

(Coccinellidae)

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Nephus (Bipunctatus) bipunctatus	Rhyzobius lophantae (Blaisdell)
(Pharoscymnus ovoideus Sicard	Scymnus abietis Paykull (Kugelann)

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:Introduction

(Coniferales)

(Mouterde, 1966)

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Pinus : Pinaceae (= Abietaceae)

Pinus brutia Ten. *pine* L.

Cedrus libani Rich. *halepensis* Miller

: Cupressaceae

Cupressus arizonica *Cupressus sempervirens* L.

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(Spruce)

Leucaspis pini

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(Lövel,1981)

(Frier & Gruel, 1993)

.(Booth et al., 1990)

() El-Hariri

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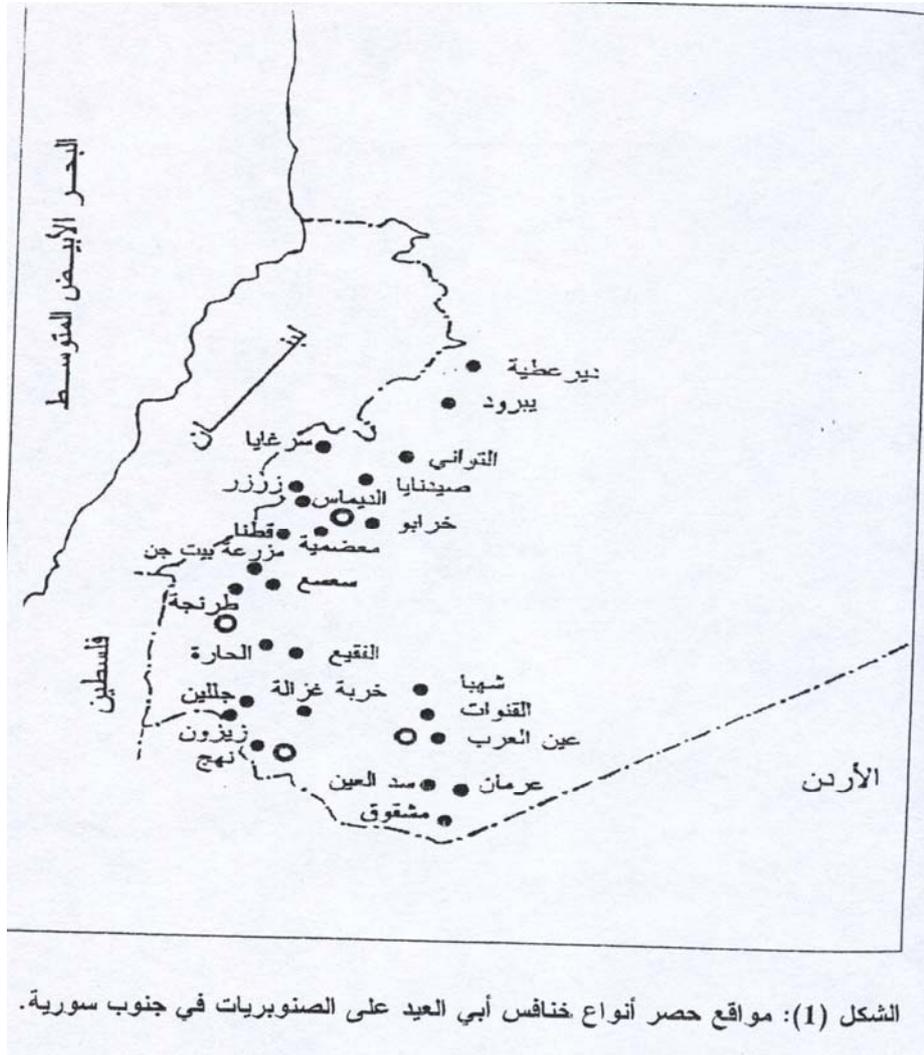
:Material & Methods

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Gourreau, 1974 Hodek, 1973 Dauguet, 1949 Kapur, 1948)
Klausnitzer & Klausnitzer, Iablokoff- Khnזורian, 1982 Fürsch, 1979
Raimundo & van Majerus & Kearns, 1989 1986
(Ruderting) Helmut Fürsch (Harten, 2000

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. (Bodenheimer & Swirski, 1957)

:Results and Discussion

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: Pineus pini (Macquart) -

إلى P. brutia

.(Bodenheimer & Swirski, 1957) Picea orientalis (galls)

Cinara palaestinensis H.R.L. -

.(Bodenheimer & Swirski, 1957) P. halepensis

Eulachnus tuberculostemmata (Theob.) -

.(Bodenheimer & Swirski, 1957)

Cinara cedri Mimeur -

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.Leucaspis sp.

