

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
<b>VEGETABLES</b>				
Go to this website for more information on weed control in vegetables: <a href="http://www.sripmc.org/docs/SoutheasternVegetableGuide.pdf">http://www.sripmc.org/docs/SoutheasternVegetableGuide.pdf</a>				
<b>Cantaloupe</b>				
halosulfuron @ 0.02 to 0.04 lb/A	Yellow and purple nutsedge, ragweed, pigweed, smartweed, cocklebur and morningglory.	<b>Sandea</b> 0.5 to 1.0 oz/A.	Preemergence and postemergence.	Preemergence: apply after planting but before cracking. Postemergence: apply after the crop has reached the 4- to 5-true leaf stage but before the first female flower appears. May be applied to the row middles of transplanted or direct-seeded crops. Keep spray off plastic. Avoid contact with the crop.
bensulide @ 5 to 6 lb/A	Annual grasses and some small-seeded broadleaves.	<b>Prefar 4 EC</b> 5 to 6 qt/A.	Preplant.	Sprinkler irrigate with 0.5 inch of water immediately after application.
ethalfluralin @ 1.1 to 1.7 lb/A	Annual grasses and some small-seeded broadleaves.	<b>Curbit 3 EC</b> 3 to 4.5 pt/A.	Preemergence.	Apply to the soil surface immediately after seeding. DO NOT SOIL INCORPORATE. May also be used as a BANDED spray BETWEEN rows of plastic mulch. Shallow cultivation, irrigation or rainfall within 5 days is needed for good weed control. Do not use under mulches, row covers or hot caps. Under conditions of unusually cold or wet soil and air temperatures, crop stunting or injury may occur.
sethoxydim @ 0.2 to 0.3 lb/A	Grasses.	<b>Poast 1.5 EC</b> 1.0 to 1.5 pt/A.	Postemergence..	Apply to emerged grasses. Consult manufacturer's label for specific rates and best times to treat. Add 1 quart of crop oil concentrate per acre. Do not apply on days which are unusually hot and humid. Do not apply within 14 days of harvest.
clethodim @ 0.094 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Postemergence.	Apply postemergence for annual grasses in cantaloupes (muskmelons) at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons spray mix. Adding crop oil may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply more than 8 ounces per acre per application. Do not apply within 14 days of harvest.
clomazone @ 0.15 to 0.24 lb/A	Annual grasses.	<b>Command 3 ME</b> 0.4 to 0.67 pt/A.	Preemergence.	Use the low rate on coarse soils and the high rate on fine soils.

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<b>Cantaloupe [cont.]</b>				
naptalam @ 2 to 4 lb/A	Broadleaf weeds including cocklebur, jimsonweed, ragweed, smartweed and velvetleaf.	<b>Alanap-L</b> 4 to 8 qt/A.	Preemergence or early postemergence.	Apply to the soil surface immediately after seeding. Control will be poor if rainfall or irrigation does not occur within 5 days. Transplanted bareground only. Apply as a postemergence spray immediately after transplanting. <b>Do not spray over plastic.</b>
ethalfuralin + clomazone @ 0.4 to 1.2 + 0.13 to 0.39 lb/A	Small seeded broadleaf weeds.	<b>Strategy 2.1L</b> 2 to 6 pt/A.	Preemergence.	Apply to soil surface immediately after seeding. Do not incorporate before planting. Do not broadcast over transplants. Do not use under row covers, hot caps or plastic mulch. May be applied as a banded treatment between rows after crop emergence or transplanting.
<b>Cucumber</b>				
paraquat @ 0.47 to 0.94 lb/A	Grasses and broadleaves.	<b>Paraquat (3 lb/gal formulations)</b> 1.25 to 2.5 pt/A.	Preplant.	Use a minimum of 20 GPA spray volume. Good coverage is critical. Use high rate on large weeds.
bensulide @ 5 to 6 lb/A	Annual grasses and some small-seeded broadleaf weeds.	<b>Prefar 4 EC</b> 5 to 6 qt/A.	Preplant incorporated; preemergence.	Need activation with irrigation.
naptalam @ 2 to 4 lb/A	Broadleaf weeds including cocklebur, jimsonweed, ragweed, smartweed and velvetleaf.	<b>Alanap-L</b> 4 to 8 qt/A.	Preemergence or early postemergence.	Apply to the soil surface immediately after seeding. Control will be poor if rainfall or irrigation does not occur within 5 days. Transplanted bareground only. Apply as a postemergence spray immediately after transplanting. <b>Do not spray over plastic.</b>
bensulide @ 5 lb + naptalam @ 2 to 4 lb	Broader spectrum of weed control.	<b>Prefar 4 EC + Alanap-L</b> 5 qt/A + 4 to 8 qt/A.	Soil incorporated; preemergence.	Incorporate immediately after application or water in.
ethalfuralin @ 0.4 to 1.2 + clomazone 0.13 to 0.39 lb/A	Small-seeded broadleaf weeds and annual grasses.	<b>Strategy 2.1 L</b> 2 to 6 pt/A.	Preemergence.	Apply to soil surface immediately after seeding. Do not incorporate before planting. Do not broadcast over transplants. Do not use under row covers, hot caps or plastic mulch. May be applied as a banded treatment between rows after crop emergence or transplanting.
carfentrazone @ 0.031 lb/A	Broadleaf weeds.	<b>Aim 50 DF</b> 1 oz/A.	Preplant. Post directed, hooded sprayer in row middles.	Will burn crop leaves if drifted on. Apply with 1% COC or 0.25% by volume NIS.

