

'PESTS' OF QUARANTINE IMPORTANCE IN AFRICA

LIST A2: PESTS OF LIMITED DISTRIBUTION IN AFRICA

HOST	PEST	DISTRIBUTION	REFERENCE
1. <i>Aleurites Sp</i> (<i>Tung</i>)	<i>Mycosphaerella aleurite</i> Ou	Central African Republic, Cameroon, Madagascar, Malawi, Chad, Congo, Democratic Republic Congo	IAPSC Map 49, 1985
	<i>Septobasidium aleuritedis</i>	Madagascar	
2. <i>Allium Spp.</i> (<i>Onion, Leeks, etc.</i>)	<i>Ditylenchus dipsaci</i> Kuhn		IAPSC 160, 1985
	<i>Dalia antiqua</i>	RSA	Sarccus 1988
	<i>Onion yellow dwarf virus (Melhus),</i>	Morocco, South Africa	IAPSC 58, 1985
	<i>Peronospora destructor (Berk.) Casp.</i>	Egypt, Ethiopia, Kenya, Libya, Mauritius, Morocco, Zimbabwe, South Africa, Tanzania	IAPSC Map 105, 1985
	<i>Urocystis cepulae</i> Frost	Uganda, Egypt, Gabon, Morocco, North and West Africa,	IAPSC Map 93, 1985
	<i>Sclerotium cepivorum</i> Berk	Egypt, Libya, Zimbabwe, South Africa, Uganda, Mauritius	IAPSC Map 8, 1985
	<i>Botryotinia squamosa viennot-Bourgin</i>	Mauritius	APSC Map 81, 1985
	<i>Puccinia allii</i>	Algeria, Morocco, Tunisia, Libya, Egypt, Ethiopia, Kenya, Mauritius, Mozambique, South Africa, Canary Islands, Tanzania, Uganda, Zimbabwe, Democratic Republic Congo	SARCCUS, 1988
	<i>Peronospora schactii</i>	South Africa, Zimbabwe	SARCCUS, 1988
	<i>Meloidogyne javanica</i>	Malawi, Zimbabwe, South Africa	SARCCUS, 1988
	<i>M. incognita</i>	Malawi, Zimbabwe, South Africa	SARCCUS, 1988
<i>M. arenaria</i>	Malawi, Zimbabwe, South Africa	SARCCUS, 1988	

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Petrobia latents</i>	Malawi, Zimbabwe, South Africa	
<i>Allium Spp.</i> (continued)	<i>Aceria tulipae</i>	South Africa	SARCCUS, 1988
	<i>Rhizoglyphus sp.</i>	South Africa	SARCCUS, 1988
3. <i>Ananas comosus</i> (Pineapple)	<i>Tomato spotted wilt Virus Samuel, Bald & Pittman</i>	South Africa, Madagascar, Mauritius, Zimbabwe, Uganda, Tanzania	IAPSC Map 167, 1985
	<i>Ceratocystis fimbriata Fll. & Halsted</i>	Azores, Cape Verde, Ghana, Cote d'Ivoire, Seychelles, South Africa, Uganda, Democratic Republic Congo	IAPSC Map 10, 1985
	<i>Xiphinema diffisum</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Rotylenchulus reniformis</i>	South Africa	SARCCUS, 1988
	<i>Radopholus similis</i>	Malawi, Mozambique, South Africa, Zambia, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus brachyurus</i>	South Africa	SARCCUS, 1988
	<i>Meloidogyne javanica</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Dolichotetranychus floridanus</i>	South Africa	SARCCUS, 1988
	<i>Diaspic bromeliae</i>	South Africa	SARCCUS, 1988
	<i>Steneotarsonemus ananas</i>	South Africa	SARCCUS, 1988
	<i>Heteronichus sanctae-nelenae</i>	South Africa	SARCCUS, 1988
	<i>Thrips tabaci</i>	South Africa	SARCCUS, 1988
<i>Frankliniella schultzei</i>	South Africa	SARCCUS, 1988	
<i>Scotoptera exigua</i>	South Africa	SARCCUS, 1988	
4. <i>Antirrhinum majus</i>	<i>Peronospora antirrhini Schret.</i>	Mauritius, South Africa	Map 222, 3ed. 1983

HOST	PEST	DISTRIBUTION	REFERENCE	
5.	<i>Armoracta erusticana</i> (Horse Radish)	<i>Ramularia armoracial</i> Fuckel	Kenya	Map 229 3ed, 1984
6.	<i>Arachis hypogea</i> (Groundnut)	<i>Puccinia arachidis</i> spg. <i>Groundnut Rosette Virus</i> <i>Radopholus similis</i> <i>Pratylenchus brochyuyrus</i> <i>Meloidogyne javanica</i> <i>M. incognita</i> <i>M. arenaria</i> <i>Ditylenchus africanus</i> <i>Bryobia neopraetiosa</i> <i>Spodoptera exigue</i> <i>Aphis craccivora</i> <i>Protostrophus</i> spp.	Botswana, Ethiopia, Ghana, Kenya, Malawi, Mauritius, Mozambique, Niger, Nigeria, Somalia, Sudan, Tanzania, Uganda, Democratic Republic Congo, Zambia, Zimbabwe Malawi, Nigeria, Cameroon Mozambique, South Africa, Zimbabwe South Africa, Zimbabwe Malawi, South Africa, Zimbabwe South Africa, Zimbabwe South Africa, Zimbabwe RSA, Mozambique RSA RSA RSA RSA	1APSC Map 82, 1985 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
7.	<i>Avena sativa</i> (Oats)	<i>Leptocphaeria avenaria</i> Weber <i>Pseudomonas straiafaciens</i> Starr & <i>Burkholder</i>	Canary Islands, Ethiopia, Kenya, Morocco, South Africa, Zimbabwe Algeria, Morocco, Tunisia	CMI Map 323 3ed, 1984 CMI Map 363 2ed, 1975

