

## 1. Identification of sources of resistance and mechanisms of resistance to safflower aphids (2012-2015)

Replications: 2 Design: CRBD

No of lines: 9 Rep: 3

		SSF 807	GMU 184	SSF 684	SSF 682	SSF 695	SSF 734	SSF 704	A-1	CO-1
18/1	%D	50	40	50	55	60	45	50	40	100
1/2	%D	90	60	70	90	90	95	100	70	100
18/1	Rating	2.5	2.0	2.5	2.8	3.0	2.3	2.5	2.0	5.0
1/2	Rating	4.5	3.0	3.5	3.5	5.0	4.9	5.0	3.5	5.0
yld	kg	1.7	1.8	1.9	1.5	1.1	1.1	1.4	1.8	1.1

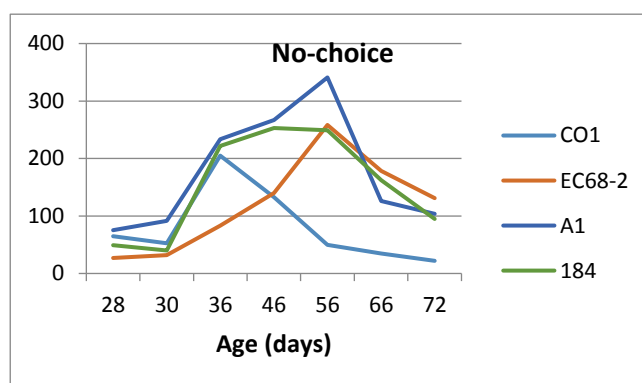
### Mechanisms of resistance in safflower against aphids

**Pot culture:** Choice and no-choice tests

**Accessions:** GMU-184, SSF-704, SSF-704, SSF-658, SSF-684, A-1, CO-1, and EC-523368-2

Replications: 3 Design: CRD Season: rabi

life cycle; Period of oviposition and nymph laying capacity; Multiplication and growth rate:



	GMU 184	EC523368-2	A-1	CO-1
Adult preference%	14.2	7.5	12.5	15.8
Fecundity (days)	7.7	13.3	13.3	12.0
TLC (days)	16.0	21.6	21.6	20.3
Nymph- adult (days)	8.3	8.3	8.3	8.3
Multiplication rate	81.5	54.0	56.0	113.3

	<b>Rating</b>	<b>UP-Y (kg/ha)</b>	<b>P-Y (kg/ha)</b>	<b>% Y loss</b>
A-1	2.9	1003.1	1575.5	36.3
CO-1	5.0	0.0	1249.5	100.0
SSF-658	3.9	197.3	1208.2	83.7
GMU-184	3.1	1064.3	1483.1	28.2
EC-523368-2	2.1	317.9	404.5	21.4