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clethodim @ 0.1 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Postemergence.	Apply postemergence for annual grasses in cucumbers at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons spray mix. Adding crop oil may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply more than 8 ounces per acre per application. Do not apply within 14 days of harvest.
sethoxydim @ 0.2 to 0.3 lb/A	Grasses.	<b>Poast 1.5 EC</b> 1 to 1.5 pt/A.	Postemergence.	Apply to emerged grasses. Consult manufacturer's label for specific rates and best times to treat. Add 1 quart of crop oil concentrate per acre. Do not apply on days which are unusually hot and humid. Do not apply within 14 days of harvest.
halosulfuron @ 0.02 to 0.048 lb/A	Yellow and purple nutsedge, ragweed, pigweed, smartweed, cocklebur and morningglory.	<b>Sandea 75 DF</b> 0.5 to 1 oz/A.	Preemergence. Postemergence, row middles.	Preemergence: apply after planting but before cracking. Postemergence: apply after the crop has reached the 4- to 5-true leaf stage but before the first female flower appears. May be applied to the row middles of transplanted or direct-seeded crops. Keep spray off plastic. Avoid contact with the crop. Apply in a minimum of 15 gallons of water per acre. For postemergence applications, apply after the crop has reached the 2-true leaf stage, but before flowering. Use a non ionic surfactant for postemergence applications. Best activity on nutsedge when applied <i>post</i> . Do not apply within 30 days of harvest for cucumber.
<b>Greens [collards, kale, mustard, turnips]</b>				
D CPA @ 8 lb/A		<b>Dacthal 75W</b> 10 lb/A.	At time of planting.	Broadcast. Follow by at least 1/2 inch sprinkler irrigation.
trifluralin @ 0.3 to 0.5 lb/A		<b>Treflan 4 EC</b> 0.6 to 1 pt/A.	Anytime from 6 weeks prior to planting up to planting.	Trifluralin requires thorough incorporation into soil top a depth of 1 to 1 1/2 inches.
sethoxydim @ 0.2 to 0.3 lb/A	Annual and perennial grasses.	<b>Poast 1.5 EC</b> 1 to 1.5 pt/A.	Postemergence. Consult label for the correct timing for the target weed(s).	Do not apply within 30 days of harvest. Do not apply more than 1.5 pt/A per treatment. Do not exceed 3 pt/A per growing season.

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<b>Greens [collards, kale, mustard, turnips]</b>				
clethodim @ 0.094 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Postemergence.	Apply postemergence for annual grasses at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons spray mix. Adding crop oil may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply more than 8 ounces per acre per application. Do not apply within 14 days of harvest of green crops. Do not apply within 30 days of harvest of turnips grown for roots.
bensulide @ 5 to 6 lb/A	Annual grasses.	<b>Prefar 4E</b> 5 to 6 qt/A.	Preplant or preemergence.	Not labeled for turnip. Apply preplant and incorporate into the soil 1 to 2 inches. One inch is ideal. Work into soil with rotary tiller or tandem disk. Or, apply to the soil surface and follow immediately with irrigation. Check label for small grains plant back restrictions.
<b>Peppers</b>				
trifluralin @ 0.5 to 0.75 lb/A	Small-seeded annual grass and broadleaf weeds.	<b>Treflan 4 EC</b> 1 to 1.5 pt/A.	Any time from 6 weeks before planting up to planting. After bedding if beds are used.	Requires thorough incorporation to a depth of 1 to 1 1/2 inches.
napropamide @ 1 to 2 lb/A	Small-seeded annual grass and broadleaf weeds.	<b>Devrinol 50 DF</b> 2 to 4 lb/A.	Before direct seeding or transplanting.	Incorporate into top 1 to 2 inches of seedbed.
sethoxydim @ 0.19 to 0.38 lb/A	Grasses.	<b>Poast 1.5 EC</b> 1 to 2 pt/A.	Before annual grasses exceed 14 days after emergence. Timing is very important. Johnsongrass - 15 to 20 inches; bermudagrass - 1-inch height or 6-inch maximum runner length.	Apply only under conditions of active growth. Thorough coverage required. Do not tank mix with other pesticides. Do not cultivate 7 days before or after treatment. Cultivation soon after 7 days will be helpful. Do not apply within 20 days of harvest. Do not apply more than 3 pt/A per season.
clethodim @ 0.094 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Postemergence	Apply postemergence for annual grasses at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons spray mix. Adding crop oil may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply more than 8 ounces per acre per application. Do not apply within 20 days of harvest.