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Avena sativa</i> (Oats) (continued)	<i>Pratylenchus brachyurus</i> <i>Sclerospora macrospora (sacc.) Thirum Shwa & Narasimham</i> <i>Meloidogyne javanica</i>	RSA, Zimbabwe Ethiopia, Mauritius, South Africa, Tunisia, Uganda Malawi, Zimbabwe, RSA	SARCCUS, 1988 IAPSC Map 92, 1985 SARCCUS, 1988
8. <i>Beta vulgaris</i> (Beets)	<i>Peronospora farinosa Fr. f. sp. betae Byford</i> <i>Physoderma leproides (Trab) Karl.</i> <i>Heterodera schachtii</i> <i>Pleospora betae (Berl) Novodovsky</i> <i>Lassida litigiosa</i> <i>Uromyces betae Kich</i> <i>Cucumber mosaic Virus</i> <i>Meloidogyne incognita</i> <i>Circulifer opacipennis</i> <i>Meloidogyne hapla</i> <i>Meloidogyne arenaria</i>	Kenya, Morocco, South Africa Algeria, Morocco, Tunisia RSA Egypt, Morocco, South Africa, Tanzania RSA Algeria, Egypt, Kenya, Libya, Morocco, Tunisia, Uganda Malawi Malawi, RSA, Zimbabwe North Africa Malawi, RSA, Zimbabwe Malawi, RSA, Zimbabwe	IAPSC Map 59, 1985 CMI Map 491 1ed, 1973 SARCCUS, 1988 IAPSC Map 76, 1985 SARCCUS, 1988 IAPSC Map 107, 1985 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
9. <i>Brassica spp.</i>	<i>Cabbage black ringspot virus Smith</i> <i>Cauliflower Mosaic virus Pomplin</i> <i>Fusarium oxysporium Schlecht.</i> <i>Ex Fr. f. sp. conglutinans (Wollenw.)</i> <i>Leptosphaeria maculans Ces & de Not.</i> <i>Mycosphaerella brassicola (Duby)</i> <i>Dindau</i> <i>Plasmodiophora brassicae Woronin</i> <i>Xanthomonas campestris pv. campestris</i> <i>(Pamnel) Dowson</i> <i>Olpidium brassicae</i> <i>Cucumber mosaic Virus</i> <i>Meloidogyne incognita</i> <i>M. hapla</i> <i>M. arenaria</i> <i>Tetranychus cinnabarinus</i> <i>Thrips tabaci</i> <i>Plutella xilostella</i>	Zimbabwe, South Africa, Zambia Zimbabwe, Sierra Leone, South Africa, Tanzania, Zambia Morocco, Zimbabwe Egypt, Ethiopia, Kenya, Mozambique, Nigeria, Zimbabwe, South Africa, Zambia Ethiopia, Ghana, Morocco, Kenya, South Africa, Uganda, Tunisia Angola, Madagascar, South Africa Angola, Ethiopia, Ghana, Kenya, Libya, Malawi, Mauritius, Morocco, Mozambique, Seychelles, Tanzania, Uganda, Zambia, Zimbabwe RSA Malawi RSA, Malawi, Zimbabwe RSA, Malawi, Zimbabwe RSA, Malawi, Zimbabwe Southern Africa Southern Africa Southern Africa	CMI Map 372 2ed, 1972 IAPSC Map 152, 1985 CMI Map 54 4ed IAPSC Map 39, 1985 IAPSC Map 52, 1985 IAPSC Map 75, 1985 IAPSC Map 135, 1985 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Lipaphies erysimy</i>	RSA	SARCCUS, 1988
<i>Brassica spp</i> (continued).	<i>Brencoryne brassicae</i>	RSA	SARCCUS, 1988
	<i>Bagrada hilaris</i>	Southern Africa	SARCCUS, 1988
10. <i>Camellia sinensis</i> <i>Camellia spp.</i> (Tea)	<i>Cercoseptoria theae (dav.) curz:</i>	Ethiopia, Malawi, Uganda, Mauritius, Nigeria, Tanzania	CMI Map 247 3ed, 1984
	<i>Brevipapus carlinifornicus</i>	RSA	
	<i>Elsinoe theae Bitancourt & Jenkins</i>	Kenya, Malawi, Mozambique, Tanzania, Uganda, Zambia	IAPSC Map 30, 1985
	<i>Polyphagotrisonernus latus</i>	RSA	
	<i>Ganoderma philippi (Bres. & Henn.) Bresad.</i>	Central African Republic, Congo, Gabon, Coted'Ivoire Coast, Nigeria, Democratic Republic Congo	IAPSC Map 34, 1985
	<i>Phomopsis theae</i>	Malawi	SARCCUS, 1988
	<i>Pestalotheoopsis theae</i>	Malawi	SARCCUS, 1988
	<i>Scutellonema brachyurum</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Radopholus similis</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Paratrichodorus porosus</i>	RSA	SARCCUS, 1988
	<i>Paralongidorus utrichuloides</i>	Malawi, RSA	SARCCUS, 1988
	<i>Meloidogyne hapla</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Oligonichus coffea</i>	RSA	SARCCUS, 1988
<i>Scrithothrips aurantii</i>	RSA	SARCCUS, 1988	
<i>Phiorinia ploriniae</i>	RSA	SARCCUS, 1988	

HOST	PEST	DISTRIBUTION	REFERENCE
11. <i>Canna spp</i>	<i>Puccinia cannae</i> (Wint) P. Henn	Mauritius, Cameroon	CMI Map 224 3ed 1981
12. <i>Capsicum spp.</i> (Sweet Pepper, chilli)	<i>Cercospora capsici</i> Heald & Wolf <i>Tomato spotted wilt Virus</i> Samuel, Bald & Pittman <i>Alfalfa Mosaic Virus</i> Wermer <i>Phytophthora capsici</i> <i>Meloidogyne javanica</i> <i>M. icognita</i> <i>Tetranychus cinnabarinus</i>	Ghana, Zimbabwe, Sierra Leone, Sudan, Tanzania, Mauritius, Zambia, Malawi Tanzania, Madagascar, Mauritius, South Africa, Zimbabwe South Africa, Kenya, Sudan, Tanzania Zimbabwe Malawi, RSA, Zimbabwe Malawi, RSA, Zimbabwe Southern Africa	IAPSC Map 15, 1985 IAPSC Map 167, 1985 IAPSC 159, 1985 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
13. <i>Carthamus tinctorius</i> (Sufflower)	<i>Puccinia carthami</i> Corda	Egypt, Ethiopia, Kenya, Sudan	CMI Map 424 2ed
14. <i>Ceanothus spp.</i>	<i>Eutypa armeniaceae</i> Hansf & Carler	South Africa	CMI Map 385 3ed
15. <i>Cereals</i>	<i>Barley yellow dwarf Virus</i> Oswald & Houston	Egypt, South Africa	CMI IAPSC Map 146, 1985
16. <i>Chicorium spp.</i> (Chicory)	<i>Pseudomonas cichorii</i> (Swingle) Stapp.	South Africa, Tanzania	CMI Map 553 1ed
17. <i>Chenopodium spp.</i>	<i>Peronospora farinosa</i> (Fr.) Fr. f. sp. <i>betae</i> Byford	Kenya, Morocco, South Africa	IAPSC Map 59, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
18. <i>Chrysanthemum – cinerarifolium</i>	<i>Mycosphaerella ligulicola</i> Baker, Dimock & Davis <i>Pentamurus salvinus</i> <i>Puccinia horiana</i> <i>P. folium</i> Henn. <i>Ramularia bellunensis</i> spg. <i>Tetranychus urticae</i> <i>Aster yellows Virus</i> <i>Liriomyza trifoliae</i>	Kenya, Malawi, Zimbabwe, Tanzania RSA South Africa South Africa Ethiopia, Democratic Republic Congo, Kenya, Tanzania South Africa Mozambique RSA	CMI Map 406 2ed SARCCUS, 1988 CMI Map 403 3ed IAPSC Map 89, 1985 SARCCUS, 1988 I APSC Map 115, 1985
19. <i>Cicer arietum</i>	<i>Ascochyta rabiei</i> (Pass) Labrousse <i>Uromyces ciceri-arietini</i> (Grog.) Jaez	Algeria, Ethiopia, Morocco, Tanzania Ethiopia, Kenya, Libya, Malawi, Morocco	CMI Map 151 3ed CMI Map 235 3ed
20. <i>Citrus spp.</i>	<i>Citrus exocortis virus</i> Bitters <i>Spiroplasma citri</i> Saglio et al <i>Citrus Xyloporosis Virus</i> Reichert & Perlberger <i>Deuterophoma trucheiphila</i> Petri. <i>Guignardia citricarpa</i> Kiely	Egypt, Ghana, Cote d'Ivoire, Libya, Mauritius, Morocco, Reunion, South Africa, Tunisia Algeria, Egypt, Libya, Madagascar, Morocco, Tunisia Algeria, Egypt, Morocco, South Africa, Tunisia Ageria, Tunisia Kenya, Mozambique, Zambia, South Africa, Zimbabwe	CMI Map 291 3ed IAPSC Map 133, 1985 CMI Map 374 2ed CMI Map 155 3ed CMI 53 5ed

