

CORN

ESTIMATED LEVELS OF WEED CONTROL NORMALLY EXPECTED¹

| Herbicides | Crabgrass | Broadleaf signalgrass | Fall panicum | Goosegrass | Johnsongrass rhizome | Johnsongrass seedling | Ryegrass | Annual sedge | Purple nutsedge | Cocklebur | Horseweed | Lambsquarter | Morningglory | Pigweeds | Hemp Sesbania | Prickly sida (teaweed) | Sicklepod |
|---|-----------|-----------------------|--------------|------------|----------------------|-----------------------|----------|--------------|-----------------|-----------|-----------|--------------|--------------|----------|---------------|------------------------|-----------|
| Preplant PPF | | | | | | | | | | | | | | | | | |
| Clarity | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 9 | * | 9 | 9 | 8 | 9 | 8 | 8 |
| Gramoxone Inteon | 9 | 9 | 9 | 9 | 0 | 9 | 6 | 9 | 0 | 9 | 5 | 9 | 5 | 9 | 6 | 4 | 7 |
| Glyphosate | 9 | 9 | 9 | 8 | 4 | 9 | 6 | 9 | 7 | 9 | 9 | 9 | 8 | 9 | 6 | 8 | 9 |
| 2,4-D | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 4 | 2 | 9 | * | 9 | 9 | 9 | 9 | 8 | 8 |
| Preemergence | | | | | | | | | | | | | | | | | |
| Atrazine | 9 | 5 | 4 | 6 | 0 | 4 | * | 4 | 2 | 9 | * | 9 | 8 | 9 | 7 | 8 | 8 |
| Bicep II Magnum, Guardsman Max, Harness Xtra, or Fultime | 9 | 8 | 8 | 9 | 0 | 8 | * | 7 | 3 | 6 | * | 9 | 6 | 9 | 6 | 8 | 6 |
| Dual II Magnum, Outlook, Harness, or Surpass | 9 | 7 | 9 | 9 | 4 | 6 | * | 8 | 3 | 0 | * | 6 | 0 | 8 | 2 | 4 | 5 |
| Prowl/Pendimax | 8 | 6 | 8 | 7 | 4 | 7 | * | 0 | 0 | 0 | 0 | * | 0 | 8 | 0 | 0 | 0 |
| Simazine | 8 | 5 | 6 | 7 | 0 | 4 | 9 | 2 | 0 | 9 | 3 | 9 | 7 | 9 | - | 9 | 8 |
| Postemergence Over-the-top | | | | | | | | | | | | | | | | | |
| Accent | 5 | 8 | 7 | * | 8 | 9 | 8 | 3 | * | 5 | * | 5 | 6 | 8 | 7 | 4 | 5 |
| Atrazine + Surfactant | 7 | 6 | 4 | 5 | 0 | 3 | * | 6 | 2 | 9 | * | 8 | 8 | 8 | 6 | 8 | 7 |
| Atrazine + oil | 8 | 7 | 5 | 6 | 0 | 3 | * | 6 | 2 | 9 | * | 9 | 8 | 9 | 7 | 9 | 8 |
| Atrazine or Dual II Magnum ² | 6 | 5 | 4 | 6 | 0 | 4 | * | 5 | 2 | 8 | * | 8 | 8 | 8 | 6 | 7 | 8 |
| Basagran | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 2 | 9 | * | 0 | 3 | 3 | 4 | 8 | 1 |
| Beacon | 3 | 0 | 7 | 4 | 7 | 9 | 7 | 7 | 4 | 8 | * | 7 | 6 | 8 | 4 | 6 | 7 |
| Buctril | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 9 | * | 9 | 8 | 6 | 8 | 5 | 4 |
| Clarity | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 9 | * | 9 | 9 | 8 | 9 | 8 | 8 |
| Clarity + 2,4-D | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 9 | * | 8 | 8 | 8 | 6 | 7 | 7 |
| 2,4-D | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 4 | 2 | 9 | * | 9 | 9 | 9 | 9 | 8 | 8 |
| Glyphosate (RR only) | 9 | 9 | 9 | 9 | 7 | 9 | 7 | 9 | 7 | 9 | 9 | 9 | 8 | 9 | 7 | 8 | 9 |
| Ignite 280 (LLink only) | 9 | 9 | 9 | 8 | 9 | 5 | 9 | 8 | 4 | 9 | - | - | 9 | 7 | 9 | 9 | 9 |
| Halex GT (RR only) | 9 | 9 | 9 | 9 | 9 | 9 | 6 | 8 | 8 | 10 | 7 | 8 | 8 | 9 | 8 | 9 | 9 |
| Lexar | 9 | 9 | 8 | 9 | 2 | 8 | 7 | 8 | 7 | 10 | 8 | 9 | 9 | 9 | 8 | 9 | 8 |
| Postemergence - Directed | | | | | | | | | | | | | | | | | |
| Evik | 9 | 9 | 8 | 8 | 0 | 8 | - | - | 3 | 4 | - | - | 5 | 8 | 1 | 4 | 8 |
| Gramoxone Inteon | 8 | 9 | 8 | 8 | 0 | 8 | * | 5 | 2 | 8 | * | 8 | 8 | 8 | 5 | 8 | 7 |
| Linex/Lorox | 8 | 8 | 8 | 7 | 0 | 6 | * | 5 | 2 | 7 | * | 9 | 8 | 8 | 8 | 8 | 8 |
| Preharvest | | | | | | | | | | | | | | | | | |
| 2,4-D | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 4 | 2 | 9 | * | 9 | 9 | 9 | 9 | 8 | 8 |
| Glyphosate | 9 | 9 | 9 | 8 | 8 | 9 | 9 | 9 | 7 | 9 | 8 | 9 | 8 | 9 | 6 | 8 | 9 |
| Aim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | - | 7 | 8 | 8 | - | - | 0 |

