

### Application Timing–Yukon

Apply to corn spike to 36 inches in height over the top or with drop nozzles.

### Recommended Spray Additives

Non-ionic surfactant 0.25% to 0.5% v/v or COC 1%; UAN – 4% v/v may be used with NIS or COC.

### Comments

- Corn may be grazed or harvested for feed after the crop reaches ensilage (milk) stage, at least 30 days after foliar application.
- Yukon may interact with ALS herbicides applied previously to soybeans and corn, thus potentially increasing corn injury.
- Applications made after corn is 24 inches should be directed or semi-directed using drop nozzles.
- Do not use liquid nitrogen fertilizer solutions or suspensions as the total carrier because crop injury may occur.
- Up to two applications and a total of 8 oz of Yukon can be applied per growing season. Delay the second application by at least 2 weeks.
- Do not apply Yukon adjacent to sensitive crops when the temperature on the day of application is expected to exceed 85° F.
- Do not apply through any type of irrigation system.
- Avoid disturbing (e.g. cultivating) treated areas for at least 7 days after application.
- Do not apply when environmental conditions favor drift.

## Burndown Herbicides for No-till Soybean and Corn Production

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The following herbicides are used to control emerged weeds present at the time of corn planting. Neither Gramoxone Extra nor Roundup provide residual weed control. Preemergence products containing triazine herbicides (atrazine, cyanazine, metribuzin) and certain other herbicides may control small weeds present at the time of planting. Fields should be scouted prior to application to determine the type of vegetation present in order to select the appropriate burndown herbicide.

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Trade Name	Common Name	Formulation	Rate/Range
Gramoxone Max	paraquat	3 CL	0.75 to 2.7 pt/A

### Recommended Spray Additives

Nonionic surfactant-1 to 2 pt/100 gal. Crop oil concentrate-1 gal/100 gal.

### Comments

- Gramoxone is a restricted-use pesticide.
- Gramoxone may be tank mixed with most preemergence herbicides.
- It is essential to obtain complete coverage of weeds to obtain good control. Apply before weeds reach 6 inches and follow label recommendations for sprayer setup.
- Application of Gramoxone with a photosynthesis inhibitor herbicide (atrazine, metribuzin, etc.) may improve control of larger weeds.
- Liquid fertilizers containing phosphate will diminish paraquat activity if used as a carrier.
- Gramoxone may be applied preharvest to soybeans; refer to the Gramoxone Extra label.
- Gramoxone may be applied at 13 to 24 oz as a post-directed application. Refer to the label for comments.

<b>Trade Name</b>	<b>Common Name</b>	<b>Formulation</b>	<b>Rate/Range</b>
Roundup Ultra	glyphosate	3SL	24 to 32 oz/A
Roundup UltraMax		4SL	20 to 40 oz/A
Roundup UltraDry		65DG	9.5 to 28.8 oz/A
Roundup WeatherMAX		5.5SL	16 to 40 oz/A
Glyphomax		3SL	16 to 48 oz/A
Glyphomax Plus		3SL	16 to 48 oz/A
Touchdown IQ		3SL	16 to 64 oz/A
Touchdown Total		3SL	16 to 64 oz/A
Touchdown HiTech		3SL	16 to 64 oz/A
Cornerstone		3SL	16 to 48 oz/A
Cornerstone Plus		3SL	16 to 48 oz/A

### Recommended Spray Additives

Ammonium sulfate-8.5 to 17 lb/100 gal. Touchdown recommends 4.25 to 17 lb/AMS. Certain glyphosate products may recommend the use of nonionic surfactants.

### Comments

- Roundup UltraMax and Roundup Weather Max do not require additional spray additives except for AMS when tank mixing with residual herbicides or when using hard water as a carrier.
- Most perennial weeds are not at an appropriate stage of growth at the time of burndown application to provide long-term control.
- When planting no-till into sod or forages, fall applications generally provide more consistent kill.
- Do not apply aerially.

<b>Trade Name</b>	<b>Common Name</b>	<b>Formulation</b>	<b>Rate/Range</b>
2,4-D (several products)	2,4-D LV ester	4 EC	$\frac{3}{4}$ to 2 pt/A

### Application Timing-Soybeans

Delay planting for at least 7 days following application of  $\frac{3}{4}$  to 1 pt/A. Delay planting for at least 30 days following application of 2 pt/A.

### Application Timing-Corn

**Preplant**—Apply 1 to 2 pt/A 7 to 14 days prior to planting.

**Preemergence**—Apply 2 to 3 pt/A 3 to 5 days after planting, but before crop emerges.

### Comment

- Amine formulations of 2,4-D also are registered for use prior to planting soybeans. Iowa State University does not recommend this due to increased crop injury potential. Delay planting soybeans for at least 15 days following application of 1 pt/A of 2,4-D amines.