

## **Report of Pesticide Residue Levels in Fruits and Vegetables Analysed in January 2016**

9 samples were collected from farm gate level by Extension Officers of FAREI.

The samples were analysed using Gas Chromatograph with Mass Spectrometry (GCMSMS) and Liquid Chromatograph with Mass Spectrometry (LCMSMS) for the detection of the following pesticides: azoxytrobin, boscalid, cyfluthrin, cypermethrin, chlorpyrifos, deltamethrin, difenoconazole, hexaconazole, indoxacarb, fenthion, fluopicolid, lambda cyhalothrin, lufenuron, malathion, metalaxyl, profenofos, pyraclostrobin, spiromesifen, spinosad, tebuconazole and vinclozolin.

Out of 9 samples analysed, in 33% of samples no pesticide residues were detected, in 56% presence of pesticide residues were below the Codex Maximum Residue Level (MRL) and 11% exceeded the Codex MRL. The results are shown in the following tables.

**Table 1 showing pesticide residues in samples analysed**

SN	Samples	No. of samples analysed	No. of samples having NO pesticide residues	No. of samples having pesticide residues BELOW MRL	No. of samples having pesticide residues ABOVE MRL
1	Asparagus beans (Voehm)	1	Nil	Nil	1
2	Beans	1	Nil	1	Nil
3	Brinjal	3	Nil	3	Nil
4	Calabash	1	1	Nil	Nil
5	Papaya	1	1	Nil	Nil
6	Snake gourde	2	1	1	Nil
<b>TOTAL</b>		<b>9</b>	<b>3</b>	<b>5</b>	<b>1</b>
<b>Percentage (%)</b>		<b>.....</b>	<b>33</b>	<b>56</b>	<b>11</b>

**Table 2 showing pesticide residue levels detected in vegetables**

Vegetables with insecticides above MRL	Insecticides detected	Amount Detected (mg/kg)	FAO Codex MRL (mg/kg)	No. of times exceeding MRL
(i) Voehm	<b>Cypermethrin</b> <i>(also found profenofos below MRL)</i>	<b>0.83</b> 0.03	<b>0.7</b> N/A	<b>1</b>
(ii) Beans	Cypermethrin	0.60	0.7	-
(iii) Brinjal	Fenthion Cypermethrin $\lambda$ -cyhalothrin	0.01 0.02 0.10	N/A 0.03 Fruiting veg:0.3	-