¹Rating scale: 0-3 none to slight; 4-6 fair; 7-8 good; 9-10 excellent. Ratings assume the herbicides are applied in the manner suggested in the guidelines and according to the label under optimum growing conditions.

²Tank mix rating not premix.

*Data not available

See vegetable section for sweet corn recommendations.

Consult labels for approved adjuvants.

Weed resistance to recommended use-rates of certain herbicides has been documented in Mississippi — SEE PAGE 9.

ROTATIONAL CROP RESTRICTIONS

| Corn herbicides | Rotation interval ¹ | | | | | |
|------------------------------|--------------------------------|----------------------|----------------------|----------------------|-------|----------------------|
| | COTTON | GRAIN SORGHUM | RICE | SOYBEANS | WHEAT | OTHER GRAINS |
| Accent | 10 m | 10/18 m ² | 10/18 m ³ | 15 d | 4 m | 4 m ⁴ |
| Atrazine ⁵ | ns | none | 2 yr | ns ⁶ | 1 y | 1 y ⁷ |
| Basagran | none | none | none | none | none | none |
| Beacon | 8 m | 8 m ⁸ | 8 m | 8 m | 3 m | 3 m ⁹ |
| Bicep II Magnum ⁵ | ns | none ¹⁰ | 15 m | ns | 15 m | 15 m |
| Buctril | 180 d | 30 d | 180 d | 180 d | 30 d | 180 d |
| Bullet/Lariat | 2 y | ns | 2 y | ns ¹¹ | 2 y | 2 y |
| Clarity ¹² | none | none | none | none | none | none |
| Diuron | | | | | | |
| PRE, banded | none | none | 4 m | 4 m | 4 m | 4 m |
| PRE, broadcast | none | none | 6 m | 6 m | 6 m | 6 m |
| POE | none | none | 1 y | 1 y | 1 y | 1 y |
| Dual II Magnum | none | none | spring | none | 4.5 m | 4.5 m |
| Evik | ns | ns | ns | ns | fall | fall |
| Exceed | 10 m | 10 m | 10 m | 10 m | 3 m | 3 m |
| Guardsman Max | ns | ns | 2 yr | ns ⁶ | 1 y | 1 y ⁷ |
| Gramoxone Inteon | none | none | none | none | none | none |
| Harmony Extra | 60 d | 60 d | 60 d | 60 d | none | 60 d ¹³ |
| Harness | 2 yr | ns | 2 yr | ns | ns | 2 yr |
| Harness Xtra | 2 yr | ns | 2 yr | ns | ns | 2 yr |
| Hornet | 18 m | 12 m | 6 m | 10.5 m | 4 m | 4 m |
| Lasso | none | none | none | none | none | none |
| Lightning | 18 m ¹⁴ | 18 m | 40 m | 8.5 m | 4 m | 4 m ¹⁵ |
| Lorox | 4 m | 4 m | 4 m | 4 m | 4 m | 4 m ¹⁶ |
| Marksman ⁵ | ns | none | ns | ns ⁶ | 10 m | 10 m |
| Outlook | ns | ns | ns | none | 4 m | 4 m |
| Permit | 2 y | none | 2 y | 10 m | 3 m | 2 y |
| Prowl | none | none | none | none | 4 m | ns ^{17, 18} |
| Pursuit | 18 m | 18 m | 40 m | none | 4 m | 18 m ¹⁹ |
| Glyphosate | none | none | none | none | none | none |
| Scorpion III | 18 m | 12 m | 6 m | 10.5 m ¹⁶ | 4 m | 4 m |
| Surpass | 2 yr | spring | 2 yr | spring | 4 m | 2 yr |
| Fultime ¹⁹ | 2 yr | spring | 2 yr | spring | 15 m | 2 yr |
| 2,4-D | 3 m | none | none | none | none | none |
| Equip | 9 m ²⁰ | 9 m | 18 m | 9 m | 2 m | 18 m |
| Option | 60 d | 60 d | 60 d | 14 d | 60 d | 60 d |