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clomazone @ 0.75 to 1.0 lb/A (bell peppers, hot peppers except banana peppers, transplants and direct seeded)	Most annual grasses and some small-seeded broadleaf weeds.	<b>Command 3 ME</b> 32 to 42 oz/A.	Preemergence to weed-free soil. May also be shallow incorporated (1 inch), but has been more consistent when applied to the soil surface. Incorporation will lessen the likelihood of vapor drift.	<b>Do not apply Command 4EC within 1,000 feet of towns, subdivisions, commercial vegetable and fruit production, and commercial nurseries.</b> Plant seed or transplants below the chemical barrier. Check label for rotational guidelines before applying Command. Foliar contact with spray drift or vapors may cause whitening of plants. Symptoms are generally temporary, but may persist on some plants.
<b>Pumpkins</b>				
halosulfuron @ 0.02 to 0.046 lb/A	Yellow and purple nutsedge, ragweed, pigweed, smartweed, cocklebur and morningglory.	<b>Sandea 75 DF</b> 0.5 to 1.0 oz/A.	Preemergence and postemergence.	Preemergence: apply after planting but before cracking. Postemergence: apply after the crop has reached the 3- to 5-true leaf stage but before the first female flower appears. May be applied to the row middles of transplanted or direct-seeded crops. Keep spray off plastic. Avoid contact with the crop.
sethoxydim @ 0.2 to 0.3 lb/A	Grasses.	<b>Poast 1.5E</b> 1 to 1.5 pt/A.	Postemergence.	Apply to emerged grasses. Consult manufacturer's label for specific rates and best times to treat. Add 1 quart crop oil concentrate per acre. Do not apply on days which are unusually hot and humid. Do not apply within 14 days of harvest.
clethodim @ 0.094 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Postemergence.	Apply postemergence for annual grasses at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons spray mix. Adding crop oil concentrate may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply more than 8 ounces per acre per application. Do not apply within 14 days of harvest.
ethalfluralin + clomazone @ 0.4 to 1.2 + 0.13 to 0.39 lb/A	Small seeded broadleaf weeds.	<b>Strategy 2.1L</b> 2 to 6 pt/A.	Preemergence.	Apply to soil surface immediately after seeding. Do not incorporate before planting. Do not broadcast over transplants. Do not use under row covers, hot caps or plastic mulch. May be applied as a banded treatment between rows after emergence or transplanting.

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<b>VEGETABLES</b>				
<b>Pumpkins [cont.]</b>				
metolachlor @ 1.0 to 1.25 lb/A	Grasses and small-seeded broadleaf weeds.	<b>Dual Magnum 7.62L</b> 1.0 to 1.33 pt/A.	Preemergence.	Leave 1 foot of untreated area over the row, or 6 inches to either side of the planted hill and/or either side of any emerged pumpkin foliage. Use the lower Dual Magnum rate on soils light in texture (loamy sand or lighter) and on soils with less than 3% organic matter. Do not use closer than 30 days before pumpkin harvest.
ethalfluralin @ 1.1 to 1.7 lb/A	Annual grasses and some broadleaf weeds.	<b>Curbit</b> 3.0 to 4.5 pt/A.	Preemergence.	Apply to the soil surface immediately after seeding. Do not soil incorporate. May also be used as a band treatment between pumpkin rows. See label for timing. Shallow cultivation, irrigation or rainfall is needed within 5 days for good weed control. Do not use under mulches, row covers or hot caps. Injury can occur under wet, cool conditions. Crop injury can occur if seeding depth is too shallow.
<b>Snapbeans</b>				
halosulfuron @ 0.02 to 0.04 lb/A	Yellow and purple nutsedge, ragweed, pigweed, smartweed, cocklebur and morningglory.	<b>Sandea 75 DF</b> 0.5 to 1.0 oz/A.	Preemergence.	Preemergence: apply after planting but before cracking.
S-metolachlor @ 0.6 to 1.01 lb/A	Annual weeds.	<b>Dual Magnum 7.62 EC</b> 10 oz to 16 oz/A.	Preemergence.	Apply during or after planting but before weeds emerge.
