

An annotated list of Urediniomycetes (rust fungi) from South Africa 1: Melampsoraceae and Pucciniaceae, excluding *Puccinia* and *Uromyces*

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ABSTRACT

Up-to-date information is given on the identity, occurrence, nomenclature, host ranges, geographical distribution and literature references of the Urediniomycetes in South Africa. Species of the family Melampsoraceae and all species of the family Pucciniaceae other than those in the genera *Puccinia* Pers. and *Uromyces* (Link) Unger are listed. New species records since 1945 include the following: *Melampsora allii-populina* Kleb., *Melampsora coleosporioides* Dietel, *Melampsora larici-populina* Kleb., *Melampsora medusae* Thüm., *Frommea obtusa-duchesneae* (Arthur) Arthur, *Hemileia gardeniae-thunbergiae* Maubl. & Roger, *Phakopsora gossypii* (Arthur) Hirats. f., *Uromycladium tepperianum* (Sacc.) McAlpine and *Tranzschelia discolor* (Fuckel) Tranzschel & M.A. Litv. Although many species of rusts have already been recorded, these are thought to represent only a small percentage of the rust population in southern Africa. Furthermore, only a small portion of rust specimens at present housed at PREM have so far been studied. Continued research on this economically important group of fungi is therefore essential.

UITTREKSEL

Die jongste inligting oor die identiteit, voorkoms, nomenklatuur, gasheerreeks, geografiese verspreiding en literatuurverwysings van die Urediniomycetes in Suid-Afrika word gegee. Spesies van die familie Melampsoraceae asook alle spesies van die familie Pucciniaceae behalwe dié van die genusse *Puccinia* Pers. en *Uromyces* (Link) Unger word gelys. Nuwe spesierekords sedert 1945 sluit die volgende in: *Melampsora allii-populina* Kleb., *Melampsora coleosporioides* Dietel, *Melampsora larici-populina* Kleb., *Melampsora medusae* Thüm., *Frommea obtusa-duchesneae* (Arthur) Arthur, *Hemileia gardeniae-thunbergiae* Maubl. & Roger, *Phakopsora gossypii* (Arthur) Hirats. f., *Uromycladium tepperianum* (Sacc.) McAlpine en *Tranzschelia discolor* (Fuckel) Tranzschel & M.A. Litv. Alhoewel talle spesies reeds aangeteken is, verteenwoordig hulle vermoedelik slegs 'n klein persentasie van die roespopulasie van suidelike Afrika; boonop is slegs 'n klein gedeelte van die roes-eksemplare wat in PREM gehuisves word, reeds bestudeer. Daarom bly navorsing op hierdie ekonomies belangrike groep swamme steeds noodsaaklik.

INTRODUCTION

The rust fungi (Urediniomycetes), being obligate plant parasites, constitute one of the most economically important groups of fungi. The rusts in South Africa have been neglected for some time and our knowledge of the occurrence of rust fungi in this country is based largely on the publication by Doidge (1950). A few subsequent lists of plant diseases in South Africa (Doidge *et al.* 1953; Gorter 1977, 1979, 1981, 1982) have provided additional information on certain species.

As the records in the National Collection of Fungi represent mainly early collections up to 1945, catalogued by Doidge (1950), a significant number of new records of genera and species are to be expected. Furthermore, many of the recorded rusts and their hosts have undergone a change of name, and several new host records have been reported. The need for an up-to-date list is therefore evident.

This publication is the first in a series of lists on the rust fungi recorded for South Africa. It deals with the family Melampsoraceae and all genera of the family Puc-

ciniaceae other than *Puccinia* Pers. and *Uromyces* (Link) Unger. These will be dealt with in separate papers, as will the form-genera *Aecidium* Pers. and *Uredo* Pers. The aim of the present publication is to combine all previous information in one list. Doidge (1950) included 17 species under the family Melampsoraceae, 264 species under the Pucciniaceae and 143 species under the Imperfect rusts. In this paper nine new species records are added, seven species previously recorded from South Africa are excluded as they were based on specimens from outside the region covered by the present list, five species are placed in synonymy and one previously incorrectly identified species is correctly named.

The list covers two families: Melampsoraceae and Pucciniaceae. Species are listed alphabetically. Each name (in bold type) is given with the relevant literature references, synonyms (in italics, preceded by =), correct host names (in italics) and reference to specimens in the National Collection of Fungi (PREM) together with their localities. Information on the geographical distribution of all species in South Africa is summarised in Table 1. The geographical area referred to as South Africa in this publication includes the Republic of South Africa with the former Republics of Bophuthatswana, Ciskei, Transkei and Venda. An alphabetical list with hosts is included in Table 2. An alphabetical list of hosts (Table 3) is also added; the scientific names are the names listed by the National

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TABLE 1.—Summary of rust distribution in South Africa (1993)

Name	General remarks	Province			
		Cape	Natal	OFS	Tvl
<i>Cerotelium fici</i>	fairly common	x	x	x	
<i>Coleosporium clematidis</i>	fairly common	x	x	x	
<i>hedytoidis</i>	common, widespread	x	x	x	x
<i>ipomoeae</i>	few records		x		
<i>Cronartium gilgianum</i>	common	x	x	x	
<i>zizyphi</i>	few records in Lowveld				x
<i>Diorchidium tricholaenae</i>	fairly common		x		x
<i>woodii</i>	fairly common in Natal		x		
<i>Endophyllum macowanii</i>	fairly common	x	x		x
<i>Frommea obtusa-duchesneae</i>	few records		x		x
<i>Hamaspora longissima</i>	common, widespread	x	x	x	
<i>Hemileia canthii</i>	few records, occasional		x		x
<i>evansii</i>	not common		x		
<i>fadogiae</i>	fairly common in Tvl		x		x
<i>gardeniae-thunbergiae</i>	not common				x
<i>scholzii</i>	not common		x		
<i>vastatrix</i>	common		x		x
<i>woodii</i>	common		x		x
<i>Kuehneola uredinis</i>	common on wild <i>Rubus</i> spp.	x		x	x
<i>Masseëlla fluggeae</i>	few records				x
<i>Melampsora allii-populina</i>	not common				x
<i>coleosporioides</i>	not common		x		
<i>helioscopiae</i>	fairly widespread	x	x	x	x
<i>hypericum</i> var. <i>australis</i>	fairly common		x		x
<i>larici-populina</i>	common		x	x	x
<i>lini</i>	not common		x		
<i>medusae</i>	common		x		x
<i>populnea</i>	fairly common	x	x	x	x
<i>ricini</i>	common, widespread	x	x		x
<i>vitellinae</i>	occasional	x	x		x
<i>Milesina dieteliana</i>	not common		x		
<i>nervisequa</i>	few records		x	x	x
<i>Phakopsora gossypii</i>	not common		x		
<i>Phragmidium mucronatum</i>	widespread on <i>Rosa</i> spp.	x	x	x	x
<i>Pucciniastrum agrimoniae</i>	fairly common		x	x	x
<i>Puccinosira dissotidis</i>	occasional in Natal		x		
<i>Ravenelia atrides</i>	occasional		x		x
<i>baumiana</i>	few records		x		x
<i>dichrostachydis</i>	not common		x		
<i>elephantorrhizae</i>	central districts				x
<i>escharoides</i>	fairly common				x
<i>evansii</i>	fairly common		x		x
<i>glabra</i>	fairly common, E Cape	x			
<i>halsei</i>	few records		x		
<i>inornata</i>	E Cape	x			
<i>macowaniana</i>	very common, widespread	x	x	x	x
<i>minima</i>	fairly common (coastal)		x		
<i>modesta</i>	few records, occasional				x
<i>natalensis</i>	few records		x		
<i>peglerae</i>	occasional		x		x
<i>pienaarrii</i>	common in Tvl		x		
<i>pretoriensis</i>	not common				x
<i>stictica</i>	common in Pretoria dist.				x
<i>tephrosiae</i>	not common, coastal		x		
<i>transvaalensis</i>	not common				x
<i>Schroeteriastrum doidgeae</i>	not common				x
<i>stratosus</i>	few records, coastal		x		x
<i>Skierka robusta</i>	fairly common in Natal		x		
<i>Sphaerophragmium artabotrydis</i>	not common		x		
<i>dalbergiae</i>	fairly common		x		x
<i>Tranzschelia discolor</i>	very common (late summer)	x	x	x	x
<i>Uredinopsis pteridis</i>	few records, not common		x		
<i>Uromycladium tepperianum</i>	few records		x		
<i>Uropyxis gerstneri</i>	not common		x		