¹d,m,y, spring, fall, and ns indicate days after application, months after application, years after application, spring following application, fall following application, and next season, respectively. PRE and POE indicate preemergence and postemergence applications, respectively.

²Grain sorghum may be planted 10 months after Accent application on soils with pH 7.5 or less. If soil pH is greater than 7.5, do not plant grain sorghum less than 28 months after application.

³Rice may be planted 10 months after Accent application on soils with pH 6.5 or less. If soil pH is greater than 6.5, do not plant rice less than 18 months after application.

⁴Winter wheat and barley may be planted 4 months after Accent application. Oats may be planted 8 months after Accent application.

⁵If applied after June 10, do not rotate to any crop other than corn or grain sorghum the year following application, or injury may occur.

⁶Injury may occur to soybeans planted in soils with a calcareous surface layer.

⁷Do not plant spring-seeded small grains the year following application or injury may occur.

⁸Injury may occur if dry weather prevails between application and sorghum seeding.

⁹Injury may occur if dry weather prevails between application and grain seeding. Spring-seeded grain crops require 8 months between Beacon application and seeding.

¹⁰Replant only with Concept-treated or Screen-treated seed.

¹¹If soybean or other nonlabeled crops are planted, injury may occur. Do not plant soybeans where furrow irrigation was used.

¹²No rotation interval exists if the treated crop was harvested normally.

¹³Barley or oats may be replanted immediately. Other grains require 60 days before planting.

¹⁴Cotton may be replanted 9.5 months after application if soil texture is sandy loam or loamy sand and 16 inches or more irrigation or rainfall occurs after application and before October.

¹⁵Wheat and rye may be planted 4 months after application, and oats may be planted 18 months following application.

¹⁶Only barley, oats, rye, and wheat may be replanted.

¹⁷Do not plant wheat or barley until next season if rhizome johnsongrass or red rice control or itchgrass suppression rates are applied.

¹⁸In areas of low moisture (<15 in/yr) and low organic matter (<2%), do not plant soybeans for 18 months after Scorpion III application.

¹⁹Barley may be planted 9.5 months after application; Rye may be planted 4 months after application.

²⁰Planting of cotton must wait 18 months when soil pH is greater than 7.5 and when less than 15" of annual precipitation has occurred from an application of Equip corn herbicide.

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

Preplant Foliar

| | | | | |
|------------------------------------|---|------------------------------------|---|--|
| dicamba at 0.25 lb/A | Clarity 4SL — 0.5 pt/A | Preplant for vegetation knockdown. | Broadleaf weeds. | Reduced tillage production systems only. |
| glyphosate at 0.37 to 1.25 lb ae/A | See table on pages 5-6 for glyphosate rates. | Preplant for vegetation knockdown. | Horseweed, barnyard-grass, johnsongrass, and other weeds. | Consult label to determine rates for weeds and growth stages and to determine if a surfactant is needed. |
| paraquat at 0.5 to 1 lb/A | Gramoxone Inteon — 2 to 4 pt | Preplant for vegetation knockdown. | Many annual weeds. Poor on horseweed. | Add 0.25%, by volume, nonionic surfactant. Consult label to determine rates for weeds and growth stages. |
| 2,4-D at 0.475 to 0.95 lb/A | 3.8 lb/gal — 1 to 2 pt or 5.7 lb/gal — 0.67 to 1.3 pt | 7-14 days before planting. | Broadleaf weeds. | Do not use on sandy soils. |

