



ACHIVEMENTS
Department of Entomology
N. M. College of Agriculture
Navsari Agricultural University, Navsari (Gujarat)



A. Awards

Sr. No.	Name of award	Year
1	Gujarat Pesticides Formulation Association Award for the year	2000
2	Gujarat Pesticides Formulation Association Award for the year	2001
3	Hari Om Ashram Sponsored Prof. J. P. Trivedi Award for the year	2003
4	AMAI Crop Protection Award for the year	2004
5	AMAI Crop Protection Award for the year	2005-06
6	Best Teacher Award (Dr. G. G. Radadia)	2013-14
7	Best paper award: Vasantdada Patil Memorial Prize, K. S. Kale Memorial Prize, DSTA Prize by The Deccan Sugar Technologists Association (DSTA), Pune	2015-16
8	Best Teacher Award (Dr. Sachin R. Patel)	2024

B. Seminar/training organized:

- 1) One day state level seminar on “**Role of bio agent in integrated pest management**” was organised in Sept., 2006
- 2) One day state level seminar on “**Dharuvadiya ane Rakshit Khetima Pak Sanrakshan**” was organised in Feb., 2013
- 3) One day state level seminar on “**Plant Protection in Organic Farming**” was organised in 11th June, 2016
- 4) Ten days ICAR Sponsored Short Course Training Programme on “**Risk Assessment and Management of Non Insect Pests for Sustainable Agriculture**” during 7th to 16th January, 2019.

C. Post graduate/Ph.D. thesis

Sr. No.	Year	No. of M.Sc. (Agri.)	No. of Ph.D.	Total
1	2004	03	02	05
2	2005	06	02	8
3	2006	11	04	08
4	2007	02	00	15
5	2008	07	02	09
6	2009	09	02	11

Sr. No.	Year	No. of M.Sc. (Agri.)	No. of Ph.D.	Total
7	2010	07	01	08
8	2011	12	03	15
9	2012	03	04	07
10	2013	08	03	11
11	2014	07	08	15
12	2015	09	03	12
13	2016	11	02	13
14	2017	10	02	12
15	2018	09	04	13
16	2019	14	04	18
17	2020	10	07	17
18	2021	00	01	01
19	2022	12	09	21
20	2023	16	05	21
21	2024	06	03	09

D. Research recommendations (2016-17 to 2023-24)

Sr.	Title and Recommendation	Approval Year																																																																																																																																		
1.	<p><i>In vitro</i> compatibility of <i>Lecanicillium lecanii</i> with insecticides The farmers are recommended to refer the following table for mixing <i>Lecanicillium lecanii</i> with different insecticides.</p> <p>Table: Compatibility of <i>Lecanicillium lecanii</i> with insecticides</p> <table border="1"> <thead> <tr> <th rowspan="2">Tr No</th> <th rowspan="2">Insecticides</th> <th colspan="3">0.5 X RD</th> <th colspan="3">1 X RD</th> <th colspan="3">2 X RD</th> </tr> <tr> <th>% Conc.</th> <th>Dose (ml or g per 10 l)</th> <th>Farmer are advised to mix the insecticides with (Yes/No)</th> <th>% Conc.</th> <th>Dose (ml or g per 10 l)</th> <th>Farmer are advised to mix the insecticides with (Yes/No)</th> <th>% Conc.</th> <th>Dose (ml or g per 10 l)</th> <th>Farmer are advised to mix the insecticides with (Yes/No)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Afidopyropen 50DC</td><td>0.003</td><td>0.60</td><td>No</td><td>0.005</td><td>1.20</td><td>No</td><td>0.010</td><td>2.40</td><td>No</td></tr> <tr><td>2</td><td>Buprofezin 25SC</td><td>0.0170</td><td>6.60</td><td>Yes</td><td>0.033</td><td>13.20</td><td>No</td><td>0.067</td><td>26.40</td><td>No</td></tr> <tr><td>3</td><td>Clothianidin 50WDG</td><td>0.003</td><td>0.50</td><td>Yes</td><td>0.005</td><td>1.00</td><td>Yes</td><td>0.010</td><td>20.00</td><td>No</td></tr> <tr><td>4</td><td>Cyantraniliprole 10.26OD</td><td>0.009</td><td>8.70</td><td>No</td><td>0.018</td><td>17.40</td><td>No</td><td>0.036</td><td>34.80</td><td>No</td></tr> <tr><td>5</td><td>Dinotefuran 20SG</td><td>0.004</td><td>2.00</td><td>Yes</td><td>0.008</td><td>4.00</td><td>Yes</td><td>0.016</td><td>80.00</td><td>No</td></tr> <tr><td>6</td><td>Emamectin benzoate 5 SG</td><td>0.0013</td><td>2.60</td><td>No</td><td>0.003</td><td>5.20</td><td>No</td><td>0.005</td><td>10.40</td><td>No</td></tr> <tr><td>7</td><td>Fenpyroximate 5 EC</td><td>0.0025</td><td>5.00</td><td>No</td><td>0.005</td><td>10.00</td><td>No</td><td>0.010</td><td>20.00</td><td>No</td></tr> <tr><td>8</td><td>Thiacloprid 21.7SC</td><td>0.014</td><td>6.70</td><td>No</td><td>0.029</td><td>13.40</td><td>No</td><td>0.058</td><td>26.80</td><td>No</td></tr> <tr><td>9</td><td>Tolfenpyrad 15EC</td><td>0.015</td><td>10.00</td><td>No</td><td>0.030</td><td>20.00</td><td>No</td><td>0.060</td><td>40.00</td><td>No</td></tr> <tr><td>10</td><td>Spiromesifen 22.90SC</td><td>0.010</td><td>4.10</td><td>Yes</td><td>0.019</td><td>8.20</td><td>No</td><td>0.038</td><td>16.40</td><td>No</td></tr> </tbody> </table>	Tr No	Insecticides	0.5 X RD			1 X RD			2 X RD			% Conc.	Dose (ml or g per 10 l)	Farmer are advised to mix the insecticides with (Yes/No)	% Conc.	Dose (ml or g per 10 l)	Farmer are advised to mix the insecticides with (Yes/No)	% Conc.	Dose (ml or g per 10 l)	Farmer are advised to mix the insecticides with (Yes/No)	1	Afidopyropen 50DC	0.003	0.60	No	0.005	1.20	No	0.010	2.40	No	2	Buprofezin 25SC	0.0170	6.60	Yes	0.033	13.20	No	0.067	26.40	No	3	Clothianidin 50WDG	0.003	0.50	Yes	0.005	1.00	Yes	0.010	20.00	No	4	Cyantraniliprole 10.26OD	0.009	8.70	No	0.018	17.40	No	0.036	34.80	No	5	Dinotefuran 20SG	0.004	2.00	Yes	0.008	4.00	Yes	0.016	80.00	No	6	Emamectin benzoate 5 SG	0.0013	2.60	No	0.003	5.20	No	0.005	10.40	No	7	Fenpyroximate 5 EC	0.0025	5.00	No	0.005	10.00	No	0.010	20.00	No	8	Thiacloprid 21.7SC	0.014	6.70	No	0.029	13.40	No	0.058	26.80	No	9	Tolfenpyrad 15EC	0.015	10.00	No	0.030	20.00	No	0.060	40.00	No	10	Spiromesifen 22.90SC	0.010	4.10	Yes	0.019	8.20	No	0.038	16.40	No	2024
Tr No	Insecticides			0.5 X RD			1 X RD			2 X RD																																																																																																																										
		% Conc.	Dose (ml or g per 10 l)	Farmer are advised to mix the insecticides with (Yes/No)	% Conc.	Dose (ml or g per 10 l)	Farmer are advised to mix the insecticides with (Yes/No)	% Conc.	Dose (ml or g per 10 l)	Farmer are advised to mix the insecticides with (Yes/No)																																																																																																																										
1	Afidopyropen 50DC	0.003	0.60	No	0.005	1.20	No	0.010	2.40	No																																																																																																																										
2	Buprofezin 25SC	0.0170	6.60	Yes	0.033	13.20	No	0.067	26.40	No																																																																																																																										
3	Clothianidin 50WDG	0.003	0.50	Yes	0.005	1.00	Yes	0.010	20.00	No																																																																																																																										
4	Cyantraniliprole 10.26OD	0.009	8.70	No	0.018	17.40	No	0.036	34.80	No																																																																																																																										
5	Dinotefuran 20SG	0.004	2.00	Yes	0.008	4.00	Yes	0.016	80.00	No																																																																																																																										
6	Emamectin benzoate 5 SG	0.0013	2.60	No	0.003	5.20	No	0.005	10.40	No																																																																																																																										
7	Fenpyroximate 5 EC	0.0025	5.00	No	0.005	10.00	No	0.010	20.00	No																																																																																																																										
8	Thiacloprid 21.7SC	0.014	6.70	No	0.029	13.40	No	0.058	26.80	No																																																																																																																										
9	Tolfenpyrad 15EC	0.015	10.00	No	0.030	20.00	No	0.060	40.00	No																																																																																																																										
10	Spiromesifen 22.90SC	0.010	4.10	Yes	0.019	8.20	No	0.038	16.40	No																																																																																																																										

