KARNY'S KEY TO THE PHLOEOTHRIPIDAE

R. C. TREHERNE, Entomological Branch, Department of Agriculture, Ottawa.

A few years ago I placed before the members of the British Columbia Entomological Society certain suggestions in key form to determine the Aeolothripidae and I followed this with a similar key for the Phloeothripidae. I was kindly allowed place on the programme of one of our annual meetings for an explanation of this latter division of the Thysanoptera. I did not at the time present my paper which I had then prepared because I did not feel it was complete enough for issuance in our Proceedings. I had made an endeavour to separate and then to bring together again the information on this group at that time in my possession. I am very glad indeed, however, that I did not present my paper for publication for the reason that recently there has come into my possession a very complete and excellent paper written by Dr. H. Karny, and received direct from him at his laboratory at Buitzenzorg in Java. This work covers the work I had attempted and is, from such an authority, a most complete resume of our present knowledge of the Thysanoptera. It appeared in Treubia, Volume I, Part 4, 1921, and I have to the best of my ability translated this paper from the original German into English and herewith present that part of it which has reference to the Phloeothripidae, to the members of our Society for their information.

PHLOEOTHRIPIDAE

- 1. Cheeks without bristle-bearing warts.
 - 2. Cheeks not set throughout their entire length with thorn-like bristles.
 - 3. Head not much swollen towards the posterior margin.
 - 4. Mouth cone sharply pointed at end.....Liothripinae
 - 4. Mouth cone rounded at end.

 - 5. Wings reduced or not narrowed in the middle. Prothorax along posterior margin clearly broader than the head.
 - 6. Head not at all or slightly longer than the prothorax.

 - 7. Fore tibia with a tooth on the inside extremity
 - 6. Hood closely leaves the third of the Kladothripinae
 - 6. Head clearly longer than the prothorax.
 - 7. Head seldom more than twice as long as wide, its sides fairly regularly formed. Antennae not notice-

ably long and thin and without teeth-like projections at the joints
PHLOEOTHRIPINAE
1. Compound eyes moderately large, not taking in the whole of the fore part of the head. 2. Fore femora in both sexes unarmed. 3. 8th abdominal segment (perhaps only in the male) with tooth-like processes on the sides. 4. Wings present
LIOTHRIPINAE
 Fore wings not narrowed in the middle. Antennae 8-jointed. Head not at all or not much longer than the prothorax. 7th and 8th antennal segments clearly separated from one another

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	4. Wings fully developed.
	5. Tube in most cases clearly more than half as long as the head.
	6. Antennae and legs short and thick
	Liophlocothrips Priesner
	6. Antennae and legs slender Liothrips Uze
	 Tube only about half as long as the head. Very strong anteocular bristles anteriorly directedTrybomia Karny
	4. Wings reduced or absent.
	5. 3rd antennal joint pronouncedly longer than the others
	ef. Leptogastrothrips Trybon
	5. 3rd antennal joint not at all or scarcely longer than the others.
	6. 3rd antennal joint noticeably shorter than the 8th
	Lissothrips Hood
	6. 3rd antennal joint clearly longer than the 8th.
	7. The whole thorax adorned with a snow-white line, or
	each side, continued into the first abdominal segments
	Poecilothrips Uze
	7. One colour, the thorax without white lines. The 7th
	and 8th antennal segments with a broad surface join-
	ing one another, apparently entire Neothrips Hood
	2. Antennae 7-jointed cf. Symphyothrips H. & W
1.	Wings always well developed, narrowed in the middle, sole-like.
	2. Head long and narrow, gradually narrowing posteriorly, twice as
	long as broad Dolichothrips Karny
	2. Head at the most a third longer, with slightly arched cheeks.
	cf. Neoheegeria Schmutz
	21001100gC11tt Sentinutz
	HAPLOTHRIPINAE
1.	Bristles of the prothorax simple, sharp or club-like, never funnel-shaped.
	2. Fore femora unarmed.
	3. Fore tibia unarmed.
	4. 3rd antennal joint noticeably short, shorter than the 8th.
	ef. Lissothrips Hood
	4. 3rd antennal joint pronouncedly longer than the 8th.
	5. Prothorax along posterior margin not much broader than
	the head.
	6. Mouth cone reaching almost to the mesosternum
	Gnophothrips H. & W.
	6. Mouth cone short, reaching to the middle of the pros-
	ternum
	oephalothrips Uzel