TABLE 2.—Alphabetical list of rusts with hosts

Name	Hosts
<i>Cerotelium fici</i>	<i>Ficus carica</i> , <i>F. cordata</i> subsp. <i>salicifolia</i>
<i>Coleosporium clematidis</i>	<i>Clematis brachiata</i> , <i>C. oweniae</i>
<i>hedytoidis</i>	<i>Kohautia amatymbica</i> , <i>Oldenlandia</i> sp.
<i>ipomoeae</i>	<i>Hewittea sublobata</i>
<i>Cronartium gilgianum</i>	<i>E. lanceolata</i> , <i>E. natalensis</i> subsp. <i>natalensis</i> , <i>E. schimperi</i> subsp. <i>schimperi</i>
<i>zizyphi</i>	<i>Ziziphus mucronata</i> subsp. <i>mucronata</i> , <i>Ziziphus</i> spp.
<i>Diorchidium tricholaenae</i>	<i>Melinis repens</i> subsp. <i>repens</i>
<i>woodii</i>	<i>Milletia grandis</i>
<i>Endophyllum macowanii</i>	<i>Rhamnus prinoides</i>
<i>Frommea obtusa-duchesneae</i>	<i>Duchesnea indica</i>
<i>Hamaspora longissima</i>	<i>Rubus ludwigii</i> subsp. <i>ludwigii</i> , <i>R. pinnatus</i> , <i>R. rigidus</i> , <i>R. transvaaliensis</i> , <i>Rubus</i> spp.
<i>Hemileia ancyranthi</i>	<i>Ancylanthos fulgides</i>
<i>canthii</i>	<i>Canthium ciliatum</i> , <i>C. mundianum</i> , <i>C. orbiculare</i> , <i>Canthium</i> spp., <i>Psydrax livida</i>
<i>evansii</i>	<i>Tricalysia capensis</i> var. <i>capensis</i> , <i>T. sonderiana</i>
<i>fadogiae</i>	<i>Fadogia cienkowski</i> , <i>F. tetraquetra</i> var. <i>tetraquetra</i> , <i>Fadogia</i> sp., <i>Pygmaeothamnus pygmaeum</i> , <i>P. zeyheri</i> var. <i>zeyheri</i>
<i>gardeniae-thunbergiae</i>	<i>Gardenia volkensii</i> subsp. <i>volkensii</i> var. <i>volkensii</i> , <i>G. thunbergia</i>
<i>scholzii</i>	<i>Clerodendrum glabrum</i> var. <i>glabrum</i> , <i>Clerodendrum</i> sp.
<i>vastatrix</i>	<i>Coffea arabica</i>
<i>woodii</i>	<i>Pachystigma latifolium</i> , <i>P. pygmaeum</i> , <i>Vangueria infausta</i> subsp. <i>infausta</i> , <i>Vangueriopsis lanciflora</i>
<i>Kuehneola uredinis</i>	<i>Rubus apetalus</i> , <i>R. rigidus</i> , <i>R. transvaaliensis</i> , <i>R. ursinus</i> , <i>Rubus</i> spp.
<i>Masseëlla fluggeae</i>	<i>Securinega virosa</i>
<i>Melampsora allii-populina</i>	<i>Populus deltoides</i>
<i>coleosporioides</i>	<i>Salix babylonica</i>
<i>helioscopiae</i>	<i>Euphorbia helioscopia</i> , <i>E. heterophylla</i> , <i>E. kraussiana</i> var. <i>kraussiana</i> , <i>E. striata</i> var. <i>striata</i> , <i>Euphorbia</i> spp.
<i>hypericum</i> var. <i>australis</i>	<i>Hypericum aethiopicum</i> subsp. <i>aethiopicum</i> , <i>H. aethiopicum</i> subsp. <i>sonderi</i> , <i>H. lalandii</i>
<i>junodii</i>	<i>Vernonia colorata</i> subsp. <i>colorata</i>
<i>larici-populina</i>	<i>Populus deltoides</i> , <i>P. nigra</i> var. <i>italica</i> , <i>P. wislizenii</i> , <i>Populus</i> spp.
<i>lini</i>	<i>Linum africanum</i> , <i>L. usitatissimum</i>
<i>medusae</i>	<i>Populus deltoides</i> , <i>Populus</i> spp.
<i>populnea</i>	<i>Populus alba</i> , <i>Populus</i> spp.
<i>puccinioides</i>	<i>Helichrysum</i> sp.
<i>ricini</i>	<i>Ricinus communis</i>
<i>vitellinae</i>	<i>Salix mucronata</i> subsp. <i>capensis</i> , <i>Salix</i> spp.
<i>Milesina dieteliana</i>	<i>Polypodium lycopodioides</i>
<i>nervisequa</i>	<i>Cheilanthes viridis</i> var. <i>viridis</i> , <i>Rumohra adiantiforme</i>
<i>Phakopsora gossypii</i>	<i>Gossypium</i> sp.
<i>Phragmidium mucronatum</i>	<i>Rosa</i> spp.
<i>Pucciniastrum agrimoniae</i>	<i>Agrimonia bracteata</i> , <i>A. procera</i>
<i>Puccinosira dissotidis</i>	<i>Dissotis incana</i> , <i>D. longicaudata</i> , <i>D. princeps</i> var. <i>princeps</i>
<i>Ravenelia atrides</i>	<i>Grewia bicolor</i> , <i>G. caffra</i> , <i>G. monticola</i> , <i>G. occidentalis</i> , <i>Grewia</i> spp.
<i>baumiana</i>	<i>Senna petersiana</i> , <i>S. sinqueana</i>
<i>bottomleyae</i>	<i>Albizia versicolor</i>
<i>deformans</i>	<i>Acacia</i> spp.