HOST	PEST	DISTRIBUTION	REFERENCE
<p><i>Citrus spp</i> (continued)</p>	<p><i>Diaphorina citri</i>(<i>P.psyllid</i>) <i>Pellicularia koleroga</i> Cooke.</p> <p><i>Phytophthora hibernalis</i> Carne</p> <p><i>Radopholus similis</i></p> <p><i>Sphaceloma fawcettii</i> (<i>Jenkins</i>) Var. <i>scabiosa</i> (<i>Mc Alp. & Tryon</i>) <i>Jenkins</i></p> <p><i>Spaeropsis tumefaciens</i> Hedges</p> <p><i>Phaeoisariopsis angolensis</i> Carr & Mendes</p> <p><i>Xanthomonas campestris</i> pv. <i>citrii</i> (<i>Masse</i>) <i>Dye</i></p> <p><i>Citrus tristeza virus</i> <i>Meneghini</i></p> <p><i>Tylenchulus semipenetrans</i> Cobb.</p> <p><i>Citrus greening</i></p> <p><i>Distantiella theobroma</i></p>	<p>Mauritius Cote d'Ivoire, Democratic Republic of Congo, Madagascar</p> <p>South Africa</p> <p>Comoro Islands, Madagascar, Malawi, Zimbabwe, Zambia</p> <p>Cameroon, Egypt, Morocco, Sudan</p> <p>Angola, Cameroon, Gabon, Central African Republic, Zambia, Mozambique, Nigeria, Uganda, Democratic Republic Congo, Zimbabwe</p> <p>Democratic Republic Congo, Mauritius, Seychelles, Cote d'Ivoire, Rodriguez Island, Madagascar, Mozambique, Gabon</p> <p>Algeria, Cameroon, Central African Republic, Chad, Egypt, Gabon, Ghana, Kenya, Libya, Mauritius, Morocco, Mozambique, Nigeria, Reunion Island, Tanzania, Uganda, Democratic Republic of Congo, Democratic Republic of Congo, Zambia, Zimbabwe</p> <p>Egypt, South Africa, Canary Island, Guinea, Malawi, Zimbabwe, Kenya, Libya, Morocco, Senegal, Tanzania, Tunisia</p> <p>Comoro Islands, Kenya, Malawi, Mauritius, Reunion, Swaziland, Zimbabwe, RSA</p> <p>West Africa</p>	<p>IAPSC Maps 209 CMI Map 64 3ed</p> <p>CMI Map 47 3ed</p> <p>CMI Map 161 2ed</p> <p>CMI Map 386 2ed</p> <p>IAPSC Map 13, 1985</p> <p>IAPSC Map 136, 1985</p> <p>IAPSC Map 154, 1985</p> <p>1APSC Map 309, 1985</p> <p>1APSC Map 116, 1985</p>

HOST	PEST	DISTRIBUTION	REFERENCE
			SARCCUS, 1988
<i>Citrus spp.</i> (continued)	<i>Phytophthora hebernalis</i>	RSA	SARCCUS, 1988
	<i>P. citricola</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Tylenchulus semipenetrans</i>	Malawi, Mozambique, RSA	SARCCUS, 1988
	<i>Pratylenchus coffeae</i>	Malawi, Mozambique, RSA	SARCCUS, 1988
	<i>Tuckerella ornata</i>	RSA	SARCCUS, 1988
	<i>Panonychus citri</i>	RSA	SARCCUS, 1988
	<i>Bravipalpus carlifornicus</i>	RSA	SARCCUS, 1988
	<i>Polyphagotarsonemus latus</i>	RSA	SARCCUS, 1988
	<i>Phyllocoptruta oleivora</i>	Malawi, RSA, Swaziland, Zimbabwe	SARCCUS, 1988
	<i>Thrips hawaiiensis</i>	Angola, Mozambique	SARCCUS, 1988
	<i>Cerrodes partita</i>	RSA	SARCCUS, 1988
	<i>Papilio demodocus</i>	RSA	SARCCUS, 1988
	<i>Trioza erytraea</i>	RSA	SARCCUS, 1988
	<i>Toxoptera aurantii</i>	RSA	SARCCUS, 1988
	<i>Saissetia oleiae</i>	RSA	SARCCUS, 1988
	<i>Phenacoccus citri</i>	RSA	SARCCUS, 1988
	<i>Paracoccus burnerae</i>	RSA	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Lepidosaphes beckii</i>	Malawi, RSA	SARCCUS, 1988 SARCCUS, 1988
<i>Citrus spp. (continued)</i>	<i>Insulaspis gloverii</i>	RSA	SARCCUS, 1988
	<i>Icerya purchasi</i>	RSA	SARCCUS, 1988
	<i>Gascardia destructor</i>	RSA	SARCCUS, 1988
	<i>G. brevicauda</i>	RSA	SARCCUS, 1988
	<i>Empoasca citrusa</i>	RSA	SARCCUS, 1988
	<i>Ceroplastes rubens</i>	RSA	SARCCUS, 1988
	<i>Aleurocanthus woglumi</i>	RSA	SARCCUS, 1988
	<i>Nezara viridula</i>	RSA	SARCCUS, 1988
	<i>Antestiopsis spp.</i>	RSA	SARCCUS, 1988
	<i>Paradalsaspis quinaria</i>	RSA	SARCCUS, 1988
	<i>Sciobius granosus</i>	RSA	SARCCUS, 1988
21. <i>Colocasia & Xanthosoma spp.</i>	<i>Phytophthora colocasiae</i> Racib.	Ethiopia, Equatorial Guinea	CMI Map 146 1ed
22. <i>Cocos nucifera</i> (Coconut)	<i>Marasmiellus cocophilus</i>	Kenya, Tanzania	CMI Map 515 5ed
	<i>Ceratocystis fimbriata</i> Pegler Ell. & Halsted	Ghana, Congo, Cote d'Ivoire, Seychelles, South Africa, Uganda, Democratic Republic of Congo, Azores, Cape Verde	IAPSC Map 10, 1985
	<i>Thielaviopsis basicola</i> (Berk. & Broome) Ferraris	Democratic Republic Congo, Democratic Republic of Congo, Egypt, Morocco, Zimbabwe, South Africa	1APSC Map 98, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Bipolaris incurvata</i> J.D. Alcorn (C. Bernard)	Seychelles	1APSC Map 5, 1985
<i>Cocos nucifera</i> <i>Coconut</i> (continued)	<i>Coconut lethal yellowing</i> <i>Pseudothraupis devastans</i> <i>Hemiberlesia lataniae</i> <i>Pseudothraupis wayi</i>	Togo, Ghana, Nigeria, Benin, Cameroon West Africa, Democratic Republic Congo Malawi, RSA RSA	1APSC Map 119, 1985 SARCCUS, 1988 SARCCUS, 1988
23. <i>Coffea</i> spp.	<i>Ganoderma brasiliensis</i> (Bres. & P. Henn) Bres <i>Hemileia coffeicola</i> Maubl. & Roger <i>P. brachyurus</i> <i>Meloidogyne javanice</i> <i>Propliantis octoguttale</i> <i>Leucoptera meyricki</i> <i>Pulvinaria ethiopica</i> <i>Planococcus citri</i> <i>Coccus virides</i> <i>Anthestiopsis</i> spp.	Central African Republic, Congo, Cote d'Ivoire, Nigeria, Democratic Republic Congo Nigeria, Sao Tome, Principe, Togo, Uganda, Democratic Republic of Congo Malawi, RSA RSA RSA RSA RSA RSA RSA RSA	CMI 98 3ed CMI Map 470 2ed SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
	<i>Pterandrus rosa</i> <i>Monochamus leuconotus</i>	RSA, Malawi, Swaziland RSA	SARCCUS SARCCUS