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Nephus (Bipunctatus) bipunctatus Rhyzobius lophantae (Blaisdell)

Pharoscymnus ovoideus Sicard Scymnus abietis Paykull (Kugelann)

Chilocorinae (-)

Coccinellinae

Scymnini

(1974)Gourreau

P. ovoideus Sicard

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Table (2): Species of Coccinellidae on Coniferales in southern of Syria.

Subfamilie	Tribe	Specises	Prey			
Chilocorinae	Chilocorini	Chilocorus bipustulatus (Linnaeus)		-	+++	+
	Platynaspini	Platynaspis luteorubra (Goeze)		-	-	+
Coccinellinae	Coccinellini	Adalia decempunctata (Linnaeus)		-	-	++
		Coccinella septempunctata Linnaeus		-	+	++
		Coccinella undecempunctata Linnaeus		-	+	+
		Harmonia quadripunctata (Pontoppidan)		+++	++	+
		Hippodamia (Adonia) variegata (Goeze)		+	+	++
		Oenopia conglobata (Linnaeus)		+	+	++ +
Coccidulinae	Coccidulini	Rhyzobius lophantae (Blaisdell)		-	+++ +	-
Scymninae	Scymnini	Nephus (Bipunctatus) bipunctatus (Kugelann)		+	-	+
		Nephus ludyi Weise		+	-	-
		Nephus quadrimaculatus Ganglbauer		-	++	+
		Scymnus abietis Paykull		-	-	+
		Scymnus apetzi Mulsant		-	-	+
		Scymnus (Mimopullus) araraticus Khnzorian		+	+	++

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		Scymnus nubilus Mulsant		-	+	+
		Scymnus (Pullus) subvillosus (Goeze)		+	+	++
		Scymnus (Pullus) syriacus Marseul		+	+	++
	Stethorini	Stethorus gilvifrons Weise		-	+++	++
Sticholotidinae	Sticholotidini	Pharoscymnus ovoideus Sicard		+	+++	++
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Oenopia conglobata (Linnaeus)

Rhyzobius lophantae (Blaisdell) P. ovoideus Sicard

Harmonia quadripunctata (Pontoppidan)

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(1986) Klausnitzer & Klausnitzer

Coccinella undecempunctata Linnaeus

Hippodamia variegata C. septempunctata Linnaeus

(Goeze)

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Chilocorus bipustulatus (Linnaeus)

() Majerus & Kearns

(1956) Abou Nasser

(1986) Klausnitzer & Klausnitzer

() Yaghmaee . Coccidae

(Pinus sylvestris L.)

O. conglobata H. quadripunctata (Pontoppidan)

.C. cedrus (Mineus) (Linnaeus)

(1986) Klausnitzer & Klausnitzer

.Cinara H. quadripunctata (Pont.)

(1997) Majerus et al.

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H. variegata (Goeze):

Adalia decempunctata (Linnaeus)

Scymnus syriacus Marseul C. septempunctata L.

S. subvillosus (Goeze)

R. lophantae (Blaisdell)

Leucaspis sp.

.C. bipustulatus (Linnaeus)

S. gilvifrons Weise

.(Booth et al., 1990) Tetranychidae

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Table (3): Abundance & distribution of Coccinellids on Coniferales in south of Syria.

Species	Distribution	%	
Chilocorus bipustulatus (L.)		,	B
Platynaspis luteorubra (G.)		,	C
Adalia decempunctata (L.)		,	B
Coccinella septempunctata L.		,	B
Coccinella undecempunctata L.		,	C
Harmonia quadripunctata (P.)		,	B
Hippodamia (Adonia) variegata (Goeze)		,	B
Oenopia conglobata (Linnaeus)		,	A
Rhyzobius lophantae (Blaisdell)		,	B

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Nephus bipunctatus (Kug.)			C
Nephus ludyi Weise			C
Nephus quadrimaculatus G.			B
Scymnus abietis Paykull			C
Scymnus apetzi Mulsant			C
Scymnus araraticus Khnzorian			B
Scymnus nubilus Mulsant			C
Scymnus (Pullus) subvillosus (G.)			B
Scymnus (Pullus) syriacus Mar.			B
Stethorus gilvifrons Weise			A
Pharoscymnus ovoideus Sicard			A

: **A** _____

: **B** _____

: **C** _____

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S. gilvifrons Weise O. conglobata (Linnaeus) P. ovoideus Sicard

H. quadripunctata (Pontoppidan)

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R. lophantae (Blaisdell)