TABLE 2.—Alphabetical list of rusts with hosts (continued)

Name	Hosts
<i>Ravenalia</i> cont.	
<i>dichrostachydis</i>	
<i>elephantorrhizae</i>	<i>Dichrostachys cinerea</i> subsp. <i>nyassana</i>
<i>escharoides</i>	<i>Elephantorrhiza elephantina</i> <i>Acacia burkei</i> , <i>A. nigrescens</i> , <i>Faidherbia albida</i>
<i>evansii</i>	<i>Acacia gerrardii</i> , <i>A. rehmanniana</i> , <i>A. robusta</i> subsp. <i>robusta</i> , <i>A. sieberiana</i> var. <i>woodii</i> , <i>Acacia</i> spp.
<i>glabra</i>	<i>Calpurnia aurea</i> subsp. <i>sylvatica</i>
<i>halsei</i>	<i>Acacia ataxacantha</i>
<i>indigoferae</i>	<i>Indigofera</i> sp.
<i>inornata</i>	<i>Acacia karroo</i>
<i>le-testui</i>	<i>Cassia</i> sp.
<i>macowaniana</i>	<i>Acacia karroo</i>
<i>minima</i>	<i>Albizia gummifera</i>
<i>modesta</i>	<i>Acacia hebeclada</i> subsp. <i>hebeclada</i> , <i>A. luederitzii</i> var. <i>retinens</i>
<i>natalensis</i>	<i>Acacia karroo</i>
<i>peglerae</i>	<i>Acacia caffra</i>
<i>pienuarii</i>	<i>Acacia caffra</i>
<i>pretoriensis</i>	<i>Acacia</i> spp.
<i>stictica</i>	<i>Mundulea sericea</i>
<i>tephrosiae</i>	<i>Tephrosia heckmanniana</i> , <i>T. macropoda</i> var. <i>macropoda</i>
<i>transvaalensis</i>	<i>Acacia mellifera</i> subsp. <i>detinens</i>
<i>woodii</i>	Fabaceae undet.
<i>Schroeteriaster</i>	
<i>doidgeae</i>	<i>Croton gratissimus</i> var. <i>gratissimus</i>
<i>stratosus</i>	<i>Croton sylvaticus</i>
<i>Skierka robusta</i>	<i>Rhoicissus rhomboidea</i>
<i>Sphaerophragmium</i>	
<i>artabotrydis</i>	<i>Artabotrys monteiroae</i>
<i>dalbergiae</i>	<i>Dalbergia armata</i> , <i>Dalbergia</i> sp.
<i>Tranzschelia discolor</i>	<i>Prunus armeniaca</i> , <i>P. persica</i> , <i>P. salicina</i>
<i>Uredinopsis pteridis</i>	<i>Pteridium aquilinum</i>
<i>Uromycladium tepperianum</i>	<i>Acacia mearnsii</i> , <i>A. saligna</i>
<i>Uropyxis</i>	
<i>gerstneri</i>	Annonaceae undet.
<i>steudneri</i> var. <i>rhodesica</i>	<i>Ormocarpum trichocarpum</i>

TABLE 3.—Alphabetical list of hosts

<i>Acacia</i>
<i>ataxacantha</i> DC.
<i>burkei</i> Benth.
<i>caffra</i> (Thunb.) Willd.
<i>gerrardii</i> Benth. var. <i>gerrardii</i>
<i>hebeclada</i> DC. subsp. <i>hebeclada</i>
<i>karroo</i> Hayne
<i>luederitzii</i> Engl. var. <i>retinens</i> (Sim) J.H. Ross & Brenan
<i>mearnsii</i> De Wild.
<i>mellifera</i> (Vahl) Benth. subsp. <i>detinens</i> (Burch.) Brenan
<i>nigrescens</i> Oliv.
<i>rehmanniana</i> Schinz
<i>robusta</i> Burch. subsp. <i>robusta</i>
<i>saligna</i> (Labill.) Wendl.
<i>sieberiana</i> DC. var. <i>woodii</i> (Burt Davy) Keay & Brenan spp.
<i>Agrimonia</i>
<i>bracteata</i> E. Mey. ex C.A. Mey.
<i>procera</i> Wallr.
<i>Albizia</i>
<i>gummifera</i> (J.F. Gmel.) C.A. Sm.
<i>versicolor</i> Welw. ex Oliv.
<i>Ancylanthos fulgides</i> Welw.
Annonaceae undet.
<i>Artabotrys monteiroae</i> Oliv.
<i>Calpurnia aurea</i> (Aiton) Benth. subsp. <i>sylvatica</i> (Burch.) Brummitt
<i>Canthium</i>
<i>ciliatum</i> (Klotzsch) Kuntze
<i>mundianum</i> Cham. & Schltdl.
<i>orbiculare</i> Good spp.
<i>Cassia</i> sp.
<i>Cheilanthes viridis</i> (Forssk.) Sw. var. <i>viridis</i>
<i>Clematis</i>
<i>brachiata</i> Thunb.

<i>oweniae</i> Harv.
<i>Clerodendrum</i>
<i>glabrum</i> E. Mey. var. <i>glabrum</i> sp.
<i>Coffea arabica</i> L.
<i>Croton</i>
<i>gratissimus</i> Burch. var. <i>gratissimus</i>
<i>sylvaticus</i> Hochst.
<i>Dalbergia</i>
<i>armata</i> E. Mey. sp.
<i>Dichrostachys cinerea</i> (L.) Wight & Arn. subsp. <i>nyassana</i> (Taub.) Brenan
<i>Dissotis</i>
<i>incana</i> (Naudin) Triana
<i>longicaudata</i> Cogn.
<i>princeps</i> (Kunth) Triana var. <i>princeps</i>
<i>Duchesnea indica</i> (Andrews) Focke
<i>Elephantorrhiza elephantina</i> (Burch.) Skeels
<i>Euclea</i>
<i>lanceolata</i> E. Mey.
<i>natalensis</i> A. DC. subsp. <i>natalensis</i>
<i>schimperii</i> (A. DC.) Dandy subsp. <i>schimperii</i>
<i>Euphorbia</i>
<i>helioscopia</i> L.
<i>heterophylla</i> L.
<i>kraussiana</i> Bernh. var. <i>kraussiana</i>
<i>striata</i> Thunb. var. <i>striata</i> spp.
Fabaceae undet.
<i>Fadogia</i>
<i>cienkowski</i> Schweinf.
<i>tetraquetra</i> Krause var. <i>tetraquetra</i> sp.
<i>Faidherbia albida</i> (Delile) A. Chev.
<i>Ficus</i>
<i>carica</i> L.
<i>cordata</i> Thunb. subsp. <i>salicifolia</i> (Vahl) C.C. Berg.
<i>Gardenia</i>
<i>volkensii</i> K. Schum. subsp. <i>volkensii</i> var. <i>volkensii</i>
<i>thunbergia</i> Thunb.
<i>Gossypium</i> sp.
<i>Grewia</i>
<i>bicolor</i> Juss.
<i>caffra</i> Meisn.
<i>monticola</i> Sond.
<i>occidentalis</i> L. spp.
<i>Helichrysum</i> sp.
<i>Hewittea sublobata</i> (L. f.) Kuntze
<i>Hypericum</i>
<i>aethiopicum</i> Thunb. subsp. <i>aethiopicum</i>
<i>aethiopicum</i> Thunb. subsp. <i>sonderi</i> (Bredell) N. Robson
<i>lalandii</i> Choisy
<i>Indigofera</i> sp.
<i>Kohautia amatymbica</i> Eckl. & Zeyh.
<i>Linum</i>
<i>africanum</i> L.
<i>usitatissimum</i> L.
<i>Melinis repens</i> (Willd.) Zizka subsp. <i>repens</i>
<i>Milletia grandis</i> (E. Mey) Skeels
<i>Mundulea sericea</i> (Willd.) A. Chev.
<i>Oldenlandia</i> sp.
<i>Ormocarpum trichocarpum</i> (Taub.) Engl.
<i>Pachystigma</i>
<i>latifolium</i> Sond.
<i>pygmaeum</i> (Schltr.) Robyns
<i>Polypodium lycopodioides</i> L.
<i>Populus</i>
<i>alba</i> L.
<i>deltoides</i> Marshall
<i>nigra</i> L. var. <i>italica</i>
<i>wislizenii</i> Sarg. spp.
<i>Prunus</i>
<i>armeniaca</i> L.
<i>persica</i> (L.) Batsch
<i>salicina</i> Lindl.
<i>Psudrax livida</i> (Hiern) Bridson
<i>Pteridium aquilinum</i> (L.) Kuhn
<i>Pygmaeothamnus</i>
<i>pygmaeum</i> (Schltr.) Robyns
<i>zeyheri</i> (Sond.) Robyns var. <i>zeyheri</i>
<i>Rhamnus prinoides</i> L'Hér.