Sr.	Title and Recommendation										Approval Year																																																																																																																																																																																																																																					
	11	Flonicamid 50WG	0.008	0.15	Yes	0.015	0.30	Yes	0.030	0.60	No																																																																																																																																																																																																																																					
	12	Fipronil 5SC	0.005	10.00	No	0.010	20.00	No	0.020	40.00	No																																																																																																																																																																																																																																					
	13	Dimethoate 30EC	0.020	6.60	No	0.040	13.20	No	0.080	26.40	No																																																																																																																																																																																																																																					
	14	Spinosad 45SC	0.0068	1.50	Yes	0.014	3.00	No	0.027	6.00	No																																																																																																																																																																																																																																					
	15	Diafenthiuron 50WP	0.0250	5.00	Yes	0.050	10.00	No	0.100	20.00	No																																																																																																																																																																																																																																					
	16	Chlorantraniliprole 18.5SC	0.0028	1.50	Yes	0.006	3.20	No	0.011	5.90	No																																																																																																																																																																																																																																					
	17	Imidacloprid 17.8SL	0.0027	1.50	Yes	0.005	3.00	No	0.011	6.00	No																																																																																																																																																																																																																																					
	18	Acetamiprid 20SP	0.0040	2.00	No	0.008	4.00	No	0.016	8.00	No																																																																																																																																																																																																																																					
	19	Thiamethoxam 25WG	0.0050	2.00	Yes	0.010	4.00	No	0.020	8.00	No																																																																																																																																																																																																																																					
	(Professor & Head, Deptt. of Entomology, NMCA, NAU Navsari)																																																																																																																																																																																																																																															
2.	<p><i>In vitro</i> compatibility of <i>Metarhizium anisopliae</i> with insecticides</p> <p>The farmers are advised to refer the following table for mixing <i>M. anisopliae</i> with different insecticides.</p> <p>Table: Compatibility of <i>Metarhizium anisopliae</i> with insecticides</p> <table border="1"> <thead> <tr> <th rowspan="2">Tr. No</th> <th rowspan="2">Insecticides</th> <th colspan="3">0.5 X RD</th> <th colspan="3">1 X RD</th> <th colspan="3">2 X RD</th> </tr> <tr> <th>% Conc.</th> <th>Dose (ml or g per l)</th> <th>Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)</th> <th>% Conc.</th> <th>Dose (ml or g per l)</th> <th>Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)</th> <th>% Conc.</th> <th>Dose (ml or g per l)</th> <th>Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Profenophos 50EC</td> <td>0.0500</td> <td>1.00</td> <td>No</td> <td>0.100</td> <td>2.00</td> <td>No</td> <td>0.200</td> <td>4.00</td> <td>No</td> </tr> <tr> <td>2</td> <td>Quinalphos 25EC</td> <td>0.0250</td> <td>1.00</td> <td>Yes</td> <td>0.050</td> <td>2.00</td> <td>Yes</td> <td>0.100</td> <td>4.00</td> <td>No</td> </tr> <tr> <td>3</td> <td>Dimethoate 30EC</td> <td>0.0150</td> <td>0.50</td> <td>Yes</td> <td>0.030</td> <td>1.00</td> <td>Yes</td> <td>0.060</td> <td>2.00</td> <td>No</td> </tr> <tr> <td>4</td> <td>Cypermethrin 10EC</td> <td>0.0050</td> <td>0.50</td> <td>Yes</td> <td>0.010</td> <td>1.00</td> <td>Yes</td> <td>0.020</td> <td>2.00</td> <td>Yes</td> </tr> <tr> <td>5</td> <td>Deltamethrin 2.8EC</td> <td>0.0014</td> <td>0.50</td> <td>Yes</td> <td>0.003</td> <td>1.07</td> <td>Yes</td> <td>0.006</td> <td>2.14</td> <td>No</td> </tr> <tr> <td>6</td> <td>Lambda cyhalothrin 5EC</td> <td>0.0013</td> <td>0.26</td> <td>Yes</td> <td>0.003</td> <td>0.60</td> <td>No</td> <td>0.005</td> <td>1.00</td> <td>No</td> </tr> <tr> <td>7</td> <td>Spinosad 45SC</td> <td>0.0068</td> <td>0.15</td> <td>No</td> <td>0.014</td> <td>0.31</td> <td>No</td> <td>0.027</td> <td>0.60</td> <td>No</td> </tr> <tr> <td>8</td> <td>Indoxacarb 14.5SC</td> <td>0.0036</td> <td>0.25</td> <td>No</td> <td>0.007</td> <td>0.48</td> <td>No</td> <td>0.015</td> <td>1.03</td> <td>No</td> </tr> <tr> <td>9</td> <td>Fipronil 5SC</td> <td>0.0050</td> <td>1.00</td> <td>No</td> <td>0.010</td> <td>2.00</td> <td>No</td> <td>0.020</td> <td>4.00</td> <td>No</td> </tr> <tr> <td>10</td> <td>Diafenthiuron 50WP</td> <td>0.0250</td> <td>0.50</td> <td>Yes</td> <td>0.050</td> <td>1.00</td> <td>Yes</td> <td>0.100</td> <td>2.00</td> <td>No</td> </tr> <tr> <td>11</td> <td>Flubendiamide 39.35SC</td> <td>0.0059</td> <td>0.15</td> <td>No</td> <td>0.012</td> <td>0.30</td> <td>No</td> <td>0.024</td> <td>0.61</td> <td>No</td> </tr> <tr> <td>12</td> <td>Chlorantraniliprole 18.5SC</td> <td>0.0028</td> <td>0.15</td> <td>Yes</td> <td>0.006</td> <td>0.32</td> <td>Yes</td> <td>0.011</td> <td>0.59</td> <td>No</td> </tr> <tr> <td>13</td> <td>Cyantraniliprole 10.26OD</td> <td>0.0062</td> <td>0.60</td> <td>No</td> <td>0.012</td> <td>1.17</td> <td>No</td> <td>0.025</td> <td>2.44</td> <td>No</td> </tr> <tr> <td>14</td> <td>Emamectin benzoate 5SG</td> <td>0.0013</td> <td>0.26</td> <td>No</td> <td>0.003</td> <td>0.60</td> <td>No</td> <td>0.005</td> <td>1.00</td> <td>No</td> </tr> <tr> <td>15</td> <td>Imidacloprid 17.8SL</td> <td>0.0027</td> <td>0.15</td> <td>Yes</td> <td>0.005</td> <td>0.28</td> <td>No</td> <td>0.011</td> <td>0.62</td> <td>No</td> </tr> <tr> <td>16</td> <td>Acetamiprid 20SP</td> <td>0.0040</td> <td>0.20</td> <td>Yes</td> <td>0.008</td> <td>0.40</td> <td>Yes</td> <td>0.016</td> <td>0.80</td> <td>No</td> </tr> <tr> <td>17</td> <td>Thiamethoxam 25WG</td> <td>0.0050</td> <td>0.20</td> <td>Yes</td> <td>0.010</td> <td>0.40</td> <td>Yes</td> <td>0.020</td> <td>0.80</td> <td>Yes</td> </tr> <tr> <td>18</td> <td>Chlorfenapyr 10SC</td> <td>0.0100</td> <td>1.00</td> <td>Yes</td> <td>0.020</td> <td>2.00</td> <td>No</td> <td>0.040</td> <td>4.00</td> <td>No</td> </tr> <tr> <td>19</td> <td>Fenpyroximate 5EC</td> <td>0.0025</td> <td>0.50</td> <td>No</td> <td>0.005</td> <td>1.00</td> <td>No</td> <td>0.010</td> <td>2.00</td> <td>No</td> </tr> </tbody> </table> <p>(Professor & Head, Deptt. of Entomology, NMCA, NAU Navsari)</p>										Tr. No	Insecticides	0.5 X RD			1 X RD			2 X RD			% Conc.	Dose (ml or g per l)	Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)	% Conc.	Dose (ml or g per l)	Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)	% Conc.	Dose (ml or g per l)	Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)	1	Profenophos 50EC	0.0500	1.00	No	0.100	2.00	No	0.200	4.00	No	2	Quinalphos 25EC	0.0250	1.00	Yes	0.050	2.00	Yes	0.100	4.00	No	3	Dimethoate 30EC	0.0150	0.50	Yes	0.030	1.00	Yes	0.060	2.00	No	4	Cypermethrin 10EC	0.0050	0.50	Yes	0.010	1.00	Yes	0.020	2.00	Yes	5	Deltamethrin 2.8EC	0.0014	0.50	Yes	0.003	1.07	Yes	0.006	2.14	No	6	Lambda cyhalothrin 5EC	0.0013	0.26	Yes	0.003	0.60	No	0.005	1.00	No	7	Spinosad 45SC	0.0068	0.15	No	0.014	0.31	No	0.027	0.60	No	8	Indoxacarb 14.5SC	0.0036	0.25	No	0.007	0.48	No	0.015	1.03	No	9	Fipronil 5SC	0.0050	1.00	No	0.010	2.00	No	0.020	4.00	No	10	Diafenthiuron 50WP	0.0250	0.50	Yes	0.050	1.00	Yes	0.100	2.00	No	11	Flubendiamide 39.35SC	0.0059	0.15	No	0.012	0.30	No	0.024	0.61	No	12	Chlorantraniliprole 18.5SC	0.0028	0.15	Yes	0.006	0.32	Yes	0.011	0.59	No	13	Cyantraniliprole 10.26OD	0.0062	0.60	No	0.012	1.17	No	0.025	2.44	No	14	Emamectin benzoate 5SG	0.0013	0.26	No	0.003	0.60	No	0.005	1.00	No	15	Imidacloprid 17.8SL	0.0027	0.15	Yes	0.005	0.28	No	0.011	0.62	No	16	Acetamiprid 20SP	0.0040	0.20	Yes	0.008	0.40	Yes	0.016	0.80	No	17	Thiamethoxam 25WG	0.0050	0.20	Yes	0.010	0.40	Yes	0.020	0.80	Yes	18	Chlorfenapyr 10SC	0.0100	1.00	Yes	0.020	2.00	No	0.040	4.00	No	19	Fenpyroximate 5EC	0.0025	0.50	No	0.005	1.00	No	0.010	2.00	No	2023
Tr. No	Insecticides	0.5 X RD			1 X RD			2 X RD																																																																																																																																																																																																																																								
		% Conc.	Dose (ml or g per l)	Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)	% Conc.	Dose (ml or g per l)	Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)	% Conc.	Dose (ml or g per l)	Farmer are advised to mix the insecticides with <i>M. anisopliae</i> (Yes/No)																																																																																																																																																																																																																																						
1	Profenophos 50EC	0.0500	1.00	No	0.100	2.00	No	0.200	4.00	No																																																																																																																																																																																																																																						
2	Quinalphos 25EC	0.0250	1.00	Yes	0.050	2.00	Yes	0.100	4.00	No																																																																																																																																																																																																																																						
3	Dimethoate 30EC	0.0150	0.50	Yes	0.030	1.00	Yes	0.060	2.00	No																																																																																																																																																																																																																																						
4	Cypermethrin 10EC	0.0050	0.50	Yes	0.010	1.00	Yes	0.020	2.00	Yes																																																																																																																																																																																																																																						
5	Deltamethrin 2.8EC	0.0014	0.50	Yes	0.003	1.07	Yes	0.006	2.14	No																																																																																																																																																																																																																																						
6	Lambda cyhalothrin 5EC	0.0013	0.26	Yes	0.003	0.60	No	0.005	1.00	No																																																																																																																																																																																																																																						
7	Spinosad 45SC	0.0068	0.15	No	0.014	0.31	No	0.027	0.60	No																																																																																																																																																																																																																																						
8	Indoxacarb 14.5SC	0.0036	0.25	No	0.007	0.48	No	0.015	1.03	No																																																																																																																																																																																																																																						
9	Fipronil 5SC	0.0050	1.00	No	0.010	2.00	No	0.020	4.00	No																																																																																																																																																																																																																																						
10	Diafenthiuron 50WP	0.0250	0.50	Yes	0.050	1.00	Yes	0.100	2.00	No																																																																																																																																																																																																																																						
11	Flubendiamide 39.35SC	0.0059	0.15	No	0.012	0.30	No	0.024	0.61	No																																																																																																																																																																																																																																						
12	Chlorantraniliprole 18.5SC	0.0028	0.15	Yes	0.006	0.32	Yes	0.011	0.59	No																																																																																																																																																																																																																																						
13	Cyantraniliprole 10.26OD	0.0062	0.60	No	0.012	1.17	No	0.025	2.44	No																																																																																																																																																																																																																																						
14	Emamectin benzoate 5SG	0.0013	0.26	No	0.003	0.60	No	0.005	1.00	No																																																																																																																																																																																																																																						
15	Imidacloprid 17.8SL	0.0027	0.15	Yes	0.005	0.28	No	0.011	0.62	No																																																																																																																																																																																																																																						
16	Acetamiprid 20SP	0.0040	0.20	Yes	0.008	0.40	Yes	0.016	0.80	No																																																																																																																																																																																																																																						
17	Thiamethoxam 25WG	0.0050	0.20	Yes	0.010	0.40	Yes	0.020	0.80	Yes																																																																																																																																																																																																																																						
18	Chlorfenapyr 10SC	0.0100	1.00	Yes	0.020	2.00	No	0.040	4.00	No																																																																																																																																																																																																																																						
19	Fenpyroximate 5EC	0.0025	0.50	No	0.005	1.00	No	0.010	2.00	No																																																																																																																																																																																																																																						

