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PEACH RESPONSE TO SIMULATED 2,4-D CHOLINE AND  
AND DICAMBA-BAPMA DRIFT -TEST 2 - YEAR 1  
Trial ID: PEACH-01-17 Study Dir.: JEFF COOK  
Location: FORT VALLEY Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet  
Spray vol: 15 GAL/AC Mix Size: 1.5 liters (.58658 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Type	Amt Product to Measure	Rep 1	Rep 2	Rep 3
1	ENGENIA 0.1% V/V	5	SL		101	204	307
2	ENGENIA 0.01% V/V	5	SL		102	207	306
3	ENGENIA 0.005% V/V	5	SL		103	205	301
4	2,4-D CHOLINE 0.1% V/V	3.8	SL		104	203	302
5	2,4-D CHOLINE 0.01% V/V	3.8	SL		105	206	304
6	2,4-D CHOLINE 0.005% V/V	3.8	SL		106	202	303
7	NTC				107	201	305

Sort Order: Treatment

### Trial Comments

.1% V/V OF 1500 MLS = 1.5 MLS (1500 MICROLITERS)  
0.01% V/V OF 1500 MLS = 0.15 MLS (150 MICROLITERS)  
0.005% V/V OF 1500 MLS = 0.075 MLS (75 MICROLITERS)

~9 YEAR OLD PEACH TREES (SPRING PRINCE)  
STAGE OF GROWTH: PIT HARDENING

TRIAL LOCATION: N32.519330/W-83.866135

BASED UPON 15 GPA AND ENGENIA @ 12.8 OZ/A AND 2,4-D CHOLINE @ 16 OZ/A, THESE RATES WOULD BE EQUIVALENT TO THE FOLLOWING FIELD APPLICATION RATES:

#### ENGENIA

0.1% V/V = 0.15X (1/6.7TH RATE)  
0.01% V/V = 0.015X (1/67TH RATE)  
0.005% V/V = 0.0075X (1/133TH RATE)

#### 2,4-D CHOLINE

0.1% V/V = 0.12 (1/8.3TH RATE)  
0.01% V/V = 0.012X (1/83TH RATE)  
0.005% V/V = 0.006X (1/167TH RATE)

SPRAYED 1/2 TREE FROM MIDDLE TO RIGHT (SOUTHERN HALF)  
40 PSI, 11002DG SPRAY TIPS (3), 20" SPACING, VERTICAL ORIENTATION

#### VISUAL RATINGS - 2 WAT:

TREE INJURY = % OF WHOLE TREE SHOWING INJURY SYMPTOMS  
INJURY SEVERITY: SCALE 1 - 10, 1 = NO INJURY, 10 = COMPLETE DEATH  
LEAF DROP: 1 = NONE, 2 = SLIGHT, 3 = MODERATE, 4 = SEVERE

PEACH HARVEST ON MAY 25: FRUIT 1.5" OR BIGGER WERE HARVESTED REGARDLESS OF COLOR BUT MOST HAD GOOD COLOR. BUTTONS WERE NOT HARVESTED.

INSUFFICIENT CHILL HOURS OCCURED FOR THIS PEACH VARIETY. THUS, YIELD WERE LOWER THAN ANTICIPATED

#### SUMMARY:

- 1) ALL RATES OF DICAMBA CAUSED SIGNIFICANT PEACH INJURY.
- 2) ONLY THE 0.1% V/V RATE OF 2,4-D CHOLINE CAUSED SIGNIFICANT PEACH INJURY.
- 3) PEACH YIELDS WERE NOT REDUCED BY ANY TREATMENT (P=0.1413).