TABLE 3.—Alphabetical list of hosts (continued)

Rhoicissus rhomboidea (E. Mey. & Harv.) Planch.
Ricinus communis L.
Rosa spp.
Rubus
apetalus Poir.
ludwigii Eckl. & Zeyh. subsp. *ludwigii*
pinnatus Willd.
rigidus Sm.
transvaaliensis Gust
ursinus Cham. & Schltdl.
Rumohra adiantiforme (G. Forst.) Ching
Salix
babylonica L.
mucronata Thunb. subsp. *capensis* (Thunb.) Immelman
 spp.
Securinega virosa (Roxb. ex Willd.) Pax & K. Hoffm.
Senna
petersiana (Bolle) Lock
sinqueana (Delile) Lock
Tephrosia
heckmanniana Harms
macropoda (E. Mey.) Harv. var. *macropoda*
Tricalysia
capensis (Meisn. ex Hochst.) Sim var. *capensis*
sonderiana Hiern
Vangueria infausta Burch. subsp. *infausta*
Vangueriopsis lanciflora (Hiern) Robyns ex Good
Vernonia colorata (Willd.) Drake subsp. *colorata*
Ziziphus
mucronata Willd. subsp. *mucronata*
 spp.

Botanical Institute (Gibbs Russell *et al.* 1985, 1987, 1988; De Wet *et al.* 1990; Arnold & De Wet 1993).

All publications are listed in which references to rusts collected in South Africa have been traced. However, references to the original descriptions of species first described from other countries have been omitted. No attempt has been made to give a complete bibliography of literature on the South African rusts.

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CHECKLIST OF RUST FUNGI RECORDED IN SOUTH AFRICA

Host species are listed in italics.

Names of authors of plant names follow Brummitt & Powell (1992). All collection numbers given (followed by locality) are PREM numbers (PREM: National Collection of Fungi), unless preceded by one of the following codes:

S.A.M.: fungus specimens from the South African Museum Herbarium, now incorporated in PREM;

Stell.: specimens from the Mycological Herbarium of the former Stellenbosch-Elsenburg College of Agriculture, now incorporated in PREM;

Van der Byl: specimens from the P.A. van der Bijl Herbarium, now housed at PREM.

Numbers given in square brackets are duplicate numbers for the preceding specimen.

Other codes used:

- * specimens cited in Doidge (1950) which could not be located;
- ** specimens previously recorded for South Africa which fall outside the geographical area of this publication;
- new species record;
- + type specimen;
- = synonym.

MELAMPSORACEAE

GENUS COLEOSPORIUM

- clematidis** Barclay, P. Syd. & Syd. (1915); Doidge (1927, 1950); Dietel (1928); Doidge et al. (1953); G.J.M. Gorter (1981)
= *Caeoma clematidis* Thüm.
= *Uredo clematidis* Berk.
Clematis brachiata Thunb.: 1861 Barberton; 2359 Kentani; 4383, 10160, 20788, 20795 Somerset East; 10580 Natal
Clematis oweniae Harv.: 801, 10581, 11223, 31906* Inanda
- hedyotidis** Kalehbr. & Cooke (1880); Sacc. (1888); P. Syd. & Syd. (1915); Doidge (1927, 1950); G.J.M. Gorter (1981)
Kohautia amatymbica Eckl. & Zeyh.: 36, 1256, 1419, 1456, 2194, 6600, 8908, 9692, 23369, 30944 Pretoria; 8910 Bethlehem; 10067 Mooi River; 10156+ Inanda; 14171 without locality; 40997 East Griqualand
Oldenlandia sp.: 32706 Natal
- ipomoeae** (Schwein.) Burrill, Doidge (1927, 1950); G.J.M. Gorter (1981)
Hewittea sublobata (L. f.) Kuntze: 1598, 2501, 9100 Winkle Spruit, 6633* Isipingo; 9479 Inanda; 12334 Durban

GENUS CRONARTIUM

- gilgianum** Henn., Sacc. & P. Syd. (1890); P. Syd. & Syd. (1915); Syd. & P. Syd. (1918); Doidge (1927, 1950); Nel (1942)
= *Cronartium bresadolleanum* Henn.
= *Crossospora gilgiana* (Henn.) Syd.
= *Cronartium bresadolleanum* Henn. var. *eucleae*

- Euclea lanceolata* E. Mey.: 1737, 1738, 1739 Soutpansberg
Euclea natalensis A.DC. subsp. *natalensis*: 1606, 1617, 2415, 9496, 32442 Durban; 2509 Winkle Spruit; 6646 Isipingo; 9089, 9115 Kentani; 10630 Natal; 12420 East London; 26006, 32399, 33601 Nelspruit; 22417 Alexandria; 32273 Kruger National Park; 32410 Sabie; 33487, 35159, 43119 Grahamstown; 33527 Mtunzini; 33597 Entabeni; 41032 Umntweni
Euclea schimperi (A. DC.) Dandy subsp. *schimperi*: 12170** [Van der Byl 1803]; 729 Nelspruit; 1151, 1852, 5620, 18097 Barberton; 1399 Winkle Spruit; 30959, 30960 Kruger National Park
- zizyphi** Syd. & E.J. Butler, Doidge (1927, 1950)
Ziziphus mucronata Willd. subsp. *mucronata*: 32724 between Acornhoek and Tzaneen; 41983 Lydenburg
Ziziphus spp.: 50573 Ellisras; 50576 Nelspruit; 50696 Kruger National Park

GENUS MELAMPSORA

- accidioides (see **M. populnea**)
- allii-populina*** Kleb.
Populus deltoides Bart. ex Marshall: 43192 Pretoria
- coleosporioides*** Dietel
Salix babylonica L.: 50566 Grabouw; 50568, 50569 Stellenbosch
- helioscopiae** G. Winter, Doidge (1927, 1950); G.J.M. Gorter (1981)
Euphorbia helioscopia L.: 41453 Pretoria
Euphorbia heterophylla L.: 29876, 30979, 32278 Pretoria; 32206 Durban; 33603 Natal; 40167 Tzaneen
Euphorbia kraussiana Bernh. var. *kraussiana*: 9087 Claridge