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Elliministes laeicollis</i>	RSA	SARCCUS
<i>Coffea spp.</i> (continued)	<i>Pellicularia koleroga</i> Cooke <i>Rosellinia bunodes</i> (Berk & Br.) (Sac.) <i>Rosellinia arcuata</i> Petch. <i>Trachysphaera fructigens</i> Tabor & Bunting <i>Pratylenchus coffeae</i> (Zimmermann) Filipjev & Schurmann stekhoven <i>Bixadus sierritola</i>	Cote d'Ivoire, Madagascar, Zaire Congo, Central African Republic Central African Republic, Ghana, Nigeria, Uganda, Democratic Republic Congo Cameroon, Central African Republic, Congo, Ghana, Cote d'Ivoire, Madagascar, Nigeria, Gabon, Equatorial Guinea, Sierra Leone, Democratic Republic Congo Madagascar, Congo, Zimbabwe, Democratic Republic Congo, Uganda, Seychelles, Nigeria, Malawi, Egypt West & Central Africa	CMI Map 64 3ed CMI Map 358 2ed CMI Map 557 1ed IAPSC Map 103, 1985 IAPSC Map 305, 1985 SARCCUS, 1988
24. <i>Cola spp.</i>	<i>Distantiella theobromae</i> (Distant) <i>Swollen Shoot & Marasmius scandes</i>	Cameroon, Ghana, Cote d'Ivoire, Nigeria, Sierra Leone Cameroon, Ghana, Cote d'Ivoire, Nigeria, Sierra Leone, Central African Republic, Togo, Gabon, Guinea, Morocco, Zimbabwe	IAPSC Map 214, 1985 IapSC Map 214, 1985
25. <i>Conifers</i>	<i>Heterobasidiun annosum</i> (Fr.) Bref. <i>Phomopsis juniperivora</i> Hahn. <i>Rhizina undulata</i> Fr. <i>Scirhia (Dothistroma) pini</i> Funk & Parker <i>Phaseolus schweinnitzii</i> (Fr.) Pat.	Morocco Kenya, Mozambique, South Africa Zimbabwe, South Africa, Swaziland Kenya, Malawi, Zimbabwe, South Africa, Tanzania, Uganda, Zambia Morocco, South Africa	CMI Map 271 3ed CMI Map 502 3ed CMI Map 489 1ed 1APSC Map 91, 1985 1APSC Map 63, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Conifers (continued)</i>	<i>Polyporus schwopitzii</i>		SARCCUS, 1988
Cotton	<i>Heliothrips haemorrhoidalis</i>	RSA	SARCCUS, 1988
	<i>Euproctis terminalis</i> <i>Anthomonas grandis</i>	RSA Benin	IAPSC Map 74
26. <i>Crataegus spp.</i>	<i>Gymnosporangium confusum</i> Plowr.	Algeria, Morocco, Tunisia	CMI Map 429 2ed
27. <i>Crotalaria spp.</i> (<i>Sun. hemp.</i>)	<i>Pleiochaeta setosa</i>	South Africa	CMI Map 243 3ed
	<i>Uromyces decoratus</i> Syd.	Ghana, Guinea, Cote d'Ivoire	CMI Map 472 1ed
28. <i>Crucifers</i>	<i>Plasmodiophora brassicae</i> Woronin	Angola, South Africa, Madagascar	1APSC Map 75, 1985
	<i>Pseudomonas maculicola</i> (McCull.) Ster	Algeria, Mauritius, Mozambique, South Africa	CMI Map 312 2ed
29. <i>Cucumis sativus and other Cucurbitaceae</i>	<i>Erwinia tracheiphila</i> (Smith) Bergey et al	Congo, South Africa	CMI Map 456 1ed
	<i>Fusarium oxysporum</i> Schlecht. ex Fr. f. <i>sp. melonis</i> Snyder & Hansen	Morocco, Zimbabwe	CMI Map 496 2ed
	<i>Fusarium oxysporum</i> f. <i>sp cucumerinum</i> Owen	Kenya, Libya, South Africa	CMI Map 558 1ed
	<i>Pseudomonas syringae</i> (E.F. Smith & Bryan) Young, Dye & Wilkie	South Africa, Algeria, Gabon, Zimbabwe, Kenya	CMI Map 127, 1985
	<i>Henosepilachna bifasciata</i>	South Africa	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Cucumis sativus and other Cucurbitaceae (continued)</i>	<i>Solanophila dregei</i> <i>Dacus bivittatus</i> <i>Thrips tabaci</i> <i>Meloidogyne hapla</i> <i>M. incognita</i> <i>Liriomyza sativae</i>	South Africa Southern Africa Widespread, Southern Africa Malawi, South Africa, Zimbabwe Malawi, South Africa, Zimbabwe Nigeria	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 EPPO Sheet, IAPSC Map 237
30. <i>Cucurbita pepo</i>	<i>Phytophthora cryptogea</i> <i>Pethybr & daff</i> <i>Phytophthora dreschsleri</i> <i>Tucker</i>	Egypt, Zimbabwe Egypt, Zimbabwe, Algeria	CMI Map 70, 1985 IAPSC Map 71, 1985
31. <i>Cystisus spp.</i>	<i>Pleiochaeta setosa (Kirchn.) Hughes</i>	South Africa	CMI Map 243 3ed
32. <i>Cydonia vulgaris</i>	<i>Gymnosporangium confusum Plowr.</i> <i>Mycosphaerella sentina (Fr.) Schroet</i> <i>Pezicula malicorticus (Jacks) Nann f.</i> <i>Cydia molesta</i>	Algeria, Morocco, Tunisia Morocco, South Africa Zimbabwe RSA	CMI Map 429 2ed CMI Map 325 2ed SARCCUS, 1988 SARCCUS 1988
33. <i>Dahlia sp.</i>	<i>Dahlia mosaic virus Brierly</i>	Madagascar, Malawi, South Africa, Tanzania, Zimbabwe, Zambia	CMI Map 116 3ed