	5. Prothorax along posterior margin clearly broader than the
	head.
	6. Head normal.
	7. Bristles on tube and 9th abdominal segment notice-
	ably long, about half as long as the tube. The re-
	maining abdominal bristles club-like. Head and
	body extremity dark; body centre light, yellowish.
	Hindsiana Karny
	7. Bristles not as above. Body equally coloured.
	8. Anterior ocellus on a little rising on the vertex of
	the head, which does not rise at the front above the
	base of the antennae.
	9. Tube at the base without close-lying scales.
	Head usually not at all or only a little longer
	than the prothorax.
	10. Mouth cone rounded off
	Haplothrips Serville
	10. Mouth cone pointedNeoheegeria Schmutz
	9. Tube in the male with close lying scales at the
	base on each side. Head pronouncedly longer
	than the prothoraxZygothrips Uzel
	8. Anterior ocellus on the elongated vertex of the
	head, rising above the base of the antennae at the
	front
	6. Head narrowed along posterior margin, with a highly
	arched vertex
	3. Fore tibia at the extremity with a sharp tooth-like process. Fore
	tarsus also armed with a strong tooth
	2. Fore femur armed on the inside with a powerful tooth
	ef. Cryptothripinae
1.	Bristles of the prothorax funnel-shaped, transparent, often only recog-
	nizable on close examination.
	2. 6th antennal joint clearly separated from the 7th. Fore femur in
	the male with one tooth
	2. The last three antennal joints seemingly joined together
	Rhopalothrips Hood
	TRICHOTHRIPINAE
1.	Fore angles of the breast with two finger-like thorns, and at their side
	several smaller ones
1.	Fore angles of the breast without finger-like processes.
	2. Bristles of prothorax funnel-shaped, transparent.
	ef. Haplothripinae

2.	Bristles of prothorax simple, sharp or clubbed at end, not funnel-
	shaped.
	3. Head pronouncedly broader than long.
	4. Head slightly tapering along the posterior margin. The 7th
	and 8th antennal joints together longer than the third
	Brachythrips Reuter
	4. Head broadest along posterior margin. The 7th and 8th an-
	tennal joints clearly separated from one another, each as long
	as the third. Austrothrips Brethes
	3. Head as long as broad or longer.
	4. Antennae 8-jointed.
	5. Posterior part of head broadest with sides clearly tapering
	towards the front.
	6. Abdomen not broader than the pterothorax
	Cecidothrips Kieffer
	6. Abdomen noticeably broad, much broader than the
	pterothorax Eurythrips Hinds
	5. Head not broader along posterior margin.
	6. Abdomen with quite short, weak bristles or with none.
	7. Abdominal bristles present. Antennal joints not
	noticeably short and thick
	7. Abdominal bristles absent. The middle antennal
	joints noticeably short and thickLispothrips Reuter
	6. Abdomen covered sparsely with long bristles.
	7. Mouth cone as long as the vertex of the head
	ef. Eurhynchothrips Bagnall
	7. Proboscis pronouncedly shorter than the rest of the
	head.
	8. Fore tibia armed at the end with a tooth
	Plectrothrips Hood
	8. For tibia without teeth.
	9. Tube not noticeably short, without longitudinal.
	sutures.
	10. Labrum sharply pointed, rising above the
	gently rounded off mouth cone. Antennae
	more than twice as long as the head
	Trichothrips Uzel
	10. Labrum blunt; when not, the antennae are
	less than twice as long as the head.
	11. Fore femur in both sexes much thick-
	ened
	11. Fore femur (in both sexes?) weak.
	12. Head clearly longer than broad.

13. Fore tarsus armed with a dis-
tinct toothDolerothrips Bagnall
13. Fore tarsus without tooth or only
supplied with a very small crook-
ed tooth.
14. Prothorax clearly widening
along the posterior margin.
Eothrips Hood
14. Prothorax gently tapering
towards the posterior margin
at the most two-fifths broad-
er than the head
Eumorphothrips Schmutz
12. Head not at all or scarcely longer
than broad. Eyes very small.
13. Ocelli and wings lacking. Body
length 1.5 mm
Oedemothrips Bagnall
13. Ocelli and wings present. Body
length 4.5 mm.
cf. Holothrips Karny
9. Tube about one-third shorter than the head,
with several deep longitudinal sutures
Barythrips H. & W.
4. Antennae 7-jointed.
5. Eyes very prominent; head behind eyes constricted very
much. The upper surface of the body with polygonal net- like structures
5. Eyes not prominent; head behind not constricted. No net-
like sculpturing. 6. Ocelli present.
7. Fore femur much thickened, as a rule, more than
twice as long as the tibia
7. Fore femur not so powerful. Fore tarsus in both
sexes with a prominent tooth Symphyothrips H. & W.
6. Ocelli absent. Wings stunted or absent. Allothrips Hood
KLADOTHRIPINAE
1. Prothorax more than twice as long and 3-4 times as broad as head. Eurynothrips Bagnall
Eurynointips Bagnan

