
Check list

A preliminary check list of the free-living and plant-parasitic nematodes of the Kruger National Park

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A preliminary check list is given of terrestrial free-living and plant-parasitic nematodes of the Kruger National Park. Twenty families, comprising 33 genera and some 50 species are recorded.

Key words: terrestrial free-living and plant-parasitic nematodes, check list, Kruger National Park.

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Introduction

No extensive, systematic survey of terrestrial nematodes has yet been undertaken in the Kruger National Park. However, random sampling by nematologists of the Plant Protection Research Institute and the Rand Afrikaans University have yielded much information which was incorporated in papers by Van der Vegte & Heyns (1963), Heyns (1964), Heyns (1965), Heyns & Lagerwey (1965), Furstenberg & Heyns (1966), Heyns (1966), Coetzee (1966), Heyns (1967), Heyns & Hogewind (1969), Heyns (1969), Heyns & Argo (1969), Van den Berg & Heyns (1973), Heyns (1974), Van den Berg & Heyns (1975), Kleynhans (1975), Heyns (1976), Heyns (1977), Vermeulen & Heyns (1983), Kleynhans & Heyns (1984), Pretorius, Kruger & Heyns (1987), Botha & Heyns (1990a, 1990b).

This check list follows the classification system of Andr assy (1976).

Check list

- Order Rhabditida** Chitwood, 1933
Family Cephalobidae Filipjev, 1934
Genus *Eucephalobus* Steiner, 1936
 Eucephalobus latus (Cobb, 1906) Thorne, 1937
 Van der Vegte & Heyns, 1963:136
Genus *Acrobeles* Von Linstow, 1877
 Acrobeles crossotus Steiner, 1929
 Heyns, 1969: 59
 A. capensis Heyns, 1969
 Heyns, 1969: 61
 A. sheasbyi Heyns & Hogewind, 1969
 Heyns & Hogewind, 1969: 19
Genus *Chiloplacus* Thorne, 1937
 Chiloplacus lentus (Maupas, 1900)
 Thorne, 1937
 Van der Vegte & Heyns, 1963: 136
Genus *Zeldia* Thorne, 1937
 Zeldia serrata Heyns, 1962
 Van der Vegte & Heyns, 1963: 136
Family Diplogastridae Micoletzky, 1922
Genus *Diplogaster* Schultze, in Carus, 1857
 Diplogaster spp.
 Van der Vegte & Heyns, 1963: 136

- Order Tylenchida** Thorne, 1949
 Family Tylenchorhynchidae Eliava, 1964
 Genus *Tylenchorhynchus* Cobb, 1913
 Tylenchorhynchus brevilineatus Williams, 1960
 Kleynhans & Heyns, 1984: 144
 Family Belonolaimidae Whitehead, 1959
 Genus *Telotylenchus* Siddiqi, 1960
 Telotylenchus avaricus Kleynhans, 1975
 Kleynhans, 1975: 103
 Kleynhans & Heyns, 1984: 149
 Family Hoplolaimidae Filipjev, 1934
 Genus *Scutellonema* Andrásy, 1958
 Scutellonema africanum Smit, 1971
 Van den Berg & Heyns, 1973: 23
 S. brachyurum (Steiner, 1938) Andrásy, 1958
 Van der Vegte & Heyns, 1963: 136
 Van den Berg & Heyns, 1973: 24
 S. coheni (Goodey, 1952) Andrásy, 1958
 Van der Vegte & Heyns, 1963: 136
 S. truncatum Sher, 1963
 Van den Berg & Heyns, 1973: 34
 S. unum Sher, 1963
 Van den Berg & Heyns, 1973: 34
 Genus *Helicotylenchus* Steiner, 1945
 Helicotylenchus krugeri Van den Berg & Heyns, 1975
 Van den Berg & Heyns, 1975: 44
 H. multicinctus (Cobb, 1893) Golden, 1956
 Van der Vegte & Heyns, 1963: 136
 Family Pratylenchidae Thorne, 1949
 Genus *Pratylenchus* Filipjev, 1936
 Pratylenchus pratensis (De Man, 1880) Filipjev, 1936
 Van der Vegte & Heyns, 1963: 136
 P. vulnus Allen & Jensen, 1951
 Van der Vegte & Heyns, 1963: 136
 P. zaeae Graham, 1951
 Van der Vegte & Heyns, 1963: 136
- Order Dorylaimida** Pearse, 1942
 Family Mononchidae Filipjev, 1934
 Genus *Iotonchus* (Cobb, 1916) Pennak, 1953
 Iotonchus spp.
 Van der Vegte & Heyns, 1963: 136
 Genus *Granonchulus* Andrásy, 1958
 Granonchulus subdecurrrens Coetzee, 1966
 Coetzee, 1966: 304
 Family Mylonchulidae Jairajpuri, 1969
 Genus *Mylonchulus* (Cobb, 1916) Altherr, 1953
 Mylonchulus spp.
 Van der Vegte & Heyns, 1963: 136
 Family Nygolaimidae Thorne, 1935
 Genus *Nygolaimus* Cobb, 1913
 Nygolaimus vulgaris Heyns & Lagerwey, 1965
 Heyns & Lagerwey, 1965: 129
 N. elainnae Botha & Heyns, 1990
 Botha & Heyns, 1990a: 47
 Family Dorylaimidae De Man, 1876
 Genus *Mesodorylaimus* Andrásy, 1959
 Mesodorylaimus arvensis (Cobb, in Thorne & Swanger, 1936). Andrásy 1959
 Van der Vegte & Heyns, 1963: 136
 Family Qudsianematidae Jairajpuri, 1965
 Genus *Eudorylaimus* Andrásy, 1959
 Eudorylaimus diadematus (Cobb, in Thorne & Swanger, 1936). Andrásy, 1959
 Heyns & Lagerwey, 1965: 129
 Botha & Heyns, 1990a : 50
 E. nothus (Thorne & Swanger, 1936) Andrásy, 1959
 Heyns & Lagerwey, 1965: 129
 E. rapsoides Heyns & Lagerwey, 1965
 Heyns & Lagerwey, 1965: 130
 E. rapsus Heyns, 1963
 Heyns & Lagerwey, 1965: 129
 Genus *Labronema* Thorne, 1939
 Labronema mauritiense Williams, 1959
 Botha & Heyns, 1990a:51
 Genus *Discolaimus* Cobb, 1913
 Discolaimus intermedius Heyns & Lagerwey, 1965
 Heyns & Lagerwey, 1965: 131
 D. krugeri Furstenberg & Heyns, 1966
 Furstenberg & Heyns, 1966: 470
 D. major Thorne, 1939
 Van der Vegte & Heyns, 1963: 136
 Botha & Heyns, 1990a: 54
 D. monoplanus Heyns, 1963
 Botha & Heyns, 1990a: 56
 Genus *Discolaimium* Thorne, 1939
 Discolaimium sublatum Heyns, 1963
 Heyns & Lagerwey, 1965: 132
 Botha & Heyns, 1990a: 53
 Family Aporcelaimidae Heyns, 1965
 Genus *Aporcelaimus* Thorne & Swanger, 1936
 Aporcelaimus pseudospiralis Botha & Heyns, 1990
 Botha & Heyns, 1990b: 37
 Genus *Aporcelaimellus* Heyns, 1965
 Aporcelaimellus amylovorus (Thorne & Swanger, 1936) Heyns, 1965 - recorded as *Eudorylaimus amylovorus* (Thorne & Swanger, 1936) Andrásy, 1959
 Van der Vegte & Heyns, 1963: 136
 A. adriaani Botha & Heyns, 1990
 Botha & Heyns, 1990b:27