EPTC + trifluralin @ 3.5 + 0.5 lb/A	Annual weeds.	<b>Eptam + Treflan 4 EC</b> 3.5 pt/A + 1 pt/A.	Just prior to planting.	Requires thorough incorporation to a depth of 3 inches.
trifluralin @ 0.5 lb/A	Small-seeded broadleaf weeds and annual grasses.	<b>Treflan 4 EC</b> 1 pt/A.	Any time from 6 weeks before planting up to planting. After bedding if beds are used.	Requires thorough incorporation to a depth of 1 to 1 1/2 inches.
clomazone @ 0.15 to 0.38 lb/A	Annual grasses.	<b>Command 3 ME</b> 0.4 to 1 pt/A.	Preemergence.	Use the low rate on coarse soils and the high rate on fine soils.
bentazon @ 0.25 to 0.5 lb/A	Purslane, velvetleaf, ragweed, smartweed, cocklebur, jimsonweed.	<b>Basagran 4S</b> 0.5 to 1 pt/A.	Postemergence to small weeds.	See label for details and weed sizes.
sethoxydim @ 0.3 to 0.5 lb/A	Annual and perennial grasses.	<b>Poast 1.5 EC</b> 1.5 to 2.5 pt/A.	Treat annual grasses within 14 days of emergence. Johnsongrass at 12" to 18".	Do not apply within 15 days of harvest. Do not exceed 4 pt/A per season. Add 1% crop oil concentrate.
quizalofop @ 0.031 to 0.063 lb/A	Annual grasses and johnson-grass.	<b>Assure II 0.8E</b> 8 to 10 oz/A.	Apply when the johnsongrass is 10 to 24 inches tall. Treat seedling grasses in the 3 to 4-leaf stage.	Apply during active growth. Do not apply to grasses under drought stress.

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fomesafen @ 0.1875 to 0.25 lb ai/A	Many broadleaf weeds.	<b>Reflex 2L</b> 0.75 to 1 pt/A.	Apply postemergence to dry beans having at least four expanded trifoliolate leaves or snap beans having at least one expanded trifoliolate leaf. Include a nonionic surfactant at 1 qt per 100 gal spray mixture.	Dry or snap beans only. Total use per year cannot exceed 1.5 pt per acre. Do not apply within 45 days of dry bean harvest or 30 days of snap bean harvest. See label for further information.
fomesafen @ 0.25 to 0.375 lb/A	Broadleaf weeds.	<b>Reflex 2L</b> 1.0 to 1.5 pt/A.	Preplant or early post.	Do not exceed 1.5 pt/A rate. Dry or snapbeans.
<b>Southern peas</b>				
S-metolachlor @ 0.6 to 1.0 lb/A	Annual weeds.	<b>Dual Magnum 7.62 EC</b> 10 to 16 oz/A.	Preplant incorporated or preemergence.	Use preplant incorporated if furrow irrigation is used, or when a period of dry weather is likely after application.
trifluralin @ 0.5 to 0.75 lb/A	Annual weeds..	<b>Treflan 4 EC</b> 1 to 1.5 pt/A.	Anytime from 6 weeks before planting up to planting. After bedding if beds are used.	Requires thorough incorporation to a depth of 1 to 1 1/2 inches.
imazethapyr @ 0.063 lb/A	Many annual weeds including puncturevine, morningglory and hophornbeam copperleaf.	<b>Pursuit 70 DG</b> 1.44 oz/A.	May be applied preplant incorporated, preemergence or early postemergence.	One popular program is to apply Treflan ppi and follow with Pursuit at 7 days after pea emergence. May cause some stunting of peas but has not reduced yields in research. Crop rotation restrictions vary from 4 to 26 months. Check label for individual crops.
bentazon @ 0.25 to 0.5 lb/A	bentazon @ 0.25 to 0.5 lb/A	<b>Basagran 4S</b> 0.5 to 1.0 pt/A.	Postemergence to small weeds.	See label for details and weed sizes.
sethoxydim @ 0.3 to 0.5 lb/A	Annual and perennial grasses.	<b>Poast 1.5E</b> 1.5 to 2.5 pt/A.	Apply to small annual grasses, preferably within 14 days after emergence. See label for timing for perennial grasses.	Do not apply within 30 days of harvest of dry peas and within 15 days of harvest of succulent peas. Do not apply more than 4 pt/A in one season. Add 1% crop oil concentrate.
imazamox @ 0.03 lb/A	Annual grasses and some broadleaf weeds.	<b>Raptor</b> 4 oz/A.	Early postemergence while the weeds are actively growing and before they exceed 3 inches.	Peas should have at least one fully expanded trifoliolate. <b>Tank mix with Basagran at 16 oz per acre to reduce crop injury and improve weed control.</b>
sulfentrazone @ 0.1875 lb/A	Pigweed, hophornbeam copperleaf and other annual broadleaf weeds.	<b>Spartan</b> 6 oz/A.	Preemergence. Do not apply after the crop emerges or if the seedling is near the soil surface.	Do not apply to coarse soil classified as sand which has less than 1% organic matter. 24 (c) label for use in the state of Arkansas.
sulfentrazone + carfentrazone @ 0.11 to 0.155 lb/A	ALS-resistant and glyphosate-resistant pigweeds, hophornbeam copperleaf and other broadleaf and grass weeds..	<b>Spartan Charge 3.5 EC (24c label for Arkansas)</b> 3.8 to 7.6 oz/A. Rates vary according to soil texture, organic matter content and pH. See label for appropriate rate ranges.	Early preplant prior to planting up to 3 days after planting as a premerge soil application if seedlings have not emerged and if the seed furrow is completely closed.	Applications should be made with ground equipment in a minimum of 10 gallons of spray per acre.

