

A CHECK LIST OF NEW ZEALAND THYSANOPTERA

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The initial sentence of a very recent paper (Doull, 1956a) so mis-states what is known regarding our thysanopteran fauna, that it seems desirable to present a check list of the known and recorded species. Of the twenty-two species recorded in this list, five species (*Isoneurothrips obscuratus* Crawford; *Othinanaphrothrips spilleri* Crawford; *Neosmerinthothrips oleriae* Moulton; *Heptathrips tonnoiri* Moulton; and *Cleistothrips idolothropoides* Bagnall), and one sub-species (*Nesothrips propinquus breviceps* Bagnall), have been described from material collected in New Zealand and hence are possibly either indigenous or endemic. The remaining sixteen species are immigrants. Of these, eight were recorded in an earlier note (Spiller, 1951), one was recorded incidentally (Cottier, 1949), four have recently been recorded from cocksfoot (Doull, 1956a), and two are here recorded for the first time. The remaining species, *Haplothrips niger* Osborne, commonly known as the red clover thrips, has been present in the country for many years. (Muggeridge, 1933) but it is only recently (Yates, 1952) that the uncertainties of the specific identification have been resolved.

Species are arranged in systematic order following Priesner (1949). References to the recorded New Zealand occurrences of each species are given in square brackets, and these are followed by any additional information on host plants or distribution based upon named specimens in the insect collection of the Plant Diseases Division.

Order: THYSANOPTERA.

Suborder: TERREBRANTIA.

Aeolothripodea: Aeolothripidae

1. *Aeolothrips fasciatus* (Linné). [Doull, 1956a.]
 - (a) On tomato (*Lycopersicum esculentum* L.), Gisborne, January 27, 1938;
 - (b) on radish (*Raphanus sativus* L.), Auckland, January 10, 1940.

Thripodea: Thripidae

2. *Heliothrips haemorrhoidalis* Bouche. [Muggeridge, 1935; Spiller, 1951.]

- A common species now known from Kerikeri, Auckland and environs, Little Barrier Island, Tauranga and Palmerston North.
- Additional hosts are walnut (*Juglans regia* L.); grape (*Vitis vinifera* L.); Natal plum (*Carissa grandiflora* A. DC.); *Luculia* sp.; *Fuchsia* sp.; and *Mandevilla* sp. Occurs from September to June.
3. *Hercinothrips bicinctus* Bagnall. [Cottier, 1949.]
 - (a) On tomato (*L. esculentum*), Papatoetoe, February 6, 1945;
 - (b) on *Escalonia macrantha* Hook. and Arn., Auckland, February, 1946; January 12, 1948; January 11, 1954;
 - (c) on *Chrysanthemum* sp. cult., Auckland, February, 1946.
 4. *Parthenothrips dracaenae* (Heeger). [Spiller, 1951.]
 5. *Anaphothrips secticornis* Tyrbom. [Spiller, 1951.]
 - (a) On dahlia (*Dahlia* sp. cult.), Auckland, January 11, 1939;
 - (b) on pumpkin (*Cucurbita pepo* L.), Auckland, November 1, 1939;
 - (c) no host, Auckland, November 21, 1948;
 - (d) ditto, January 7, 1956.
 6. *Anaphothrips obscurus* Muller. [Doull, 1956a.]
 7. *Othinanaphothrips spilleri* Crawford. [Crawford, 1943, Spiller, 1951.]
 8. *Aptinothrips rufus* Gmelin. [Doull, 1956a.]
 9. *Chirothrips manicatus* Haliday. [Spiller, 1951; Doull, 1956a, b.]
On *Agrostis tenuis* Sibth., Palmerston North, February 15, 1951.
 10. *Limothrips cerealium* Haliday. [Doull, 1956a.]
On tobacco (*Nicotiana tabacum* L.), Thorpe, no date.
 11. *Taeniothrips simplex* Morison. [Spiller, 1951.]
 - (a) On foliage of gladioli (*Gladiolus* sp. cult.), Auckland, February 4, 1942; February 7, 1952; January 10, 1954;
 - (b) ditto, Gisborne, February 7, 1952.
 12. *Taeniothrips kellyanus* Bagnall. New record.
On fruit and foliage of grapefruit (*Citrus* sp. cult.) and lemon (*Citrus limon* (L.) Burm.f.); Helensville, Kumeu, Henderson, Auckland, and Gisborne; November to May; 21 collections.
 13. *Taeniothrips brevicornis* Bagnall. New record.
 - (a) On *Escalonia macrantha*, Auckland, February, 1946;
 - (b) on unknown host plant, Auckland, January 12, 1948;
 - (c) on tobacco (*N. tabacum*), Thorpe, no date.
 14. *Isoneurothrips australis* Bagnall. [Spiller, 1951.]