HOST	PEST	DISTRIBUTION	REFERENCE
34. <i>Dioscorea Spp.</i> (Yam)	<i>Urocystis dioscorea</i> <i>Scutellonema bradys</i> <i>Yam mosaic Virus</i>	Kenya, Tanzania, West Africa Benin, Guinea, Mali, Togo, Nigeria, Niger, Cote d'Ivoire, Mauritania	 IAPSC Map 168
35. <i>Daucus carota</i> (Carrot)	<i>Xanthomonas campestris pv. carotae</i> (Kendrick) Dye <i>Petrobia Latens</i> <i>Meloidogyne arenaria</i> <i>M. hapla</i> <i>M. incognita</i> <i>M. javanica</i>	South Africa South Africa Malawi, South Africa, Zimbabwe Malawi, South Africa, Zimbabwe Malawi, South Africa, Zimbabwe Malawi, South Africa, Zimbabwe	 CMI Map 407 2ed SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
36. <i>Dianthus caryophyllus</i> (Carnation)	<i>Carnation ring spot virus</i> <i>Pelargonium leaf curl virus</i>	RSA RSA	SARCCUS, 1988 SARCCUS, 1988
37. <i>Elaeis guineensis</i> (Oil palm)	<i>Fusarium oxysporum</i> <i>f.sp elaeidis</i> Tooney <i>Thielaviopsis basicola</i> (Berk & Broome) Ferraris <i>Mussidia nigrinivella</i>	Cameroon, Congo, Nigeria Egypt, Morocco, Zimbabwe, South Africa, Democratic Republic Congo Mozambique	CMI Map 471 1ed IAPSC 98, 1985 SARCCUS, 1988
38. <i>Eriobotrya japonica</i> (Loquat)	<i>Spilocaea pyracantha</i> (Oth.) Arx.	Egypt, Morocco, South Africa	CMI Map 435 2ed
39. <i>Eucalyptus spp.</i>	<i>Helicobasidium purpureum</i> Pat.	Algeria, Ethiopia, Morocco, Tunisia, Tanzania, Malawi, Kenya, Zimbabwe, South Africa, Zambia	IAPSC Map 36, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Eucalyptus spp.</i> (Continued)	<i>Phoracantha sessipuncta</i> <i>cronartium spp.</i>	Algeria, Ethiopia, Morocco, Tunisia, Tanzania, Malawi, Kenya, Zimbabwe, South Africa, Zambia	IAPSC Map 36, 1985
	<i>Chrysomelid leaf beetles</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Gonipterus scutellatus</i>	South Africa	SARCCUS, 1988
	<i>Phoracantha recurva</i>	South Africa	SARCCUS, 1988
	<i>Phoracantha semipunctata</i>	Malawi, Mauritius, South Africa	SARCCUS, 1988
	<i>Trachymella tincticollis</i>	South Africa	SARCCUS, 1988
	<i>Hodotermes mossambicus</i>	South Africa	SARCCUS, 1988
	<i>Microhodotermes viator</i>	South Africa, Namibia	SARCCUS, 1988
	<i>Eutetranychus africanus</i>	South Africa	SARCCUS, 1988
	<i>E. orientalis</i>	South Africa	SARCCUS, 1988
	<i>Mesobryobia brevillosa</i>	South Africa	SARCCUS, 1988
	<i>Mesocriconema xenoplax</i>	South Africa	SARCCUS, 1988
40.	<i>Eugenia caryophilus</i> (Clove)	<i>Endothia eugeniae</i>	
41.	<i>Ficus carica</i> (Fig)	<i>Fig mosaic virus condit. &Horne.</i>	Algeria, Morocco, Tunisia, South Africa, Zimbabwe
		<i>Phryneta spinator</i>	South Africa
		<i>Lepidosaphes beckii</i>	Malawi, South Africa
			CMI Map 445 2ed
			SARCCUS, 1988
			SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Planococcus ficus</i>	South Africa	SARCCUS, 1988
<i>Ficus carica</i> (Fig) (Continued)	<i>Saisettia hemisphaerica</i>	South Africa	SARCCUS, 1988
	<i>Criconemella xenoplax</i>	South Africa	SARCCUS, 1988
	<i>Heterodera figi</i>	South Africa	SARCCUS, 1988
	<i>Meloidogyne arenaria</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>M. incognita</i>	South Africa, Zimbabwe	SARCCUS, 1988
	<i>M. jaranica</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Scutellonema brachyurum</i>	South Africa	SARCCUS, 1988
	<i>Tylenchulus semipenitrans</i>	South Africa	SARCCUS, 1988
	<i>Fig mosaic virus</i>	South Africa, Zimbabwe	SARCCUS, 1988
	<i>Cerotelium fici</i>	Malawi	SARCCUS, 1988
<i>Phareopsis bolleana</i>	Malawi	SARCCUS, 1988	
42. Forest trees and woods)	<i>Melampsoralinumlini</i> (Ehremb.) Desm.	Egypt, Ethiopia, Kenya, Libya, Morocco, South Africa, Madeira, Democratic Republic Congo	IAPSC Map 42, 1985
43. <i>Fragaria</i> Spp. (Strawberry)	<i>Diplocarpon earliana</i> (Ell. & Ev.) Wolf	Canary Islands, Zimbabwe, South Africa, Zambia	CMI Map 452 1ed
	<i>Phytophthora cactorum</i>	Kenya, Morocco, Senegal, Zimbabwe, South Africa	IAPSC Map 67, 1985
	<i>Astylus atromaculatus</i>	South Africa	SARCCUS, 1988
	<i>Phlyctinus callosus</i>	South Africa	SARCCUS, 1988
	<i>Chaetosiphon fragaefolii</i>	South Africa	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Fragaria Spp.</i> (Strawberry) (Continued)	<i>Steneotarsonemus pallidus</i> <i>Petrobia latens</i> <i>Tetranychus cinnabarinus</i> <i>Oligonychus coffea</i> <i>H. erythrinae</i> <i>H. multinctus</i> <i>Meloidogyne hapla</i> <i>Meloidogyne javanica</i> <i>Pratylenchus plenetans</i> <i>Radopholus similis</i> <i>Xiphinema diffusum</i> <i>Strawberry crinkle virus</i>	South Africa South Africa South Africa South Africa Malawi Malawi South Africa Malawi, Zimbabwe South Africa South Africa South Africa Malawi	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
44. <i>Glycine max</i> (Soybean)	<i>Peronospora manshurica</i> (Naumoff) Syd <i>Septoria glycines</i> Hummi <i>Soybean mosaic virus</i> Gardner & Kendrick <i>Spodoptera littoralis</i> <i>Meloidogyne arenaria</i>	Ethiopia, Zimbabwe, South Africa Zimbabwe Malawi, Zimbabwe, South Africa, Tanzania, Morocco, Uganda, Zambia South Africa Malawi, South Africa, Zimbabwe	CMI Map 268 3ed CMI Map 361 3ed IAPSC Map 161, 1985 SARCCUS SARCCUS