- Euphorbia striata* Thunb. var. *striata*: 17035 Mooi River; 29720 Pretoria
- Euphorbia* spp.: 1065 Bethlehem; 1851 Barberton
- Euphorbia heterophylla* L.: 420711, 44620 Pretoria
- hypericorum** G. Winter var. *australis* Doidge (1927, 1950); G.J.M. Gorter (1981)
- = *Melampsora hyperici* J. Schröt.
- Hypericum aethiopicum* Thunb. subsp. *aethiopicum*: 30079* Hogsback
- Hypericum aethiopicum* Thunb. subsp. *sonderi* (Bredell) N. Robson: 1074 Lydenburg; 1302, 1946, 1988, 9314, 9480*, 9691, 32090* Pretoria; 10361 Inanda; 12241 Mooi River
- Hypericum lalandii* Choisy: 10362 Natal
- junodii**** Doidge (1927, 1950)
- Vernonia colorata* (Willd.) Drake subsp. *colorata*: 11723+
- larici-populina**• Kleb., G.J.M. Gorter (1979, 1982)
- = *Melampsora populina* (Jacq.) Lév.
- Populus deltoides* Marshall: 43691 Pietermaritzburg; 43694 Pretoria
- Populus nigra* L. var. *italica*: 43730 George; 43732 Nelspruit; 43833 Pretoria; 48510 Harding
- Populus wislizenii* Sarg.: 43731 George
- Populus* spp.: 43692, 47995 Pietermaritzburg; 43911, 50565 Pretoria; 47559 Stellenbosch; 48496 Witbank; 48497 Bethal; 48511 Greytown
- lini** (Ehrenb.) Lév., Verwoerd (1929); Nel (1942); Doidge (1950); Doidge et al. (1953); G.J.M. Gorter (1977, 1981)
- Linum africanum* L.: 46119 (Stell. 150) Stellenbosch
- Linum usitatissimum** L.
- medusae**• Thüm., T.N. Trench, A.P. Baxter & H. Churchill (1988)
- = *Melampsora albertensis* Arthur
- = *Uredo medusae* (Thüm.) Arthur
- Populus deltoides* Marshall: 48253, 50554, 50555, 50556, 50557 Greytown; 48329 Ermelo; 48330 Howick; 48331 Pietermaritzburg; 48332 Piet Retief
- Populus* sp.: 48499 Vryheid
- populnea** (Pers.) P. Karst., G.J.M. Gorter (1977)
- = *Melampsora aecidioides* J. Schröt.
- Populus alba* L.: 537 Cape Town; 7102 Soutpansberg; 23723, 44353 Pretoria
- Populus* spp.: 639 Cape Town; 711 Groot Drakenstein; 724 Cape; 733 Inchanga; 1514 Wellington; 21936 Bloemfontein; 29859 Soutpansberg; 30780 Rustenburg; 32141**, 34319, 34419, 36791 Pretoria; 45985 (Stell. 24), 46795 (Stell. 879) Stellenbosch
- puccinioides*** G. Winter (1885); Sacc. (1888); P. Syd. & Syd. (1915); Doidge (1950)
- Helichrysum* sp.
- ricini** Pass., P. Syd. & Syd. (1915); Van der Byl (1926); Doidge (1927, 1950); Doidge & Bottomley (1931); Nel (1942); Doidge et al. (1953); G.J.M. Gorter (1977)
- = *Caeoma ricini* Schldtl.
- = *Uredo ricini* Biv.
- = *Melampsorella ricini* (Biv.) De Toni
- = *Uromyces ricini* Biv.
- Ricinus communis* L.: 55, 7402, 14203, 30968*, 30969 Pretoria; 179 Soutpansberg; 524**, 738 Kenilworth; 1013, 20778 Grahamstown; 10161 Inanda; 10163, 20783, 20789 Somerset East; 11505 Buffelspoort; 23363 Boulders; 32300 Durban; 32309 Eshowe; 45988 Stellenbosch
- vitellinae** Thüm., Doidge (1927, 1950); G.J.M. Gorter (1981, 1982)
- = *Uredo mixta* Duby forma *salicis-capensis* Thüm.
- = *Melampsora mixta* (Schldtl.) J. Schröt.
- Salix mucronata* Thunb. subsp. *capensis* (Thunb.) Immelman: 923 Boshoff; 20766* (S.A.M. 33935) Somerset East; 50505 Betty's Bay
- Salix* spp.: 45875 Grahamstown; 50492, 50753 Royal Natal National Park; 50656 Pretoria
- GENUS MILESINA
- dieteliana** (Syd.) Magnus, P. Syd. & Syd. (1915); Doidge (1927, 1950)
- = *Milesia polypodii* F.B. White
- = *Melampsorella dieteliana* Syd.
- Polypodium lycopodioides* L.: 1634 Amanzimtoti
- nervisequa** (Syd.) Faull, P. Syd. & Syd. (1915); Doidge (1927, 1950)
- = *Milesia nervisequa* Syd.
- = *Caeoma nervisequam* Thüm.
- sub *Uredo filicum* Klotzsch
- sub *Uredo polypodii* (Pers.) DC.
- Cheilanthes viridis* (Forssk.) Sw. var. *viridis*: 999 Pretoria; 1370 Durban; 1836 Soutpansberg; 10162 Natal; 20781 Somerset East
- Rumohra adiantiforme*** (G. Forst.) Ching: S.A.M. 28729
- GENUS PUCCINIASTRUM
- agrimoniae** (Dietel) Tranzschel, P. Syd. & Syd. (1915); Doidge (1927, 1950); Dietel (1928)
- = *Coleosporium ochraceum* Fuckel
- sub *Phragmidium obtusum* C. Tul.
- Agrimonia bracteata* E. Mey. ex C.A. Mey.: 303 Fort Beaufort; 332 Inanda; 1150, 1202, 1261, 1407, 2147, 6655, 29771, 29814, 29847 Pretoria; 2313 Harrismith; 2353 Kentani; 32284 without locality; 11638 Lidgetton; 11649 Tweedie; 24351, 20323 Soutpansberg; 10157*, 10158, 20777, 20797 Somerset East; 25977 Barberton; 32311 Natal
- Agrimonia procera* Wallr.: 50762 Cathkin Park, 50731 Uitsoek State Forest
- GENUS UREDINOPSIS
- macrosperma (see *U. pteridis*)
- pteridis** Dietel & Holw.
- = *Uredinopsis macrosperma* (Cooke) Magnus
- Pteridium aquilinum* (L.) Kuhn: 10590, 11224 Inanda
- PUCCINIACEAE
- GENUS CEROTELIUM
- fici** (Castagne) Arthur, Verwoerd (1929); Doidge (1950); Doidge et al. (1953)
- = *Kuehneola fici* E.J. Butler
- = *Uredo fici* Castagne
- = *Physopella fici* Arthur
- Ficus carica* L.: 289 Grahamstown; 615 Constantia; 852 Pietermaritzburg; 1207, 25159 Cape; 20726* Cape Town; 1315 Renosterfontein; 46129 [Stell. 161], 46799 [Stell. 882] Stellenbosch
- Ficus cordata* Thunb. subsp. *salicifolia* (Vahl) C.C. Berg: 176, 1298 Pretoria
- gossypii (see *Phakopsora desmium*)
- GENUS DIORCHIDIUM
- tricholaenae** Syd., Syd. & P. Syd. (1912); Sacc. & Trotter (1925); Doidge (1927, 1950); Doidge & Bottomley (1931)
- Melinis repens* (Willd.) Zizka subsp. *repens*: 269*+, 586 Barberton; 1449 Harden Heights, 1605, 2393, 2512 Winkle Spruit; 1607, 1608 Amanzimtoti; 20631 Natal; 30138 Nelspruit; 30292 Ndwedwe; 30974 Estcourt
- woodii** Kalchbr. & Cooke in Kalchbr. (1882); Sacc. (1888); Magnus (1891); Doidge (1927, 1950); Dietel (1928); Doidge & Bottomley (1931)
- = *Puccinia woodii* (Kalchbr. & Cooke) Syd.
- Milletia grandis* (E. Mey.) Skeels: 335+, 10448+, 10449+, 22090 Tongaat; 1593, 1978, 2515 Winkle Spruit; 1601 Amanzimtoti, 5606 Port Shepstone; 11893 Umkomaas
- GENUS ENDOPHYLLUM
- macowanii** Pole Evans (1907, 1908); P. Syd. & Syd. (1924); Van der Byl (1925, 1926); Doidge (1927, 1950); Nel (1942)
- = *Aecidium elegans* Dietel
- = *Aecidium rhamni* Pers. forma *rhamni-prinoides*
- sub *Puccinia coronata* Corda
- Rhamnus prinoides* L'Hér.: 379, 17114 George; 1772, 17738, Soutpansberg; 2097 Kentani; 2418, 17215 Knysna; 4275, 20735, 20761 Somerset East; 33152 Donnybrook
- GENUS FROMMEA•
- obtusa-duchesneae**• (Arthur) Arthur
- = *Frommea obtusa* (F. Strauss) Arthur
- = *Frommea obtusa* (F. Strauss) Arthur var. *duchesneae* Arthur
- Duchesnea indica* (Andrews) Focke: 48512 Greytown; 48609, 48610 Pretoria; 50482 Cathkin Park

obtusa var. duchesneae (see **F. obtusa-duchesneae**)