Sr.	Title and Recommendation	Approval Year
3.	<p>Survey of pollinator fauna and floral diversity under South Gujarat conditions</p> <p>19.3.1.15 (A): The farmers and policymakers of Gujarat state are recommended to grow fruit trees and vegetations of forest/aesthetic values like; amali, amla, arjun, ashok tree, bottle brush, flemingia, garmalo, jamun, kamini, limado, nagod, papaya, parda vel, simalo, supari, tamravruksh, and Tecoma gaudichaudi on field boundary, wasteland as well as social forestry and save it to conserve native pollinators.</p> <p>19.3.1.15 (B): The farmers and policy makers of Gujarat state are recommended to grow trees/plants like; ber, bottle brush, cordia, flemingia, hamelia, jamun, jatropa, kamini, karen, limado, madhumalti, nagod, naliyeri, papaya, parda vel, sitafal, supari, and tagar on field boundary, waste land as well as social forestry and save it to conserve stingless bees.</p> <p>19.3.1.15 (C): The beekeepers of Gujarat state are recommended to follow the flower calendar mentioned in below table for the migration of their bee hives in different vegetations during respective periods for their conservation.</p>	2023
4.	<p>Survey of pollinators fauna in different cucurbit vegetables in South Gujarat</p> <p>Insect pollinators belongs to order Hymenoptera (08) [<i>Apis dorsata</i> (Fabricius), <i>Apis cerana indica</i> (Fabricius), <i>Apis florea</i> (Fabricius), <i>Tetragonula spp.</i>, <i>Megachile spp.</i>, <i>Xylocopa enestrata</i> (Fabricius), <i>Lasioglossum (Ctenonomia) serenum</i> (Cameron), <i>Sphecodes fumipennis</i> (Smith)]; Lepidopteran (04) [Common Crow (<i>Euploea core</i> Cramer), Common Grass Yellow (<i>Eurema hecabe</i> Linnaeus), Blue butterflies (<i>Lampides boeticus</i> Linnaeus) and Small Branded Swift (<i>Pelopidas mathias</i> Fabricius)] and Dipteran (01) [Syrphid flies] were noticed in cucurbit vegetable crops in South Gujarat.</p> <p>(Professor & Head, Deptt. of Entomology, NMCA, NAU Navsari)</p>	2023
5.	<p>Effect of pollination by stingless bees on yield and quality of musk melon fruits</p> <p>The muskmelon growers of Gujarat are recommended to keep a stingless bee hive (2500-3000 stingless bees/hive/70 m²) in a polyhouse for pollination.</p> <p>(Professor & Head, Department of Entomology, NMCA, NAU, Navsari)</p>	2022

