

by Eng. Mir Salavatian

Herewith is a list of the most common insect pest of commercial crops (sugarbeet, sugarcane, cotton, tobacco, sesame, castor bean, kenaf, and flaxes) in Iran.

Some of these pests have been identified by the Iranian entomologists and the others by foreign entomologists as American, French and Russian from specimens sent to them.

The pests which are underlined have somewhat commercial importance. Therefore research and control with these pests are necessary. There are a lot of other pests which are still unknown here in Iran, and it will be necessary to gather specimens for research and study in the future.



List of pests of Cotton, Kenaf, Flax, Sugarbeet, Sugarcane, Tobacco,
Sesame and Castor beans:

No	Local name	Scientific name	Family	Order	Infested plants	Season of the maximum infestation	Infested areas
1	Goraz گراز	Sus scrofa L.	Suidae	Nonruminata	Sugarcane, cotton bolls, sugarbeet, rice stems, garden crops.	September-November	Mazandaran, Khouzestan & most parts of Iran.
2	Djoodje tighi جوجه تیغی	Hystrix leucura Sykes.	Hystriidae	Glires	Sugarbeet, cotton, garden crops etc.	Spring and autumn	most parts of Iran.
3	Mushe Varamin موش ورامین	Nesokia indica Gray.	Muridae	Glires	Sugarcane, cotton bolls, alfalfa roots etc.	Spring - autumn	most parts of Iran.
4	Mushe siah موش سیاه	Rattus rattus L.	Muridae	Glires	Cotton seed, sesame stored seed.	Entire year	Tehran Khouzestan & Mazandaran
5	Mushe khanegi موش خانگی	Mus musculus L.	Muridae	Glires	Cotton seed, sesame, stored seed.	Entire year	most parts of Iran.
6	Mushe sahraï موش صحرائی	Tatera indica	Cricetidae	Glires	Cotton bolls, Sugarcane, stems sesame, garden crops.	August - November	Khouzestan
7	Mushe dom ghermez موش دم قرمز	Meriones erythronus Gray.	Cricetidae	Glires	Cotton bolls, garden crops.	Summer & autumn	Gorgan Khouzestan
8	Mushe Iran موش ایران	Meriones persicus Bl.	Cricetidae	Glires	Garden crops, Sugarbeet, cereals.	Summer & autumn	Around Tehran Ghazvin, Arak & Golpayegan

9	Mushe Moghan موش مغان	Microtus socialis Pall.	Cricetidae	Glires	Sugarbeet.	Summer & autumn	Moghan, Karadj, Demavand.
10	Gonjeshk sahrāi گنجشك صحرائي	Passer hispaniolensis Tschusi.	Ploceidae	Passeres	Cotton blooms, cotton bolls.	September & October	Khouzestan (Hamidieh)
11	Ghondj zamestani غنچ زمستاني	Agrotis segetum Schiff.	Noctuidae	Lepidoptera	Cotton, sesame, Tobacco sugarbeet roots etc.	Spring	All parts of Iran.
12	.....	Agrotis exclamationis L.	Noctuidae	Lepidoptera	Sugarbeet, roots, Cotton roots.	Spring	Most parts of Iran.
13	.....	Agrotis ypsilon Rott.	Noctuidae	Lepidoptera	Sugarbeet, cotton, Tobacco roots.	Spring	Most parts of Iran.
14	.....	Euxoa conspicua Hb.	Noctuidae	Lepidoptera	Sugarbeet crowns, cereals, cotton.	Spring	North parts of Iran.
15	Caradrina کارادرينا	Laphygma exigua Hb.	Noctuidae	Lepidoptera	Sugarbeet, cotton and many other plants.	Spring - autumn	All parts of Iran.
16	Raheh or Lahah رهه (لهه)	Prodenia litura F.	Noctuidae	Lepidoptera	Cotton, castor beans & leaves of many plants.	Spring, september & october.	Khouzestan
17	Parvaneh gamma پروانه گاما	Phytometra gamma L.	Noctuidae	Lepidoptera	Sugarbeet, cotton, vegetable leaves.	Spring & summer	All parts of Iran.
18	.....	Xanthodes graellsii Feisth.	Noctuidae	Lepidoptera	Cotton leaves.	Summer and early autumn.	Khouzestan

