Jared Whitaker, Extension Agronomist, and Guy Collins, Extension Agronomist

The following are basic guidelines for harvest aid application. Rates indicated are amount per acre. Specific rates should be adjusted according to temperature, humidity, day-length, plant leaf condition and maturity, expected weather, and desired effects such as defoliation, regrowth control, boll opening, and/or weed control. Defoliants should be applied in a minimum spray volume of 5 gal/A by air and 10-20 gal/A by ground.

Reduced performance issues are often related to low spray volume and poor canopy penetration. Fields should fit into one of the following categories based on temperature and harvest aid function. Preparing cotton for harvest is often difficult and is influenced by many factors, therefore the guidelines below should be considered as basic recommendations. Always observe label restrictions before using cotton harvest aids.

HARVEST-AID FUNCTION	 HERBICIDE	BROADCAST RATE/ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)
		EARLY-SEAS	SON (highs 90°F plus, lows 70°F plus)
Defoliation Only (combinations provide	carfentrazone Aim EC	0.75-1 oz	Add non-ionic surfactant at 0.25% v/v. The potential for leaf sticking is greater during periods of high temperatures.
more consistent defoliation than a single	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
product)	flumiclorac Resource	4-6 oz	Add crop oil at 1-2 pt/A. Limited data, use precaution. The potential for leaf sticking is greater during periods of high temperatures.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add crop oil at 1 pt/A. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add crop oil at 0.5% v/v. The potential for leaf sticking is greater during periods of high temperatures.
	sodium chlorate	3 lb ai	Apply to mature foliage only. Do not mix with products containing tribufos or ethephon.
	tribufos Def/Folex	1.5 pt	Reduce rate to 1.25 pt if above 94°F.
Regrowth Control and Defoliation	thidiazuron (Numerous brands)	3.2 oz	For maximum regrowth control. <i>Thidiazuron</i> is sensitive to wash-off when rain occurs within 6-12 hours after application. Addition of <i>tribufos</i> (4-8 oz) or <i>ammonium sulfate</i> (2 lb/A) enhances rainfastness.
	thidiazuron (Numerous brands) +	1.6-2.5 oz + 4-16 oz	For maximum regrowth control apply <i>thidiazuron</i> at 1.6 oz plus <i>tribufos</i> at 8-12 oz. For good regrowth control apply <i>thidiazuron</i> at 2.5 oz plus <i>tribufos</i> at 8-12 oz. For superior regrowth control apply <i>thidiazuron</i> at 3.2 oz plus <i>tribufos</i> at 6-8 oz.
	tribufos Def/Folex		These combinations may cause "leaf sticking" when temperatures exceed 94°F, when combined with spray adjuvants, or when calibration errors occur. Consider reducing higher rates of <i>tribufos</i> by 10-20% when temperatures exceed 94°F. Regrowth control or suppression is minimal when <i>thidiazuron</i> is applied at rates below 1.6 oz. Higher rates (2.5-3.2 oz) or sequential applications increase time of effectiveness.
	thidiazuron (Numerous brands) + ONE OF THE FOLLOWING:	1.6-2.5 oz +	
	carfentrazone Aim EC	0.75 oz	Add 0.25 % v/v non-ionic surfactant.
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4-6 oz	Add crop oil at 1 pt/A. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add crop oil at 1 pt/A. Limited data, use precaution. The potential for leaf sticking is greater during periods of high temperatures.
	pyraflufen ethyl ET	1.5 oz	Add 0.5% v/v crop oil.