Sr.	Title and Recommendation	Approval Year
6.	<p>Management of the two spotted spider mite, <i>Tetranychus urticae</i> Koch on gerbera with the use of biopesticides and the predatory mite, <i>Amblyseius (Neoseiulus) longispinosus</i> (Evans)</p> <p>Farmers of south Gujarat growing gerbera in polyhouse are recommended to apply first spray of neem oil 0.5% @ 50 ml/ 10 litre of water at bud initiation stage, second spray of neem oil 0.5% @ 50 ml/ 10 litre of water after fifteen days of first spray and release of predatory mite, <i>Amblyseius (Neoseiulus) longispinosus</i> @ 20 gravid female/plant after fifteen days of second spray for the effective control of two spotted spider mite, <i>Tetranychus urticae</i> to gain higher flower production.</p> <p>દક્ષિણ ગુજરાતમાં પોલીહાઉસમાં જરબેરાની ખેતી કરતા ખેડૂતોને બે ટપકાંવાળી પાનકચીરી (ટેટ્રાનીકસ અર્ટીકીનું) અસરકારક નિયંત્રણ કરી કુલોનું વધુ ઉત્પાદન લેવા માટે લીમડાના તેલ ૦.૫ ટકા (૫૦ મીલી પ્રતિ ૧૦ લિટર પાણી)નો પ્રથમ છંટકાવ કળી બેસવાની અવસ્થાએ અને બીજો છંટકાવ પ્રથમ છંટકાવના પંદર દિવસ બાદ કરવો તેમજ બીજા છંટકાવના પંદર દિવસ બાદ પરભક્ષી કચીરી, એમ્બલીસીયસ (નીયોસીલસ) લોન્ગસ્પીનોસસ (૨૦ માદા પ્રતિ છોડ) છોડવાની ભલામણ કરવામાં આવે છે.</p>	2020-21
7.	<p>Effect of various leaf defoliation levels on castor yield for rearing of eri silkworm, <i>Samiacynthia ricini</i> Hutt</p> <p>The eri silkworm rearers of Gujarat are recommended to pluck 25-30 per cent leaves of castor at 15 days interval (45 DAS) to obtain additional income along with castor seed production.</p> <p>ગુજરાતમાં દિવેલાના રેશમના કીડાનો ઉછેર કરતા ખેડૂતોને દિવેલાના બીજ ઉત્પાદન સાથે વધારાની આવક મેળવવા માટે દિવેલાના પાન ૧૫ દિવસના અંતરે (વાવણીના ૪૫ દિવસ બાદ) ૨૫-૩૦ ટકા સુધી તોડવા ભલામણ કરવામાં આવે છે.</p>	2020-21
8.	<p>Survey of Acari associated with different stored grains and by-products</p> <p>The order Astigmata is the dominant among three orders viz., Astigmata, Prostigmata and Mesostigmata while family acaridae is most diverse and dominant family which attack most of the stored grain commodities and its value added products. Among twenty nine mite species, <i>Tyrophagus putrescentiae</i> (Schrank, 1781) (Family: Acaridae) is most abundant species attacking twenty two stored products.</p>	2020-21
9.	<p>Survey of soil oribatid mites fauna.</p> <p>Nine species of soil Oribatid mites are belonging to five dominant families i.e. Scheloribatidae, Haplozetidae, Oppiidae, Lohmanidae and Mochlozetidae. Among nine species of soil oribatid mite, <i>Scheloribates curvialatus</i> Hammer is most abundant and occurring throughout the year in various agro-ecosystems.</p>	2020-21
10.	<p>Seasonal incidence and pest activity of two spotted spider mite, <i>Tetranychus urticae</i> Koch. on <i>Adenium</i> [<i>Adenium obesum</i> (Forssk.) Roem & Schult.]</p> <p>The population of two spotted spider mite, <i>Tetranychus urticae</i> Koch. infesting <i>adenium</i>, <i>Adenium obesum</i> (Forssk.) Roem & Schult. is significantly higher in polyhouse as compared to open condition. In open condition, the population of two</p>	2020-21

