### SCDA Chemical Residue State Report Fiscal Year 2015 -16

**Sherry Garris & Chanin Craft** 



## Only 4 Over Tolerance Violations in FY 15-16

Cilantro - Cyfluthrin

Tomatoes - Cypermethrin

Pears - Iprodione

Oregano - Myclobutanil

# Up to 5 pesticides were detected on a single sample

of Pesticides	Commodity	
found		
5	2 Blueberries	
5	1 Peach	
4	1 Apple	
4	2 Blackberries	
4	3 Blueberries	
4	1 Peach	
4	4 Strawberries	

<sup>\*</sup> Multiple matrices contained 3 residues including apples, blackberries, blueberries, celery, raspberries, strawberries and tomatoes

#### 926 Fruit & Vegetables Analyzed 27 of 120 Pesticides were Detected

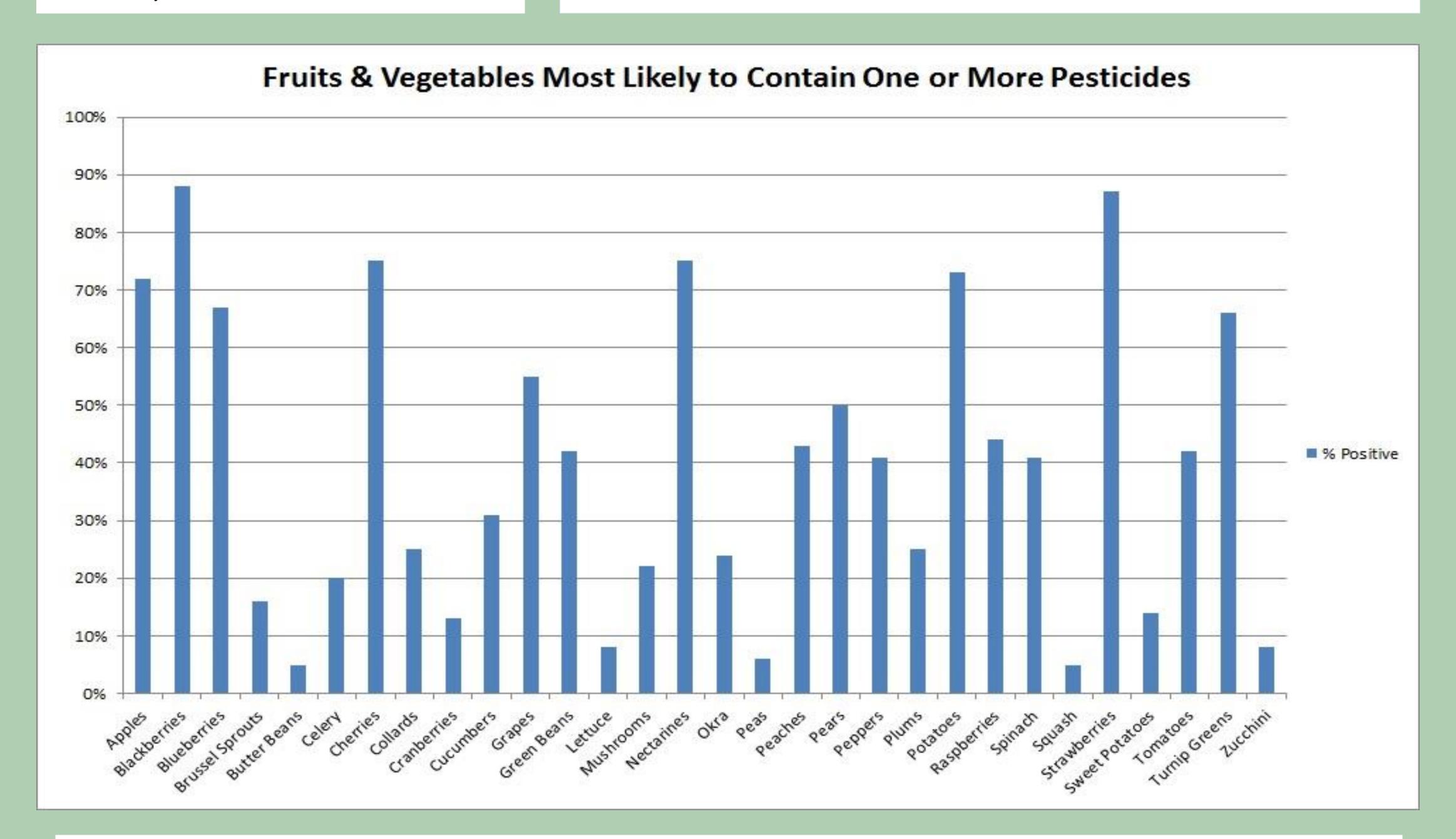
**Analyte Name** 

# Found

The state of the s	The Delivery of the Control of the C
Acephate	2
Azinphos Methyl	1
Bifenthrin	53
Boscalid	68
Captan	54
Carbaryl	2
Chlorothalonil	44
Chlorpropham	8
Chlorpyrifos Ethyl	8
Cyfluthrin	2
Cypermethrin	25
Cyprodinil	28
Dicloran	2
DPA	13
Esfenvalerate	5
Fenhexamid	14
Fludioxonil	37
Iprodione	4
Lambda Cyhalothrin	1
Malathion	9
Metalaxyl	2
Myclobutanil	21
Permethrin	12
Phosmet	9
Propiconazole	2
Pyraclostrobin	1
Thiabendazole	13

The SCDA Chemical Residue Lab analyzes fruits & vegetables sold state wide to detect any possible chemical adulterants that may be present. A Market Basket survey is conducted of individual lots as close as possible to their point of entry into the distribution system. The goal is to determine if the amounts and types of pesticides found on fruits and vegetables are in accordance with the tolerances set by the EPA. When illegal residues are found the FDA or the SCDA can impose various sanctions. The SCDA uses the DPX extraction method & GC/ECD and GC/MS instrumentation in their **Chemical Residue Lab located in West** Columbia, South Carolina.