Preemergence

| | | | | |
|-------------------------------|--|---|---|---|
| acetochlor at 0.8 to 2.4 lb/A | Harness — 1.25 to 3 pt or Surpass EC — 1 to 3 pt. See tables below. | Up to 30 days before planting, preplant incorporated, pre-emergence, or after planting but before corn emergence. | Annual grasses, many small-seeded broadleaf weeds, and yellow nutsedge. | Use higher rates on reduced or no-till systems. Do not use on sweet corn. Do not apply by air or when environmental conditions favor off-target movement. If stand failure occurs, replant corn but do not make a second application of Surpass or Harness. |
|-------------------------------|--|---|---|---|

| Soil texture | Surpass rate (pt/A) ¹ | |
|--------------|----------------------------------|-----------------|
| | Conventional | Reduced/no-till |
| coarse | 1-2.5 | 2 |
| medium | 1.5-2.5 | 2-2.5 |
| fine | 1.5-2.75 | 3 |

| Soil texture | Harness rate (pt/A) ¹ | |
|--------------|----------------------------------|-----------------|
| | Conventional ² | Reduced/no-till |
| coarse | 1.25-1.75 | 1.5-2 |
| medium | 1.75-2.25 | 2.25-2.75 |
| fine | 1.75-2.25 | 2.75-3 |

¹Rates given for soils with 3% or less organic matter. Use lower rates for sparse weed populations and higher rates for dense weed populations.

¹Use higher rates in areas with dense weed infestation.

²Rates for soils with 3% or less organic matter.

| | | | | |
|---|---|---|--|--|
| acetochlor at 0.8 to 2.4 lb/A + atrazine at 0.8 to 1.3 lb/A | Fultime — 1.6 to 3.3 qt or Harness Xtra — 1.4 to 3 qt. See tables below. | At planting or before crop or weed emergence. | Same as above plus other broadleaf weeds controlled by atrazine. | Do not apply by air. Do not use on sweet corn. |
|---|---|---|--|--|

| Soil texture | Fultime rates (qt/A) ¹ | | |
|--------------|-----------------------------------|-----------------------------|----------------------------------|
| | Conventional tillage ² | Reduced/no-tillage | |
| | | 14 or more DBP ³ | less than 14 DBP or preemergence |
| coarse | 1.6 | do not apply | 1.6-2.2 |
| medium | 1.6-2.2 | 2.6-3.3 | 2.2-2.6 |
| fine | 2.2-2.6 | 3.3 | 2.6-3.3 |

| Soil texture | Harness Xtra rates (qt/A) | |
|--------------|---------------------------|---------------------|
| | < 3% Organic matter | ≥ 3% Organic matter |
| coarse | 1.4 | 1.7 |
| medium | 1.7-2.4 | 2.3-2.6 |
| fine | 2.3-2.6 | 2.3-3 |

¹Use high rates for dense weed populations.

²Rates for soils with 3% or less organic matter.

³DBP indicates days before planting.

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

atrazine at 2 lb/A 4 lb/gal — 2 qt or 90DF — 2.2 lb At planting. Most small-seeded annual weeds and grasses. Broadleaf signalgrass control poor. Atrazine is a restricted use pesticide. Do not exceed 2 pounds of active ingredient per acre per year. See label for additional restrictions.

atrazine at 1 to 1.3 to 1.6 lb/A + metolachlor at 0.8 to 1 to 1.6 lb/A Bicep II Magnum — 1.3 to 1.6 to 2.1 qt or tank mix 1 to 1.33 to 1.67 pt Dual II Magnum plus 1 to 1.3 to 1.6 qt atrazine 4L or equivalent rates of other atrazine formulations. At planting. Most small-seeded annual grasses and broadleaf weeds, including broadleaf signalgrass. Apply broadcast or on band behind press wheel before corn emerges. See atrazine pre-emergence for restrictions.

dicamba at 0.25 lb/A Clarity 4SL — 0.5 pt/A At planting. Apply only to medium- or fine-textured soils that contain 2% or greater organic matter. **Do not** apply to coarse-textured soils after crop emergence.

dimethenamid at 0.6 to 0.8 lb/A Outlook 6EC — 12 to 18 oz in 2 or more gal water to obtain coverage At planting. Most small-seeded annual grasses and broadleaf weeds, including broadleaf signalgrass. This treatment provides poor control of most large-seeded broadleaf weeds. See label for tank mixtures.

dimethenamid at 0.5 to 0.8 lb/A + atrazine at 1 to 1.7 lb/A Guardsman Max — 2.5 to 4 pt in 2 or more gal water to obtain coverage At planting. Many annual grasses, broadleaf weeds, yellow nutsedge, and rice flatsedge. Soil cation exchange capacity (CEC) value is the preferred method of rate selection. However, soil texture can be used. If used in no-till system with heavy residue, or if soil organic matter content is greater than 3%, increase the application rate by 0.5 pint per acre. **Do not** exceed 4.6 pints per acre per season. Corn may be grazed or fed to livestock 40 or more days after application.