Sr.	Title and Recommendation	Approval Year
	spotted spider mite, <i>Tetranychus urticae</i> Koch. has significantly positive correlated with minimum temperature, morning relative humidity and evening relative humidity while maximum temperature shows significantly negative correlated with mite population in adenium.	
11.	<p>Evaluation of different races of eri silkworm under laboratory condition for its suitability</p> <p>The eri silkworm rearing farmers of South Gujarat Zone AES III are advised to rear eri silkworm race, Borduar or Lakhimpur or Ambagaon to get better quality and economic traits.</p> <p>[Source of Availability of DFLs: Central Muga Eri Research and Training Institute (CMERTI), Jorhat (Assam)]</p> <p>દક્ષિણ ગુજરાતનાં ખેત આબોહવાકીય પરિસ્થિતિ -૩ના દિવેલાના રેશમના કીડાનો ઉછેર કરતા ખેડૂતોને ભલામણ કરવામાં આવે છે કે, દિવેલાના રેશમ કીડાની જાત, બોરદોર અથવા લખીમપુર અથવા અંબાગાવનો ઉછેર કરવાથી ઉચ્ચ ગુણવત્તા વાળું અર્થક્ષમ રેશમ પ્રાપ્ત કરી શકાય છે.</p> <p>[ઈંડાનું પ્રાપ્તિ સ્થાન સેન્ટ્રલ મુગા એરી રીસર્ચ એન્ડ ટ્રેનીંગ ઇન્સ્ટિટ્યૂટ, સેન્ટ્રલ સિલ્ક બોર્ડ, જોરહાટ (આસામ)]</p>	2019-20
12.	<p>Standardize the height of pheromone traps in pigeonpea ecosystem for the mass trapping of <i>Helicoverpa armigera</i> (Hubner)</p> <p>The pigeonpea growers of south Gujarat are advised to maintain the height of pheromone trap 1.5 feet above the crop canopy at 50 per cent flowering stage for trapping maximum male moths of <i>Helicoverpa armigera</i> (Hubner).</p> <p>દક્ષિણ ગુજરાતમાં તુવેરની ખેતી કરતાં ખેડૂતોને લીલી ઈયળના વધુમાં વધુ નર કુદા પકડવા માટે પાકમાં ૫૦ ટકા ફૂલ અવસ્થાએ છોડની ટોચથી ૧.૫ ફૂટ ઉંચાઈ જળવાય તેમ ફેરોમોન ટ્રેપ લગાડવા માટે ભલામણ કરવામાં આવે છે.</p>	2019-20
13.	<p>Study the activity period of honey bees in pointed gourd</p> <p>Higher activity period of honey bee in pointed gourd is observed between 11.30 AM to 3.30 PM in South Gujarat Heavy Rainfall Zone-II.</p> <p>દક્ષિણ ગુજરાતનાં ભારે વરસાદ ધરાવતા ખેત આબોહવાકીય વિસ્તાર-૨ પરવળનાં પાકમાં સવારના ૧૧.૩૦ થી બપોરના ૩.૩૦ કલાક દરમિયાન મધમાખીની સક્રીયતા વધારે જોવા મળે છે.</p>	2019-20
14.	<p>Evaluation of different substrates for mass culturing of <i>Beauveria bassiana</i> (Bals.) Vuill</p> <p>For mass multiplication of <i>Beauveria bassiana</i> (Bals.) Vuill., 100g of sorghum grain soaked overnight in water, then autoclave for 20 minutes at 121°C temperature. The fungus can be inoculated at 10ml conidial suspension of <i>B. bassiana</i> (5x10⁷ conidia/ ml) after cooling aseptically and incubated for 15 days at 25±1°C temperature to get maximum cfu (13.67 x 10⁸). Moreover, the clumps should be broken manually by rubbing HDPE bag for uniform growth of the fungus.</p>	2019-20
15.	<p>Pollinators fauna in lucerne flora</p> <p>Pollinators viz., honey bees, butterflies, dipteran insects, wasps, etc. in lucerne are very active between 10.00 AM to 2.00 PM in South Gujarat Heavy Rainfall Zone-II.</p>	2019-20

