



Sudan University Of Science and Technology

College Of Agricultural Studies

Department Of Plant Protection

Fifth Years Graduation Project

Study effect the pesticides **Domig100EC,fastac10%
EC,valerate20%EC and king 5%EC** on Trips tabaci.

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قال تعالى

أَلَمْ تَرَ أَنَّ اللَّهَ أَنْزَلَ مِنَ السَّمَاءِ مَاءً فَسَلَكَهُ يَنَابِيعَ فِي الْأَرْضِ ثُمَّ
يُخْرِجُ بِهِ زَرْعًا مُخْتَلِفًا أَلْوَانُهُ ثُمَّ يَهِيجُ فَتَرَاهُ مُصْفَرًّا ثُمَّ يَجْعَلُهُ
حُطَامًا إِنَّ فِي ذَلِكَ لَذِكْرًا لِأُولِي الْأَلْبَابِ ﴿٢١﴾

صدق الله العظيم

سورة الزمر الآية (21)

Dedication

TO MY:

Family, To my beloved Mother and my beloved father

and other all my Friends

Teachers

ACKNOWLEDGMENTS

Thanks God to give me health to complete this work.

I Would like to express my thanks to my supervisor teachers Amani Mohamed Fadl for helpful assistance ,guidance, patience and keen during this work.

Thanks my friend Nassir Mohamed Amer to his help.

Grateful thanks are due to all the staff of the Shambat Research Station, deep thanks to Moahib and Rabab

Abstract

The experiment conducted in field and the laboratory condition temperature 30 college of Agricultural Studies Sudan University of Science and Technology

That study effecting 1: Domig 100 EC fastac 10%EC, Valerate 20%EC and king 5%EC at Trips tabaci in (onion trips) the Means followed by the some letter (s) are not significantly different at p5%. Means

Actual means in parenthesis

ملخص البحث

أجريت هذه التجربة في الحقل ثم نقلت إلى المعمل في جامعة السودان للعلوم والتكنولوجيا كلية الدراسات الزراعية

في درجة حرارة المعمل 30 درجة لدراسة اثر مبيد الدومناك 100 والفاستاك والفلاريت والكنج في مكافحة حشرة تريبس البصل والنتيجة ليست نهائية يجب تكرار التجربة المرة المقبلة.

CHAPTER THREE

Materials And Methods.

The experiment was carried out at experimental area of Shambat Research Station during winter season 2016/2017, onion variety Baftaim was sown in nursery on late October and transplanted into the field on 15 December 2016 , the experiment was laid in Randomized Complete Block Design [RCBD]with three replicates, the plot size was 7x6x0,8 five onion plants were taken randomly from each sub plot and brought to the lab as to counting the number of thrips in the plant leaves using binocular or handle licenses .

Three sprays were carried out on 7/ 3, 14/3and 4/4 2017. The first count was taken one day before spray (pre spray count) and 2,4,7,10,and 14days after spray (post spray count).

Spray was carried out by using knapsack ❖ sprayer with spray volume of 90_100L water per fed .All other cultural practices were done for onion production ,weeding,watering and fertilization. At

the end of the season the total yield was ❖
calculated .Transformation to $x+0.5$ made
where necessary and data was statistically
analyzed using ANOVA and Duncan
Multiple Range Test (DMRT) was used for
means separation between different treatments
the insecticides evaluated at the experiment
was as follow:

Domig 100 EC fastac 10%EC, Valerate20%EC and king 5%EC
at Trips tabaci in (onion trips) the Means followed by the some
letter (s) are not significantly different at p5%.Means

Actual means in parenthesis



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CHAPTER FOUR

RESULTS

Table 1 effect of tested insecticides on mean numbers /plant of onion thrips *thrips tabaci* during winter season 2016 /2017 at Shambat Research Station (first spray).

