

CONTENTS

	Page
INTRODUCTION	1
REVIEW OF LITERATURE	2
I- Occurrence of mites associated with some deciduous fruit trees	2
A- Phytophagous mites	2
B- Predaceous mites	11
C- Mites of uncertain feeding habits	13
II- Population dynamics of mites on different hosts	14
III- Effect of biocide vertimec, kelthane and Kz oil against phytophagous mites on deciduous fruit trees under field conditions.	24
MATERIALS AND METHODS	32
I- Occurrence	32
II- Population densities of mites	32
III- Biology	33
IV- Effect of biocide vertimec 1.8% compared with acaricides, kelthane and Kz oil against <i>Oligonychus afrasiaticus</i> infesting date palm under field conditions	33
RESULTS AND DISCUSSION	35
1- Phytophagous mites	35
1. Family-Tetranychidae Donnadieu	35
2. Family-Tenuipidae Berlese	37
3. Family-Eriophidae Nalepa	38
2- Predaceous mites	38
1. Family-Phytoseiidae Berlese	38
2. Family-Stigmaeida Oudemans	39
3. Family-Eupalopsellidae Willmann	41
4. Family-Cheyletidae Leach	41
5. Family-Hemisarcoptidae Dudemans	41

3- Mites of uncertain feeding habits	43
1. Family-Tarsonemidae Kramer	43
2. Family-Tydeidae Kramer	43
3. Family-Acaridae Leach	43
4. Family-Scutacaridae Dudemans	44
5. Family-Microdispidae Cross	44
6. Family-Oribatidae Jacot	44
B- Population dynamics of mites	45
1- Population fluctuation of phytophagous mites occurring with date palm trees <i>Phoenix dactylefera</i> .	45
2- Population fluctuation of eriophid mite <i>Mackiella phoenicis</i> Keifer	45
3- Population fluctuation of tenuipalid mite, <i>Raoiella indica</i> Hirst	51
4- Population fluctuation of <i>Oligonychus afrasiaticus</i> McGregor	56
5- Population fluctuation of <i>Pyllostetranychus aegypticus</i> Sayed	61
6- Population fluctuation of <i>Tydeus californicus</i> Banks	66
Biological studies	71
Effect of biocides Vertimec 1.8% compared with acaricides, kelthane and Kz oil against <i>Oligonychus afrasiaticus</i> on date palm under field conditions	75
SUMMARY	77
REFERENCES	81
ARABIC SUMMARY	