HARVEST-AID FUNCTION	 HERBICIDE	BROADCAST RATE/ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)
	EAR	LY-SEASON (high	hs 90°F plus, lows 70°F plus) <i>(continued)</i>
Regrowth Control and Defoliation (continued)	thidiazuron + diuron (Numerous brands)	6.4-8 oz	Limited data are available with these products. Regrowth control is minimal when some brand products are applied at rates below 6.4 oz. Likelihood of leaf sticking may occur when temperatures exceed 94°F or when high rates are used.
(commueu)	glyphosate (Numerous brands) + tribufos	1.2-2 pt + 8-16 oz	Glyphosate WILL NOT provide regrowth suppression when applied to RF cotton. See specific labels for product rates.
	Def/Folex	0 10 02	
Boll Opening and Defoliation	ethephon (Numerous brands)	2-2.67 pt	
	ethephon (Numerous brands)+ ONE OF THE FOLLOWING:	1.33-1.5 pt +	
	carfentrazone Aim EC	0.75 oz	Add 0.25 % v/v non-ionic surfactant.
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add 0.5% v/v crop oil.
	tribufos Def/Folex	1-1.25 pt	
	thidiazuron (Numerous brands)	1.6 oz	
	thidiazuron + diuron (Numerous brands)	4-6 oz	Likelihood of "leaf sticking" is increased when applied at or above 5 oz in combinations of defoliants. Rate of 4 oz suggested during periods of high temperatures.
	ethephon + urea sulfate FirstPick + ONE OF THE FOLLOWING:	1.75-2 qt +	Likelihood of leaf sticking is increased during periods of high temperatures.
	carfentrazone Aim EC	0.75 oz	
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraftufen ethyl ET	1.5 oz	
	thidiazuron (Numerous brands)	1.6 oz	
	thidiazuron + diuron (Numerous brands)	4-6 oz	Likelihood of "leaf sticking" increases when applied at or above 5 oz in combinations of defoliants. Rate of 4 oz recommended during early season.
	tribufos Def/Folex	4-6 oz	

HARVEST-AID FUNCTION	HERBICIDE	BROADCAST RATE/ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)
	EAR	LY-SEASON (highs	90°F plus, lows 70°F plus) (continued)
Boll Opening and Defoliation (continued)	ethephon + cyclanilide Finish 6 Pro + ONE OF THE FOLLOWING:	1.33-1.5 pt +	
(commueu)	carfentrazone Aim EC	0.75 oz	Add 0.25 % v/v non-ionic surfactant.
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add 0.5% v/v crop oil.
	thidiazuron (Numerous brands)	1.6 oz	
	thidiazuron + diuron (Numerous brands)	4-6 oz	Likelihood of "leaf sticking" increases when applied at or above 5 oz in combinations of defoliants. Rate of 4 oz recommended during early season.
	tribufos Def/Folex	4-6 oz	
Boll Opening, Regrowth Control,	ethephon (Numerous brands) + ONE OF THE FOLLOWING:	1.33-1.5 pt +	Limited data are available for some products. Regrowth control is minimal when these products are applied at rates below 6.4 oz.
and Defoliation	thidiazuron (Numerous brands)	2-2.5 oz	
	thidiazuron + diuron (Numerous brands)	6.4 oz	
	ethephon (Numerous brands)	1.33-1.5 pt +	
	thidiazuron (Numerous brands) +	2-2.5 oz +	
	ONE OF THE FOLLOWING:		
	carfentrazone Aim EC	0.75 oz	Add 0.25 % v/v non-ionic surfactant.
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add 0.5% v/v crop oil.
	tribufos Def/Folex	6-12 oz	

HARVEST-AID FUNCTION	 HERBICIDE	BROADCAST RATE/ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)
	EARI	LY-SEASON (highs !	90°F plus, lows 70°F plus) (continued)
Boll Opening, Regrowth Control, and Defoliation	ethephon + urea sulfate FirstPick OR ethephon + cyclanilide	1.75-2 qt 1	Likelihood of "leaf sticking" is increased when temperatures exceed 94°F.
(continued)	Finish 6 Pro + ONE OF THE FOLLOWING: thidiazuron (Numerous brands) thidiazuron + diuron (Numerous brands)	0.33-1.5 pt + 1.6-2 oz 6.4 oz	Limited data are available with some products. Regrowth control is minimal when these products are
	thutuzuron + uturon (Numerous brailes)	0.4 02	applied at rates below 6.4 oz.
		MID-SEASON (hi	ghs 80-89°F plus, lows 60-70°F)
Defoliation Only (combinations provide	carfentrazone Aim EC	0.75-1 oz	Add 1% v/v crop oil for 0.75 oz rate. Add 0.25% non-ionic surfactant for 1 oz rate.
more consistent defoliation than a single product)	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add 1% v/v crop oil.
	sodium chlorate	4 lb ai	Apply to mature foliage only. Do not mix with products containing tribufos or ethephon.
	tribufos Def/Folex	1-1.5 pt	
Regrowth Control	thidiazuron (Numerous brands)	3.2 oz	
and Defoliation	thidiazuron (Numerous brands) OR glyphosate	2-2.5 oz 1.2-2 pt	Glyphosate WILL NOT provide regrowth suppression when applied to RF cotton. See specific labels for
	+ ONE OF THE FOLLOWING:	+ 1	product rates.
	carfentrazone Aim EC	0.75-1 oz	
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add 1% v/v crop oil.
	tribufos Def/Folex	1 pt	Add 0.25% v/v non-ionic surfactant to the 0.75 oz rate or 1% v/v crop oil to the 1 oz rate.
	thidiazuron + diuron (Numerous brands)	6.4-8 oz	Limited data are available with these products. Regrowth control is minimal when these products are applied at rates below 6.4 oz.