19	Kerme saghe کرم ساقه	Sesamia cretica Led.	Noctuidae	Lepidoptera	Sugarcane and sorghum stems	Spring & autumn	Khuzestan, Isfahan, Baluchestan & southern area
20	Kerme ghooseh panbeh کرم قوزه پنجه	Chloridea obsoleta F. (Heliothis armigera Hbn.)	Noctuidae	Lepidoptera	Cotton, Tobacco, Tomato, Kenaf, sesame and pease etc.	Summer & autumn	North and north west Iran
21	.....	Chloridea (Heliothis) dipsacea L.	Noctuidae	Lepidoptera	Sugarbeet, alfalfa	Summer	North parts and Khorassan
22	.....	Chloridea (Heliothis) peltigera Schiff.	"	"	Cotton & tobacco	Early autumn	Gorgan, south Iran
23	Kerme khardar کرم خاردار	Earias insulana Boisd.	"	"	Cotton, kenaf, Okra & little mallow.	Summer & autumn	South & central Iran
24	Parvaneh kalleh mordeh پروانه کله مرده	Acherontia atropos L.	Sphingidae	"	Sesame	September & october	Khuzestan
25	.....	Phycita sp.	Pyralidae	Lepidoptera	Castor bean fruit capsule & castor bean seed.	Spring & autumn	Khuzestan & south area
26	.....	Antigasta catalaunalis Dup.	Pyralidae	"	Sesame fruit capsule and leafbuds.	Summer & autumn	Gorgan & Khuzestan
27	.....	Pyrausta nubilalis Hb.	"	"	Cotton, Kenaf, and corn.	Summer	Caspian area
28	.....	Crociosema plebejana Z.	Tortricidae	"	Cotton terminal buds	Summer	Mazandaran

29	.....	Pyroderces simplex Wlsm.	Tineidae	Lepidoptera	Cotton or decayed cotton bolls,	Autumn	Shushtar, Kazeroun,
30	Lita لیتا	Gnorimoschema ocellatella Boyd.	Tineidae	"	Beet roots, crowns & stipulls	Entire year	Tehran, central area, Fars & Kerman
31	.....	platyedra vilella Z.	Gelechiida	"	Cotton, hollyhock Little mallow	Summer	Garmsar & Saveh
32	.....	Pectinophora malvella Hb.	"	"	Cotton, hollyhock stem & boll	Summer	Rafsanjan
33	.....	Pectinophora gossypiella saund.	"	"	Cotton bolls and blooms	Summer	South east parts of Baluchestan
34	Murtche siah biabani مورچه سیاه بیابانی	Cataglyphis sp.	Formicidae	Hymenoptera	Flax seed and fruit capsules.	Summer	Behbahan Khouzesan
35	Magas risheh tchogh - مگس ریشه چغندر	Eumerus strigatus Fall.	Syrphidae	Diptera	Sugarbeet roots	Summer & autumn	Rafsanjan, Bojnurd & Kahrizak
36	.....	Desmometopa sp.	Milichiidae	Diptera	Decayed beet roots	Summer & autumn	Bojnurd. Rafsanjan & Karadj
37	.....	Scatopse fuscipes Mg	Scatopsidae	Diptera	Decayed beet roots	Summer & autumn	Bojnurd & Rafsanjan
38	Magas barg tchogh - مگس برگ چغندر	Pegomyia hyosciami Panz.	Muscidae	Diptera	Sugarbeet leaf miner	Summer	Most parts of Iran-

