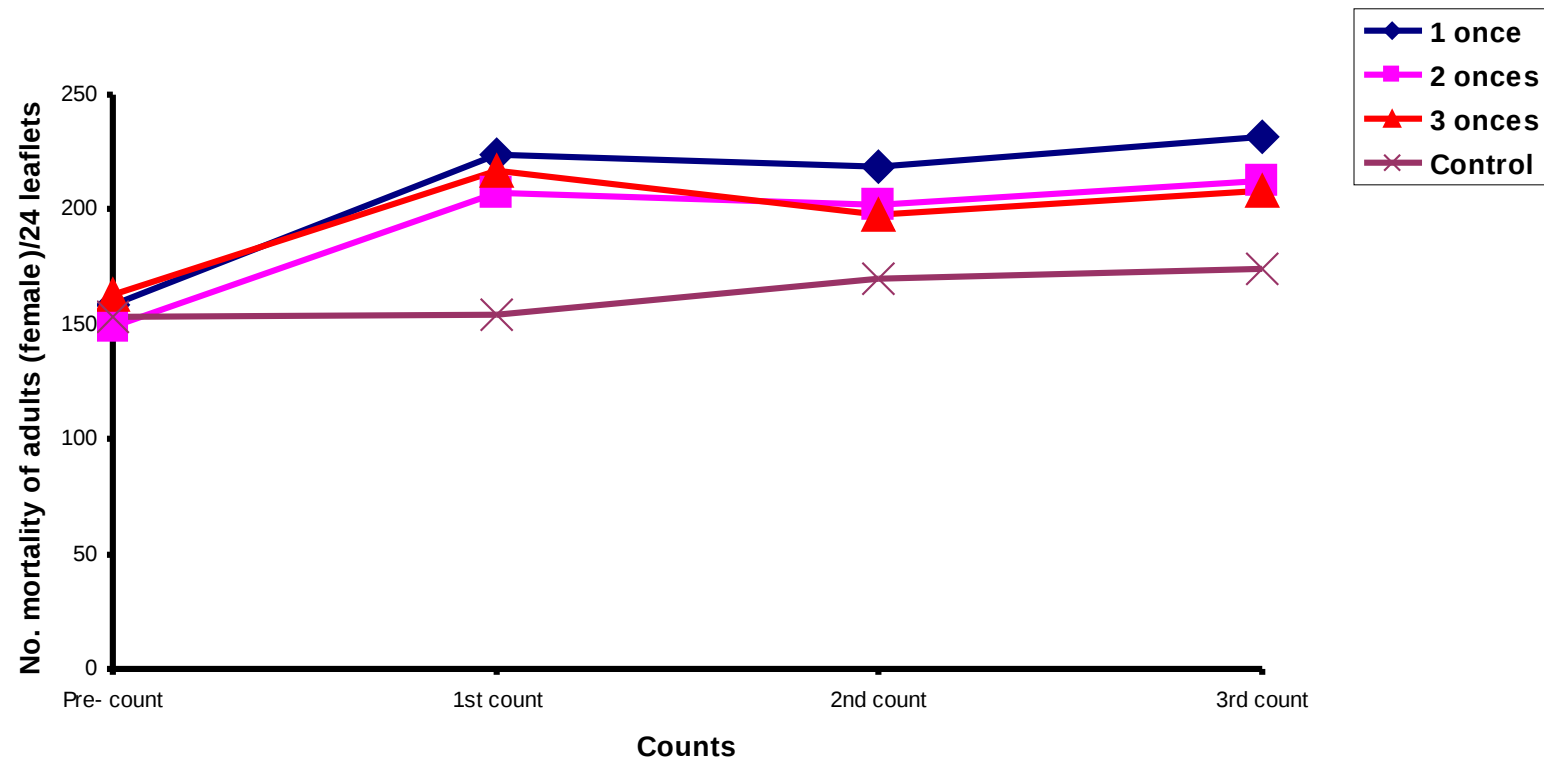


Class	Sientific name	Order	Family	Common name	Part attacked	Refernces
Insecta	<i>Phonapate frontalis</i>	Coleopter	Bostrychidae	Frond borer	Leaves	Ahmed, (2003)
	<i>Jebusae hammerschmidtii**</i>	a	Cerambycida	Stem borer	Stem	Ahmed, (2003)
	<i>Rynchophorus ferrugineus</i>	Coleopter	e	Red palm weevil	Stem	Zaid, (2005)
	<i>Oryctes elegans</i>	a	Curculionidae	Frond stalk borer	Stem	Ahmed, (2003)
	<i>Coccotrypes dactyliporda</i>	Coleopter	Scarabaeidae	Date stone beetle	Fruits	Ibrahim, <i>el.al</i> , (2003)
	<i>Oryzaephilus</i>	a	Scolytidae	Saw-Tooth grain	Fruits	Elnazeer, (2003)
	<i>surinamensis**</i>	Coleopter	Silvanidae	beetle	Leaves and fruits	Ali, (1989)
	<i>Asterolecanium</i>	a	Asterolecanii	Green date scale	Leaves	Ahmed, (2003)
	<i>phoenicis** Ommatissus</i>	Coleopter	dae	Dubas	Leaves	Zaid, (2005)
	<i>binotatus**</i>	a	Cicadellidae	California red	Leaves	Ahmed, (2003)
	<i>Aonidiella aurantii</i>	Coleopter	Diaspididae	scale	Leaves	Ahmed, (2003)