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HARVEST-AID FUNCTION	HERBICIDE	BROADCAST RATE/ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)				
	MID-S	SEASON (highs 80	0-89°F plus, lows 60-70°F) <i>(continued)</i>				
Boll Opening and	ethephon (Numerous brands)	2-2.67 pt					
Defoliation	ethephon (Numerous brands)	1.5-2 pt +					
	ONE OF THE FOLLOWING:	·					
	carfentrazone Aim EC	0.75-1 oz	Add 0.25% v/v non-ionic surfactant to the 0.75 oz rate or 1% v/v crop oil to the 1 oz rate.				
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.				
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.				
	fluthiacet-methyl Blizzard	0.5-0.6	Add 1 pt/A crop oil. Limited data, use precaution.				
	pyraflufen ethyl ET	1.5 oz	Add 1% v/v crop oil.				
	tribufos Def/Folex	1-1.25 pt					
	thidiazuron (Numerous brands)	1.6 oz					
	thidiazuron + diuron (Numerous brands)	6.4 oz	Limited data are available with some of these products				
	ethephon + urea sulfate FirstPick	2 qt +					
	ONE OF THE FOLLOWING:						
	carfentrazone Aim EC	0.75-1 oz					
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.				
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.				
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.				
	pyraflufen ethyl ET	1.5 oz					
	thidiazuron	1.6 oz					
	thidiazuron + diuron (Numerous brands)	5 oz	Limited data are available with some of these products.				
	tribufos Def/Folex	6-8 oz					

HARVEST-AID	HEDDICIDE	BROADCAST	REMARKS AND PRECAUTIONS
FUNCTION	HERBICIDE	RATE/ACRE	(The rates below are given in the broadcast amount per acre unless otherwise noted)
			89°F plus, lows 60-70°F) <i>(continued)</i>
Boll Opening and Defoliation	ethephon + cyclanilide Finish 6 Pro	1.33-1.5 pt +	
(continued)	ONE OF THE FOLLOWING:	+	
	carfentrazone Aim EC	0.75-1 oz	Add 0.25% v/v non-ionic surfactant to the 0.75 oz rate or 1% v/v crop oil to the 1 oz rate.
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add 1% v/v crop oil.
	tribufos Def/Folex	6-8 oz	
	thidiazuron (Numerous brands)	1.6 oz	
	thidiazuron + diuron (Numerous brands)	5 oz	Limited data are available with some of these products.
Boll Opening, Regrowth Control,	ethephon (numerous brands) + ONE OF THE FOLLOWING:	1.5-2 pt +	
and Defoliation	thidiazuron (Numerous brands)	2-2.5 oz	
	thidiazuron + diuron (Numerous brands)	6.4-8 oz	Limited data are available with some of these products.
	ethephon (Numerous brands)	1.5-2 pt	
	+ thidiazuron (Numerous brands)	+ 2-2.5 oz	
	+	+	
	ONE OF THE FOLLOWING:		
	carfentrazone Aim EC	0.75-1 oz	Add 0.25% v/v non-ionic surfactant to the 0.75 oz rate or 1% v/v crop oil to the 1 oz rate.
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.
	flumiclorac Resource	4 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.
	fluthiacet-methyl Blizzard	0.5 oz	Add 1 pt/A crop oil. Limited data, use precaution.
	pyraflufen ethyl ET	1.5 oz	Add 1% v/v crop oil.
	tribufos Def/Folex	8-12 oz	