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: _____	_____	_____	_____	_____	_____	_____
	Stage Scale: _____	_____	_____	_____	_____	_____	_____
	Density, Unit: _____	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	40	_____	_____	_____	_____	_____	_____
Nozzle Type:	FLAT FAN	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002DG	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	_____	_____	_____	_____	_____	_____	_____
Ground Speed, Unit:	_____	_____	_____	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	_____	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____	_____
Tank Mix (Y/N):	_____	_____	_____	_____	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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Weed Code	----- PEACH	----- PEACH	----- PEACH	----- PEACH	----- PEACH		
Crop Code	TREE -	INJURY -	LEAF -	TREE -	TREE -		
Part Rated	INJURY	SEVERITY	DROP	YIELD	YIELD		
Rating Data Type	PERCENT	1-10	1-4	LBS/TREE	LBS/TREE		
Rating Unit	May-25-17	May-25-17	May-25-17	May-25-17	May-25-17		
Rating Date	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A		
Trt-Eval Interval							
Trt No.	Treatment Name	Form Conc	Form Type	1	2	3	4
1	ENGENIA 0.1% V/V	5	SL	55.0 a	6.67 a	1.7 a	10.90 a
2	ENGENIA 0.01% V/V	5	SL	50.0 a	2.50 bc	1.0 b	12.10 a
3	ENGENIA 0.005% V/V	5	SL	50.0 a	2.17 c	1.0 b	14.00 a
4	2,4-D CHOLINE 0.1% V/V	3.8	SL	50.0 a	3.33 b	1.3 ab	18.03 a
5	2,4-D CHOLINE 0.01% V/V	3.8	SL	0.0 b	1.00 d	1.0 b	9.27 a
6	2,4-D CHOLINE 0.005% V/V	3.8	SL	0.0 b	1.00 d	1.0 b	5.23 a
7	NTC			0.0 b	1.00 d	1.0 b	9.77 a
LSD P=.10				4.76	0.874	0.43	7.120
Standard Deviation				3.27	0.601	0.30	4.892
CV				11.18	23.81	25.85	43.19
Grand Mean				29.29	2.524	1.14	11.329
Bartlett's X2				0.0	3.128	0.0	7.126
P(Bartlett's X2)				.	0.372	.	0.309
Replicate F				1.000	0.923	1.636	2.944
Replicate Prob(F)				0.3966	0.4238	0.2353	0.0912
Treatment F				211.000	34.495	2.364	2.020
Treatment Prob(F)				0.0001	0.0001	0.0965	0.1413
<b>Part Rated</b>							
LEAF = LEAF / FOLIAGE							

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code			-----	---	-----	-----
Crop Code			PEACH	PEACH	PEACH	PEACH
Part Rated			TREE -	INJURY -	LEAF -	TREE -
Rating Data Type			INJURY	SEVERITY	DROP	YIELD
Rating Unit			PERCENT	1-10	1-4	LBS/TREE
Rating Date			May-25-17	May-25-17	May-25-17	May-25-17
Trt-Eval Interval			14 DA-A	14 DA-A	14 DA-A	14 DA-A
Trt Treatment	Form Form					
No. Name	Conc Type Plot		1	2	3	4
1 ENGENIA 0.1% V/V	5 SL	101	65.0	6.00	2.0	10.20
		204	50.0	7.00	1.0	7.10
		307	50.0	7.00	2.0	15.40
		Mean =	55.0	6.67	1.7	10.90
2 ENGENIA 0.01% V/V	5 SL	102	50.0	3.50	1.0	15.90
		207	50.0	2.00	1.0	7.10
		306	50.0	2.00	1.0	13.30
		Mean =	50.0	2.50	1.0	12.10
3 ENGENIA 0.005% V/V	5 SL	103	50.0	2.50	1.0	19.50
		205	50.0	2.00	1.0	14.10
		301	50.0	2.00	1.0	8.40
		Mean =	50.0	2.17	1.0	14.00
4 2,4-D CHOLINE 0.1% V/V	3.8 SL	104	50.0	4.00	1.0	22.50
		203	50.0	2.00	1.0	6.00
		302	50.0	4.00	2.0	25.60
		Mean =	50.0	3.33	1.3	18.03
5 2,4-D CHOLINE 0.01% V/V	3.8 SL	105	0.0	1.00	1.0	8.60
		206	0.0	1.00	1.0	4.50
		304	0.0	1.00	1.0	14.70
		Mean =	0.0	1.00	1.0	9.27
6 2,4-D CHOLINE 0.005% V/V	3.8 SL	106	0.0	1.00	1.0	4.20
		202	0.0	1.00	1.0	6.90
		303	0.0	1.00	1.0	4.60
		Mean =	0.0	1.00	1.0	5.23
7 NTC		107	0.0	1.00	1.0	12.50
		201	0.0	1.00	1.0	8.00
		305	0.0	1.00	1.0	8.80
	Mean =	0.0	1.00	1.0	9.77	

Part Rated  
 LEAF = LEAF / FOLIAGE