GENUS HAMASPORA

- longissima** (Thüm.) Körn. (1877); Massee (1892); P. Syd. & Syd. (1915); Doidge (1927, 1950); Dietel (1928); Doidge & Bottomley (1931); Doidge et al. (1953)
= *Uredo lucida* Thüm.
= *Phragmidium longissimum* Thüm.
Rubus ludwigii Eckl. & Zeyh. subsp. *ludwigii*: 9776 Spitskop; 27562 between Kestell and Clarens; 32303 Durban
Rubus pinnatus Willd.: 1620 Winter's Kloof; 2350 Kentani; 2404 Cramond; 30375 Donnybrook
Rubus rigidus Sm.: 144, 1825 Soutpansberg; 2351 Kentani; 5161 Komgha; 8387 Pretoria; 10589, 11055, 11205 Inanda; 20721, 20723*, 20742*, 20746* [S.A.M. 28746] Somerset East; 22413 East London; 26051 Barberton; 32741 Rustenburg
Rubus transvaaliensis Gust: 1267, 1379*, 1380, 1513, 1535*, 1891*, 1914, 1949, 2184, 6656, 6657, 6898, Pretoria; 20333 Soutpansberg; 26016 Barberton
Rubus spp.: 29753 Pretoria; 33385 Grahamstown; 46490 [Stell. 561] Cape Town; 46955 [Stell. 1033] Stellenbosch; 50489 Cathkin Park

GENUS HEMILEIA

- ancylanthi**** Syd., P. Syd. & Syd. (1915); Doidge (1927, 1950)
= *Uredo ancylanthi* Henn.
Ancylanthos fulgides Welw.
canthii Berk. & Broome. P. Syd. & Syd. (1915); Doidge (1927, 1950); G.J.M. Gorter (1981)
= *Coleosporium detergibile* Thüm.
= *Uredo detergibilis* Henn.
Canthium ciliatum (Klotzsch) Kuntze: 20779, 33918 [S.A.M. 33918] Somerset East
Canthium mundianum Cham. & Schltdl.: 50861 Sandton
*Canthium orbiculare*** Good
Canthium sp.: 9084 Wyebank
*Psydrax livida*** (Hiern) Bridson
evansii Syd., Syd. & P. Syd. (1912); P. Syd. & Syd. (1915); Sacc. & Trotter (1925); Doidge (1927, 1950)
Tricalysia sonderiana Hiern: 6635 Umbogintwini
Tricalysia capensis (Meisn. ex Hochst.) Sim. var. *capensis*: 590**
fadogia Syd., Syd. & P. Syd. (1912); P. Syd. & Syd. (1915); Sacc. & Trotter (1925); Doidge (1927, 1950); G.J.M. Gorter (1981)
Fadogia cienkowski Schweinf.: 757**, 7391 Nelspruit
Fadogia tetraquetra Krause var. *tetraquetra*: 34482 Pietersburg
*Fadogia*** sp.
Pygmaeothamnus pygmaeum (Schltr.) Robyns: 48608 Nelshoogte State Forest
Pygmaeothamnus zeyheri (Sond.) Robyns var. *zeyheri*: 281+ Heidelberg; 2209, 12229, 26376, 34218 Pretoria; 21232 Newcastle; 28811* Waterberg; 42421 Welverdiend

gardeniae-thunbergiae• Maubl. & Roger

- Gardenia thunbergia*** Thunb.
Gardenia volkensii K. Schum. subsp. *volkensii* var. *volkensii*: 50708 Kruger National Park
*Gardenia** sp.

- scholzii** Syd., Syd. & P. Syd. (1910); P. Syd. & Syd. (1915); Doidge (1927, 1950)
= *Uredo scholzii* Henn.
Clerodendrum glabrum E. Mey. var. *glabrum*: 1569, 1570 Amanzimtoti
*Clerodendrum*** sp.

- vastatrix** Berk. & Broome, J.M. Wood (1883, 1906); P. Syd. (1899); Burt Davy (1904); Pole Evans (1907); P. Syd. & Syd. (1915); Van der Byl (1926); Doidge (1927, 1950); Doidge & Bottomley (1931); G.J.M. Gorter (1977, 1981)
= *Uredo gardeniae-thunbergiae* Henn.
Coffea arabica L.: 5, 42, 59, 172, 20322 Tzaneen; 323, 349 Natal; 372 Durban; 409 Pretoria; 991 Lemana; 1403 Winkle Spruit; 6824, 7788 Verulam; 20857 Rietvlei; 21933 Lydenburg; 23142 Louis Trichardt; 23498 Potchefstroom; 24344* Duiwelskloof; 24941 Pinetown; 25469, 30936* Umbogintwini

- woodii** Kalchbr. & Cooke (1880); Sacc. (1888); Burt Davy (1904); J.M. Wood (1906); Pole Evans (1907); P. Syd. & Syd. (1915); Van der Byl (1926); Doidge (1927, 1950); Nel (1942); G.J.M. Gorter (1981)
= *Uredo vancouveriae* Cooke

- Pachystigma latifolium* Sond.: 173 without locality; 340, 10600, 11185 Inanda, 814, 10549, 10599*, 32021* Natal; 1404, 5640 Winkle Spruit; 6835 Scottburgh; 8250 Krantzklouf; 9762 New Hanover; 14177 Entumeni; 24940 Brighton Beach
Pachystigma pygmaeum (Schltr.) Robyns: 30909 White River
Vangueria infausta Burch. subsp. *infausta*: 324, 352, 10410 Natal; 1154, 1277, 1278 Barberton; 1679 Table Mountain; 1815 Soutpansberg; 2446 Cramond; 2497 Winkle Spruit; 11845 Louis Trichardt; 14104*; 30941 Inanda; 32403, 50733 Nelspruit
*Vangueriopsis lanciflora*** (Hiern) Robyns ex Good

GENUS KUEHNEOLA

- albida (see **K. uredinis**)
uredinis (Link) Arthur, G.J.M. Gorter (1977, 1981)
= *Kuehneola albida* (J.G. Kühn) Magnus
Rubus apetalus Poir.: 1532 Lydenburg
Rubus rigidus Sm.: 1863 Barberton; 32287 without locality
Rubus transvaaliensis Gust: 642 Barberton; 992 Wellington; 2417 Knysna; 33173 Pietermaritzburg
Rubus ursinus Cham. & Schltdl.: 46001 Stellenbosch [Stell. 39; Van der Byl 1101]. This specimen was previously wrongly identified as *Phragmidium violaceum* (C.F. Schultz) G. Winter.
Rubus spp.: 681 Cape Town; 6931 Stellenbosch; 18087 Pretoria; 32125 Knysna; 50483 Cathkin Park

