for use in Nassau and Suffolk Counties. |
| | 3.0-3.5 qt. *†Lexar EZ | GROUP 5, 15, AND 27 HERBICIDES • Apply preemergence or early postemergence before corn reaches 12 in. in height. Use 3 qt./A if soil organic matter is less than 3% and 3.5 qt./A if soil organic matter is 3% or greater. *†Lexar EZ provides twice as much *atrazine/A as *†Lumax EZ (see Table 3.7.6 for the amount of *atrazine at labeled rates of each product). This additional *atrazine should improve common ragweed control. *†Lexar EZ is not for use in Nassau and Suffolk Counties. |
| | 3 pt. Prowl H2O or 3.6 pt. Prowl 3.3 EC + 1 qt. *†Atrazine 4L ¹ | GROUP 3 and 5 HERBICIDES • Apply preemergence. Prowl should not be applied preplant incorporated for corn. Plant corn at least 1 1/2 in. deep in fields with adequate seedbed preparation to provide good coverage of the corn seed. Good choice if velvetleaf or triazine-resistant lambsquarters are problems. |
| POST Programs Emergent annual grass and broadleaf weeds | 1.5 oz. Steadfast Q + 4 fl. oz. Banvel or 4 fl. oz. Clarity or 4 fl. oz. DiFlexx | GROUP 2 and 4 HERBICIDES • Apply early postemergence with crop oil concentrate or nonionic surfactant and ammonium nitrogen fertilizer to hybrids with a relative maturity (RM) rating of 77 days or more. For best results, apply when annual weeds are 1-2 in. tall and before corn is 12 in. tall. A good choice if foxtails or fall panicum and annual broadleaf weeds have emerged. Not very effective against crabgrass. Rotational interval is 10 months or longer (depending on soil pH) for alfalfa, clovers, and several other crops. Do not apply Steadfast Q if corn was treated with Counter 15G (any application method). |
| | 0.75 fl. oz. Impact + 1 pt. *†Atrazine 4L | GROUP 27 and 5 HERBICIDES • Apply early postemergence with methylated seed oil (MSO) or crop oil concentrate and ammonium nitrogen fertilizer when annual weeds are 1 - 2 in. tall. May be tank mixed with half rates of preemergence herbicides shown above under PRE Programs for added residual weed control. Use COC if tank mixing with Prowl rather than MSO. Rotation interval following Impact application is 3 months for small grains and 9 months for alfalfa, peas, potatoes, and soybeans. |
| | 3 fl. oz. Laudis + 1 pt. *†Atrazine 4L | GROUP 27 and 5 HERBICIDES • Apply early postemergence with methylated seed oil (MSO) and ammonium nitrogen fertilizer when annual weeds are 1 - 3 in. tall. May be tank mixed with half rates of preemergence herbicides shown above under PRE Programs , except Prowl combinations, for added residual weed control. Rotation interval following Laudis application is 4 months for small grains, 8 months for soybeans, and 10 months for alfalfa, potatoes, and snap beans. |
| | 3 fl. oz. *†Capreno + 1 pt. *†Atrazine 4L | GROUP 2, 5, and 27 HERBICIDES • Apply early postemergence with crop oil concentrate and ammonium nitrogen fertilizer when annual weeds are 1 - 3 in. tall. Rotational interval is 4 months for wheat, 10 months for barley, soybeans and sweet corn, and 18 months for alfalfa, oats, and some other crops. |
| Problem Weed Quackgrass | 22-44 fl. oz. Roundup PowerMax or 24-48 fl. oz. Durango DMA or 24-48 fl. oz. Touchdown Total | GROUP 9 HERBICIDES • Apply these or other glyphosate products as a foliar spray in the spring or fall when quackgrass is at least 8 in. tall (4- to 5-leaf stage and actively growing). Fall applications should not be made in fields that have been tilled during the summer or mowed after August 15. Delay tillage for at least 3 days after spraying. The low rates may not provide long-term quackgrass control. |
| | 1.5 oz. Steadfast Q or 0.76 oz. *Beacon | GROUP 2 HERBICIDES • Apply postemergence when quackgrass is 4 to 8 in. tall and corn is between 4 and 20 in. A nonionic surfactant or a crop oil concentrate must be used. Do not apply Steadfast Q or *Beacon if corn was treated with Counter 15G (any application method). Rotational intervals for alfalfa and several other crops are 10 months or longer (depending on soil pH) for Steadfast Q and are 8 months for *Beacon. |