| Soil texture ¹ | Guardsman rate (pt/A) |
|---------------------------|-----------------------|
| Coarse | 2.5 - 3 |
| Medium or Fine | 3 - 4 |

¹Rates given are for soils with less than 3% organic matter.

metolachlor at 0.8 to 1.6 lb/A Dual II Magnum — 1 to 1.67 pt. At planting. Most annual grasses and small-seeded broadleaves. Partial control of seedling johnsongrass. For soils with 3% or more organic matter, increase rates by 0.5 pint per acre. This treatment provides poor control of most large-seeded broadleaves.

pendimethalin at 0.75 to 1.5 lb/A Prowl/Pendimax 3.3EC — 1.8 to 3.6 pt or Pentagon 60DF — 1.25 to 2.5 lb At planting. Most small-seeded annual weeds and grasses. See label for tank mixtures. This treatment provides poor control of signalgrass and most large-seeded broadleaf weeds.

simazine at 2 to 3 lb/A 4L — 4 to 8 pt or 90DF — 2.2 to 4.4 lb Preplant or preemergence. Most annual grasses and small-seeded broadleaves. Till soil in fall to minimize carryover potential to rotational crops.

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

**Postemergence
Over-the-top**

| | | | | |
|--|--|---|--|--|
| atrazine at 2 lb/A | 90DF — 2.2 lb or 4 lb/gal — 2 qt | After corn has emerged and before weeds and grasses are 1.5 inches tall. | Most annual weeds and grasses, except broadleaf signalgrass, fall panicum, and seedling johnsongrass. | Atrazine is a restricted-use pesticide. This treatment may be applied overhead as an early posttreatment to corn less than 12 inches tall. Do not exceed 2.5 pounds of active ingredient per acre per year. Do not apply when corn is under stress from cold or excess rain. Do not apply more than once per season. Application with insecticides, herbicides, liquid fertilizers, or other materials is not recommended because they may cause compatibility problems or crop injury. |
| atrazine at 2 lb/A + crop oil concentrate | 90DF — 2.2 lb or 4 lb/gal — 2 qt + 1 qt crop oil concentrate | After weeds and grass germinate but before they are 1.5 inches tall. | Most annual broadleaf weeds and grasses; only partial control of broadleaf signalgrass, fall panicum, and seedling johnsongrass. | This treatment may be applied overhead. Do not apply when corn is under stress from cold or excessive rain. See atrazine postemergence for restrictions. |
| atrazine at 1 to 1.3 to 1.6 lb/A + metolachlor at 0.8 to 1 to 1.6 lb/A | Bicep II Magnum — 1.3 to 1.6 to 2.1 qt or tank mix 1 to 1.33 to 1.67 pt Dual II Magnum + 1 to 1.3 to 1.6 qt atrazine 4L or equivalent rates of other atrazine formulations | Before weeds and grasses reach 1.5 inches tall and before corn exceeds 12 inches tall. | Most annual weeds and grasses. | See atrazine comments above. |
| bentazon at 0.75 to 1 lb/A | Basagran — 1.5 to 2 pt as an over-the-top spray | Apply early post to rapidly growing cocklebur with 2 to 10 leaves. | Cocklebur, small prickly sida, smartweed, and ragweed; suppresses yellow nutsedge. | Use the low rate for small cocklebur and the high rate for 6- to 10-leaf cocklebur. Control may be poor if applied under drought stress. It is useful for controlling cocklebur in areas with 2,4-D-sensitive crops. Rainfall within 8 hours after application may reduce effectiveness. One repeat application may be made. |
| bromoxymil at 0.25 to 0.375 lb/A | Buctril 2EC 1 to 1.5 pt/A. Buctril 4EC — 0.5 to 0.75 pt/A. On larger weeds, tank mix with 0.5 lb ai/A atrazine. | Apply to corn after emergence but prior to tassel emergence. | Cocklebur, smartweed, and lambsquarter in seedling stage. | Use tank mix for morningglory and pigweed control. Under some environmental conditions, leaf tip burn may be associated with the 4 EC formulation. |
| carfentrazone 0.008 lb/A | Aim 2 EC — 0.5 oz | Apply from 30 days prior to planting up to 8-leaf collar growth stage. Weeds should be larger than 4 inches tall or 3 inches in diameter if in a rosette. | Morningglories and pigweeds. | For seed production fields, apply post directed only using drop nozzles. Do not apply more than 1.9 ounces per acre of Aim 2EC (0.031 pound of active ingredient per acre) per season. Use a nonioninc surfactant at 0.25% v/v. Under dry conditions, a crop oil concentrate (COC) may improve weed control. The use of COC may increase crop injury. |
| dicamba at 0.25 to 0.5 lb/A | Clarity 4SL — 0.5 to 1 pt/A | Before corn is 36 inches tall or until 15 days before tassels emerge, whichever occurs first. | Most broadleaves. | May be applied overhead. Do not apply to sweet corn or popcorn. Do not make more than one application per season. Use the high rate before corn reaches 8 inches tall or exceeds the 5-leaf stage. Use the low rate if corn is greater than 8 inches tall. |