1. Prothorax not at all or only a little longer than the head. 2. Head with parallel sides, about twice as long as broad. 3. Antennae 8-jointed. Body uniformly dark.

4. Tube about as long as the head. Claws of the fore tarsus very powerful, longer than the tarsi. Fore tibia noticeably shor and broad, only about one and a half times as long as broad
4. Tube about half as long as the head. Fore tarsi about as long or even longer than their claws. Fore tibia not noticeably short, about three times as long as broadOncothrips Karny
3. Antennae 7-jointed. Black, Pterothorax and first abdomina segment yellow
2. Head tapering towards the posterior margin, not much longer than
broad. 3. First antennal joint much shorter than the second.
4. Fore wings not narrowed in the middle, with eight fringes
4. Fore wings narrowed in the middle, sole-like, without fringes ef. Podothrips Hood
3. First antennal joint as long or longer than the second and much stronger
CRYPTOTHRIPINAE
 Fore femur, at least in the male, armed with a strong tooth. Tooth of the fore femur present in both sexes. Fore tibia unarmed 3. Antennae twice as long as the head. Prothorax along the posterior margin only one-third broader than the head. Microcanthothrips Bagnal 3. Antennae rarely more than one and a half times as long as the head. Posterior margin of prothorax one and a half times usually twice as broad as the head. Androthrips Karny 2. Tooth of the fore femur only present in the male. Fore tibia in the male on the inner side with three little teeth. Aleurodothrips Franklin
1. Fore femur in both sexes unarmed.
 Fore tibia armed with one toothcf. Agnostochthona Kirkaldy Fore tibia unarmed.
3. Head not at all or scarcely longer than broad, but longer than the prothorax
3. Head much longer than broad.4. Antennae, 8-jointed.
5. A well developed bristle on each side of the anterior occllus. Diceratothrips Bagnall
5. No very large bristles beside the fore ocellus.
6. An unusually long, strong bristle on each side behind the hind ocellus

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6. No strong bristles behind the hind ocellus.7. Eyes very large, almost touchingHolopothrips Hood
7. Eyes not very large.
8. 7th antennal joint clearly separated from the 6th.
9. Fore ocellus placed on the elongated vertex
rising above the antennal base, directed anter-
iorly Leptothrips Hood
9. Fore ocellus on a little rising on vertex, not
rising above base of the antennae.
10. Fore femur, at least in a female, slender.
11. Fore femur much bent with a broadly
angular concave inner margin
Rhaebothrips Karny
11. Fore femur not noticeably bent with an
almost straight inner margin.
12. Head not much longer than broad.
Body length 4.5 mm
Holothrips Karny
12. Head clearly longer than broad.
13. Wings stunted or narrowed in
middle.
14. Mouth cone broadly rounded
off.
15. Fore femur in the male
very much thickened.
ef. Crytothrips
15. Fore femur in both sexes
slender Pseudocrypto-
thrips Priesner
14. Mouth cone narrowed, not
rounded off until the end.
Fore femur in both sexes
slender

...... Porphyrothrips Vuillet
14. Coloured differently. Fore
tarsi, at least in the female,
unarmed.

14. Light yellow and mottled purplish. Fore tarsi in both sexes with one tooth.....

rowed in the middle.