	<i>Parlatoria blanchardii **</i>	a	Diaspididae	White date scale	Leaves	Elaeza, (2003)
	<i>Phoenicoccus marlati**</i>	Homopter	Phoenicoccid	Red scale	Fruits	Ahmed, (2003)
	<i>Maconellicoccus hirsutus</i>	a	ae	Mealy bug	Root and stem	Ahmed, (2003)
	<i>Vespa orientalis **</i>	Homopera	Pseudococcid	Oriental wasp	Root and stem	Ahmed, (2003)
	<i>Odontotermis classicus**</i>	Homopter	ae Vespidae	White ant	Fruits	Elnazeer, (2003)
	<i>Odontotermis</i>	a	Termitidae	White ant	Fruits	Elnazeer, (2003)
	<i>smeathmani** Batrachedra</i>	Homopter	Termitidae	Lesser date moth	Fruits	Ibrahim, <i>el.al</i> , (2003)
	<i>amydraula**</i>	a	Cesmopterygi	Greater date moth	Leaves	Ahmed, (2003)
	<i>Arenipses sabella**</i>	Homopter	dae Pyrilidae	Store moth		
	<i>Ephestia spp**</i>	a	Pyrilidae	Desert locust		
	<i>Schistocerca gregaria**</i>	Homopter	Acrididae			
		a				
		Hymenopt				
		era				
		Isoptera				
		Isoptera				
		Lepidopte				
		ra				
		Lepidopte				
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		ra				
		Orthopter				