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

dicamba at 0.125 to 0.25 lb/A + 2,4-D at 0.25 to 0.50 lb/A

Clarity — 0.25 to 0.5 pt plus 2,4-D 4 lb/gal — 0.5 to 1 pt

See special instructions.

Most broadleaves.

May be applied overhead before corn is 8 inches high. Use drop nozzles to direct spray to lower parts of the corn plant if taller than 8 inches.

foramsulfuron 0.53 - 0.61 oz ai/A

Option 35 WDG 1.5 to 1.75 oz

Apply post-emergence over the top to corn up to 16 inches tall or up to V6 stage, whichever is more restrictive. Use drop nozzles when corn is 16-36 inches tall.

Annual and perennial grass weeds.

Option may cause temporary yellowing or stunting of corn plants, but they usually recover quickly. Methylated or ethylated seed oil (1.5 pints per acre), with 10% emulsifier or greater, in combination with nitrogen fertilizer (1.5 to 2 quarts per acre of UAN or 1.5 to 3 pounds per acre of AMS), is the recommended adjuvant type to provide optimum weed control (See label). **Do not use** Option in the same season as Counter 15G, Counter 20CR, Dyfonate, and Thimet. **Do not make** foliar applications of an OP insecticide within 7 days of an Option application. **NOTE:** In johnsongrass fields, apply only to virus-tolerant hybrids. **Do not use** on sweet corn.

foramsulfuron + iodosulfuron-methyl-sodium 0.45 + 0.03 oz ai/A

Equip 32 DG 1.5 oz

Apply post-emergence over the top to corn up to 12 inches tall or up to V4 stage, whichever is more restrictive. Use drop nozzles when corn is 12-36 inches tall.

Annual and perennial grass and broadleaf weeds.

Equip may cause temporary yellowing or stunting of corn plants, but they usually recover quickly. Methylated or ethylated seed oil (1.5 pints per acre), with 10% emulsifier or greater, in combination with nitrogen fertilizer (1.5 to 2 quarts per acre of UAN or 1.5 to 3 pounds per acre of AMS), is the recommended adjuvant type to provide optimum weed control (See label). **Do not use** Equip in the same season as Counter 15G, Counter 20CR, Dyfonate, and Thimet. **Do not make** foliar applications of an OP insecticide within 7 days of an Option application. **NOTE:** In johnsongrass fields, apply only to virus-tolerant hybrids. **Do not use** on sweet corn.

For Use Only on Liberty Link Hybrids.

glufosinate at 0.4 lb/A

Ignite 280 — 22 fl oz

From corn emergence to V5 growth stage.

Most annual grasses and broadleaf weeds.

Do not apply when wind causes drift to desirable vegetation. **Do not** apply more than two applications per year. Sequential applications should be at least 10–14 days apart. **Do not** exceed 44 ounces per growing season. **Do not** apply within 70 days of harvest. **Do not** add surfactant, and **do not** use nitrogen solutions as spray carriers.

For Use Only on Roundup Ready 2 Hybrids.

glyphosate 0.56 to 0.75 lb ae/A

See glyphosate table on pages 5-6 for rates.

Apply over the top up to the V8 stage or until corn reaches 30 inches, whichever comes first.

Postemergence control of most annual broadleaf and grass weeds, including johnsongrass.

The use of a residual herbicide in the weed control program is usually necessary to obtain optimum control. Single in-crop applications must not exceed 32 ounces per acre (3ae) or 22 ounces per acre (4.5 ae). Sequential applications may be made, but do not exceed a total of 64 ounces per acre (3 ae) or 44 ounces per acre (4.5ae) per season over the top. Allow a minimum of 10 days between applications. Avoid planting hybrids with little or no tolerance to the stunt virus complex in areas heavily infested with johnsongrass. This treatment may be tank mixed with atrazine (up to 12-inch-tall corn) for residual control. See label for other tank mixes. Avoid spraying under conditions that favor drift. Consult the label for restrictions.