Sr.	Title and Recommendation	Approval Year
16.	<p>Testing of different races and hybrids of mulberry silkworm in the laboratory for its suitability</p> <p>The mulberry silkworm rearing farmers of South Gujarat Heavy Rainfall Zone (I) are advised to use mulberry silkworm hybrid, FC1xFC2 or FC2xFC1 for rearing. This exhibited the highest quality parameters and economic traits. [Source of Availability of DFLs: National Silkworm Seed Organization, Central Silk Board, Bangaluru]</p> <p>દક્ષિણ ગુજરાતનાં ભારે વરસાદ ખેત આબોહવાકીય વિસ્તાર-1 નાં શેતૂરનાં રેશમના કિડાનો ઉછેર કરતાં ખેડૂતોને ભલામણ કરવામાં આવે છે કે, શેતૂરના રેશમના કિડાની સંકરજાત, FC1×FC2 અથવા FC2×FC1 નો ઉછેર કરવાથી ઉચ્ચ ગુણવત્તા વાળું અર્થક્ષમ રેશમ પ્રાપ્ત કરી શકાય છે. [ઈંડાનું પ્રાપ્તિ સ્થાન: નેશનલ સિલ્ક વોર્મ સીડ ઓર્ગેનાઈઝેશન, સેન્ટ્રલ સિલ્ક બોર્ડ, બેંગલુરુ]</p>	2018-19
17.	<p>Dispersal of <i>Trichogramma chilonis</i> Ishii (Hymenoptera: Trichogrammatidae) in sugarcane field</p> <p>Sugarcane growers of South Gujarat Heavy Rainfall Agro-climatic Zone are advised to staple trichocard stripes on lower surface of the sugarcane leaves @ 12/ha (Approx. 4000 parasitized eggs/stripe) keeping distance of 30 m between two stripes for effective biological control of sugarcane borers.</p> <p>દક્ષિણ ખેત આબોહવાકીય ગુજરાતનાં વધુ વરસાદવાળા વિસ્તારમાં શેરડીની ખેતી કરતાં ખેડૂતોને ભલામણ કરવામાં આવે છે કે, વેધકોના જૈવિક નિયંત્રણ માટે ટ્રાયકોકાર્ડ ૧૨ ટુકડા (અંદાજિત ૪૦૦૦ પર્જીવીકરણ થયેલ ઈંડાઓ/ટુકડા) પ્રતિ હેક્ટરે બે ટુકડા વચ્ચે ૩૦ મીટરનું અંતર જળવાય તે રીતે શેરડીના પાનની નીચેની સપાટીએ સ્ટેપલ કરવાથી વેધકોના ઈંડાઓનું અસરકારક પર્જીવીકરણ થઈ શકે છે.</p>	2017-18
18.	<p>Survey of natural enemies of rice insect pests</p> <p>The parasitoids viz., <i>Telenomus</i> sp. (0.00-31.08, Av. 9.84 % parasitization) and <i>Tetrastichus</i> sp. (0.00-7.15, Av. 1.11 %) were found parasitizing eggs of yellow stem borer; Tachinid fly (0.00-20.44, Av. 8.07 %), <i>Charops</i> sp.(0.00-33.73, Av. 15.33 %) and <i>Apanteles</i> sp. (0.00-66.67, Av. 13.17%) on larvae of paddy skipper; <i>Xanthopimpla</i> sp.(0.00-26.67, Av. 4.77 %) and <i>Brachymeria</i> sp.(0.00-50.00, Av. 2.69) on pupa of paddy skipper; <i>Apanteles</i> sp. (0.00-24.38, Av. 10.15 %) on larva of paddy leaf folder. Moreover, <i>Trissolcus</i> sp. and <i>Oenocyrtus utetheisae</i> (0.00-21.25, Av. 5.62 %) on eggs of paddy gundhi bug were found predominant as well as potent parasitoids in paddy agro-ecosystem under south Gujarat condition.</p>	2017-18
19.	<p>Survey of natural enemies of sugarcane</p> <p>The parasitoids viz., <i>Telenomus</i> sp. (0.00-37.30, Av. 9.02 % parasitization) on egg mass of sugarcane top borer; <i>Trichogramma</i> sp. (0.00-50.00, Av. 7.42 %) on egg mass of sugarcane shoot borer; <i>Apanteles</i> sp.(0.00-20.83, Av. 3.17 % on <i>Chilo</i> sp.), Tachinid fly (0.00-35.00 Av. 9.58 % on <i>Chilo</i> sp.) and Tachinid fly (0.00-33.33, Av. 1.89 % on <i>Sesamia</i> sp.) on larvae of shoot borer; <i>Tetrastichus</i> sp.(0.00-50.00, Av. 12.26%) on egg mass of sugarcane pyrilla and <i>Encarcia</i> sp. (0.00-91.67, Av. 25.77 %) on puparium of sugarcane whitefly were found predominant and potent parasitoids in sugarcane agroecosystem under south Gujarat conditions.</p>	2017-18
20.	<p>Chemical Control of carnation mite, <i>Tetranychus urticae</i> under polyhouse condition</p> <p>The carnation growers of south Gujarat are advised to apply three sprays of Propargite 57 EC 0.1% (17.5 ml/10 litre of water) for the effective management of</p>	2016-17