39	-----	Chortophila(Hylemia) cilicrura Rd.	Muscidae	"	Cotton and sugarbeet seed and seedling.	Early spring	Most parts of Iran
40	-----	Scarites eurytus Fisch. W.	Carabidae	Coleoptera	Cotton, castor bean, sugarcane roots	Spring	Khuzestan
41	-----	Melanotus spp.	Elateridae	Coleoptera	Sugarbeet, cotton and castor bean roots.	Spring & summer	North, central Iran & Fars.
42	-----	Agriotes spp.	Elateridae	Coleoptera	Sugarbeet, cotton, and castor bean roots	Spring & summer	North parts of Iran.
43	-----	Carpophilus sp.	Nitidulidae	"	Decayed beet roots	Summer & autumn	Fars
44	Allah kolang الله كولنگ	Epicauta erythroce- phala Pall.	Meloidae	Coleoptera	Sugarbeet seedling and young leaves.	March & April	Tehran, Varamin & Kara
45	-----	Mylabris calida Pall.	"	"	Tobacco flowers, seed beet flowers.	Early spring	Azarbaidjan, Bojnurd & Chutchan.
46	-----	Mylabris bimaculata Klug.	"	"	Seed beet flowers	Early spring	Bojnurd & Chutchan
47	-----	Mylabris laticollis Esch.	"	"	Seed beet flowers	Early spring	Bojnurd & Chutchan
48	-----	Mylabris ll notata turkestanica Doth.	Meloidae	Coleoptera	Seed beet flowers	Early spring	Bojnurd & Chutchan

49	.....	<i>Omophlus pilicollis</i> Men.	Alleculidae	"	Seed beet flowers	Early spring	Mazandaran & Khorassan
50	.....	<i>Opatroides punctu- latus</i> Brullé	Tenebrionidae	"	Cotton seedlings	Early spring	Gorgan & Mazandaran
51	Kake bargui كك برگي	<i>Phyllotreta vittula</i> Redt.	Chrysomelidae	"	Sugarbeet seedlings,	Early spring	Most parts of Iran
52	Kake bargui كك برگي	<i>Chaetocnema breviscula</i> Fald.	"	"	Sugarbeet, tobacco and seedlings	Early spring	Most parts of Iran
53	.....	<i>Podagrica menetriesi</i> Fald.	"	"	Flax seedlings	Early spring	Mazandaran
54	Shebelak شبلک	<i>Podagrica</i> sp.	"	"	Kenaf seedlings	Early spring	Rasht & Lahidjan
55	.....	<i>Haltica deserticola</i> <i>glycyrrizae</i> D. Ogl.	"	"	Young cotton stems and leaves	Early spring	North Parts of Iran
56	Sarkhortumi sagheh tcho- ghondar سر خرطومى ساقه چغندر	<i>Lixus incanescens</i> Boh.	Curculionidae	"	Sugarbeet stems and leaf stems	Early spring	Karadj & Varamin
57	Sarkhortumi risheh tchoghondar سر خرطومى ریشه چغندر	<i>Bothynoderes punctiven- tris</i> Germ.	"	"	Sugarbeet roots	Early spring	Varamin, around Tehran
58	Sarkhortumi risheh tchoghondar سر خرطومى ریشه چغندر	<i>Chromonotus vittatus</i> Zubk.	"	"	Sugarbeet roots	Early spring	Zarand, Shiraz & Jahrom

59	.....	Pentodon idiota Hrbst.	Scarabaeidae	"	Sugarbeet and sugarcane roots	Spring & summer	Khorassan, Khouzestan & around Tehran
60	.....	Polyphylla adspersa Motsch.	"	"	Sugarbeet and fruit tree roots	Summer	North parts of Iran
61	.....	Polyphylla olivieri Lap.	"	"	Sugarbeet and fruit tree roots	Summer	Around Tehran
62	Sene sabze panbeh سن سبز پنجه	Nezara viridula L.	Pentatomidae	Heteroptera	Cotton bolls, tobacco, castor bean pods and oranges buds.	Early spring, summer	Mazandaran, Jahrom
63	.....	Chroantha ornatula H. Sch.	"	"	Sugarbeet flowers	Spring	Karadj
64	Senake tokhme پنجه تنگ پنجه تنگ	Oxycarenus hyalipennis Cost.	Lygaeidae	"	Cotton bolls, okra pods, and little mallow	Spring, summer, autumn	South parts of Iran & Persian Gulf coast.
65	.....	Campylomma diversicornis Reuter	Miridae	"	Cotton, castor bean, sesame and garden crops	Spring & summer	Most parts of Iran, Khouzestan
66	.....	Adelphocoris lineolatus Goeze.	"	"	Sugarbeet, cotton alfalfa	Spring & summer	Most parts of Iran
67	Shirinak kondjed شیریناک کندیج	Circulites sp. (Thamnotettix opacus V. Kusun.)	Jassidae	Homoptera	Sesame	Summer & autumn	Khouzestan
68	.....	Cicadatra sp.	Cicadidae	Homoptera	Cotton stems	Spring	Mazandaran, Gorgan

