

كفاءة مييد Serin ومنظم النمو الحشري Nomolt مع مخاليطها من الزيت المعدني في مكافحة الحشرة القشرية الصفراء *Aonidiella orientalis* (Newst.) وحفار الاوراق *Phyllocnistis citrella* (Stainton) على أشجار الحمضيات .

*

*

*أستاذ مساعد - قسم وقاية النبات - كلية الزراعة والغابات - جامعة الموصل . جمهورية العراق .
sahilaljameel@yahoo.com

				<i>Aonidiella orientalis</i> (Newst.)	
				<i>Phyllocnistis citrella</i> (Stainton)	
			2007		
		Nomolt			Serin
1.45	1.10	0.9		14	Serin
					/ 2.50
				Serin	
		+ Nomolt			+ Serin
/		3.33	2.66	1.33	14
				<i>Aonidiella orientalis</i> (Newst.)	:
				Nomolt	<i>Phyllocnistis citrella</i> (Sainton)

32

(2000) 6.2

*Aonidiella**orientalis* (Newst.)*Phyllocnistis*

(2004)

(2000)

citrella (Stain.)

تاريخ استلام البحث 2012 / 3 / 1
تاريخ قبول النشر 2012 / 11 / 5

(1992 Thomson)

1994) (1999
 Vertimic Admiral Dimilin)
 .(2000)
 Serin Nomolt
 .2007 20
 / 100
 / 28 14 7 2
 /
 . 0.05 LSD
 :
) . /³ 0.5 Nomolt : 1
 (Serin : 2
) . /³ 1
 (+ Nomolt : 3
 +Serin : 4
 . /³ 20 : 5
 : 6
 Nomolt Serin
 . Henderson & Tilton

$$\frac{x}{x} - 100 = (\%)$$

(1993)

:

(1)

1.33 1.70

Serin 7 Nomolt Serin 3.50 2.33 1.33
Nomolt

Nomolt Serin . 1

Aonidiella orientalis (Newst.)

/				/		
28	14	7	2			
3.45	2.83	1.33	2.40	4.50	β^3 0.5	
2.35	1.45	1.70	3.20	8.58	β^3 1	
2.35	1.10	2.33	2.50	7.66	$10 + 0.5 \beta^3$	+ (1 : 1)
1.33	0.90	1.33	2.50	4.33	β^3 10 + 1	+ (1 : 1)
2.45	2.50	3.50	4.10	3.33	β^3 20	
5.33	4.33	5.30	5.30	4.66		
2 =		1.1 =		1.30 =		

28 14
Serin
28 Serin 14
/ 1.33

Nomolt

Serin

(2)

%39.15

14 76.24

%66.51

Serin

Serin

Nomolt

Serin

. 2

Aonidiella orientalis (Newst.)

%				
28	14	7	2	
35.27	46.20	74.92	54.00	
55.91	66.51	67.93	93.63	
55.90	74.60	56.04	52.82	+ (1 : 1)
75.05	76.24	74.93	52.70	+ (1 : 1)
55.05	39.15	33.95	22.16	

(1951 Shepard)

(3)

7

/ 2.33 3.30

Serin

Nomolt

14

Serin

28

Anonymous, 1996 . FAO report of the workshop on citrus leafminer and its control in the near east. Tartous, Syria 34 PP.

Shepard , H. H. 1951 . *The Chemistry and Action of Insecticides*, 1st. ed. McGraw - Hill Book Company.

Thomson , W. T. 1992 . Agricultural Chemicals Book. I. Insecticides 1992 Revision, Thompson Publ. Co.

EFFICACY OF SERIN AND NOMOLT AND COMBINATION WITH OILS AGAINST *Aonidiella orientalis* (NEWST.) AND *Phyllocnistis citrella* (STANTON).

Sahil K. AL- Jameel

Salim J. Jarjees

* Plant protection Dept.- College of Agriculture and Forestry- University of Mosul-Republic of Iraq . sahilaljameel@yahoo.com

ABSTRACT

Field experiments were conducted on citrus trees infested by *Aonidiella orientalis* (Newst.) and *Phyllocnistis citrella* (STANTON) in Mosul during 2007.

Results indicated reduction in the rate of *Aonidiella orientalis* (Newst.) infestation. Treatments were in the following order: Serin + oil, Nomolt + oil , Serin and oil these treatments significantly decreased No. of nymph / leaflets to 0.90 ,1.10 ,1.45 and 2.50 nymph /leaf respectively after 14 days. The results indicated that treatments which combine by serin + oil give high efficiency against citrus leaf miner to reduce percentage and intensity of infestation. The treatments are descending order was as follows: Serin + oil ,Nomolt + oil, Serin and oil. Results were encouraging to introduces oils into *Aonidiella orientalis* (Newst.) and citrus leaf miner *Phyllocnistis citrella* (Stainton) control program either alone or in combination with insecticides.

Keywords: *Aonidiella orientalis* (Newst.), *Phyllocnistis citrella* (Stainton), Serin, Nomolt, Meniral Oil, Citrus Tree .