GENUS MASSEELLA

- flueggeae** Syd., Doidge (1939, 1950); G.J.M. Gorter (1981)
= *Uredo brideliae* (Henn. & Pole Evans) Doidge
= *Aecidium brideliae* Henn. & Pole Evans
Securinega virosa (Roxb. ex Willd.) Pax & K. Hoffm.: 77 Nelspruit; 25968, 26359 Barberton

GENUS PHAKOPSORA•

- desmium (see **P. gossypii**)
gossypii (Arthur) Hirats. f., Cummins (1962)
= *Phakopsora desmium* (Berk. & Broome) Cummins
Gossypium sp.: 23190 Natal

GENUS PHRAGMIDIUM

- disciflorum (see **P. mucronatum**)
mucronatum Fr.
= *Phragmidium disciflorum* (Tode) J. James
Rosa spp.: 139 Kimberley; 141, 1171, 1212, 1892, 32830 Pretoria; 421 Bloemfontein; 484**; 787* Durban; 1866 Wellington; 2430 Uniondale; 9310 Kentani; 15041* Port Elizabeth; 28521 Fort Beaufort; 34257**; 46022 Stellenbosch
violaceum (R. Schultz) G. Winter (This specimen was wrongly identified and is now filed under *Kuehneola uredinis*. *Phragmidium violaceum* has not been collected in South Africa.)

GENUS PUCCINIOSIRA

- dissotidis*** Wakef., P. Syd. & Syd. (1924); Doidge (1927, 1950)
= *Aecidium dissotidis* Cooke
= *Uredo dissotidis* Cooke, l.c.
= *Uredo dissotidis-longicaudae* Henn.
Dissotis incana (Naudin) Triana: 10288, 11194 Natal
*Dissotis longicaudata*** Cogn.
Dissotis princeps (Kunth) Triana var. *princeps*: 10289 Natal

GENUS RAVENELIA

- atrides** Syd., Syd. & P. Syd. (1912); P. Syd. & Syd. (1915); Dietel (1928); Sacc. & Trotter (1925); Doidge (1927, 1948, 1950)
= *Dasturella atrides* Thirum.
Grewia bicolor Juss.: 32731 Kruger National Park
Grewia caffra Meisn.: 1630, 1670+, 2534 Durban
Grewia monticola Sond.: 32401 Nelspruit
Grewia occidentalis L.: 1629 Amanzimtoti
Grewia spp.: 5075, 5076 Kruger National Park
baumiana Henn. (1903); Dietel (1906); Sacc. & D. Sacc. (1905); P. Syd. & Syd. (1915); Doidge (1927, 1948, 1950)
= *Haploraavenelia baumiana* (Henn.) Syd.
Senna petersiana (Bolle) Lock: 29870 Rooiwal; 30955 Schagen; 32404 Nelspruit; 50553 Hanglip State Forest
Senna singueana (Delile) Lock: 6886**+