| Problem Weed Yellow nutsedge | 1.33-1.67 pt. *†Dual II Magnum + 1.67 qt. *†Atrazine 4L ¹ | GROUP 5 and 15 HERBICIDES • Apply preplant-incorporated. Use the high rate of *†Dual II Magnum on heavy (fine-textured) soils. *†Bicep II Magnum can be substituted for this tank mixture. Do not plant spring-seeded small grains or small-seeded legumes and grasses the year following application or injury may occur. *†Dual II Magnum is not for use in Nassau and Suffolk Counties. |
| | 0.66-1 oz. Permit | GROUP 2 HERBICIDE • Apply postemergence when nutsedge is 2-4 in. tall. A crop oil concentrate or a nonionic surfactant must be used. Rotational interval is 9 months for alfalfa, clovers, and several other crops. |
| Problem Weed Yellow nutsedge | 4-6 oz. Yukon | GROUP 2 and 4 HERBICIDES • Apply postemergence when nutsedge is 2-4 in. tall. A crop oil concentrate or a nonionic surfactant must be used. This pre-mix combination of halosulfuron (the active ingredient in Permit) and dicamba (the active ingredient in Banvel, Clarity, etc.) will provide better control of common lambsquarters, than Permit alone. Rotational interval is 9 months for alfalfa, clovers, and several other crops. |
| | 2.7-3.25 qt. *†Lumax EZ | GROUP 5, 15, and 27 HERBICIDES • Apply preemergence or early postemergence before corn reaches 5 in. in height. Use the lower rate if soil organic matter content is less than 3 percent and the higher rate if soil organic matter content is 3 percent or greater. The addition of 1 pt./A of *atrazine will improve common ragweed control. *†Lumax EZ is not for use in Nassau and Suffolk Counties. |
| Problem Weed Velvetleaf | 3.6 pt. Prowl 3.3 EC + 1 qt. *†Atrazine 4L ¹ | GROUP 3 and 5 HERBICIDES • Apply preemergence or early postemergence before corn is 12 in. tall. Do not apply postemergence treatments in liquid fertilizer or following preplant-incorporated. Plant corn at least 1 1/2 in. deep in fields with adequate seedbed preparation to provide good seed coverage. |
| | 1.0-1.5 pt. of 2 lb./gal. Buctril | GROUP 6 HERBICIDE • Apply early postemergence when velvetleaf is 2-4 in. tall and corn is in the 4- to 6-leaf stage. Bromoxynil may be tank mixed with low rates of *atrazine (1-2 pt./A) to increase activity. Will not control grasses, so should be used with preplant or preemergence herbicide combinations. |
| | 4-8 fl. oz. Banvel or 4-8 fl. oz. Clarity or 4-8 fl. oz. DiFlexx | GROUP 4 HERBICIDES • Apply early postemergence when velvetleaf is 1-2 in. tall. Will not control grasses, so should be applied to fields previously treated with preplant or preemergence herbicides. Do not apply after corn is 30 in. tall. |
| | 2 oz. *†Hornet WDG + 2 fl. oz. Banvel or 2 fl. oz. Clarity or 2 fl. oz. DiFlexx | GROUP 2 and 4 HERBICIDES • Apply early postemergence when weeds are 1-3 in. tall and corn from the spike stage to 20 in. tall. All applications of *†Hornet WDG must include 0.25% (v/v) nonionic surfactant or 1% (v/v) of crop oil concentrate. *†Hornet WDG is not for use in Nassau and Suffolk Counties. |
| | 0.8 fl. oz. Aim EC | GROUP 14 HERBICIDE • Apply postemergence for velvetleaf up to 18 in. tall. Use a nonionic surfactant at 2 pt./100 gal. (0.25% v/v) of spray solution. |
| | 4-6 fl. oz. Resource | GROUP 14 HERBICIDE • Use 4 oz./A for velvetleaf up to 5-leaf stage and 6 oz./A for velvetleaf up to 6-leaf stage. Apply with 1 pt./A crop oil concentrate. As a directed spray using drop nozzles, 8 oz./A will control velvetleaf up to 10-leaf stage. |
| Problem Weeds Triazine-resistant common lambs- quarters or smooth pigweed | 2.7-3.25 qt. *†Lumax EZ | GROUP 5, 15, and 27 HERBICIDES • Apply preemergence or early postemergence before corn reaches 5 in. in height. Use the lower rate if soil organic matter content is less than 3 percent and the higher rate if soil organic matter content is 3 percent or greater. The addition of 1 pt./A of *atrazine will improve common ragweed control. *†Lumax EZ is not for use in Nassau and Suffolk Counties. |