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<b>Southern peas [cont.]</b>				
fomesafen @ 0.2 lb/A	Many broadleaf weeds.	<b>Reflex 2 EC</b> 13 oz/A.	Apply postemergence to dry beans having at least four expanded trifoliate leaves or snap beans having at least one expanded trifoliate leaf. Include a nonionic surfactant at 1 qt per 100 gal spray mixture.	Dry or snap beans only. Total use per year cannot exceed 1.5 pt per acre. Do not apply within 45 days of dry bean harvest or 30 days of snap bean harvest. See label for further information.
<b>Spinach</b>				
cycloate @ 1.5 to 2 lb/A	Annual weeds.	<b>Ro-Neet 6E</b> 2 to 2.6 pt/A.	From 1 week prior to planting up to planting.	Thoroughly incorporate in top 3 inches. Do not apply before pre-irrigation.
S-metolachlor @ 0.75 to 1.0 lb/A	Annual grasses and small-seeded broadleaf weeds.	<b>Dual Magnum 7.62 EC</b> 0.78 to 1.05 pt/A.	Preemergence.	Under Section 18 exemption label. Section 18 label must be read prior to use.
sethoxydim @ 0.19 to 0.38 lb/A	Grasses.	<b>Poast 1.5 EC</b> 1 to 1.5 pt/A.	Before annual grasses exceed 14 days after emergence. Timing is very important. Johnsongrass - 15 to 20 inches; bermudagrass - 1-inch height or 6-inch maximum runner length.	Apply only under conditions of active growth. Thorough coverage required. Do not tank mix with other pesticides. Do not cultivate 7 days before or after treatment. Cultivation soon after 7 days will be helpful. Do not apply within 15 days of harvest.
clethodim @ 0.094 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Postemergence.	Apply to emerged grasses. Consult manufacturer's label for specific rates and best times to treat. For sethoxydim, add 1 quart of crop oil concentrate per acre. For clethodim, add 1 gallon of crop oil concentrate per 100 gallons of spray solution. Adding crop oil to Poast or Select may increase the likelihood of crop injury at high air temperatures. Do not apply Poast or Select on days that are unusually hot and humid. Do not apply sethoxydim within 15 days of harvest or clethodim within 14 days of harvest.
phenmedipham @ 0.5 to 1 lb/A	Annual broadleaf.	<b>Spin-Aid 1.3 EC</b> 3 to 6 pt/A.	Postemergence.	Do not use when expected high temperatures will be above 75°F. For best results, spray when weeds are in the 2-leaf stage. Use the 6 pint rate only on well-established crops which are not under stress. Do not apply within 40 days of harvest. Spinach plants must have 6 true leaves or more. For processing spinach only. Do not exceed 22 gallons per acre water. Avoid drift.

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<b>Squash, summer and winter</b>				
bensulide @ 5 to 6 lb/A	Annual grasses.	<b>Prefar 4 EC</b> 5 to 6 qt/A.	Preemergence.	Sprinkler irrigate with 0.5 inch of water immediately after application.
sethoxydim @ 0.2 to 0.3 lb/A	Grasses.	<b>Poast 1.5 EC</b> 1 to 1.5 pt/A.	Preemergence.	Apply to emerged grasses. Consult manufacturer's label for specific rates and best times to treat. Add 1 quart of crop oil concentrate per acre. Do not apply on days which are unusually hot and humid. Do not apply within 14 days of harvest.
clethodim @ 0.094 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Preemergence.	Apply postemergence for annual grasses at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons of spray mix. Adding crop oil may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply more than 8 ounces per acre per application. Do not apply within 14 days of harvest.
DCPA @ 8 to 10 lb/A	Annual grasses and small-seeded broadleaves.	<b>Dacthal 75W</b> 10.75 to 13.5 lb/A.	Preemergence.	Apply to soil surface when squash has 4 to 5 true leaves and prior to emergence of weeds. If weeds have emerged, cultivate to remove weeds before applying herbicide. Apply only under good growing conditions. Do not incorporate.
halosulfuron @ 0.02 to 0.04 lb/A	Yellow and purple nutsedge, ragweed, pigweed, smartweed, cocklebur and morningglory.	<b>Sandea 75 DF</b> 0.5 to 1.0 oz/A.	Preemergence or early postemergence. Weeds should be very small for postemergence applications. See label for individual weed specifics.	Preemergence: apply after planting but before cracking. May be applied to the row middles of transplanted or direct-seeded crops. Keep spray off plastic. Avoid contact with the crop. Postemergence. Do not apply more than 2 oz per year. Do not apply to crops treated with soil-applied organophosphate insecticides. Do not apply an organophosphate insecticide within 7 days before or 3 days after any Sandea application.