Nephus

Scymnus

(Klausnitzer & Klausnitzer, 1986)

S. subvillosus (Goeze) S. syriacus Marseul

N. quadrimaculatus Ganglbauer

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.(Hodek, 1973)

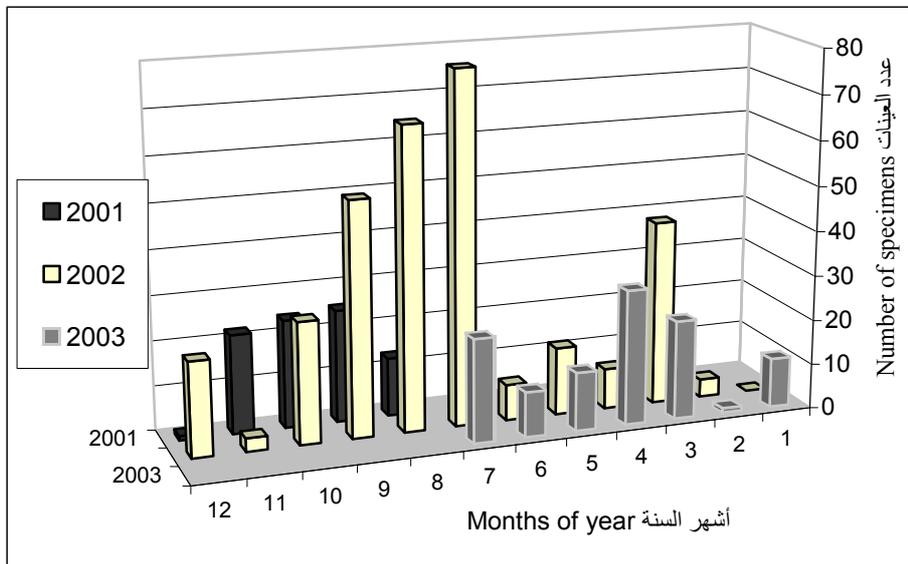
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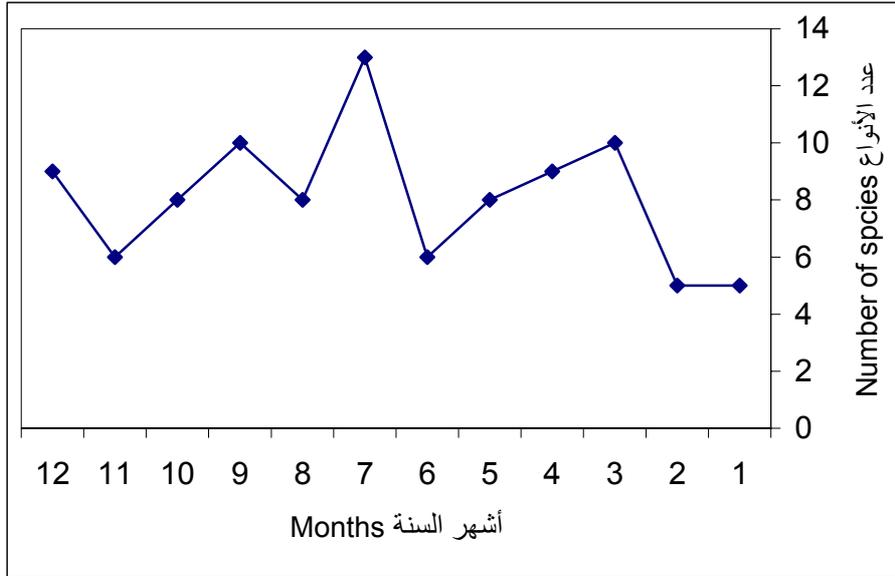
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Helmut Fürsch :

(Ruderting)



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*A preliminary Survey of Ladybirds (Coccinellidae)
on Coniferales in south of Syria.*

Nazir khalil
Dr. Abdul Rahman Mourad

Abstract:

A survey for ladybirds (Coccinellidae) on coniferales trees in south of Syria was conducted from August 2001 until August 2003. The results revealed the presence of 20 species belonging to 5 subfamilies and 7 tribes. Four species were first recorded in Syria: Rhyzobius lophantae (Blaisdell), Nephus (Bipunctatus) bipunctatus (Kugelann), Scymnus abietis Paykull, Pharoscytmnus ovoideus Sicard. All of the listed species were found to be predatory beetles attacks arthropod pests including aphids, scale insects and mites. The investigation includes their common and distribution in south of Syria.

Key Words: Coccinellidae , Coniferales , Natural Enemies , South of Syria.

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() Scymnus

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