Sr.	Title and Recommendation							Approval Year																																										
	<p>two spotted 67 red spider mite and to harvest higher number of marketable flowers under polyhouse. The first spray should be given at appearance of spider mite and remaining sprays at 15 days interval.</p> <p>As per CIBRC Format:</p> <table border="1" data-bbox="272 415 1273 632"> <thead> <tr> <th rowspan="2">Year</th> <th rowspan="2">Pest</th> <th rowspan="2">Crop</th> <th rowspan="2">Pesticide with Formulation</th> <th colspan="3">Doses</th> <th rowspan="2">Waiting period (days)</th> <th rowspan="2">Remark Residue</th> </tr> <tr> <th>Quantity of Formulation</th> <th>Conc. (%)</th> <th>Dilution in water</th> </tr> </thead> <tbody> <tr> <td>2017</td> <td>Carnation</td> <td>Red spider mite</td> <td>Propergite 57 EC</td> <td>500 ml</td> <td>0.1%</td> <td>500 lit.</td> <td>7</td> <td>BDL</td> </tr> </tbody> </table> <p>દક્ષિણ ગુજરાતમાં પોલીહાઉસમાં કારનેશનની ખેતી કરતા ખેડૂતોને લાલ કથીરીના અસરકારક નિયંત્રણ માટે અને વધુ ઉત્પાદન તથા ફૂલની સારી ગુણવત્તા મેળવવા માટે પ્રોપરગાઈટ 57 ઈસી ૦.૧ % (૧૭.૫ મી.લી. પ્રતિ ૧૦ લિટર પાણી) નાં ત્રણ છંટકાવ કરવાની ભલામણ કરવામાં આવે છે. પહેલો છંટકાવ પાન કથીરીના ઉપદ્રવની શરૂઆત થાય ત્યારે કરવો તથા બીજો અને ત્રીજો છંટકાવ પહેલા અને બીજા છંટકાવના ૧૫ દિવસ બાદ કરવાની ભલામણ કરવામાં આવે છે.</p> <p>સી.આઈ.બી.આર.સી પ્રકૃર્મા પ્રમાણે:</p> <table border="1" data-bbox="272 863 1273 1035"> <thead> <tr> <th rowspan="2">વર્ષ</th> <th rowspan="2">પાક</th> <th rowspan="2">જીવાત</th> <th rowspan="2">જંતુનાશક</th> <th colspan="3">માત્રા</th> <th rowspan="2">વેઈટિંગ પીરીયડ (દિવસ)</th> <th rowspan="2">રિમાકર્સ (દવાના અવશેષો)</th> </tr> <tr> <th>સકીય તત્વ/ હેકટર</th> <th>સાંદ્રતા</th> <th>પાણીમાં મિશ્રણ</th> </tr> </thead> <tbody> <tr> <td>૨૦૧૭</td> <td>કારનેશન</td> <td>લાલ કથીરી</td> <td>પ્રોપરગાઈટ 57 ઈસી</td> <td>૫૦૦ મીલી</td> <td>૦.૧ %</td> <td>૫૦૦ લી.</td> <td>૭</td> <td>શોધી નીચે માર્ગદા</td> </tr> </tbody> </table>							Year	Pest	Crop	Pesticide with Formulation	Doses			Waiting period (days)	Remark Residue	Quantity of Formulation	Conc. (%)	Dilution in water	2017	Carnation	Red spider mite	Propergite 57 EC	500 ml	0.1%	500 lit.	7	BDL	વર્ષ	પાક	જીવાત	જંતુનાશક	માત્રા			વેઈટિંગ પીરીયડ (દિવસ)	રિમાકર્સ (દવાના અવશેષો)	સકીય તત્વ/ હેકટર	સાંદ્રતા	પાણીમાં મિશ્રણ	૨૦૧૭	કારનેશન	લાલ કથીરી	પ્રોપરગાઈટ 57 ઈસી	૫૦૦ મીલી	૦.૧ %	૫૦૦ લી.	૭	શોધી નીચે માર્ગદા	
Year	Pest	Crop	Pesticide with Formulation	Doses			Waiting period (days)					Remark Residue																																						
				Quantity of Formulation	Conc. (%)	Dilution in water																																												
2017	Carnation	Red spider mite	Propergite 57 EC	500 ml	0.1%	500 lit.	7	BDL																																										
વર્ષ	પાક	જીવાત	જંતુનાશક	માત્રા			વેઈટિંગ પીરીયડ (દિવસ)	રિમાકર્સ (દવાના અવશેષો)																																										
				સકીય તત્વ/ હેકટર	સાંદ્રતા	પાણીમાં મિશ્રણ																																												
૨૦૧૭	કારનેશન	લાલ કથીરી	પ્રોપરગાઈટ 57 ઈસી	૫૦૦ મીલી	૦.૧ %	૫૦૦ લી.	૭	શોધી નીચે માર્ગદા																																										
21.	<p>Bioefficacy of some pesticides against red spider mite, <i>Tetranychus urticae</i> (Koch) infesting brinjal</p> <p>The farmers of south Gujarat growing brinjal are advised to apply two sprays of Fenazaquin 10 EC 0.01% (10 ml/10 lit of water) for the effective control of red spider mite. The first spray should be given at the time of appearance of red spider mite and second spray at 15 days interval.</p> <p>As per CIBRC Format:</p> <table border="1" data-bbox="272 1276 1273 1451"> <thead> <tr> <th rowspan="2">Year</th> <th rowspan="2">Pest</th> <th rowspan="2">Crop</th> <th rowspan="2">Pesticide with Formulation</th> <th colspan="3">Doses</th> <th rowspan="2">Waiting period (days)</th> <th rowspan="2">Remark Residue</th> </tr> <tr> <th>Quantity of Formulation</th> <th>Conc. (%)</th> <th>Dilution in water</th> </tr> </thead> <tbody> <tr> <td>2017</td> <td>Brinjal</td> <td>Red spider mite</td> <td>Fenazaquin 10 EC</td> <td>500 ml</td> <td>0.01</td> <td>500 lit.</td> <td>7</td> <td>BDL</td> </tr> </tbody> </table> <p>દક્ષિણ ગુજરાતમાં રીંગણની ખેતી કરતા ખેડૂતોને લાલ કથીરીના અસરકારક નિયંત્રણ અને વધુ ઉત્પાદન મેળવવા માટે ફેનાઝાકિવન ૧૦ ઈસી ૦.૦૧ % (૧૦ મી.લી. પ્રતિ ૧૦ લિટર પાણી) નાં બે છંટકાવ કરવા. પહેલો છંટકાવ પાન કથીરીના ઉપદ્રવની શરૂઆત થાય ત્યારે અને બીજો છંટકાવ પહેલા છંટકાવના ૧૫ દિવસ બાદ કરવાની ભલામણ કરવામાં આવે છે.</p> <p>સી.આઈ.બી.આર.સી પ્રકૃર્મા પ્રમાણે:</p> <table border="1" data-bbox="272 1650 1273 1824"> <thead> <tr> <th rowspan="2">વર્ષ</th> <th rowspan="2">પાક</th> <th rowspan="2">જીવાત</th> <th rowspan="2">જંતુનાશક</th> <th colspan="3">માત્રા</th> <th rowspan="2">વેઈટિંગ પીરીયડ (દિવસ)</th> <th rowspan="2">રિમાકર્સ(દવાના અવશેષો)</th> </tr> <tr> <th>સકીય તત્વ/ હેકટર</th> <th>સાંદ્રતા</th> <th>પાણીમાં મિશ્રણ</th> </tr> </thead> <tbody> <tr> <td>૨૦૧૭</td> <td>રીંગણ</td> <td>લાલ કથીરી</td> <td>ફેનાઝાકિવન</td> <td>૫૦૦ મીલી</td> <td>૦.0૧ %</td> <td>૫૦૦ લી.</td> <td>૧૦</td> <td>શોધી માર્ગદા નીચે</td> </tr> </tbody> </table>							Year	Pest	Crop	Pesticide with Formulation	Doses			Waiting period (days)	Remark Residue	Quantity of Formulation	Conc. (%)	Dilution in water	2017	Brinjal	Red spider mite	Fenazaquin 10 EC	500 ml	0.01	500 lit.	7	BDL	વર્ષ	પાક	જીવાત	જંતુનાશક	માત્રા			વેઈટિંગ પીરીયડ (દિવસ)	રિમાકર્સ(દવાના અવશેષો)	સકીય તત્વ/ હેકટર	સાંદ્રતા	પાણીમાં મિશ્રણ	૨૦૧૭	રીંગણ	લાલ કથીરી	ફેનાઝાકિવન	૫૦૦ મીલી	૦.0૧ %	૫૦૦ લી.	૧૦	શોધી માર્ગદા નીચે	2016-17
Year	Pest	Crop	Pesticide with Formulation	Doses			Waiting period (days)					Remark Residue																																						
				Quantity of Formulation	Conc. (%)	Dilution in water																																												
2017	Brinjal	Red spider mite	Fenazaquin 10 EC	500 ml	0.01	500 lit.	7	BDL																																										
વર્ષ	પાક	જીવાત	જંતુનાશક	માત્રા			વેઈટિંગ પીરીયડ (દિવસ)	રિમાકર્સ(દવાના અવશેષો)																																										
				સકીય તત્વ/ હેકટર	સાંદ્રતા	પાણીમાં મિશ્રણ																																												
૨૦૧૭	રીંગણ	લાલ કથીરી	ફેનાઝાકિવન	૫૦૦ મીલી	૦.0૧ %	૫૦૦ લી.	૧૦	શોધી માર્ગદા નીચે																																										
22.	<p>Role of antibiotics in mulberry silkworm <i>Bombyx mori</i> L. rearing</p> <p>The mulberry silkworm rearing farmers are advised to dip the chopped</p>							2016-17																																										