HARVEST-AID FUNCTION	HERBICIDE	BROADCAST RATE/ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)						
	LATE-SEASON (highs below 80°F, lows below 60°F) In these conditions, proper defoliation may require a preconditioning treatment (see preconditioning section)								
Boll Opening, Regrowth Control, and Defoliation	ethephon + urea sulfate FirstPick OR	2 qt							
(continued)	ethephon + cyclanilide Finish 6 Pro + ONE OF THE FOLLOWING:	1.5-2 pt +							
	thidiazuron (Numerous brands)	2-2.5 oz							
	thidiazuron + diuron (Numerous brands)	6.4-8 oz	Limited data are available with some of these products.						
Defoliation Only (combinations provide more	carfentrazone Aim EC	1 oz							
consistent defoliation than a single product)	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.						
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.						
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.						
	pyraflufen ethyl ET	1.5 oz							
	sodium chlorate	4 lb ai							
	thidiazuron + diuron (Numerous brands)	8-10 oz	Limited data are available with some of these products.						
	tribufos Def/Folex + paraquat (Numerous brands)	1.5 pt + 1-6 oz	May cause crop desiccation and damage to unopened bolls.						

HARVEST-AID FUNCTION	HERBICIDE	BROADCAST RATE/ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)						
	LATE-SEASON (highs below 80°F, lows below 60°F) (continued) In these conditions, proper defoliation may require a preconditioning treatment (see preconditioning section)								
Boll Opening and	ethephon (Numerous brands)	2-2.67 pt							
Defoliation	ethephon (Numerous brands) + ONE OF THE FOLLOWING:	2-2.67 pt +							
	tribufos Def/Folex	1-1.25 pt							
	thidiazuron + diuron (Numerous brands)	6 oz	Limited data are available with some of these products.						
	carfentrazone Aim EC	1 oz	Add 1% v/v crop oil.						
	pyraflufen ethyl ET	1.5 oz	Add 1% v/v crop oil.						
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.						
	fluthiacet-methyl Blizzard	0.5-0.6	Add 1 pt/A crop oil. Limited data, use precaution.						
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.						
	ethephon + cyclanilide Finish 6 Pro	1.75-2 pt							
	+	+							
	ONE OF THE FOLLOWING:								
	carfentrazone Aim EC	1 oz	Add 1% v/v crop oil.						
	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.						
	flumiclorac Resource	4-6 oz	Add 1-2 pt/A crop oil. Limited data, use precaution.						
	fluthiacet-methyl Blizzard	0.5-0.6 oz	Add 1 pt/A crop oil. Limited data, use precaution.						
	pyraflufen ethyl ET	1.5 oz	Add 1% v/v crop oil.						
	thidiazuron + diuron (Numerous brands)	6 oz							
	tribufos Def/Folex	8-12 oz	Limited data are available with some of these products.						

PRECONDITIONING: Fields with a dense canopy of foliage and significant numbers of green bolls may require two applications. The goal is to remove much of the foliage with an initial application, exposing un-open bolls to sunlight and improving air circulation within the canopy. The follow-up application should be

made 7-10 days later when sufficient leaf drop has occurred to allow spray coverage with boll opening products containing *ethephon*. However, premature preconditioning or defoliation may increase the risk of halting development of younger or immature bolls, rendering them unharvestable.

TREATMENT	HERBICIDE	BROADCAST RATE/ ACRE	REMARKS AND PRECAUTIONS (The rates below are given in the broadcast amount per acre unless otherwise noted)	
Initial Preconditioning Treatment	carfentrazone Aim EC	1 oz	Add 1% v/v crop oil.	
Treatment	carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.	
	ethephon (Numerous brands)	0.67-1.33 pt		
	flumiclorac Resource	4 oz	Add 1-2 pt crop oil.	
	fluthiacet-methyl Blizzard	0.5 oz	Add 1 pt crop oil	
	glyphosate (Numerous brands)	1.2-2 pt	Glyphosate WILL NOT provide regrowth suppression when applied to RF cotton. See specific labels for product rates.	
	pyraflufen ethyl ET	1.5 oz	Add 0.5% v/v crop oil when temperatures are above 90°F. Add 1% v/v crop oil when temperatures are 89°F or below.	
	tribufos Def/Folex	0.5-1.25 pt		
Follow-up Treatments	Should include products containing ethepho	on with harvest aid mixtures li	sted in the previous table.	

