Cotton Harvest Aid Suggestions

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Defoliation Only, Field Cutout	Defoliation with Regrowth Anticipated	Defoliation & Boll Opening	Defoliation & Boll Opening with Regrowth Anticipated	TEMPERATURES		
				[1] Low ≥ 70° F High ≥ 85° F	[2] Low 60°-70° F High 75°-85° F	[3] Low <60° F High <75° F
				. . . . . Rate Per Acre		
Def 6/Folex 6EC				1.5 pt	1.5 - 2.0 pt	2.0 - 3.0 pt
Harvade 5F + COC*				0.5 pt + 1.0 pt	0.5 pt + 1.0 pt	0.5 pt + 1.0 pt
Finish 6SC				1.33 pt	2.0 pt	2.67 pt
CottonQuik				2.0 qt	2.0 qt	3.0 qt
	thidiazuron 50WP**			0.125 - 0.2 lb	0.15 - 0.2 lb	-----
	Def 6/Folex 6EC + thidiazuron 50WP**			1.0 - 1.5 pt + 0.1 - 0.15 lb	1.0 - 1.5 pt + 0.1 - 0.15 lb	2.0 pt + 0.1 - 0.15 lb
	Harvade 5F + COC* + thidiazuron 50WP**			0.5 pt + 1.0 pt + 0.1 lb	0.5 pt + 1.0 pt + 0.1 - 0.15 lb	0.5 pt + 1.0 pt + 0.1 - 0.15 lb
	Finish 6SC + thidiazuron 50WP**			1.33 pt + 0.1 lb	2.0 pt + 0.1 lb	2.67 pt + 0.1 - 0.15 lb
	CottonQuik + thidiazuron 50WP**			2.0 qt + 0.1 lb	2.0 qt + 0.1 lb	3.0 qt + 0.1 - 0.15 lb
		Def 6/Folex 6EC + ethephon 6EC***		1.33 - 1.5 pt + 1.33 pt	1.5 - 2.0 pt + 1.5 pt	1.5 - 2.0 pt + 1.5 - 2.0 pt
		Harvade 5F + COC* + Def 6/Folex 6EC + ethephon 6EC***		0.5 pt + 1.0 pt + 4.0 oz + 1.33 pt	0.5 pt + 1.0 pt + 6.0 oz + 1.5 pt	0.5 pt + 1.0 pt + 8.0 oz + 2.0 pt
		Harvade 5F + COC* + ethephon 6EC***		0.5 pt + 1.0 pt + 1.33 pt	0.5 pt + 1.0 pt + 1.5 pt	0.5 pt + 1.0 pt + 1.5 - 2.0 pt
		CottonQuik		2.0 qt	2.0 qt	3.0 qt
		CottonQuik + Def 6/Folex 6EC		2.0 qt + 8.0 oz *(rank growth)*	2.0 qt + 8.0 oz *(rank growth)*	3.0 qt + 8.0 oz *(rank growth)*
		thidiazuron 50WP** + ethephon 6EC***		0.1 - 0.15 lb + 1.33 pt	0.125 - 0.2 lb + 1.5 pt	-----
		Finish 6SC		1.33 pt	2.0 pt	2.67 pt
		Finish 6SC + Def 6/Folex 6EC		1.33 pt + 8.0 oz *(rank growth)*	2.0 pt + 8.0 oz *(rank growth)*	2.67 pt + 8.0 oz *(rank growth)*
			Def 6/Folex 6EC + thidiazuron 50WP** + ethephon 6EC***	4.0 -8.0 oz + 0.1 - 0.125 lb + 1.33 pt	4.0 - 8.0 oz + 0.125 - 0.15 lb + 1.5 pt	4.0 - 8.0 oz + 0.15 - 0.2 lb + 1.5 - 2.0 pt
			thidiazuron 50WP** + ethephon 6EC***	0.1 - 0.15 lb + 1.33 pt	0.125 - 0.15 lb + 1.5 pt	-----
			CottonQuik + thidiazuron 50WP**	2.0 qt + 0.1 lb	2.0 qt + 0.1 lb	3.0 qt + 0.1 - 0.15 lb
			Finish 6SC [4] + thidiazuron 50WP**	1.33 pt + 0.1 lb	2.0 pt + 0.1 lb	2.67 pt + 0.1 - 0.15 lb
			Harvade 5F + COC* + thidiazuron 50WP** + ethephon 6EC***	0.5 pt + 1.0 pt + 0.1 lb + 1.33 pt	0.5 pt + 1.0 pt + 0.1 -0.15 lb + 1.5 pt	0.5 pt + 1.0 pt + 0.1 -0.15 lb + 2.0 pt

Cotton Harvest Aid Suggestions, (cont.)

NOTES:

* COC = crop oil concentrate

** The active ingredient thidiazuron is available as the trade name products Dropp 50WP and FreeFall 50WP.

*** The active ingredient ethephon is available as 6EC formulations as a number of trade name products such as Prep, Ethephon, Super Boll, etc.

1. Low ≥70°F, High ≥85°F

- **a.** With drought stressed cotton, regrowth is likely where boll load is low to moderate and late season rainfall occurs.
- **b.** Regrowth suppression with Dropp 50WP/FreeFall 50WP increases with increasing rates. The activity of Dropp 50WP/FreeFall 50WP is temperature sensitive and declines as temperatures decline.
- **c.** With drought stress and high temperatures ($85°F) three way mixes and high rates of Def 6/Folex 6EC and Harvade have a tendency to rapidly desiccate and "stick" cotton leaves.
- **d.** Ethephon rates may be increased to 2.0 pt/A to accelerate boll opening.

2. Low 60°-70°F, High 75°-85°F

- **a.** With drought stressed cotton, regrowth is likely where boll load is low to moderate and late season rainfall occurs.
- **b.** Regrowth suppression with Dropp 50WP/FreeFall 50WP increases with increasing rates. The activity of Dropp 50WP/FreeFall 50WP is temperature sensitive and declines as temperatures decline.
- **c.** Ethephon rates may be increased to 2.0 pt/A to accelerate boll opening.

3. Low <60°F, High <75°F

- **a.** With cool conditions (highs <75°F, lows <60°F) it is advisable to delay defoliation treatments until warmer conditions return. Harvest aid treatments are much less effective at cool temperatures.
- **b.** Use of Dropp 50WP/FreeFall 50WP alone (without a tank mix partner) when nighttime temperatures are expected to fall below 60°F can result in less than desirable defoliation and/or regrowth inhibition. The use of adjuvants such as petroleum-based crop oil or penetrating oils approved for use on growing crops has been shown to improve performance during low nighttime temperatures (60°-65°F).

4. Some growers using ground application equipment experienced varying amounts of compatibility issues when Finish 6SC was mixed with phosphate defoliants such as Folex® and DEF®.
Check with your supplier for a list of compatibility agents.