clomazone @ 0.24 to 0.75 lb/A	Annual grasses	<b>Command 3 ME</b> 0.67 to 2.0 pt/A.	Preemergence.	Use the low rate on coarse soils and the high rate on fine soils. For winter squash, apply broadcast before seeding or transplanting. For summer squash, apply before seeding or transplanting at 0.67 to 1.33 pt/A.
ethalfuralin + clomazone @ 0.4 to 1.2 + 0.13 to 0.39 lb/A	Small-seeded broadleaf weeds.	<b>Strategy 2.1L</b> 2 to 6 pt/A.	Preemergence.	Apply to soil surface immediately after seeding. Do not incorporate before planting. Do not broadcast over transplants. Do not use under row covers, hot caps or plastic mulch. May be applied as a banded treatment between rows after crop emergence or transplanting.

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<b>VEGETABLES [cont.]</b>				
<b>Sweet corn</b>				
S-metolachlor + atrazine 1.25 to 1.5 lb + 1 to 1.6 lb/A	Annual weeds.	<b>Dual Magnum 7.62 EC + Aatrex, atrazine</b> See label for specific formulations.	Preplant incorporated, preemergence or early postemergence.	Use high atrazine rate where cocklebur and morningglory are severe. Rainfall in 5-7 days is necessary for best results. With preplant, shallow incorporate 2-3 inches within 7 days of planting.
2,4-D amine @ 0.5 lb/A	Morningglory, common cocklebur, and most other broadleaf weeds.	<b>2,4-D amine</b> 1 pt of 4 lb/gal	Apply when weeds are small and corn is under 1 ft; however, effective results can be obtained with later applications.	Broadcast. After corn is more than 12 inches, apply spray directly on weeds and not on terminal growth of corn. AVOID DRIFT.
bentazon @ 0.75 to 1 lb/A	Cocklebur, common ragweed, jimsonweed, Pennsylvania smartweed, velvetleaf, yellow nutsedge, and morningglory.	<b>Basagran 4S</b> 0.75 to 1 qt/A.	Apply early postemergence over top when weeds are small and corn has 1 to 5 leaves.	See label for rates according to weed size and special directions for annual morningglory and yellow nutsedge control. Use a crop oil at a rate of 1 qt/A.
halosulfuron @ 0.032 lb/A	Cocklebur, passionflower, pigweed, pokeweed, ragweed, smartweed, velvetleaf.	<b>Permit 75 DF</b> 0.67 oz/A.	Postemergence.	Apply over the top with drop nozzles to sweet corn from spike to lay-by for control of emerged weeds. Add nonionic surfactant at 1 to 2 qt per gal of spray solution or crop oil concentrate at 1 gal per 100 gal of spray solution. See label for all instructions and restrictions.
dimethenamid @ 0.38 to 0.75 lb/A	Most annual grass weeds.	<b>Outlook</b> 8 to 12 oz/A.	Preemergence.	Apply to soil surface immediately after planting. May be tank mixed with atrazine, cyanazine, glyphosate or paraquat.
S-metolachlor + atrazine @ 1 to 2 + 0.78 to 1.56	Most annual grass and broadleaf weeds.	<b>Bicep II Magnum</b> 1.3 to 2.6 qt/A.	Preemergence.	Apply to soil surface immediately after planting. See label for further instructions.
carfentrazone @ 0.008 lb/A	Velvetleaf, pigweed, lambsquarters, nightshade, morningglory.	<b>Aim 40 DF</b> 0.33 oz/A.	Postemergence up to the 8-leaf collar stage of corn.	Coverage is essential for good control. Mix with atrazine to improve broadleaf control. Add a nonionic surfactant.
atrazine @ 1 to 2 lb/A	Most annual broadleaf and grass weeds.	<b>Aatrex 4L</b> 1 to 2 qt/A.	Preemergence or postemergence.	Apply to soil surface immediately after planting. Shallow cultivation of preemergence applications improves control. Postemergence: Use the 2 qt rate and apply before weeds reach 1.5 inches. See label for amount of crop oil to add. For best results, tank mix with a grass herbicide such as Dual.
mesotrione @ 0.094 to 0.24 lb/A	Broadleaf weeds and grasses.	<b>Callisto 4L</b> 3 to 7.7 fl oz/A.	Pre- or early postemergence.	Typically tank mixed with atrazine and metolachlor. See label for details.

