Evaluation of performance of Beauveria bassiana SC formulation against safflower aphids

- Testing SC formulation and microencapsulated formulation of *B. bassiana* isolate DOR Bb-6 in pot cultures against safflower aphid

Bio assay of DOR SC formulation of B bassiana on safflower aphids

Conidia/ml	Mortality at 2d (n=30)		Mortality at 2d (n=30)	
	Oil formulation	Dry spore	Oil formulation	Dry spore
$5X10^5$	9	0	30	9
$1X10^6$	12	2	30	15
$5X10^6$	14	4	30	24
$1X10^7$	14	4	30	27
$5X10^7$	18	8	30	30
control	0	0	30	4
LC_{50}	$9.6X10^6$			$2.6X10^6$

Evaluation of Bb formulations against aphids under field conditions (2012-13)

Treatments: 7 Replications: 3 Season: rabi No of sprays: 1

Treatments:

T1= Beauveria bassiana SC @ 0.3 ml/l
T2= Beauveria bassiana SC @ 0.4 ml/l
T3= Beauveria bassiana SC @ 0.5 ml/l
T4= Beauveria bassiana WP@ 5g/l
T5= Metarhizium anisopliae WP@ 5g/l
T6= Dimethoate 30 EC @ 2ml/l
T7= Control

Observations: Aphid counts at regular interval

Efficacy of B.bassiana (strain Bb-1) SC formulation of safflower aphid in field during rabi 2012-13

Trt	**Dose**	**Aphids/5cm twig**				**% ROC**
		BS	**4DAS**	**7DAS**	**13DAS**	
Bb SC	0.3 ml/l	59.3	61.3	66.7	118.7	43.2
Bb SC	0.4 ml/l	56.8	71.0	58.2	100.3	45.0

Bb SC	0.5 ml/l	52.2	69.5	86.2	115.7	35.7
Bb (Rahuri)	5g/l	55.0	47.0	70.8	74.2	53.8
Ma (Rahuri)	5g/l	58.0	45.0	52.7	113.3	53.2
Rogor	2ml/l	55.3	3.3	5.0	9.5	96.1
Control	-	52.0	99.0	126.0	212.0	0.0