

# COTMAN

**Extension perspective**

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# COTMAN

*“we are still chipping away at it”*



## Nodes Above White Flower



Concept has been around a long time

Mid-summer measurements as earliness indicators

*“Of these, the number of nodes above the last white flower was the quickest and easiest count to make.”*

Dr. B. A. Waddle  
1974 Beltwide article

# NAWF

as a measure of crop maturity

- Tested, Tested, Tested.
- Become more widely used in Arkansas.
  - 40-50% of producers
  - 60 % of consultants
- Talked about during Extension winter meetings.
- Termination rules part of U of A recommendations.



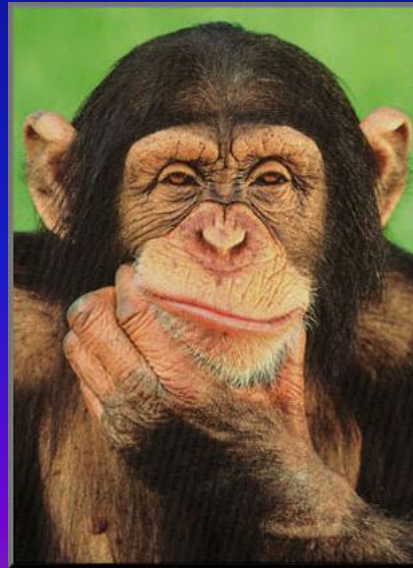
# Before NAWF Termination Rules

Scouted cotton through September 15th



## Since termination rules based on NAWF

- Few fields treated for plant bugs after 1<sup>st</sup> week of Aug.
- Insecticide terminated after mid-August for other fruit feeders.
- Irrigation termination.
- Defoliation applications.



## End-of season questions (calls I get every year)

- Do you think my field is finished?
- Don't you think I have enough heat units yet?
- I planted April 25<sup>th</sup>, do you think I am at NAWF yet?
- My neighbor said his field was at NAWF and mine looks like his, do you think I can quit spraying?



I know they are familiar with NAWF



Why is COTMAN  
not more  
widely used on-farm



- Time; Field to truck = information ready to go.
- Information stream to producers has changed.
  - More in-field projects with consultants.
  - More feed-back from consultants.
- Need more NAWF reporting in variety test results.
- Date of NAWF = 5 (by entering averages; ie. Smart phone app)

We still think in terms of “calendar” timing

2012

January							February							March							April						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4					1	2	3	1	2	3	4	5	6	7
8	9	10	11	12	13	14	5	6	7	8	9	10	11	4	5	6	7	8	9	10	8	9	10	11	12	13	14
15	16	17	18	19	20	21	12	13	14	15	16	17	18	11	12	13	14	15	16	17	15	16	17	18	19	20	21
22	23	24	25	26	27	28	19	20	21	22	23	24	25	18	19	20	21	22	23	24	22	23	24	25	26	27	28
29	30	31					26	27	28	29				25	26	27	28	29	30	31	29	30					
May							June							July							August						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2	1	2	3	4	5	6	7				1	2	3	4
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	31	
September							October							November							December						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1		1	2	3	4	5	6					1	2	3							1
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
30																					30	31					

Let the science work !

- When  $NAWF = 5$  early, don't chase the top bolls.
- I think I have time to fill out some top crop.
- I have plenty of time, I can wait on defoliation.

*Plant Physiology not Calendar!*

## Getting the message out

- Show and Tell a MUST!
  - On-farm demonstrations.
  - Field day meetings
  - Side-by-side comparisons.

**COTMAN**

NAWF = 4.0

**DEMONSTRATION**

*Conducted By*

**COOPERATIVE EXTENSION SERVICE  
UNIVERSITY OF ARKANSAS**

**&**

**Adkisson Farms**



Field at NAWF = 5

Very few white flowers visible from the road.