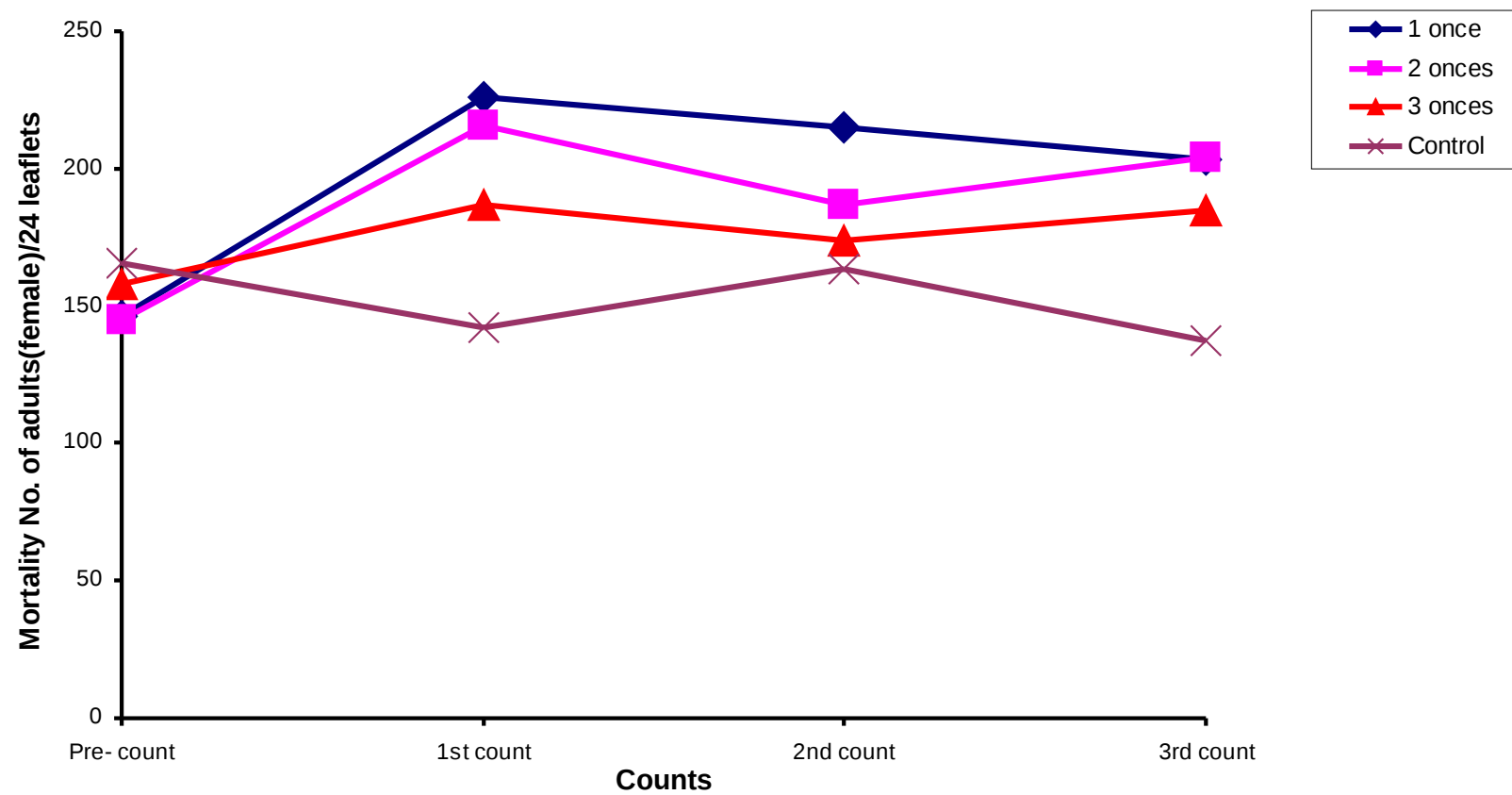
TableNo. (2-1) Date Palm Pests in The Arab World.

Class	Sientific name	Order	Family	Common name	Part attacks	Refernce
Arachnida	<i>Oligonychus afrasiaticus</i> **	Acarina	Tetranychidae	Red dust mite	Fruits	Ibrahim, <i>el.al</i> ,(2003)
	<i>Obligonychus paratinsis</i> **	Acarina	Tetranychidae	False spider mite	Fruits	Ibrahim, <i>el.al</i> ,(2003)
	<i>Raoiella indica</i> **	Acarina	Tetranychidae	Spider mite	Fruits	Ibrahim, <i>el.al</i> ,(2003)
Nematoda	<i>Longidorus</i> spp**.	Tylenchida	Heteroderidae	Needle nematode	Root	Obied, (1998)
	<i>Meloidogyne</i> spp**.	Tylenchida	Heteroderidae	Root knot	Root	Ahmed, (2003)
	<i>Tricodorus</i> spp.**	Tylenchida	Heteroderidae	nematode	Root	Obied, (1998)
	<i>Tylenchus</i> spp.**	Tylenchida	Tylenchulidae	Slubby root nematode Citrus nematode	Root	Ahmed, (2003)
Aves	<i>Passer domesticus</i> **	Passeriformes	Pycnonotidae	House sparrow	Fruit	Ahmed, (2003)
	<i>Pycnonotus barbatus arsino</i>	Passeriformes**	Pycnonotidae	Bulbul	Fruit	(Obied,(1998
Mammalia	<i>Arvicantis niloticus</i> **	Rodentia	Muridae	Nile rat	All parts	Obied, (1998)
	<i>Mus musculus</i> **	Rodentia	Muridae	House mouse	All parts	Obied, (1998)
	<i>Rattus rattus</i> **	Rodentia	Muridae	Black rat	All parts	Obied, (1998)
	<i>Mastomys natalensis</i> **	Rodentia	Muridae	Multimammate rat	All parts	Obied, (1998)