- 15. Fore femur in both sexes slender.
 - 16. Head no more than one quarter longer than broad. cf. Gyn-.....aikothrips Zimm
 - 16. Head at most twothirds longer than broad.
 - 17. Tube nearly as long or longer than the head. Gynaikothrips

Zimm

- 17. Tube clearly shorter than the head.
 - 18. Antennae less than twice as long as the head. cf. Gyn-.... aikothrips

Zimm

- 18. Antennae about twice as long as the head.
 - 19. More than 10 fringes. Dark with out much lighter colouring.
 - .. **Hoodia** Karny
 - 19. Less than 10 fringes. Reddish yellow or partly

15. Fore femur in the male
thickened. Fore tarsus,
at least in the male,
armed at most with one
tooth Cryptothrips Uzel
10. Fore femur in both sexes thickened.
11. Labrum not sharply pointed. Abdomin-
al bristles not noticeably long
Mesothrips Zimmerman
11. Labrum sharply pointed, rising above
the mouth cone. The bristles on the
last abdominal segment extending be-
yond the tube. Middle antennal joints
very long and slender
Megalomerothrips Watson
8. The last three antennal joints joined together with
a broad surface apparently entire
Dermothrips Bagnall
4. Antennae 7-jointed.
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle,
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle, strongly constricted above this point, by the hind margin
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle,
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle, strongly constricted above this point, by the hind margin
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle, strongly constricted above this point, by the hind margin of the compound eyes
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle, strongly constricted above this point, by the hind margin of the compound eyes
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4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle, strongly constricted above this point, by the hind margin of the compound eyes
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle, strongly constricted above this point, by the hind margin of the compound eyes
4. Antennae 7-jointed. 5. Head much longer than broad, slightly but clearly tapering towards the middle, broadest on posterior margin Polyphomothrips Schmutz 5. Head hardly longer than broad, broadest about the middle, strongly constricted above this point, by the hind margin of the compound eyes

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	4. Mouth cone broadly rounded. Cheeks arched
	Compsothrips Reuter
	3. Wings presentLophothrips Karny
	2. Antennal joints without processes.
	3. Tube shorter or as long as the head. A pair of long strong
	thorns or bristles near the anterior ocellus.
	4. Antennae 8-jointed.
	5. Tube shorter than the head. Two very long anteriorly-
	directed bristles in front of the fore ocellus.
	Ophidothrips Schmutz
	5. Tube as long as the head. A moderately-long very strong
	outwardly-directed bristle on each side beside the anterior
	ocellusef. Anactinothrips Bagnall
	4. Antennae 7-jointedcf. Polyphemothrips Schmutz
	3. Tube clearly longer than the head. No thorns or bristles by the
	anterior ocellus
	DOGEGGGODIOMIDIDA
_	DOCESSISSOPHOTHRIPS
1.	Head sharply constricted towards the side more than one-quarter of
	the whole body length. Dorsal aspect strongly arched, ventral side
	almost bent out at right angles when seen in lateral view
1	Egchocephalothrips Bagnall
1.	Ventral side of head not at all or hardly concave
	Docessissophothrips Bagnall
	MACROTHRIPINAE
1.	Fore femur without a row of teeth.
	2. Fore hips without a horn.
	3. On each side of the fore angles of the middle breast, two finger-
	like thorns and beside them several smaller ones
	ef. Tetracanthothrips Bagnall
	3. Fore angles of the middle breast unarmed or with a forked
	process.
	4. Tube only about half as long as the headcf. Trybomia Karny
	4. Tube about as long as the head or longer.
	5. Fore angles of the middle breast in the male, with a forked
	like process
	5. Fore angles of the middle breast in both sexes unarmed.
	6. Fore tibia unarmed
	6. Fore tibia with a sharp claw-like tooth
	2. Fore hips with an angularly-bent heel-like or straight cone-like
	horn
	macrountips Bagnall