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
<b>Sweet potatoes</b>				
DCPA @ 8 to 10 lb/A	Annual weeds.	<b>Dacthal 75W</b> 10.75 to 13.5 lb/A.	Just after transplanting.	Shallow cultivation will improve control.
sethoxydim @ 0.3 to 0.5 lb/A	Annual and perennial grasses.	<b>Poast 1.5 EC</b> 1.5 to 2.5 pt/A.	Apply to small annual grasses, preferably within 14 days after emergence. See label for timing perennial grasses.	Do not apply within 30 days of harvest. Do not apply more than 4 pt/A in one season. Add 1% crop oil concentrate.
clethodim @ 0.09 to 0.25 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 16 oz/A.	Postemergence.	Apply postemergence for annual grasses at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons of spray mix. Adding crop oil may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply within 30 days of harvest.
clomazone @ 0.48 to 1.5 lb/A	Annual grasses.	<b>Command 3 ME</b> 1.3 to 4.0 pt/A.	Pre-transplant.	Use the low rate on coarse soils and the high rate on fine soils. May also be applied as a single, post-transplant application to the crop before weeds emerge at a maximum of 1.5 pt/A.
fluazifop-P @ 0.19 lb/A	Grasses.	<b>Fusilade DX 2 EC</b> 6 to 18 oz/A.	Before annual grasses exceed 14 days after emergence. Timing is very important. Johnsongrass - 12 to 18 inches; bermudagrass - 3-inch height or 6- to 12-inch maximum runner length.	Less effective than Poast on annual grasses. More effective on bermudagrass and johnsongrass. Thorough coverage required. Do not tank mix. Do not cultivate 7 days before or after application. Do not apply within 20 days of harvest.
flumioxazin @ 0.094 lb/A	Annual broadleaf weeds including pigweed.	<b>Valor 51 WDG</b> 3 oz/A.	Apply 2 to 5 days prior to transplanting crop.	Movement of soil during transplanting should not occur or reduced weed control may result. Do not use on greenhouse-grown transplants. Do not apply postemergence or serious crop injury will occur. Do not use on transplants harvested more than 2 days prior to transplanting. Do not use on transplant propagation beds. See label for instructions on use. Use only on the 'Beauregard' variety.
metolachlor @ 0.95 to 1.26 lb/A	Annual sedge and yellow nutsedge	<b>Dual Magnum</b> 1.0 to 1.33 pt/A.	After the sweet potatoes have been transplanted but before weeds emerge.	Do not incorporate following application. Use the lower rate on coarse textured soils. The transplanter trench must be closed before applying. Do not apply more than 0.5 inches of irrigation for the first irrigation following application. Make only one application per season.

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
<b>VEGETABLES [cont.]</b>				
<b>Tomatoes</b>				
S-metolachlor @ 0.95 to 1.5 lb/A	Yellow nutsedge, annual grasses, broadleaf weeds	<b>Dual Magnum 7.62 EC</b> 1 to 2 pt/A.	Preplant or postdirected to transplants.	Apply preplant or postdirected to transplants after the first settling rain or irrigation. In plasticulture, apply to pre-formed beds just prior to applying plastic mulch. Minimize contact with crop. Do not apply within 90 days of harvest. Also registered for use in row middles, and in seeded crop. See label for further instructions.
trifluralin @ 0.5 to 0.75 lb/A	Annual weeds.	<b>Treflan 4 EC</b> 1 to 1.5 pt/A.	Preplant any time from 6 weeks before transplanting up to transplanting. After bedding if beds are used	Requires thorough incorporation to a depth of 1 to 1 1/2 inches. Do not use on direct-seeded tomatoes.
metribuzin @ 0.25 to 0.5 lb/A	Annual broadleaf and grass weeds.	<b>Sencor 75 DF</b> 0.33 to 0.67 lb/A.	After transplants have 5-6 leaves or have fully recovered from shock of transplanting and weeds are small.	Over top. Do not apply within 3 days after period of cool, wet or cloudy weather or injury will occur. See label for other precautions.
napropamide @ 1 to 2 lb/A	Small-seeded grass and broadleaf weeds.	<b>Devrinol 50 DF</b> 2 to 4 lb/A.	Before direct seeding or transplanting.	Incorporate into top 1 to 2 inches of final seedbed.
halosulfuron @ 0.02 to 0.04 lb/A	Yellow and purple nutsedge, ragweed, pigweed, smartweed, cocklebur and morningglory.	<b>Sandea 75 DF</b> 0.5 to 1.0 oz/A.	Preemergence and postemergence	Direct-seeded, postemergence: Sandea may be applied over the top from the 4-leaf stage to first bloom. After bloom, use shields or directed spray to avoid contact with the plant. Transplants: May be applied from 14 days after transplanting to first bloom. After first bloom, apply as a directed spray.
metribuzin @ 0.5 to 1 lb/A	Same as above but better control.	<b>Sencor 75 DF</b> 0.67 to 1.33 lb/A.	Before direct seeding or transplanting.	Directed spray. Avoid contact with foliage. See above precautions and refer to label for further details.