Sr.	Title and Recommendation	Approval Year																																	
	<p>mulberry leaves for five minutes in the aqueous solution of chloramphenicol 500 mg 0.05 per cent (5g/10 liter water) and dried at room temperature then fed to the fifth instar larvae (immediately after fourth moult) once a day as a last feeding during evening time found suitable and exhibited the highest effective rate of rearing with maximum denier and minimum renditta of mulberry silkworm.</p> <p>શેતરુના રેશમના કીડાનો ઉછેર કરતા ખેડૂતોને ભલામણ કરવામાં આવે છે કે, ટુકડા કરેલ શેતરુના પાનને ક્લોરામ્ફેનિકોલ ૫૦૦ મી.ગ્રા. ૦.૦૫ ટકા (૫ ગ્રામ/ ૧૦ લીટર પાણી)ના દ્રાવણમાં પાંચ મિનીટ સુધી ડુબાડી, ખુલ્લામાં સકુવીને પાંચમી અવસ્થાના શેતરુના કીડાને (ચોથા નિર્મોચન બાદ તુરંત) દિવસમાં એક વાર સાંજના સમયે છેલ્લા ખોરાકમાં ખવડાવાથી શેતરુના રેશમના કીડાનો સફળ ઉછેર કરી શકાય છે. તેમજ કીડાના ઉછેર કરવાના દરમાં અસરકારક વધારો થાય છે અને વધુમાં વધુ ડેનીયર અને ઓછામાં ઓછા રેન્ડીટા મેળવી શકાય છે.</p>																																		
23.	<p>Role of antibiotics in eri silkworm, <i>Samia cynthia ricini</i> Hutt rearing</p> <p>The eri silkworm rearing farmers are advised to dip the castor leaves for five minutes in the aqueous solution of streptomycin 0.05 per cent (5 g/10liter water) and dried at room temperature then fed to the fifth instar larvae (immediately after fourth moult) once a day as a last feeding during evening time found suitable and exhibited the highest effective rate of rearing of eri silkworm.</p> <p>દિવેલાના રેશમના કીડાનો ઉછેર કરતા ખેડૂતોને ભલામણ કરવામાં આવે છે કે, દિવેલાના પાનને સ્ટ્રેપ્ટોમાયસીન ૦.૦૫ ટકા (૫ ગ્રામ / ૧૦ લીટર પાણી)ના દ્રાવણમાં પાંચ મિનીટ સુધી ડુબાડી, ખુલ્લામાં સકુવીને પાંચમી અવસ્થાના દિવેલાના કીડાને (ચોથા નિર્મોચન બાદ તુરંત) દિવસમાં એક વાર સાંજના સમયે છેલ્લા ખોરાકમાં ખવડાવાથી દિવેલાના રેશમના કીડાનો સફળ ઉછેર કરી શકાય છે તેમજ કીડાના ઉછેર કરવાના દરમાં અસરકારક વધારો થાય છે.</p>	2016-17																																	
24.	<p>Survey of ecto-parasitic varroa mite infesting honey bees (<i>Aphis</i> sp.)</p> <p>The Varroa mite, <i>Varroa destructor</i> was found infesting worker rock bee (<i>Apis dorsata</i>) and its infestation was higher during 15th to 18th, 22nd to 26th, 37th to 40th and 47th to 49th Standard Week.</p>	2016-17																																	
25.	<p>Suppression of Rice Sheath Mite, <i>Steneo tarsonemus spinki</i> Smiley (Acari: Tarsonemidae) infestation by using different acaricides</p> <p>Two sprays of fenpyroximate 5 SC @ 0.005% (10 ml/10 liter of water) or difenthiuron 50 WP @ 0.05% (10 g/10 liter of water) or chlorfenapyr 10 SC @ 0.015% (15 ml/10 liter of water) were found effective for the control of rice sheath mite. The first spray be given at appearance of sheath mite (at flag leaf stage) and the second spray at 15 days after first spray.</p> <table border="1" data-bbox="272 1495 1279 1757"> <thead> <tr> <th rowspan="2">Year</th> <th rowspan="2">Crop</th> <th rowspan="2">Pest</th> <th rowspan="2">Pesticide with Formulation</th> <th colspan="3">Doses</th> <th rowspan="2">Waiting period (days)</th> <th rowspan="2">Remark Residue</th> </tr> <tr> <th>Quantity of Formulation</th> <th>Conc. (%)</th> <th>Dilution in water</th> </tr> </thead> <tbody> <tr> <td rowspan="3">2017</td> <td rowspan="3">Rice</td> <td rowspan="3">Sheath mite</td> <td>Fenpyroximate 5 SC</td> <td>500 ml</td> <td>0.005</td> <td>500</td> <td>7</td> <td>BDL (Grain & Straw)</td> </tr> <tr> <td>Difenthiuron 50 WP</td> <td>1000 ml</td> <td>0.05</td> <td>500</td> <td>3-7</td> <td>BDL (Grain & Straw)</td> </tr> <tr> <td>Chlorfenapyr 10 SC</td> <td>750 ml</td> <td>0.015</td> <td>500</td> <td>5</td> <td>EU codex 0.02PPM</td> </tr> </tbody> </table>	Year	Crop	Pest	Pesticide with Formulation	Doses			Waiting period (days)	Remark Residue	Quantity of Formulation	Conc. (%)	Dilution in water	2017	Rice	Sheath mite	Fenpyroximate 5 SC	500 ml	0.005	500	7	BDL (Grain & Straw)	Difenthiuron 50 WP	1000 ml	0.05	500	3-7	BDL (Grain & Straw)	Chlorfenapyr 10 SC	750 ml	0.015	500	5	EU codex 0.02PPM	2016-17
Year	Crop					Pest	Pesticide with Formulation	Doses			Waiting period (days)	Remark Residue																							
		Quantity of Formulation	Conc. (%)	Dilution in water																															
2017	Rice	Sheath mite	Fenpyroximate 5 SC	500 ml	0.005	500	7	BDL (Grain & Straw)																											
			Difenthiuron 50 WP	1000 ml	0.05	500	3-7	BDL (Grain & Straw)																											
			Chlorfenapyr 10 SC	750 ml	0.015	500	5	EU codex 0.02PPM																											
26.	<p>Bioefficacy of some pesticides against <i>Polyphago tarsonemus latus</i> (Banks) infesting Sesamum</p> <p>Apply fenpyroximate 5 SC @ 0.006% (1.2 ml/ 10 litre of water) at the time of 50 per cent flowering for effective control of the yellow mite of sesamum.</p>	2016-17																																	

Sr.	Title and Recommendation							Approval Year	
As per CIBRC Format:									
	Year	Crop	Pest	Pesticide with Formulation	Doses			Waiting period (days)	Remark Residue
					Quantity of Formulation	Conc. (%)	Dilution in water		
	2017	Sesamum	Yellow mite	Fenpyroximate 5 SC	600 ml	0.006	500 lit.	7	BDL

E. Publications

Sr. No.	Publications	Total
1	Practical manuals	4
2	DVD films on IPDM	13
3	Research papers	122
4	Books/booklets	15
5	Folders	16