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Diaporthe phaseolorum</i> (Cook & Ellis)	S. Africa	CMI Map 360 2ed 1977 SARCCUS 1988
<i>Glycine max</i> (Soybean) (Continued)	<i>M. hapla</i>	South Africa, Zimbabwe	SARCCUS, 1988
	<i>M. incognita</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
45. <i>Gossypium</i> spp. (Cotton)	<i>Cotton leaf curl virus</i> <i>Jones & Mason</i>	Cameroon, Central Africa Rep., Egypt, Ghana, Cote d'Ivoire, Nigeria, Sudan	IAPSC 156, 1985
	<i>Discosphaerina fulvida</i> (Sanderson) Silvan	Kenya, South Africa	IAPSC 275, 1985
	<i>Fusarium oxysporum</i> <i>f.sp vasinfectum</i> (Atk.) <i>Snyd & Hansen</i>	South Africa, Tanzania, Uganda, Angola, Central Africa Rep., Egypt, Morocco, Sudan, Senegal, Somalia, Democratic Republic Congo	IAPSC Map 33, 1985
	<i>Rotylenchulus reniformis</i> Lindford	Zimbabwe, West Africa, East Africa, Angola, Egypt	IAPSC Map 307, 1985
	<i>Dysdercus</i> spp.	South Africa	SARCCUS, 1988
	<i>Helopeltis bergrothi</i>	Angola	SARCCUS, 1988
	<i>Nezara viridula</i>	South Africa	SARCCUS, 1988
	<i>Empoasca citrusa</i>	South Africa	SARCCUS, 1988
	<i>Jacobiasca libyca</i>	South Africa	SARCCUS, 1988
	<i>Jacobiella facialis</i>	South Africa	SARCCUS, 1988
	<i>Ancistrotermes latinotus</i>	South Africa	SARCCUS, 1988
	<i>Odontotermes latericius</i>	Mozambique, South Africa, Swaziland, Zimbabwe	SARCCUS, 1988
	<i>Chgrysodeixis acuta</i>	South Africa	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Diparopsis acuta</i>	South Africa	SARCCUS, 1988
<i>Gossypium</i> spp. (Cotton) (Continued)	<i>D. tephrogramma</i> <i>Erias</i> spp. <i>Pectinophora gossypiella</i> <i>Spodoptera exigua</i> <i>Meloidogyne arenaria</i> <i>M. incognita</i> <i>M. javanica</i> <i>Pratylenchus brachyurus</i> <i>P. penetrans</i> <i>P. pratensis</i> <i>P. zaeae</i> <i>Xiphinema diffusum</i> <i>Polyspora lini</i> <i>Glomerella gossipi</i> <i>Ascochyta gossipi</i>	Angola South Africa South Africa South Africa Malawi, South Africa, Zimbabwe Malawi, South Africa, Zimbabwe Malawi, South Africa, Zimbabwe, Madagascar Malawi, South Africa, Zimbabwe South Africa South Africa South Africa Malawi South Africa S. Africa S. Africa	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
46. <i>Poaceae</i>	<i>Pseudocercospora herpotrichoides</i> (Fron.) Deighton	Tunisia, Morocco, South Africa`	IAPSC Map 77, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Poaceae</i> (Continued)	<i>Sclerophthora macrospora</i> (Sacc.) Thirum, C. Shaw & Narasimhan <i>Tilletia caries</i> (Bjerk.) R. Wolff <i>Brevipalpus californicus</i> <i>B. phoenicis</i> <i>Eotetranychus falcatus</i> <i>Eutetranychus aneckei</i> <i>Oligonychus coffeae</i> <i>O. mangiferus</i> <i>Petrobia latens</i> <i>Tetranychus amicus</i> <i>T. cinnabarinus</i> <i>T. lombardinii</i> <i>T. ludeni</i> <i>T. neocalidonicus</i> <i>T. rooyenae</i>	Mauritius, South Africa, Ethiopia, Tunisia, Uganda North Africa, South Africa, Zimbabwe, Lesotho, Ethiopia, Uganda South Africa Mozambique, South Africa Mozambique, South Africa Malawi, South Africa, Swaziland Mozambique South Africa South Africa Mozambique, South Africa South Africa Subtropical Southern African Malawi, Mozambique, Swaziland, Zimbabwe, South Africa Mozambique, South Africa, Zambia Botswana, Malawi, South Africa	IAPSC Map 92, 1985 IAPSC Map 108, 1985 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>T. turkestanii</i>	South Africa	SARCCUS, 1988
	<i>T. zambezianus</i>	Angola, Mozambique, South Africa, Zimbabwe	SARCCUS, 1988
<i>Poaceae</i> (Continued)	<i>Helicotylenchus dihystera</i>	South Africa	SARCCUS, 1988
	<i>H. multincinctus</i>	South Africa	SARCCUS, 1988
	<i>Longidorus pisi</i>	South Africa	SARCCUS, 1988
	<i>Mesochriconema</i>	South Africa	SARCCUS, 1988
	<i>Tilletia controversa</i> Kuhn	Libya, Morocco	IAPSC Map 100, 1985
	<i>Urocystis agropyri</i> (Preuss) Schroeter	Egypt, Tunisia, Morocco, South Africa	IAPSC Map 104, 1985
	<i>Mycosphaerella graminicola</i> (Fuekel) Schroeter	Algeria, Angola, Ethiopia, Kenya, Morocco, South Africa, Tanzania	IAPSC Map 53, 1985
	<i>Xanthomonas campestris prundulosa</i> f.sp. <i>undulosa</i> (Smith, Jones & Reddy) Dye	Ethiopia, Kenya, South Africa, Tunisia, Tanzania	IAPSC Map 142, 1985
	<i>Barley yellow dwarf virus</i> Oswald & Houston	Egypt, South Africa	IAPSC Map 146, 1985
47. <i>Helianthus annuus</i> (Sunflower)	<i>Septoria helianthi</i>	Malawi	SARCCUS
	<i>Puccinia helianthi</i>	Malawi	SARCCUS
	<i>Plasmopara helstedii</i>	Ethiopia, Kenya, Zimbabwe, Uganda	CMI Map 286 4ed
	<i>Verticillium dahliae</i>	Egypt, Madagascar, Morocco, Rwanda, RSA, Democratic Republic Congo, Kenya, Mozambique, Zimbabwe, Tanzania, Uganda, Zambia	IAPSC Map 113, 1985 IAPSC Map 46, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Helicobasidium purpureum</i>	Algeria, Ethiopia, Kenya, Morocco, Malawi, Zimbabwe, Tanzania, Tunisia, Zambia, RSA	Bradbury, J.F. (Guide to Plant Pathogenic Bacteria)
	<i>Pseudomonas syringae</i> pv. <i>helianthi</i>	Ethiopia, Zambia, RSA	
<i>Helianthus annuus</i> (Sunflower) (Continued)	<i>Calidea dregii</i>	RSA	SARCCUS, 1988
	<i>Oxycarenus</i> Spp.	RSA	SARCCUS, 1988
	<i>Meloidogyne arenaria</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>M. hapla</i>	RSA, Zimbabwe, Malawi	SARCCUS, 1988
	<i>M. incognita</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>M. javanica</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus brachyurus</i>	RSA, Zimbabwe	SARCCUS, 1988
48. <i>Hevea brasiliensis</i> (Rubber)	<i>Drechslera hevea</i>	Benin, Cameroon, Cape Verde, Ghana, Equatorial Guinea, Cote d'Ivoire, Liberia, Malagasy, Nigeria, Democratic Republic Congo	IAPSC Map 28, 1985
	<i>Ganoderma philipii</i>	Central African Rep., Congo, Gabon, Cote d'Ivoire, Nigeria, Democratic Republic Congo	IAPSC Map 34, 1985
	<i>Oidium hevea</i>	Congo, Malawi, Tanzania, Uganda, Democratic Republic Congo	IAPSC Map 56, 1985
	<i>Phytophthora palmivora</i>	Widespread	IAPSC Map 74, 1985
49. <i>Ipomea batatas</i> (Sweet potatoes)	<i>Ceratocystis fimbriata</i>	Azores, Cape Verde, Congo, Ghana, Cote d'Ivoire, Uganda, Seychelles, RSA, Democratic Republic Congo	IAPSC Map 10, 1985
	<i>Monilochactus infuscans</i>	Sierra Leone, Zimbabwe	IAPSC Map 46, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Sweet potato virus complex</i>	RSA	SARCCUS, 1988
	<i>Sweet potato mild mottle virus</i>	Kenya, Tanzania, Uganda	IAPSC Map 164, 1985
<i>Ipomea batatas</i> (Sweet potatoes) (Continued)	<i>Cylas formicarius</i>	RSA	SARCCUS, 1988
	<i>Meloidogyna hapla</i>	Malawi, Zimbabwe, RSA	SARCCUS, 1988
	<i>M. incognita</i>	RSA, Zimbabwe, Malawi	SARCCUS, 1988
	<i>M. javanica</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
50. <i>Lactuca sativa</i> (Lettuce)	<i>Lettuce mosaic Jagger</i>	Ghana, Mauritius, Zimbabwe, Sierra Leone, Tanzania, Malawi, Kenya, Zambia, Nigeria, RSA	CMI Map 158, 1985
	<i>Pseudomonas marginalis pv. marginalis</i>	Egypt, Ethiopia, Kenya, Nigeria, Tanzania, Uganda	CMI IAPSC Map 123, 1985
	<i>Petrobia latens</i>	RSA	SARCCUS, 1988
	<i>Meloidogyna arenaria</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>M. hapla</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>M. javanica</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
51. <i>Larix sp.</i>	<i>Phaeolus schweinitzii</i>		IAPSC Map 63, 1985
52. <i>Juniperus sp.</i>	<i>Gymnosporangium confusum</i>	Algeria, Morocco	CMI Map 429, 2ed
	<i>G. fuseum</i>	Algeria, Morocco	CMI Map 387, 2ed
	<i>G. tremelloides</i>	Morocco	CMI Map 529, 1ed
53. <i>Linum usitatissimum</i>	<i>Guignardia fulvida</i>	RSA	SARCCUS