- A. micropunctatus* Botha & Heyns, 1990
Botha & Heyns, 1990b: 32
- A. parapapillatus* Botha & Heyns, 1990
Botha & Heyns, 1990b: 35
- Genus *Makatinus* Heyns, 1965
Makatinus macropunctatus Heyns, 1967
Heyns, 1967: 101
Botha & Heyns, 1990b: 39
- Genus *Tubixaba* Monteiro & Lordello, 1980
Tubixaba minima Botha & Heyns, 1990
Botha & Heyns, 1990b: 41
- T. parva* Pretorius, Kruger & Heyns, 1987
Pretorius, Kruger & Heyns, 1987: 433
Botha & Heyns, 1990b: 46
- Family Nordiidae Jairajpuri & Siddiqi, 1964
- Genus *Longidorella* Thorne, 1939
Longidorella sp.
Heyns & Lagerwey, 1965: 133
- Family Longidoridae Thorne, 1935
- Genus *Xiphinema* Cobb, 1913
Xiphinema americanum Cobb, 1913
Van der Vegte & Heyns, 1963: 136
- X. brevicolle* Lordello & da Costa, 1961
Botha & Heyns, 1990a: 57
- X. dimorphicaudatum* Heyns, 1966
Heyns, 1976: 78
- X. elongatum* Schuurmans Stekhoven & Teunissen, 1938
Heyns, 1974: 249
Botha & Heyns, 1990a: 57
- X. swarti* Stocker & Kruger, 1987,
Stocker & Kruger, 1987: 409
recorded as *X. hallei* Luc, 1958
Heyns, 1976: 73
- X. italiae* Meyl, 1953
Heyns, 1974: 253
- X. variabile* Heyns, 1966
Heyns, 1966: 373
Heyns, 1977: 114
Botha & Heyns, 1990a: 58
- Genus *Longidorus* (Micoletzky, 1922) Thorne & Swager, 1936
Longidorus pisi Edward, Misra & Singh, 1964
recorded as *X. brevicaudatum* Schuurmans Stekhoven, 1951
Van der Vegte & Heyns, 1963: 136
- Family Dorylaimoididae Siddiqi, 1969
- Genus *Lordellonema* Andrassy, 1960
Lordellonema porosum (Heyns, 1963) Heyns, 1963
Heyns & Lagerwey, 1965: 131
- Family Dorylaimellidae Jairajpuri, 1964
- Genus *Dorylaimellus* Cobb, 1913
Dorylaimellus directus Heyns, 1963
Heyns & Lagerwey, 1965: 133
- Family Tylencholaimidae Filipjev, 1934
- Genus *Vanderlindia* Heyns, 1964
Vanderlindia duplopapillata Heyns, 1964
Heyns, 1964: 301
- Genus *Tylencholaimus* De Man, 1876
Tylencholaimus sp.
Heyns & Lagerwey, 1965: 133
- Family Carcharolaimidae Thorne, 1967
- Genus *Carcharolaimus* Thorne, 1939
Carcharolaimus crassicosatus Heyns & Argo, 1969
Heyns & Argo, 1969: 221
- Family Trichodoridae Thorne, 1935
- Genus *Paratrichodoros* Siddiqi, 1973
Paratrichodoros sp.
Vermeulen & Heyns, 1983: 22
- Order Enoplida** Chitwood, 1933
- Family Ironidae De Man, 1876
- Genus *Ironus* Bastian, 1865
Ironus sp.
Van der Vegte & Heyns, 1963: 136.

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