69	.....	Empoasca sp.	Eupterygidae	"	Cotton leaves	Spring & summer	Most parts of Iran
70	Asalak panbeh عسلك پنجه	Bemisia gossypiperda Met L.	Aleurodidae	"	Cotton, sesame, castor bean, melons, okra, etc.	Summer & autumn	Fars & Khouzestan
71	Shateh dorosht sabze شته درشت سبز پنجه	Acyrtosiphon gossypii Mord.	Aphidae (Aphididae)	"	Cotton seedlings	Spring	Mazandaran & Gorgan
72	Shateh baghala شته باقلا	Aphis fabae Scop.	Aphidae	"	Sugarbeet & tobacco	Spring	Most parts of Iran
73	Shateh panbeh شته پنجه	Aphis gossypii Glov.	Aphidae	"	Cotton, sugarbeet, tobacco, sesame and Kenaf	Spring, summer & autumn	Most parts of Iran
74	Shateh aghaghya شته اقاغیا	Aphis laburni Kalt.	Aphidae	"	Sugarbeet, tobacco & kenaf	Spring	North & Central Iran
75	Shateh estabragh شته اصطبرق	Brachyunguis plotnikovi Nev.	"	"	Cotton	Spring	South & central Iran
76	Shateh risheh lubia شته ریشه لوبیا	Trifidaphis phaseoli Pass.	"	"	Sugarbeet and cotton roots	Spring	North and north east Iran
77	Shateh holu شته هلو	Myzus persicae Sulz.	"	"	Cotton and sugarbeet leaves	Spring	North and central Iran
78	Sapardar ghahvei morakabat سپردار قهوه ای مرکبات	Chrysomphalus dictyospermi Morg.	Coccidae	"	Cotton leaves	Spring	Caspian sea area

79	Thrips ترپس	Thrips tabaci Lind.	Thripidae	Thysanoptera	Cotton, tobacco, kenaf & Castor beans	Spring	Most parts of Iran
80	Malakhe shakhak boland ملخ شاک باند	Phasgonura viridis - sima L.	Tettigoniidae	Orthoptera (Saltatoria)	Tobacco, sesame, cotton, flax, sugarbeet.	Spring	Most parts of Iran
81	Malakhe sabz shakhak boland ملخ سبز شاک باند	Phasgonura caudata Ch.	Tettigoniidae	Orthoptera	Flax, tobacco, sesame, cotton & sugarbeet	Spring	North parts of Iran
82	.....	Tettigonia albifrons F.	"	"	Young cotton leaves	Spring	North parts of Iran
83	.....	Platycleis spp.	"	"	Cotton & tobacco-	Spring	Most parts of Iran
84	.....	Oecanthus turanicus Uv.	Oecanthidae	"	Cotton, tobacco, castor bean, Kenaf & sesame	May to July	Most parts of Iran
85	Sirsirak سیر سیرک	Gryllus (Acheta) bimaeculatus Uv.	Gryllidae	"	Cotton stems	May to July	Most parts of Iran
86	Sirsirak سیر سیرک	Gryllus (Acheta) burdigalensis Latr.	"	"	Cotton stems	May to July	Most parts of Iran
87	Sirsirak biabani سیر سیرک بیابانی	Gryllus (Acheta) desertus Pall.	"	"	Sugarbeet, sesame, cotton, tobacco, flax stems.	May to July	Most parts of Iran
88	Abdozdak Afrighai آبدزدک افریقانی	Gryllotalpa africans Palisot.	Gryllotalpidae	"	sugarcane, tobacco, cotton, sugarbeet & rice roots	Spring & autumn	South parts of Iran and Khouzesian group etc.

