



PREPARING FOR THE AUXIN TECHNOLOGIES

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PREPARING FOR THE AUXIN TECHNOLOGIES

A U. S. National Meeting of Cotton and Soybean Weed Specialists in conjunction with the Annual Meetings of the the Southern Weed Science Society, and the Weed Science Society of America at San Juan, Puerto Rico on February 11, 2016.



WEEDS ARE A HUGE CONCERN

Results of Cotton Incorporated Survey of Growers' Concerns

How would you rate the following cotton production concerns or challenges on your farm?	Major	Moderate	Not an Issue	2011 Rank	2015 Rank
Cotton production input costs	81%	16%	3%	1	1
Weed resistance to herbicides	69%	25%	6%	5	2
Weed control	64%	31%	5%	4	3
Cottonseed value	51%	40%	8%	7	4
Spread of plant diseases and weeds	42%	43%	14%	New	5
Seedling vigor and stand establishment	42%	40%	18%	6	6
Consumer attitudes about Ag's impact on the environment	40%	38%	22%	31	7
Cotton's tolerance to heat and drought	39%	48%	13%	3	8
Efficient use of fertilizer	37%	43%	20%	19	9
Adequate water supply	37%	35%	28%	15	10
Variety selection	34%	43%	23%	2	11
Plant bug control	32%	44%	24%	9	12



WEED RESISTANCE UPDATE

WEED RESISTANCE IS GETTING WORSE

**GLYPHOSATE RESISTANCE IS BELTWISE
EXCEPT IN THE SAN JOAQUIN VALLEY**

**GLUFOSINATE RESISTANCE IS PROBABLE
IN EASTERN NORTH CAROLINA**

**PPO RESISTANCE HAS BEEN CONFIRMED
IN THE NORTH DELTA – WILL AFFECT
SOYBEANS (POST) AND POSSIBLY
COTTON AS WELL (PRE)**



AUXIN TECHNOLOGIES FULL SYSTEMS



DICAMBA SYSTEM

VARIETIES



HERBICIDE



2,4- SYSTEM

VARIETIES



HERBICIDE





POTENTIAL SOURCES OF DAMAGE

TANK CONTAMINATION

DRIFT

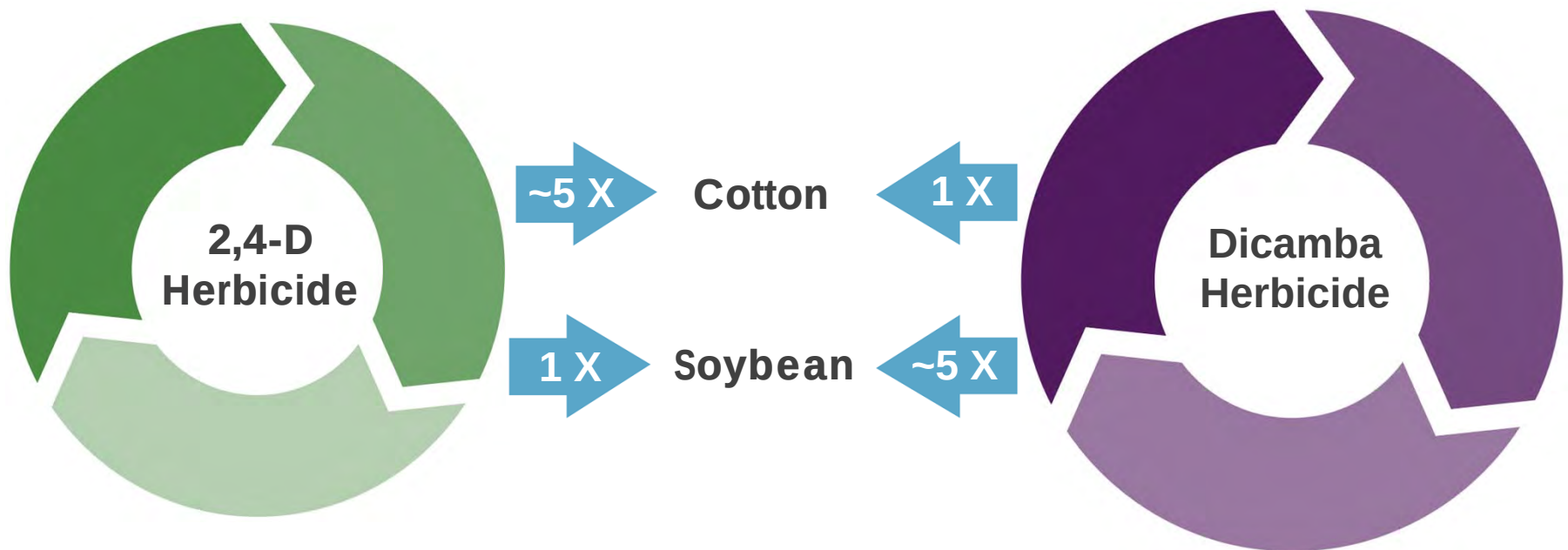
VOLATILIZATION





RELATIVE EFFECTS OF EXPOSURE

EVERYTHING COUNTS: VARIETY, STAGE OF GROWTH, RATE



NO DIRECT RELATIONSHIP OF FOLIAR SYMPTOMS & YIELD LOSS



RESPONSIBILITY FOR OFF-SITE MOVEMENT

TANK CONTAMINATION

CLEAN OUT - GROWER



DRIFT

APPLICATION - GROWER



VOLATILIZATION

FORMULATION MANUFACTURER





POTENTIAL DOWNSIDES

WHAT, WHO WILL BE CRITICIZED FOR OFF-SITE MOVEMENT ?



FARMERS



COTTON



PESTICIDES



GMOs

DO IT RIGHT

FOLLOW APPLICATION INSTRUCTIONS



INPUT COSTS ARE GROWER'S TOP CONCERN

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COTTON THEME FOR WEED MANAGEMENT



Logo - Dr. Neil Rhodes of Uni. TN