15. *Isoneurothrips obscuratus* Crawford. [Crawford, 1941; Spiller, 1951.]

A very common species now known from Kerikeri, Paihia, Auckland and environs, Little Barrier Island, Hastings, New Plymouth, Mt. Egmont, Motueka, Christchurch, Roxburgh and Ettrick. It has been taken from the flowers of apple (*Pyrus malus* L.), bush wattle (*Albizzia lopantha* Benth), canna lily (*Canna generalis* Bailey), chinese gooseberry (*Actinidia chinensis* Planch.), *Doryanthes* sp., *Fatsia* sp., *Freycinetia banksii* A. Cunn., grape (*V. vinifera*), grapefruit (*Citrus* sp. cult.), lemon (*C. limon*), marigold (*Tagetes erecta* L.), nikau palm (*Rhopalostylis sapida* Wendl. and Drude), *Phormium colensoi* Hook.f., rose (*Rosa* sp. cult.), youngberry (*Rubus* sp. hybrid); and from the leaves and fruit of boysenberry (*Rubus* sp. hybrid), cyclamen (*Cyclamen persicum* Mill.), feijoa (*Feijoa sellowiana* Berg.), hemlock (*Conium maculatum* L.), grapefruit (*Citrus* sp. cult.), lemon (*C. limon*), manuka (*Leptospermum scoparium* Forst.), *Nothopanax simplex* (Forst.f.) Seem., peach (*Prunus persica* L. and Zucc.), *Pomaderris* sp., potato (*Solanum tuberosum* L.), *Protea cynaroides* L., pururi (*Vitex lucens* T. Kirk), rhododendron (*Rhododendron* sp. cult.), tobacco (*N. tabacum*). Each month of the year, except July.

16. *Thrips tabaci* Lindeman. [Spiller, 1951; Doull, 1956a.]
- (a) In flower of marigold (*T. erecta*), Auckland, April 19, 1939;
 - (b) on strawberry (*Fragaria* sp. cult.), Auckland, December 19, 1947;
 - (c) on potato leaves (*S. tuberosum*), Palmerston North, April 3, 1930;
 - (d) in onion seed head (*Allium cepa* L.), Pukekohe, February 2, 1950;
 - (e) in chrysanthemum flowers (*Chrysanthemum* sp. cult), Christchurch, May 5, 1952;
 - (f) on tomato (*L. esculentum*), Gisborne, January 27, 1938;
 - (g) on tobacco (*N. tabacum*), Motueka, November, 1934.

Suborder: TUBULIFERA.

Phlaeothripidae

17. *Liothrips vaneeckei* Priesner. [Spiller, 1951.]
18. *Haplothrips niger* Osborne. [Muggeridge, 1933; Yates, 1952; Doull, 1956a.]

19. *Nesothrips propinquus breviceps* Bagnall. [Bagnall, 1924; Spiller, 1951.]
On fruit of Meyer lemon (*Citrus* sp.), Helensville, March 13, 1952.
20. *Neosmerinthothrips oleriae* Moulton. [Moulton, 1949.]
21. *Heptathrips tonnoiri* Moulton. [Moulton, 1942.]
22. *Cleistothrips idolothropoides* Bagnall. [Bagnall, 1932.]

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