HARVEST AID WEED MANAGEMENT

HERBICIDE	BROADCAST RATE/ ACRE	REMARKS AND PRECAUTIONS The rates below are given in the broadcast amount per acre unless otherwise noted.		
carfentrazone Aim EC	1 oz	Add 1% v/v crop oil. Effective on morningglory, coffee senna, and tropical spiderwort.		
carfentrazone + fluthiacet-methyl Display	up-1 oz	Limited data, adhere to label restrictions, use precaution.		
glyphosate (Numerous brands)	1.2-2 pt	Use in combination with Def/Folex, dimethipen (Harvade) and/or ethephon. Glyphosate provides fair regrowth suppression of cotton. However, glyphosate WILL NOT provide regrowth suppression when applied to RF cotton. See specific labels for product rates.		
paraquat Gramoxone Max, Firestorm, or Parazone	1-4 oz	Use in combinations with standard defoliation applications. May cause crop desiccation and damage to unopened bolls.		
Gramoxone Inteon	3-5 oz			
pyraflufen ethyl ET	1.5 oz	Add 0.5% v/v crop oil when temperatures are above 90°F. Add 1% v/v crop oil when temperatures are 89°F or below. Effective on morningglory.		
Follow-up Treatments Desiccants paraquat or sodium chlorate	See "Desiccants for Cotton Harvest Preparation" next page.			

DESICCANTS FOR COTTON HARVEST PREPARATION

	FORMULATION	BROADCAST RATE/ ACRE	SPRAY VOLUME (gal/A)			
DESICCANT	FORMULATION (lb ai/gal)	(AMOUNT OF FORMULATION)	Ground	Air	REMARKS AND PRECAUTIONS The rates below are given in the broadcast amount per acre unless otherwise noted.	
paraquat					For addition to defoliant mixtures in cotton at least 75% open. Improves activity	
Firestorm	3				in colder, late-season conditions. May cause crop desiccation and damage to unopened bolls.	
Gramoxone Inteon	2	3-5 oz	10-20	5		
Gramoxone Max	3	1-4 oz	10-20	5		
Parazone	3					
paraquat					For desiccation of weeds and cotton regrowth after defoliation. Add surfactant	
Gramoxone Max	3	5.5 oz-1.5 pt	10-20	5	at 1-2 qt/100 gal of spray solution. Be prepared to harvest in a timely manner to minimize bark problems. May cause crop desiccation and damage to unopened	
Firestorm	3				bolls.	
Parazone	3					
Gramoxone Inteon	2	1-2 pt	10-20	5		
sodium chlorate	4-6	3-6 lb ai	15-30	5-10		

PERFORMANCE RATING OF HARVEST AIDS BY FUNCTION

	FUNCTION								
CHEMICAL NAME	Removal of Mature Foliage	Removal of Juvenile Foliage	Boll Opening	Regrowth Suppression	Weed Desiccation				
ethephon (Numerous brands)	F-G	F	Е	Р	Р				
ethephon + urea sulfate First Pick	G	G	E+	Р	F				
ethephon + cyclanilide Finish 6 Pro	G-E	F-G	E+	F	P				
paraquat Gramoxone Max, Gramoxone Inteon, Parazone, Firestorm	F	F	P-F	Р	G				
PPO inhibitors Aim, ET, Resource, Blizzard	G	F	Р	Р	F				
sodium chlorate	F	P	P	P	F-G				
thidiazuron (Numerous brands)	G-E	G	P	G-E	P				
thidiazuron + diuron (Numerous brands)	G-E	G	Р	G-E	Р				
tribufos Def/Folex	G-E	P-F	Р	Р	P				

P – Poor, F – Fair, G – Good, E – Excellent