

Activity: screening chickpea lines for resistance to leaf miner (Mustapha)

Title	:	Evaluation of 30 chickpea lines for resistance to leaf miner (<i>Liriomyza Cicerina</i>) (Diptera: <i>Agromyzidae</i>)																								
Objectives		Identify source of resistance to leaf miner in chickpea																								
Expected outcomes		Source of resistance to leaf miner in chickpea identified																								
Method of evaluation		A total of 30 lines were screened for resistance to leaf miner under natural insect infestations. The evaluation of the material for resistance to Leafminer was made using a scale of 1-9 (1 = no damage, 9 = severe damage.).																								
Genotype		30 lines + susceptible line Garbanzo																								
Results		<p>High infestation by leaf miner was observed this year. Two accessions (IG 125018 and IG 125032) confirmed resistance to leaf miner with rating of 3 in the 1-9 visual damage score (VDS). Four others lines showed moderate infestation with VDS of 3.66 ranging between 3 to 5 (Table 1). The resistance sources will be given to breeders for use in the breeding programs to develop resistant varieties to leaf miner.</p> <table border="1" data-bbox="532 863 1503 1381"> <thead> <tr> <th colspan="3">Table 1: Selected lines with low infestation of Chickpea Leaf miner, Marchouch Station, 2016</th> </tr> <tr> <th>Treatment!</th> <th>IG!</th> <th>VDS</th> </tr> </thead> <tbody> <tr> <td>168</td> <td>125018</td> <td>3</td> </tr> <tr> <td>171</td> <td>125032</td> <td>3</td> </tr> <tr> <td>56</td> <td>69431</td> <td>3,66</td> </tr> <tr> <td>63</td> <td>69656</td> <td>3,66</td> </tr> <tr> <td>112</td> <td>70556</td> <td>3,66</td> </tr> <tr> <td>199</td> <td>141716</td> <td>3,66</td> </tr> </tbody> </table>	Table 1: Selected lines with low infestation of Chickpea Leaf miner, Marchouch Station, 2016			Treatment!	IG!	VDS	168	125018	3	171	125032	3	56	69431	3,66	63	69656	3,66	112	70556	3,66	199	141716	3,66
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Photo 1: Selected Chickpea lines with low infestation by Leaf miner
Marchouch, 2016