- bottomleyae**** Doidge (1927, 1950)
Albizia versicolor Welw. ex Oliv.: 14166
- deformans**** (Maubl.) Diétel (1906); P. Syd. & Syd. (1915); Sacc. & Trotter (1912); Doidge (1927, 1950)
= *Pleoravenelia deformans* Maubl.
= *Cystingophora deformans* (Maubl.) Syd.
Acacia sp.
- dichrostachydis** Doidge (1927, 1950)
Dichrostachys cinerea (L.) Wight. & Arn. subsp. *nyassana* (Taub.) Brenan: 6806, 7106 Verulam
- elephantorrhizae** Doidge (1927, 1950)
Elephantorrhiza elephantina (Burch.) Skeels: 8955+, 12225, 12841, 23453 Pretoria; 23359 Enselberg; 29732* Donkerpoort
- escharoides** Syd., Syd. & P. Syd. (1912); P. Syd. & Syd. (1915); Sacc. & Trotter (1925); Doidge (1927, 1950); G.J.M. Gorter (1981)
*Faidherbia albida*** (Delile) A. Chev.
Acacia burkei Benth.: 534+ Potgietersrus; 10086 Springbok Flats; 20654 Naboomspruit; 27586 Hartebeespoort; 29918 Pienaar's River; 50690 Kruger National Park
Acacia nigrescens Oliv.: 50691, 50695 Kruger National Park
- evansii** Syd., Syd. & P. Syd. (1912); P. Syd. & Syd. (1915); Sacc. & Trotter (1925); Doidge (1927, 1939, 1950); G.J.M. Gorter (1981)
= *Dendroecia evansii* Syd.
Acacia gerrardii Benth. var. *gerrardii*: 30127 Verulam
Acacia rehmanniana Schinz: 5625 Pretoria
Acacia robusta Burch. subsp. *robusta*: 123, 149, 2181+, 2212, 5175, 6588, 6698, 14144 Pretoria; 1316 Magalies River; 6807, 7105 Verulam; 18085 Loskop; 28954 Magaliesberg; 29933 Wolmaransstad; 30124 Umzinto; 50693 Kruger National Park
Acacia sieberiana DC. var. *woodii* (Burt Davy) Keay & Brenan: 2539+ Estcourt
Acacia spp.: 2403 Cramond; 11670 Pretoria; 33171 Johannesburg
- glabra** Kalchbr. & Cooke (1880), Cooke (1880); Diétel (1894, 1906); P. Syd. & Syd. (1915); Doidge (1927, 1950)
sub *Ravenelia stictica* Berk. & Broome
Calpurnia aurea (Aiton) Benth. subsp. *sylvatica* (Burch.) Brummitt: 2320, 2330, 5165 Kentani; 2375+, 10696+, 10698+, 20728+, 20732+, 20727, 20728*+, 20851 [S.A.M. 28754] Somerset East
- halsei** Doidge (1939, 1950)
Acacia ataxacantha DC.: 30117+ Ndwedwe; 50571, 50748 Nelspruit
- indigoferae**** Tranzschel, Diétel (1894); P. Syd. & Syd. (1915); Doidge (1927, 1950)
sub *Ravenelia laevis* Diétel & Holw.
Indigofera sp. 15513 Harare, Zimbabwe
- inornata** Diétel (1894, 1906); Sacc. (1895); P. Syd. & Syd. (1915); Doidge (1927, 1950); G.J.M. Gorter (1981)
= *Aecidium inornatum* Kalchbr.
= *Cystoteliium inornatum* (Diétel) Syd.
= *Haploravenelia inornata* Diétel
Acacia karroo Hayne: 2368 Kentani; 2377+, 4262*+, 20734+ Somerset East; 2368*, 2541 Komgha; 22375 Kirkwood; 26396 Grahamstown
- le-testui**** Maubl., Diétel (1906); Sacc. & Trotter (1912); P. Syd. & Syd. (1915); Doidge (1927, 1950)
Cassia sp.
- macowaniana** Pazschke, Diétel (1894, 1928); Sacc. (1895); P. Syd. & Syd. (1915); Doidge (1927, 1948, 1950); G.J.M. Gorter (1981)
= *Aecidium ornamentale* Kalchbr.
= *Ravenelia ornamentalis* Diétel
= *Cephateliium macowanianum* (Pazschke) Syd.
Acacia karroo Hayne: 329, 834*, 10299, 13074 Ladysmith; 929 Leeuwoords; 1417 Kroonstad; 1524, 2123, 21224, 21225, 23449, 23452, 1985, 2095, 2170, 11857, 2255, 2447, 6665, 23203, 23452*, 24913, 28603, 29817, 29798*, 29916, 30912, 36935, 47473, 50686, 50687, 50688, 50692, 50697, 50701, 50699, 50700, 50711 Pretoria; 1915, 8757 Kentani; 2077 Indwe; 2135 Plat River; 2355 Zwartfontein; 2357, 5154 Vryheid; 2376+, 4067+, 20730+, 20731+, 20733+ Somerset East; 2423 Trapp's Valley; 2552 Bathurst; 7367* Butterworth, 7404, 28597, 50700 Onderstepoort; 8245 Muden; 8857 Queenstown; 10017 Riverton; 11002 Springbok Flats; 11300 Bloemfontein; 15453 Klipplaat; 21052* Asbury; 27585 Hartebeespoort; 28505 Friedenheim; 28606 Prieska; 30327 Wolmaransstad; 30971 Estcourt; 31021 Ventersburg; 34583 Witbank; 40653 Soutpansberg; 44332 Mafikeng; 46145 Knysna; 46208 Oudtshoorn; 47474 Schweizer Reinecke; 50757, 50758 50759, 50760 Boekenhoutskloof; 50762 Ashton Bay
- minima** Cooke (1882); Sacc. (1888); Diétel (1894, 1906); P. Syd. & Syd. (1915); Doidge (1927, 1950); Doidge & Bottomley (1931); G.J.M. Gorter (1981)
Albizia gummifera (Gmel.) C.A. Sm.: 351, 10697+ Inanda; 1835*, 1400, 1582, 2384 Winkle Spruit; 6827 Scottburgh; 30779 Durban
- modesta** Doidge (1939, 1948, 1950); G.J.M. Gorter (1981)
Acacia hebeclada DC. subsp. *hebeclada*: 30110+ Pretoria
Acacia luederitzii Engl. var. *retinens* (Sim) J.H. Ross & Brenan: 34572 between Hammanskraal and Pienaar's River
- natalensis** Syd. & Pole Evans, Syd. & P. Syd. (1912); P. Syd. & Syd. (1915); Sacc. & Trotter (1925); Doidge (1927, 1950)
= *Longia natalensis* (Syd. & Pole Evans) Syd.
= *Haploravenelia natalensis* (Syd. & Pole Evans) Diétel
Acacia karroo Hayne: 1584+, 1935+, 2514 Winkle Spruit
- peglerae** Pole Evans (1918); Doidge (1927, 1950); G.J.M. Gorter (1981)
Acacia caffra (Thunb.) Willd.: 2331+, 2367, 5179, 5626 Kentani; 2544* Butterworth; 5150 Weenen
- pienaarrii** Doidge (1927, 1950); G.J.M. Gorter (1981)
Acacia caffra (Thunb.) Willd.: 2449, 5627+, 6658*+, 11508, 23450*, 23448, 23451, 26395, 49454, 51013 Pretoria; 5159 Weenen
- pretoriensis** Syd., Syd. & P. Syd. (1912); P. Syd. & Syd. (1915); Sacc. & Trotter (1925); Doidge (1927, 1939, 1950)
Acacia sp.: 1376+ Pretoria
- stictica** Berk. & Broome, Sacc. & P. Syd. (1890); P. Syd. & Syd. (1915); Doidge (1927, 1950); G.J.M. Gorter (1981)
= *Ravenelia munduleae* Henn.
Mundulea sericea (Willd.) A. Chev.: 124, 1522, 13089, 23447, 2210, 2256, 2227, 19842, 29728, 30716, 32667, 41959, 43144, 49376, 50558 Pretoria; 146 Hartebeespoort; 28255 Potgietersrus
- tephrosiae** Kalchbr., Sacc. (1888); Diétel (1894, 1906); P. Syd. & Syd. (1915); Doidge (1927, 1950); G.J.M. Gorter (1981)
*Tephrosia heckmanniana*** Harms
Tephrosia macropoda (E. Mey.) Harv. var. *macropoda*: 10700 Inanda; 14190 Entumeni
- transvaaliensis** Doidge (1939, 1950)
Acacia mellifera (Vahl) Benth. subsp. *detinens* (Burch.) Brenan: 37382+ Pretoria
- woodii*** Pazschke, Diétel (1894); P. Syd. & Syd. (1915); Sacc. (1895); Doidge (1927, 1950)
Fabaceae undet.
- GENUS SCHROETERIASTER
- doidgeae** Syd. (1926); Doidge (1927, 1950)
Croton gratissimus Burch. var. *gratissimus*: 14173 Waterberg
- stratosus** (Cooke) Syd., P. Syd. & Syd.; Doidge (1927, 1950); Doidge & Bottomley (1931)
= *Melampsora stratosus* Cooke
Croton sylvaticus Hochst.: 363 Natal; 2020, 2383, 2500, 5639 Winkle Spruit; 10363 Inanda; 33093 Eshowe; 35148 Louis Trichardt
- GENUS SKIERKA
- robusta** Doidge (1927, 1950); Mains (1939)
Rhoicissus rhomboidea (E. Mey. ex Harv.) Planch.: 1635+ Durban; 1824 Lemana; 2398 Winkle Spruit; 2416 Umgeni Beach; 6628 Isipingo; 32781 Umhlanga Rocks; 39125 Southport
- GENUS SPHAEROPHRAGMIUM
- artabotrydis** Doidge (1941, 1950); Monoson (1974)
Artabotrys monteiroae Oliv.: 30761+ Westville
- dalbergiae** Diétel; Kalchbr. (1882); Sacc. (1895); P. Syd. & Syd. (1915); Doidge (1927, 1950); Monoson (1974)
Dalbergia armata E. Mey: 881*, 2524 Umgeni Lagoon; 1371, 5144 Durban; 6825 Verulam; 30954 Nelspruit; 35147 Empangeni
Dalbergia sp.: 51015 Nelspruit
- GENUS UROMYCLADIUM
- tepperianum**• (Sacc.) McAlpine, M.J. Morris, M.J. Wingf. & J. Walker (1988)
Acacia mearnsii De Wild.: 48897 Bainskloof
Acacia saligna (Labill.) J.C. Wendl.: 50659 Stellenbosch

GENUS UROPYXIS

(?)**gerstneri** Doidge (1927, 1950); J.W. Baxter (1959)
Annonaceae undet.: 34564+ Zululand

This is a doubtful species. Examination revealed characters that place this species in the genus *Diorchidium*.

steudneri Magnus var. **rhodesica**** Doidge (1948, 1950); J.W. Baxter (1959)
Ornocarpum trichocarpum (Taub.) Engl.: 34032 Inyati, Zimbabwe

GENUS TRANZSCHELIA•

discolor (Fuckel) Tranzschel & M.A. Litw.: Nel (1942)

= *Tranzschelia punctata* (Pers.) Arthur

= *Tranzschelia pruni-spinosae* var. *discolor* (Fuckel) Dunegan

= *Puccinia discolor* Fuckel

Prunus armeniaca L.: 5593 Graaff-Reinet; 30966 Pretoria

Prunus persica (L.) Batsch: 1 Elsenburg; 125 without locality; 290, 321 Fort Beaufort; 7800 Pretoria; 45982, 46791 Stellenbosch

Prunus salicina Lindl.: 1250 Lake Chrissie; 1290 Bethal; 2378 Grahamstown; 48612 Pretoria