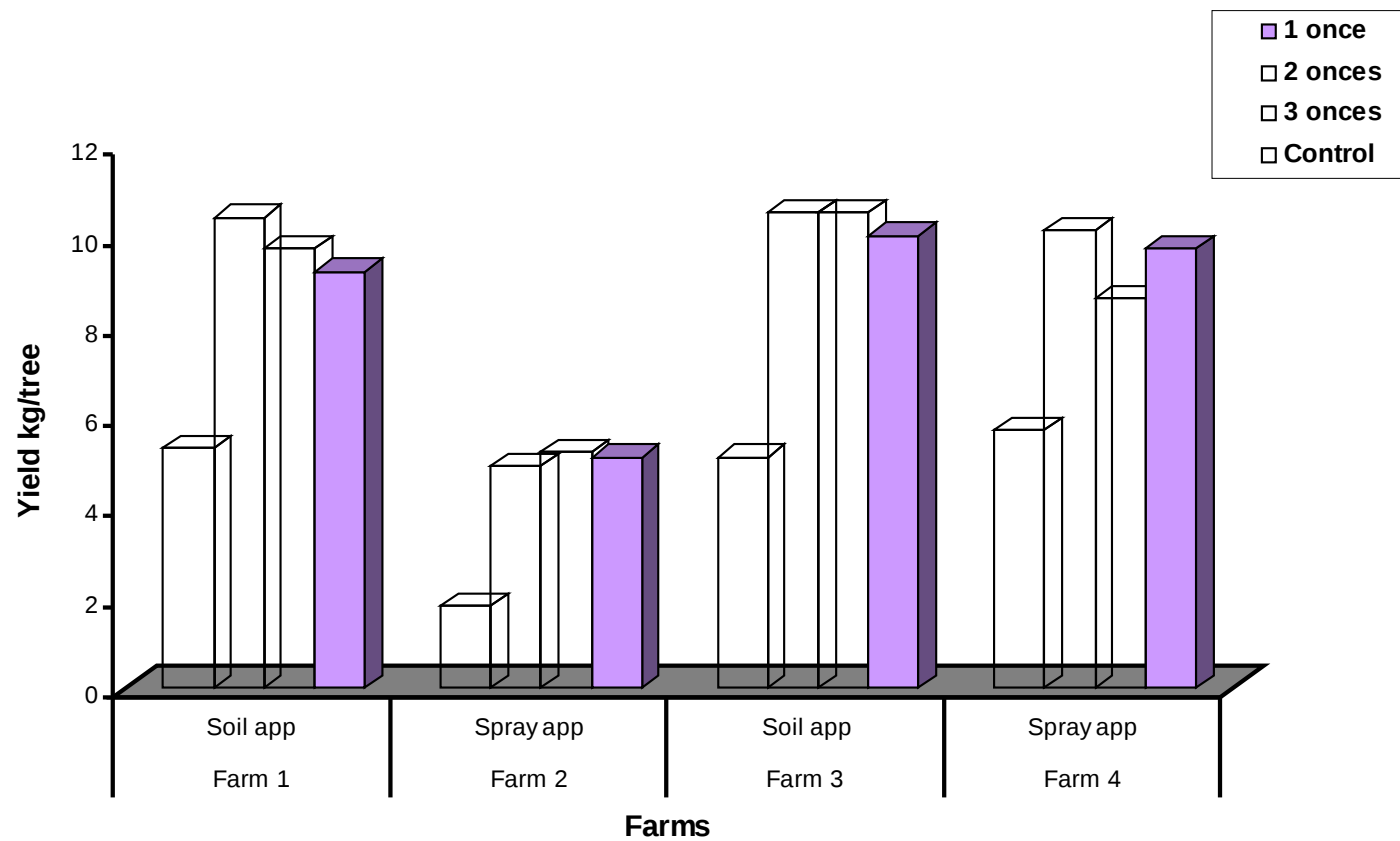
**** Recoded in the Sudan.**



**Fig (4-1) The effect of argel aqueous shoot extract against *P. blanchardii*
(Dissolved 24 hours)**



Fig(4-2)The effect of argel aqueous extract against *P.blancharii* (Dissolved 48 hours)



Fig(4-3) The effect of argel powder and aqueous extract on date palm yield (kg/tree)