

COTMAN

Extension perspective

Ray Benson
CES, Agriculture



DIVISION OF AGRICULTURE
RESEARCH & EXTENSION

University of Arkansas System

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.

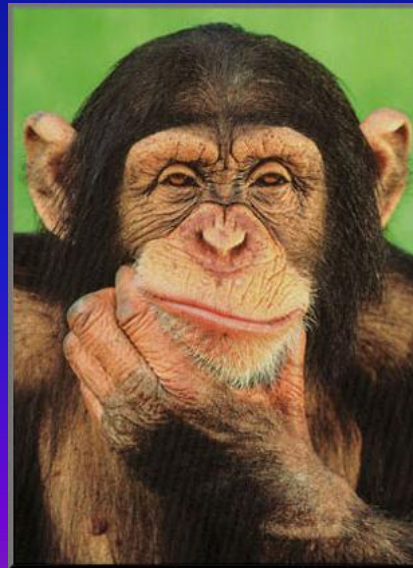
Before NAWF Termination Rules

Scouted cotton through September 15th



Since termination rules based on NAWF

- Few fields treated for plant bugs after 1st 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 25th, 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.