	Fore femur in the male on inner significant	de with a row of teeth.	Female
	inknown. 2. Teeth of fore femur large and slend	der, tap-shaped. Fore tars	sus with
	two little teeth	Macnatothrips	Bagnan
2	2. Teeth of fore femur small and	hump-like. Fore tarsus	with a
	powerful tooth.		
	3. The end of the fore tibia with	a tooth-like process	
		Ischyrothrips	Schmutz
	3. Fore tibia unarmed.	Eulophothrips S	Schmutz
	IDOLOTHRI	PIDAE	
t	Second to the eighth abdominal se than five times as long as the ninth a 2. Head projecting not at all or on angles of the prothorax and fore for the 9th abdominal segment. 3. Head shorter. Cheeks without ing without sculpturing or light and the second	abdominal segment. ally a little beyond the eyemur unarmed. Tube long thorns. Prothorax clear ttle humps. Tube at lea	ger than ly slant- ast four
	times as long as the 9th abdon	mai segment.	
		Gigantourips Zim	.merman
	3. Head longer. Cheeks set with	more or less strong thorn	18. Pro-
	thorax with sculptures or litt	tle humps. Tube less th	an four
	times as long as the 9th abdo		
	4. A strong sickle-shaped stunt		
	of the knee on the fore femu		
		Dicaiothri	ps Buffa
	4. Fore femur of the male	without sickle-shaped	bristles.
2	2. Head projecting far in front of		
9	femur in front usually with a to		0110 1010
	3. Tube not at all or only a litt	le lenger than the 9th at	dominal
		le longer than the 5th ax	Monnai
	segment.	111 1 1	
	4. Fore angles of the prothora	x with a large thorn	
		Mecynothrips	Bagnall
	4. Fore angles of the prothora	x unarmed Klinothrips	Bagnall
	3. Tube about three times as lor	ng as the 9th abdominal	segment.
	Fore femur (at least in the ma	ale) very much enlarged.	
	4. A strong blunt hump on t	he middle of the inner m	argin of
	fore femur in the male. For	ore tibia at the end arme	d with a
	sharply angular tooth	Phoxothrin	s Karny
	4. The middle inner margin	of the fore femur with	out little
	humps. Fore tibia at	the and only bluntly o	noularly
	numps. Fore tidia at	me end omy bluntly-a	Cohmuta
	broadened	Kieothrips	Bennutz

- 1. Second to eighth abdominal segments (at least in the male) armed at the side with a posteriorly directed tooth. Tube 5-7 times as long as the 9th segment.

 - 2. Head not quite three times as long as broad. 1st antennal joint without a thorn.
 - 3. Bristles on the head normally developed, not very long.

 Idolothrips Haliday

MEGATHRIPIDAE

- 1. Fore ocellus further distant from the two side ones than these are from one another......Subfamily Bactrothripinae
- 1. Fore ocellus not further distant from the two side ones than these are from one another...................................Subfamily Megathripinae

BACTROTHRIPINAE

- 1. Fifth abdominal segment in the male without horned processes.

 - 2. Horned process of the 6th male abdominal segment shorter and less markedly diverging, hardly reaching to the middle of the 7th segment, the latter on each side with a short tooth-like process. The 8th segment marked with irregular knobby markings.

MEGATHRIPINAE

1. Horned process of the 6th male abdominal segment as a rule extending past the end of the 7th segment, bent outwardly.

2. Tube of the female, six times as long as the 9th segment
2. Tube at the most, four times as long as the 9th segment.
3. Prothorax much broader than long. 8th abdominal segment in
the male, simple. Body bristles comparatively long. Antennae
fairly short, the middle joints not very sharply clubbed.
Megalothrips Uzel
3. Prothorax not so markedly slanting. 8th abdominal segment in
the male with a pair of side processes. Body bristles compara-
tively short, the antennae longer, the middle joints clearly
clubbed
1. Horned processes of the 6th male abdominal segment not reaching to
the end of the 7th segment, straight or bent towards the inside.
2. Body broad and strong. Prothorax much broader than long. Head
twice as long as the prothorax. Horned process of the 6th male
abdominal segment bent sharply inward. 7th and 8th segments
simple
2. Body slender and linear. Prothorax not so sharply slanting. Head
three times as long as the prothorax. The processes of the 6th male
abdominal fairly straight and parallel. The 7th and 8th segments
with a pair of side processes
HYSTRICOTHRIPIDAE
1. Head only a little elongated in front of the eyes.
2. Head one and one-half times as long as broad, broadest across the
2. Head one and one-half times as long as broad, broadest across the compound eyes. Cheeks set with two strong bristle-bearing humps.
2. Head one and one-half times as long as broad, broadest across the compound eyes. Cheeks set with two strong bristle-bearing humps. Forewings set with 20-25 fringes
2. Head one and one-half times as long as broad, broadest across the compound eyes. Cheeks set with two strong bristle-bearing humps. Forewings set with 20-25 fringes
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 Head one and one-half times as long as broad, broadest across the compound eyes. Cheeks set with two strong bristle-bearing humps. Forewings set with 20-25 fringes. Head short and broad, tapering towards the front. Cheeks arched, set with numerous short bristles without warts. Forewings without fringes. Leeuwenia Karny
2. Head one and one-half times as long as broad, broadest across the compound eyes. Cheeks set with two strong bristle-bearing humps. Forewings set with 20-25 fringes
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