89	Abdozdak آبدزدك	<i>Gryllotalpa unispina</i> Sauss.	Gryllotalpidae	"	Tobacco and cotton roots	May to July	North and Central Iran.
90	Abdozdak آبدزدك	<i>Gryllotalpa gryllotalpa</i> L.	"	"	Cotton, tobacco, kenaf, flax and rice roots	May to July	Most parts of Iran
91	.....	<i>Tropidopola cylin- drica obtusa</i> Uv.	Acerididae	"	Sugarcane and rice leaves	September to October.	Khouzestan
92	Malakhe daryai ملخ دریائی	<i>Schistocerca gregaria</i> Forsk. ph. <i>gregaria</i>	"	"	many plants	Spring	Southern and central Iran During invasion
93	Malakhe Mesri ملخ مصری	<i>Anacridium aegyptium</i> L.	Acerididae	Orthoptera	Cotton leaves	Spring	Most parts of Iran
94	Malakhe Italiai ملخ ایتالیائی	<i>Calliptamus italicus</i> Italicus L.	"	"	Cotton leaves	Spring	Mazandaran. Azarbaijan, Kermanshahan,
95	.....	<i>Calliptamus barbarus</i> cephalotes F. W.	"	"	Cotton leaves	Spring	Most parts of Iran
96	.....	<i>Thisiocetrinus pteros- tichus</i> F. W.	"	"	Cotton and tobacco leaves	Spring	Most parts of Iran
97	.....	<i>Thisiocetrus adpersus</i> Redt.	"	"	Cotton and tobacco leaves	Spring	Caspian area
98	.....	<i>Thisiocetrus littora- lis similis</i> (Br. W.)	"	"	Cotton leaves	Spring	Khouzestan

99	.....	<i>Pyrgomorpha conica</i> deserti B. Bienko.	"	"	Cotton leaves	Spring	Most parts of Iran
100	.....	<i>Atractomorpha</i> externa B. Bienko.	"	"	Tobacco and Cotton leaves	Spring	South Iran
101	.....	<i>Chrotogonus robertsi</i> Kirby.	"	"	Tobacco and Cotton leaves	Spring	South east of Iran
102	.....	<i>Paracryptera microp-</i> <i>tera transcaucasica</i> (Uv.)	"	"	Cotton leaves	Spring	Caspian area
103	Malakhe Marakeshi ملحہ راکشی	<i>Dociostaurus maroccanus</i> Thunb. ph. gregaria.	"	"	Cotton, tobacco, cereals and Castor bean leaves	Spring	Gorgan, Moghan
104	.....	<i>Dociostaurus tarta-</i> <i>rus</i> Uv.	"	"	Cotton leaves	Spring	Dasht Gorgan
105	.....	<i>Chorthippus</i> spp.	"	"	Cotton and tobacco leaves	"	Most parts of Iran
106	.....	<i>Duroniella</i> spp.	"	"	Cotton leaves	"	South and south west Iran
107	.....	<i>Aiolopus strepens</i> Latr.	"	"	Cotton leaves	"	South Iran
108	.....	<i>Hilethera aelopoides</i> Uv.	"	"	Cotton, sesame leaves	"	South Iran