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

| | | | | |
|--|--|---|--|---|
| halosulfuron at 0.032 to 0.063 lb/A | Permit 75DF — 0.67 to 1.33 oz/A + 0.25% nonionic surfactant or 1% crop oil concentrate | Anytime between spike and layby, but at least 30 days before harvest. | Nutsedge, cocklebur, and pigweed. | This treatment may be applied with liquid fertilizer, but fertilizer should not be the total carrier because injury may occur. Do not make more than two applications per season or exceed 2.67 ounces per acre per season. |
| mesotrione + atrazine 0.094 + 0.25 lb/A | Callisto 4L — 3 oz (Mesotrione) plus Atrazine 4L — 8 oz | Apply over the top of corn up to 12 inches tall. | Morningglories, cocklebur, pigweeds, and several other broadleaf species. | Do not apply to corn treated with soil applications of Counter or Lorsban. Severe corn injury may occur if any organophosphate or carbamate insecticide is applied foliar postemergence within 7 days before or after Callisto. Use a crop oil concentrate at 1% v/v. Do not use methylated seed oil (MSO) or MSO blend adjuvants as crop injury may occur. Do not exceed two applications per year. NOTE: Without atrazine, Callisto may be applied to corn up to 30 inches tall. |
| 2,4-D at 0.24 to 0.72 lb/A | 2,4-D amine — 0.5 to 1.5 pt of 3.8 lb/gal | See special instructions. | Broadleaf weeds. | Direct spray below whorl of corn plants taller than 8 inches. |
| mesotrione + atrazine + s-metolachlor at 0.093 to 0.168 lb/A + 0.72 to 1.31 lb/A + 0.72 to 1.31 lb/A | Lexar — 1.67 to 3 qt/A. Add 0.25% nonionic surfactant for postemergence application. | Preemergence or early postemergence until corn is 12 inches tall. | Most broadleaves and annual grasses. | Do not apply postemergence within 7 days of any organophosphate or carbamate insecticide application. |
| mesotrione + glyphosate + s-metolachlor at 0.094 lb/A + 0.94 lb ae/A + 0.94 lb/A | Halex GT — 3.6 pt/A. Add 0.25% nonionic surfactant. | Early postemergence until corn is 12 inches tall. | Most broadleaves and grasses. | Do not apply postemergence within 7 days of any organophosphate or carbamate insecticide application. |
| primisulfuron at 0.3 to 0.6 oz/A | Beacon — 0.38 to 0.76 oz + 0.25% nonionic surfactant or 1 to 4 pt/A crop oil concentrate (may be applied once or sequentially) | See special instructions. Apply when corn is 4 to 20 inches tall and rhizome johnsongrass is 8 to 16 inches tall. | Johnsongrass and other annual weeds. Poor on broadleaf signalgrass. Use the low rate for control of small broadleaf weeds. | The product is packaged in water-soluble packages. Each package treats 2 acres at 0.76 ounce of product per acre. Do not apply to drought-stressed corn. Do not apply to corn if the insecticide Counter is applied any time during the season. Do not apply if a foliar-applied organophosphate insecticide is used within 10 days. Do not irrigate within 4 hours after application. Consult the label for “potentially susceptible” corn hybrids, such as Pioneer 3085. Do not graze or feed treated forage to livestock within 30 days after treatment. Do not harvest silage within 45 days or grain within 60 days after treatment. |

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

nicosulfuron at 0.5 oz/A

Accent 75DF — 0.67 oz + 0.25% nonionic surfactant or 1% crop oil concentrate

See special instructions. Apply when corn is in 2- to 6-leaf growth stage.

Johnsongrass and other annual weeds.

Applications at later stages should be made with drop nozzles to rhizome johnsongrass (8 to 18 inches) and to broadleaf signalgrass (1 to 2 inches). Consult the label for additional weeds and growth stages. Split applications may be used, but the combined dosage must not exceed 1.33 ounces of Accent per acre. **Do not apply** when corn or weeds are stressed by drought or other problems. **Do not apply** to corn treated with Counter or soil-applied organophosphate insecticides. **Do not apply** to corn treated with foliar-applied insecticides, such as Lorsban, malathion, and parathion, or with the herbicides Basagran, Laddock, and Tandem. **Do not apply** these pesticides within 3 days after Accent application. (See label for IR corn.) **Consult the label** for restrictions and precautions. **Do not graze** or feed treated forage or grain to livestock within 30 days after application.

nicosulfuron + rimsulfuron @ 0.023 + 0.012 lb/A

Steadfast 75 DG 0.75 oz/A

Apply postemergence to corn that is up to 20 inches tall and exhibiting up to and including 6 leaf collars. In order to optimize control, apply to 1- to 2-inch weeds.