| | 3.6 pt. Prowl 3.3 EC + 1 qt. *†Atrazine 4L ¹ | GROUP 3 and 5 HERBICIDES • Apply preemergence or early postemergence until corn is 12 in. tall. Do not apply postemergence treatments in liquid fertilizer or following preemergence Prowl applications. Do not apply preplant-incorporated. Plant corn at least 1 1/2 in. deep in fields with adequate seedbed preparation to provide good seed coverage. |
| Problem Weeds Triazine-resistant common lambs- quarters, smooth pig- weed, or common ragweed | 4-8 fl. oz. Banvel or 4-8 fl. oz. Clarity or 4-8 fl. oz. DiFlexx | GROUP 4 HERBICIDE • Apply early postemergence when weeds are 1-2 in. tall. Will not control grasses, so should be applied to fields previously treated with preplant or preemergence herbicides. Do not apply after corn is 30 in. tall. |
| | 2 oz. *†Hornet WDG + 2 fl. oz. Banvel or 2 fl. oz. Clarity or 2 fl. oz. DiFlexx | GROUP 2 and 4 HERBICIDES • Apply early postemergence when weeds are 1-3 in. tall and corn from the spike stage to 20 in. tall. All applications of *†Hornet WDG must include 0.25% (v/v) nonionic surfactant or 1% (v/v) of crop oil concentrate. *†Hornet WDG is not for use in Nassau and Suffolk Counties. |
| Problem Weeds Triazine-resistant common lambs- quarters or common ragweed | 1-1.5 pt. of 2 lb./gal. Buctril | GROUP 6 HERBICIDE • Apply early postemergence when weeds are 2-4 in. tall and corn is in the 3- to 8-leaf stage. Will not control grasses, so should be used with preplant or preemergence combinations. |
| Problem Weeds Triazine-resistant common lambs- quarters or smooth pigweed | 3 fl. oz. Callisto | GROUP 27 HERBICIDE • Apply postemergence to weeds less than 5 in. tall. Add crop oil concentrate to spray solution at 1 gal./100 gal. (1.0% v/v) and 28% UAN at 2.5% (v/v) or AMS (ammonium sulfate) at 8.5 lb./100 gal. Corn may be treated up to 30 in. tall or up to the 8-leaf stage. |
| Problem Weeds Triazine-resistant smooth pigweed only | 2.3 qt. *†Harness Xtra or 2.3 qt. *†Keystone LA NXT | GROUP 5 and 15 HERBICIDES • Apply preemergence or early postemergence. If used postemergence, apply prior to the 2-leaf grass stage and before corn is 11 in. tall. *†Harness Xtra and *†Keystone LA NXT, and other acetochlor products are not for use in Nassau and Suffolk Counties. See label for special groundwater protection requirements. |
| | 3 pt. *†G-Max Lite | GROUP 5 and 15 HERBICIDES • Apply preemergence or early postemergence to corn up to 12 in. tall. *†G-Max Lite is not for use in Nassau and Suffolk Counties. |
| | 1.5 qt. *†Bicep Lite II Magnum or 1.5 qt. *†Cinch ATZ Lite | GROUP 5 and 15 HERBICIDES • Apply preemergence. A lower rate of Bicep Lite II Magnum should be used on sandy and/or low organic matter soils. *†Bicep Lite II Magnum and *†Cinch ATZ Lite are not for use in Nassau and Suffolk Counties. |
| Problem Weed Triazine-resistant common groundsel | 1-1.5 pt. of 2 lb./gal Buctril | GROUP 6 HERBICIDE • Apply early postemergence when weeds are 2-4 in. tall and corn is in the 3- to 8-leaf stage. Will not control grasses, so should be used with preplant or preemergence combinations. |
| Problem Weeds Broadleaf perennials: milkweed, field bindweed, hedge dogbane, horsenettle, Jerusalem artichoke | 8 fl. oz. Banvel or 8 fl. oz. Clarity or 8 fl. oz. DiFlexx | GROUP 4 HERBICIDES • Apply postemergence when weeds are at, or near the bud stage. Banvel will not control grasses, so should be applied to fields previously treated with preplant or preemergence herbicide combinations. This treatment may follow early postemergence Banvel applications used for broadleaf annual weeds and should be repeated 2 or 3 successive seasons for best results. Do not apply after corn is 30 in. tall. |
| Glyphosate-resistant (Roundup Ready) corn hybrids | | |