HOST	PEST	DISTRIBUTION	REFERENCE
<i>(Flax)</i>	<i>Fusarium oxysporum</i>	Egypt, Ethiopia, Kenya, Zimbabwe	CMI Map 32, 5ed
	<i>Discosphaerina fulvida</i>	Kenya, RSA	IAPSC Map 27, 1985
<i>Linum usitatissimum</i> <i>(Flax)</i> <i>(Continued)</i>	<i>Melampsora lini</i>	Egypt, Ethiopia, Kenya, Libya	CMI Map 18, 5ed SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
	<i>Mycosphaerella linorum</i>	Ethiopia, Kenya, Morocco, Tanzania	
	<i>Meloidogyna arenaria</i>	Malawi, RSA, Zimbabwe	
	<i>M. hapla</i>	RSA	
	<i>M. incognita</i>	Malawi, RSA, Zimbabwe	
	<i>M. javanica</i>	Malawi, RSA, Zimbabwe, Mg. Rep.	
54. <i>Lycopersicon esculentum</i> <i>(Tomato)</i>	<i>Phytophthora cryptogea</i>	Egypt, Zimbabwe	CMI Map 99, 4ed
	<i>Phomopsis vexans</i>	Zimbabwe	SARCCUS, 1988
	<i>Phytophthora capsici</i>	Zimbabwe	SARCCUS, 1988
	<i>Clavibacter michiganense</i> subsp. <i>Michiganense</i>	Kenya, Madagascar, Morocco, RSA, Togo, Tunisia, Uganda, Zimbabwe, Zambia	IAPSA Map 117, 1985
	<i>Cucumber Mosaic virus</i>	Malawi	SARCCUS, 1988
	<i>Tomato spotted wilt virus</i>	Malawi, RSA, Zimbabwe, Tanzania, Madagascar, Mauritius, Uganda	CMI IAPSC 167, 1985, SARCCUS, 1988
	<i>Aphelenchoides bicaudatus</i>	Malawi	SARCCUS, 1988
	<i>Globodera rostochiensis</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Meloidogyne incognita</i>	RSA, Malawi, Zimbabwe, Mozambique	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>M. javanica</i>	RSA, Malawi, Zimbabwe, Mozambique	SARCCUS, 1988
<i>Lycopersicon esculentum</i> (Tomato) (Continued)	<i>Grapho gnatha leucoloma</i> <i>Cyropeltis tenuis</i> <i>Nezara viridula</i> <i>Chrysodeixis acuta</i> <i>Phthorimaea operculella</i> <i>Spodoptera exigua</i> <i>Thrips tabaci</i> <i>T. palmi</i> <i>Tetranychus cinna barinus</i> <i>T. evansi</i> <i>Empoasca flavescens</i> <i>Xestia c-nigrum</i>	RSA Zimbabwe RSA RSA Widespread RSA Widespread Mauritius Widespread in Southern Africa RSA, Zimbabwe West Africa and North Africa North Africa	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
55. <i>Malus pumila</i> (Apple)	<i>Mycosphaerella sentina</i> <i>Phomopsis vexans</i> <i>Phytophthora syringae</i>	RSA Zimbabwe RSA	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Apple Chlorotic leafspot</i>	RSA	Carstens (Pers Comm), 1997
<i>Malus pumila</i> (Apple) (Continued)	<i>Apple mosaic virus</i>	RSA, Kenya, Zimbabwe, Tanzania	CMI Map 354, 2ed
	<i>Apple stem grooving</i>	RSA	Carstens (Pers. Comm)
	<i>Apple rubbery wood</i>	RSA	CMI Map 305, 3ed
	<i>Erwinia amylovora</i>	Egypt	CMI Map 2, 6ed
	<i>Otiornychus cribricollis</i>	North Africa	SARCCUS, 1988
	<i>Phlyctinus callosus</i>	RSA	SARCCUS, 1988
	<i>Phrynetia spinator</i>	RSA	SARCCUS, 1988
	<i>Antestiopsis Spp.</i>	RSA	SARCCUS, 1988
	<i>Dysaphis plantaginea</i>	North Africa	SARCCUS, 1988
	<i>Eriosoma lanigerum</i>	RSA	SARCCUS, 1988
	<i>Parthenolecanium carni</i>	North Africa	SARCCUS, 1988
	<i>P. persicae</i>	North Africa	SARCCUS, 1988
	<i>Pseudococcus calceolaria</i>	RSA	SARCCUS, 1988
	<i>P. obscurus</i>	RSA	SARCCUS, 1988
	<i>Coryphodema tritis</i>	North Africa, RSA	SARCCUS, 1988
<i>Cydia pomonella</i>	North Africa, RSA	SARCCUS, 1988	

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>C. funebrana</i>	Algeria	SARCCUS, 1988
<i>Malus pumila</i> (Apple) (Continued)	<i>C. molesta</i>	Morocco, RSA	SARCCUS, 1988
	<i>C. prunivora</i>	North Africa	SARCCUS, 1988
	<i>Epichoristodes acerbella</i>	Morocco, RSA	SARCCUS, 1988
	<i>Zeuzera pyrina</i>	North Africa	SARCCUS, 1988
	<i>Tortrix capensana</i>	North Africa	SARCCUS, 1988
	<i>Aculus schlechtendali</i>	RSA	SARCCUS, 1988
	<i>Eriphyes pyri</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Bryobia rubrioculus</i>	Mozambique, RSA, Zimbabwe	SARCCUS, 1988
	<i>Eutranychus emeticiae</i>	Angola, RSA	SARCCUS, 1988
	<i>Meloidogyne javanica</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus penetrans</i>	RSA	SARCCUS, 1988
<i>Xiphinema diffusum</i>	RSA	SARCCUS, 1988	
56. <i>Manihot esculentum</i> (Cassava)	<i>Botryosphaeria ribis</i>	Malawi	SARCCUS, 1988
	<i>Botryodiplodia theobromae</i>	Malawi	SARCCUS, 1988
	<i>Phareopsis henningsi</i>	Malawi	SARCCUS, 1988
	<i>Cassava brown streak virus</i>	Mozambique, Zimbabwe, Zanzibar, Kenya, Malawi, Tanzania,	SARCCUS &