Tested insecticides	Pre spray count	Post spray counts after (days)			
		2	4	7	10
Domig 100EC 0.04L/fed	(53.3)	(13)	(1.9)	(7.2)	(13)
	3.7	3.5 ab	1.5 ab	2.7 ab	3.5 ab
Fastac 10%EC 0.04L/fed	(76.7)	(6.5)	(1.4)	(6.3)	(6.5)
	8.8	6.2 a	1.3 ab	6 ab	2.6 a
Valerate 20EC 175ml/fed	(74.4)	(13.6)	(4.8)	(5.4)	(13.6)
	8.6	3.6 ab	2.3 bcd	2.4 ab	3.6 ab
king 5%EC 150ml/fed	(44.5)	(18.3)	(8.7)	(9.3)	(18.3)
	6.6	4.1 ab	3.0 d	3.1 b	4.1 ab
5:Untreated control	(60.80)	(139.2)	(87.7)	(77.6)	(139.2)
	7.6	11.7 ab	9.4 e	8.8 c	11.7 c

Means followed by the same letter (s) are not significantly different at p5%. Means

Actual means in parenthesis

Table 2 effect of tested insecticides on mean numbers /plant of onion thrips *Tetranychus tabaci* during winter season 2016 /2017 at Shambat Research Station (second spray).

Tested insecticides	Pre spray count	Post spray counts after (days)			
		2	4	7	10
Domig 100EC 0.04L/fed	(13)	(20.0)	(21.8)	(17.9)	(32.2)
	3.5 ab	4.4 abc	3.4 ab	4.3 bc	5.4 cd
Fastac 10%EC 0.04L/fed	(6.5)	(32.4)	(23.0)	(17.6)	(27.9)
	2.6 a	5.5 d	4.7 abc	4.2 bc	5.2 CD
Valerate 20EC 175ml/fed	(13.6)	(21.0)	(40.9)	(16.2)	(35.5)
	3.6 ab	4.3 abc	5.8 bc	4.1 bc	5.9d
king 5%EC 150ml/fed	(18.3)	(24.4)	(16.7)	(10.7)	(13.4)
	4.1 ab	4.9 bc	4.0 ab	3.2 ab	3.7 abc
5:Untreated control	(139.2)	(81.4)	(61.3)	(99.7)	(124.9)
	11.7 c	8.9 e	7.8 c	10.0 d	11.2 e

Means followed by the same letter (s) are not significantly different at p5%. Means

Actual means in parenthesis

**Table 3 effect of tested insecticides on mean numbers /plant of onion thrips *Tetranychus tabaci* during winter season 2016 /2017 at Shambat Research Station (third spray).
insecticides**

Tested insecticides	Pre spray count	Post spray counts after (days)				
		2	4	7	10	14
Domig 100EC 0.04L/fed	(46.2) 6.7 d	(24.9) 4.9 b	(4.5) 2.2 ab	(3.1) 1.9 ab	(3.3) 1.9a	(2.5) 1.6 ab
:Fastac 10%EC 0.04L/fed	(17.5) 4.1 a	(11.9) 3.4 a	(5.9) 2.5 ab	(1.8) 1.5 a	(4.9) 2.2 ab	(1.5) 1.4 ab
Valerate 20EC 175ml/fed	(30.5) 5.3 ab	(9.1) 3.1 a	(3.5) 1.9a	(2.7) 1.8 a	(5.5) 2.4ab	(4.1) 2.1 b
king 5%EC 150ml/fed	(13.5) 3.6 a	(4.6) 2.6 a	(5.1) 2.2 ab	(4.5) 2.2 abc	(4.1) 2.1 ab	(1.9) 1.5 ab
5:Untreated control	(93.3) 9.6 c	(88.4) 9.4 c	(90.1) 9.5 c	(79.6) 8.8 d	(64.5) 8.0 c	(512.9) 2.7 c

Means followed by the same letter (s) are not significantly different at p5%.Mean

Actual means in parenthesis

Table 4 effect of tested insecticides onion yield (ton/fed) during winter season 2016 /2017 at Shambat Research Staton (spray).

Tested insecticides	Yield
Domig 100EC 0.04L/fed	10.15 bc
:Fastac 10%EC 0.04L/fed	9.55 cd
Valerate 20EC 175ml/fed	7.77 cd
king 5%EC 150ml/fed	7.49 cd
5:Untreated control	5.77 d

Means followed by the some letter (s) are not significantly different at p5%. Means Actual means in parenthesis

CHAPTER FIVE

DISCUSSION

In the first spray Charbochem 500 ml/400ml /300ml/ we found significant between 500ml /400ml but 300ml different in significant with untreated

If we compared between sprays we found in the pre spray is significant between the number of insect in the saraba

In pre count also significant on the most of number of insect in the 5 plants

In the four count significant *between charbochem 500ml/400ml/300ml and selegon*