| Emergent grass and broadleaf weeds | 22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total | GROUP 9 HERBICIDES • For use with glyphosate-resistant (Roundup Ready) corn only. Apply these or other glyphosate products early postemergence in a tank mix with 50 percent of the labeled rate of an appropriate residual pre-mix or tank-mix combination when weeds are 2-4 in. tall unless the labeling specifically prohibits a dosage less than that specified on the labeling of the residual product(s). See above under PRE Programs for residual pre-mix or tank-mix combinations. |
| | 3.6-4 pt. *†Hallex GT + 1 pt. *†AAtrex 4L | GROUP 9, 15, and 27 HERBICIDES • Apply early postemergence when weeds are 2-4 in. tall until corn is 30 in. tall. *†Hallex GT + *†AAtrex 4L must be applied with a non-ionic surfactant and ammonium sulfate. *†Hallex GT and *†AAtrex 4L are not for use in Nassau and Suffolk Counties. |
| | 22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total + 1.25 oz. Resolve Q | GROUP 2 and 9 HERBICIDES • Apply Resolve Q with these or other glyphosate products early postemergence when weeds are 1-2 in. tall. If the glyphosate product contains a built-in adjuvant system, additional surfactant may not be needed. Rotation interval following Resolve Q application is 3 months for winter cereals, and 10 months for alfalfa, soybeans, and many other crops. |
| | 22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total + 4 oz. Realm Q | GROUP 2, 9, and 27 HERBICIDES • Apply Realm Q with these or other glyphosate products early postemergence when weeds are 1-2 in. tall. If the glyphosate product contains a built-in adjuvant system, additional surfactant may not be needed. Rotation interval following Realm Q application is 4 months for winter cereals, and 10 months for alfalfa, soybeans, and many other crops. |
| Problem Weed Quackgrass Pre-plant approach | 22-44 fl. oz. Roundup PowerMax or 24-48 fl. oz. Durango DMA or 24-48 fl. oz. Touchdown Total | GROUP 9 HERBICIDES • Apply these or other glyphosate products as pre-plant foliar sprays in the spring or fall when quackgrass is at least 8 in. tall (4- to 5-leaf stage and actively growing). Fall applications should not be made in fields that have been tilled during the summer or mowed after August 15. Delay tillage for at least 3 days after spraying. The low rates may not provide long-term quackgrass control. |
| Problem Weed Wirestem muhly | 22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total | GROUP 9 HERBICIDES • For use with glyphosate-resistant (Roundup Ready) corn only. Apply 50 percent of the labeled rate of an appropriate residual pre-mix or tank-mix combination preemergence to suppress annual weeds unless the labeling specifically prohibits a dosage less than that specified on the labeling of the residual product(s). Follow with a postemergence application of glyphosate when wirestem muhly is 8 in. tall and corn is no more than 30 in. tall. |
| Problem Weed Yellow nutsedge, emerged grass and broadleaf weeds | 22 fl. oz. Roundup PowerMax or 24 fl. oz. Durango DMA or 24 fl. oz. Touchdown Total + 0.33-0.66 oz. Permit or 2-4 oz. Yukon | GROUP 2, 4, and 9 HERBICIDES • Apply postemergence when nutsedge and other weeds are 2-4 in. tall. |
| Liberty Link Corn Hybrids | | |
| Emergent annual grass and broadleaf weeds | 22 fl. oz. †Liberty 280 SL + 1.5 pt. *†Atrazine 4L | GROUP 5 and 10 HERBICIDES • For use with Liberty Link corn only. Apply early postemergence when annual weeds are 2 to 4 in. tall. †Liberty 280 SL must be applied between dawn and 2 hours before sunset with a spray grade AMS (ammonium sulfate) at 3 lb./A. Tank mixes with reduced (half) rates of other residual herbicides may be desirable depending on weed spectrum. |

¹One qt. of *†Atrazine 4L is equivalent to 1.11 lb. *AAtrex 90.

*Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the direct supervision of a certified applicator.

†Not for use in Nassau and Suffolk Counties.

• Refer to Section 3.7.3 for information on herbicide resistance management and site of action groups.