Annual grass and broadleaf weeds.

Applications of Steadfast must include either a crop oil concentrate or a nonionic surfactant. In addition, an ammonium nitrogen fertilizer must be used unless specifically prohibited by tank mix partner labeling. Do not make more than one application of Steadfast per cropping season. **Do not apply** to field corn grown for seed, to popcorn, or to sweet corn. **Do not use Steadfast** in the same year as Counter 15G, Counter 20CR, Dyfonate, Lorsban, and Thimet. **See label** for other insecticide and application restrictions.

Postemergence - Directed

ametryn at 0.6 to 1.6 lb/A

Evik 80W — 0.75 to 2 lb. Add 0.5% surfactant.

After smallest corn is at least 12 inches tall.

Annual grasses and broadleaves, particularly broadleaf signalgrass.

Use directed spray at base of plants to avoid as much leaf contact as possible. **Keep sprayer drift out of whorl.** Use 0.75 pound for 2-inch broadleaf signalgrass, 1.25 pounds for 4-inch broadleaf signalgrass, 2 pounds for 6-inch broadleaf signalgrass, and 1.25-2 pounds for other weeds and grasses. **Do not graze** livestock in treated areas or feed forage within 30 days of application. Small grains may be planted in fall following application.

linuron at 0.63 to 1.5 lb/A

50DF — 1.25 to 3 lb or 4 lb/gal — 1.25 to 3 pt. Add 0.5% surfactant.

When corn is at least 15 inches tall and before weeds are 5 inches tall.

Most annual broadleaf weeds and grasses.

Apply as a directed spray to cover weeds. **Do not use** on loamy sand or sand. May be applied in N solutions. Use the low rate when weeds are less than 2 inches tall and on light soils. Use the high rates on weeds up to 5 inches or on heavy soils.

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

For use under hooded sprayers

glyphosate at 0.375 to 1 lb/A

See table on pages 5-6 for glyphosate rates.

Apply to at least 12-inch-tall corn.

Annual and perennial grasses and broadleaf weeds.

Keep the bottom edge of the hood in contact with the soil surface. Avoid crop contact with spray solution. Leave at least an 8-inch untreated strip over drill. **Do not** graze or feed corn forage or fodder following application.

paraquat at 0.25 to 0.47 lb/A

Gramoxone Max 3 — 0.675 to 1.3 pt

Apply to 6-inch-tall corn **using hooded sprayer ONLY.**

Annual grasses and broadleaf weeds less than 6 inches tall.

Keep the bottom edge of the hood in contact with the soil surface. **Avoid crop contact with spray solution.** Avoid use of spray tips that produce fine spray droplets. Include nonionic surfactant at 0.25% v/v with Gramoxone Extra. Best results are achieved when tank-mixed with other broadleaf residual herbicide. Consult label for specific tank-mix partners.

Preharvest

2,4-D at 0.5 to 1 lb/A

2,4-D amine — 1 to 2 pt of 4 lb ai/gal

After corn is in dent or hard dough stage.

Most broadleaves.

Apply to cornfields where broadleaf weeds such as morningglory, cocklebur, and sicklepod make harvesting difficult. Wait 5 to 7 days before harvesting.

carfentrazone at 0.031 lb/A

Aim EC — 1.9 oz/A + 1% v/v crop oil concentrate

After corn grain is physiologically mature and at least 3 days before grain harvest.

Morningglories, pigweeds, and hemp sesbania.

Spray volume must be sufficient to provide complete coverage of undesired foliage. A minimum of 10 gallons per acre is suggested for ground application and 5 gallons per acre for aerial application.

sodium chlorate at 6 lb/A

Sodium chlorate — 2 gal of 3 lb/gal formulation

After corn is in dent or hard dough stage.

Most grasses.

Apply to cornfield where grasses such as johnsongrass make harvesting difficult. Apply at least 14 days before anticipated harvest date on clear days when temperatures are expected to go above 70 °F. **Do not** graze treated fields or feed fodder, forage, or residual seeds within 14 days of application.

glyphosate at 0.37 to 1.25 lb ae/A

See table on pages 5-6 for glyphosate rates.

After grain reaches 35% moisture or less and kernel black layer has formed, but 7 days before harvest.

Johnsongrass and other annual weeds.

Do not exceed 1 quart per acre by aerial or 3 quarts per acre by ground equipment. **Do not** apply to corn grown for seed.