sethoxydim @ 0.19 to 0.38 lb/A	Grasses.	<b>Poast 1.5 EC</b> 1 pt/A.	Before annual grasses exceed 14 days after emergence. Timing is very important. Johnsongrass - 15 to 20 inches; bermudagrass - 1-inch height or 6-inch maximum runner length.	Apply only under conditions of active growth. Thorough coverage required. Do not tank mix with other pesticides. Do not cultivate 7 days before or after treatment. Cultivation soon after 7 days will be helpful. Do not apply within 20 days of harvest. Do not apply more than 4.5 pt/A per season.
clethodim @ 0.09 to 0.25 lb/A	Annual and perennial grasses.	<b>Select 2E</b> 6 to 16 oz/A.	Postemergence.	Add 1.0% crop oil concentrate. Apply to actively growing grasses. Repeat applications may be needed for perennial grass control. Good on annual bluegrass and broadleaf signalgrass.

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
trifloxysulfuron-sodium @ 0.0047 to 0.0094 lb/A	Yellow nutsedge, morningglory, common cocklebur, common lambquarters, and other broadleaf weeds.	<b>Envoke 75 DG</b> 0.1 to 0.2 oz/A.	Post-directed.	<b>in row.</b> Apply post-directed to tomato grown on plastic for control of nutsedge and certain broadleaf weeds. Crop should be transplanted at least 14 days prior to application. The application should be made prior to fruit set and at least 45 days prior to harvest. Use nonionic surfactant at 1 qt per 100 gal spray solution with all applications. <b>Row middles.</b> Apply for control of nutsedge and certain broadleaf weeds. Crop should be transplanted at least 14 days prior to application. Use nonionic surfactant at 1 qt per 100 gal spray solution with all applications. See label for information on registered tank mixes. Tank mixtures with Select or Poast may reduce grass control. See label for more information.
<b>Watermelons</b>				
sethoxydim @ 0.19 to 0.38 lb/A	Grasses.	<b>Poast 1.5 EC</b> 1 to 2 pt/A.	Before annual grasses exceed 14 days after emergence. Timing is very important. Johnsongrass - 15 to 20 inches; bermudagrass - 1-inch height or 6-inch maximum runner length.	Apply only under conditions of active growth. Thorough coverage required. Do not tank mix with other pesticides. Do not cultivate 7 days before or after treatment. Cultivation soon after 7 days will be helpful. Do not apply within 14 days of harvest. Do not apply more than 3 pt/A per season.
clethodim @ 0.094 to 0.125 lb/A	Grasses.	<b>Select 2 EC</b> 6 to 8 oz/A.	Postemergence.	Apply postemergence for annual grasses at 6 to 8 ounces per acre or bermudagrass and johnsongrass at 8 ounces per acre. Add 1 gallon crop oil concentrate per 100 gallons of spray mix. Adding crop oil may increase the likelihood of crop injury at high air temperatures. Very effective in controlling annual bluegrass. Apply to actively growing grasses not under drought stress. Do not apply more than 8 ounces per acre per application. Do not apply within 14 days of harvest.
bensulide @ 6 lb/A	Annual weeds.	<b>Prefar 4 EC</b> 6 qt/A.	From 3 weeks prior to planting up to planting.	Sprinkler irrigate with 0.5 inch of water immediately after application.

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
<b>VEGETABLES</b>				
<b>Watermelons [cont.]</b>				
ethalfluralin @ 1.1 to 1.7 lb/A	Annual grasses.	<b>Curbit 3 EC</b> 3 to 4.5 pt/A.	Preemergence.	Apply to the soil surface immediately after seeding. DO NOT SOIL INCORPORATE. May also be used as a BANDED spray BETWEEN rows of plastic mulch. Shallow cultivation, irrigation or rainfall within 5 days is needed for good weed control. Do not use under mulches, row covers or hot caps. Under conditions of unusually cold or wet soil and air temperatures, crop stunting or injury may occur.
clomazone @ 0.15 to 0.24 lb/A	Annual grasses.	<b>Command 3 ME</b> 0.4 to 0.67 pt/A.	Preemergence.	Use the low rate on coarse soils and the high rate on fine soils.
ethalfluralin + clomazone @ 0.4 to 1.2 + 0.13 to 0.39 lb/A	Small seeded broadleaf weeds.	<b>Strategy 2.1L</b> 2 to 6 pt/A.	Preemergence.	Apply to soil surface immediately after seeding. Do not incorporate before planting. Do not broadcast over transplants. Do not use under row covers, hot caps or plastic mulch. May be applied as a banded treatment between rows after crop emergence or transplanting.
halosulfuron @ 0.02 to 0.04 lb/A	Yellow and purple nutsedge, ragweed, pigweed, smartweed, cocklebur and morningglory.	<b>Sandea 75 DF</b> 0.5 to 1.0 oz/A.	Preemergence and postemergence.	Preemergence: apply after planting but before cracking. May be applied to the row middles of transplanted or direct-seeded crops. Keep spray off plastic. Avoid contact with the crop.