109	Malakhe Asiai boumi ملخ آسیائی بومی	Locusta migratoria L. ph. solitaria	"	"	Cotton leaves	Spring	Most parts of Iran
110	Malakhe Asiai mohajer ملخ آسیائی مهاجر	Locusta migratoria L. ph. gregaria	"	"	Cotton leaves	Spring	Gorgan During invasion
111	.....	Oedaleus decorus Germ.	"	"	Cotton leaves	"	Most parts of Iran
112	.....	Mioscyrtus wagneri rogenhoferi Sauss.	"	"	Cotton leaves	Spring	Dashte Gorgan
113	.....	Oedipoda coerulescens L.	"	"	Cotton and tobacco leaves	"	North & West Iran
114	.....	Oedipoda miniata miniata Pall.	"	"	Cotton leaves	"	Most parts of Iran
115	.....	Acrotylus insubricus (Scop.)	"	"	Cotton leaves	"	Most parts of Iran
116	.....	Sphingonotus satrapes Sauss.	"	"	Cotton leaves	"	Most parts of Iran
117	.....	Sphingonotus carinatus Sauss.	"	"	Cotton leaves	"	Most parts of Iran
118	Muriane riz موریانه ریز	Amiermes vilis (Hagen.)	Termitidae	Isoptera	Cotton, sesame roots & dry wood roots:	May to July	Khouzestan & south Iran

119	Murianeh dorosht موریانه درشت	Anacanthoermes (Hodoter- mes) Vagans septentrion- nalis (Jac.)	Hodoter- midae	"	Sesame, cotton roots & dry wood	May to July	Khouzestan & south Iran
120	Kaneh risheh کنه ریشه	Rhizoglyphus sp.	Tyroglyphidae	Acarina	Decayed beet roots, Cotton, sesame, tobacco and sugar- cane roots	Entire year	Bojnurd , Rafsanjan & Ahvaz
121	Kaneh vash ghuzeh کنه ویش قوزه پنجه	Pediculopsis sp.	Pediculoididae	"	Wormy cotton and cotton bolls	autumn	Moghan
122	Kaneh tar ankabouti کنه تار عنکبوتی	Tetranychus urtica Koch.	Tetranychidae	"	Cotton, sesame, kenaf, sugarbeet, castor bean and tobacco leaves.	summer and early autumn	Most parts of Iran
123	Khar khaki خر خاکی	Porcellio ornatus M. Edw.	Oniscidae	Isopoda	Cotton seedlings	Early spring	North parts of Iran
124	Nematode risheh نماتود ریشه	Meloidogyne marioni (Cornu.)	Heteroderidae	Nematodes	Tobacco, sesame, cotton, tomato, eggplant, garden crop roots.	summer and early autumn	Most parts of Iran especially Khouzestan

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Insecticides trials for Soun pest

The following report is based on the result of tests obtained in 1958 from several insecticides used by both aerial and ground spraying systems for experimental control of *Eurygaster integriceps*.

General consideration

The Varamin district, on the outskirts of Tehran (67 kilometres South East of Tehran), where the present experiment was carried out, is located in the heart of the wheat growing area of the central parts of Iran. The region is edged by the Gharaaghadj mountain range on which the Soun overwinters from 1800 up to 2400 metres above sea level. The type of tillable land is of texture. clay sandy. The minimum temperature is about 6 degrees centigrade below zero, and the maximum summer temperature reaches as high as 41 degrees centigrade. The elevation is 960 metres above sea level. The wheat is fall sown and irrigated, with one third of the total 20.000 hectares cultivated land placed under barley and the other two thirds devoted to wheat.

In the spring of 1958 (May-June) after extensive surveying of various parts of Varamin, it was evidenced that the density of Soun population in Pazooki and Bahram - Vasat was so low that in most places only one adult Soun was observed in every 30-40 square metres. In Bahnam Arab only the Soukhteh area has been heavily infested by Soun, with Jalilabad and Shotor-khar villages being also densely populated. There was a minimum of one and a maximum of four adult Soun per square metre.

Insecticides used were as follows:—

DDT 25% E. C.

DDT 25% Sol.

DDT 75% W. P.

Diazinon

Dipterex,

Chlorothion

Ciba 570

Bayer 4824

Thiodan

Results and discussion

A.— The four following tables show the results of the insecticides trials for adult *Eurygaster*; the two first deal with ground spraying and the other two with aerial.