	Sam	ples with n	o Detecti	ons	
Matrix	Number Received	Matrix	Number Received	Matrix	Number Received
Asparagus	9	Dog Food	7	Oregano	1
Avocado	1	Edamame	1	Papaya	1
Banana	1	Fig	1	Parsnips	1
Basil	1	<b>Ginger Root</b>	1	Peanuts	2
Beets	1	Horse Feed	4	Pecans	1
Broccoli	26	Kale	2	Pig Starter	1
Cantaloupe	3	Lemons	2	Radish	6
Carrots	49	Mango	4	<b>Turkey Feed</b>	1
Cauliflower	6	Oranges	1	Soy Nuts	1
Corn	29	Orange Juice	5	Walnuts	1



### Number Received and % Positive of Every Matrix in FY 15-16

Matrix	#	%
Matrix	Rec.	Pos.
Apples	25	<b>72</b> %
Apricots	1	100%
Asparagus	9	0%
Avocado	1	0%
Bananas	1	0%
Basil	2	0%
Beets	1	0%
Blackberries	17	88%
Blueberries	39	67%
Broccoli	26	0%
<b>Brussel Sprouts</b>	19	16%
<b>Butter Beans</b>	22	5%
Cantaloupe	3	0%
Carrots	49	0%
Cauliflower	6	0%
Celery	<b>15</b>	20%
Cherries	4	<b>75</b> %
Cilantro	1	100%
Collards	4	25%
Corn	29	0%
Cranberries	8	13%

Matrix	#	%
	Rec.	Pos.
Cucumbers	39	31%
Edamame	1	0%
Figs	1	0%
<b>Ginger Root</b>	1	0%
Grapes	11	55%
<b>Grape Juice</b>	2	<b>50</b> %
<b>Green Beans</b>	<b>52</b>	42%
Kale	2	0%
Kiwi	1	100%
Lemons	1	0%
Mango	4	0%
Mushrooms	46	22%
Nectarines	4	<b>75</b> %
Okra	37	24%
Oranges	1	0%
Orange Juice	5	0%
Oregano	1	100%
Papaya	1	0%
Parsnips	1	0%
Peaches	14	43%
Peanuts	2	0%

Matrix	#	%
IVIALITA	Rec.	Pos.
Pears	10	50%
Peas	48	6%
Pecans	1	0%
Peppers	29	41%
Plums	4	25%
Potatoes	11	73%
Radish	6	0%
Raspberries	16	44%
Soy Nut	1	0%
Spinach	17	41%
Squash	21	5%
Strawberries	45	87%
<b>Sweet Potatoes</b>	7	14%
Tomatoes	<b>72</b>	42%
Turnips	2	0%
Turnip Greens	6	66%
Walnuts	1	0%
Zucchini	12	8%

Highlighted samples contain one over tolerance violation