HOST	PEST	DISTRIBUTION	REFERENCE
	ASCMV	Zambia, Malawi Nigeria, West Africa	IAPSC Map 150, 1985
<i>Manihot esculentum</i> (Cassava) (Continued)	<i>Cassava mosaic virus</i>	Malawi	SARCCUS, 1988
	<i>Xanthomonas compestris pv manihotis</i>	Cameroon, Democratic Republic Congo, Nigeria, Central African Rep., Ghana, Gambia, Congo, Gabon, Cote d'Ivoire, Togo, Rwanda, Uganda, Mauritius, Niger, Sudan, Tanzania, Madagascar, Med., Benin	IAPSC 140, 1985
	<i>X. campestris pv cassavae</i>	Malawi, Kenya, Uganda, Tanzania, Rwanda	Bradbury, J.F. 1986
	<i>Aonidomytilus albus</i>	Malawi	SARCCUS, 1988
	<i>Bemisia tabaci</i>	RSA	SARCCUS, 1988
	<i>Clythra fasciata</i>	Ghana	SARCCUS, 1988
	<i>Lagria villosa</i>	Ghana	SARCCUS, 1988
	<i>Lonchaea calybea</i>	Ghana	SARCCUS, 1988
	<i>Homocercus palleus</i>	Ghana	SARCCUS, 1988
	<i>Pseudothraupis devastans</i>	West Africa, Zaire	SARCCUS, 1988
	<i>Mononychellus progresivus</i>	Gabon, Nigeria	SARCCUS, 1988
	<i>Tetranychus sayedi</i>	Democratic Republic Congo	SARCCUS, 1988
	<i>T. amicus</i>	Mozambique	SARCCUS, 1988
	<i>T. tanajoa</i>	Mozambique	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Meloidogyne arenaria</i>	Zimbabwe	SARCCUS, 1988
	<i>M. incognita</i>	Zimbabwe, Mozambique	SARCCUS, 1988
	<i>M. javanica</i>	Malawi, Mozambique	SARCCUS, 1988
<i>Manihot esculentum</i> (Cassava) (Continued)	<i>Rotylenchulus reniformis</i>	Mozambique	
57. <i>Mangifera indica</i> (Mango)	<i>Daucus zonatus</i>	RSA	SARCCUS, 1988
58. <i>Medicago sativa</i> (Lucern)	<i>Physoderma alfalfae</i>	RSA	IAPSC 65, 1985, SARCCUS
	<i>Pseudopeziza medicaginis</i>	Canary Islands., Egypt, Uganda, Ethiopia, Libya, Tanzania, Malawi, Morocco, Zimbabwe, Democratic Republic Congo, Zambia	IAPSC Map 79, 1985
	<i>Phoma herbarium var. medicaginis</i>	Libya, Malawi, Zimbabwe, Zambia	CMI Map 263, 3ed
	<i>Corticium rolfsii</i>	Malawi	SARCCUS, 1988
	<i>Uromyces striatus</i>	Malawi	SARCCUS, 1988
	<i>Urophlyctis alfalfae</i>	RSA	SARCCUS, 1988
	<i>Botrytis anthophila</i>	Africa	SARCCUS, 1988
	<i>Alfalfa mosaic virus</i>	RSA	SARCCUS, 1988
	<i>Barley yellow dwarf virus</i>	RSA	SARCCUS, 1988
	<i>Pea mosaic virus</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Lucerne mosaic virus</i>	RSA, Sudan, Tanzania, Kenya	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Graphognathus leucoloma</i>	RSA	SARCCUS, 1988
	<i>Sminthurus viridis</i>	RSA	SARCCUS, 1988
	<i>Acyrtosiphon Kondomi</i>	RSA	SARCCUS, 1988
<i>Medicago sativa</i> (Lucern) (Continued)	<i>A. pisum</i>	RSA	SARCCUS, 1988
	<i>Colias electo</i>	RSA	SARCCUS, 1988
	<i>Hypera postica</i>	North Africa	SARCCUS, 1988
	<i>Otiorynchus cibricollis</i>	North Africa	SARCCUS, 1988
	<i>Therioaphis trifolii</i>	North Africa	SARCCUS, 1988
	<i>Thrips hawaiiensis</i>	Angola, Mozambique	SARCCUS, 1988
	<i>Halotydens destructor</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>Bryobia neopraetiosa</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Petrobia latens</i>	RSA	SARCCUS, 1988
	<i>Tetranychus turbestani</i>	RSA	SARCCUS, 1988
	<i>Ditylenchus dipsaci</i>	RSA	SARCCUS, 1988
	<i>Meloidogyne hapla</i>	RSA, Zimbabwe, Malawi	SARCCUS, 1988
	<i>M. javanica</i>	RSA, Zimbabwe, Malawi	SARCCUS, 1988
	<i>Pratylenchus neslectius</i>	RSA	SARCCUS, 1988
			SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
59. <i>Musa Spp.</i> (<i>Banana, Plantain, Abaca</i>)	<i>Armillariella mellea</i>	Malawi	SARCCUS, 1988
	<i>Colletotrichum musae</i>	Malawi	SARCCUS, 1988
	<i>Fusarium oxysporum f. sp. cubense</i>	RSA	SARCCUS, 1988
	<i>Mycosphaerella fijiensis</i>	Nigeria, Zimbabwe, Rwanda	CMI Map 500, 2ed
<i>Musa Spp.</i> (<i>Banana, Plantain, Abaca</i>) (Continued)	<i>Banana bunchy top virus maguee</i>	Egypt, Democratic Republic Congo, Gabon	IAPSC Map 146
	Banana mosaic	Cameroon, Mauritius, Somalia, Cote d'Ivoire	
	<i>Pseudomonas solanacarum</i>	Widespread	SARCCUS, 1988
	<i>Cosmopolites sardidus</i>	RSA	SARCCUS, 1988
	<i>Aleurocanthus floccoccus</i>	Angola	SARCCUS, 1988
	<i>Aleurodicus dispersus</i>	RSA	SARCCUS, 1988
	<i>Anonidiella aurantii</i>	Southern Africa	SARCCUS, 1988
	<i>Aspidiotus elaeidis</i>	RSA	SARCCUS, 1988
	<i>Chrysomphalus aoridum</i>	RSA	SARCCUS, 1988
	<i>Hemiberlesia lataniae</i>	Malawi, RSA	SARCCUS, 1988
	<i>Chrysodeixis acuta</i>	RSA	SARCCUS, 1988
	<i>Hercinothrips bicinctus</i>	South of Sahara	SARCCUS, 1988
	<i>Pseudococcus comstocki</i>	RSA	SARCCUS, 1988
	<i>Thrips exilicornis</i>	RSA	SARCCUS, 1988
<i>Metamasius hemipterus</i>	West Africa	SARCCUS, 1988	

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Calacarus citrofolii</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Tetranychus amicus</i>	Mozambique, RSA	SARCCUS, 1988
	<i>T. lombardinii</i>	Subtropical Southern Africa	SARCCUS, 1988
	<i>Helicotylenchus multicinctus</i>	Malawi, RSA	SARCCUS, 1988
<i>Musa Spp.</i> (<i>Banana, Planteriiin,</i> <i>Abaca</i>) (Continued)	<i>Hemicriconemoides mangiferae</i>	Malawi, RSA	SARCCUS, 1988
	<i>Meloidogyne arenaria</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>M. incognita</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>M. javanica</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus brachyurus</i>	RSA	SARCCUS, 1988
	<i>P. coffeae</i>	Malawi, Mozambique, RSA	SARCCUS, 1988
	<i>P. zea</i>	Malawi, RSA	SARCCUS, 1988
	<i>Rhodophulus similis</i>	Malawi, Mozambique, RSA, Zambia, Zimbabwe	SARCCUS, 1988
	<i>Xiphinema diffusum</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
60. <i>Nerium oleander</i>	<i>Pseudomonas syringae pv savastanoi</i>	Algeria, Libya, Morocco, South Africa, Tanzania, Tunisia	IAPSC 129, 1985
61. <i>Nicotiana tabacum</i> (<i>Tobacco</i>)	<i>Colletotrichum tabacum</i>	Malawi, Mozambique, Mauritius, Zimbabwe, South Africa, Tanzania, Zambia	IAPSC Map 22, 1985
	<i>Pithium aphanidermatum</i>	Malawi	SARCCUS, 1988
	<i>Rhizopus arrhizus</i>	Malawi	SARCCUS, 1988
	<i>Tobacco Kromnek virus</i>	Malawi	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Cucumber mosaic virus</i>	Malawi	SARCCUS, 1988
	<i>Tobacco mottle virus</i>	Malawi, Zimbabwe	SARCCUS, 1988
	<i>Tobacco ringspot virus</i>	Malawi, Morocco, Democratic Republic Congo	SARCCUS, 1988
<i>Nicotiana tabacum</i> (Tobacco) (Continued)	<i>Tobacco vein distortion virus</i>	Malawi	SARCCUS, 1988
	<i>Pseudomonas syringae pv tabaci</i>	Congo, Kenya, Morocco, Mozambique, RSA, Mauritius, Zambia, Malawi, Uganda, Zimbabwe, Democratic Republic Congo	SARCCUS, 1988
	<i>Erwinia carotovara</i>	Malawi	SARCCUS, 1988
	<i>Oulema bilineata</i>	RSA	SARCCUS, 1988
	<i>Delia platura</i>	RSA	SARCCUS, 1988
	<i>Cyrtopeltis tenuis</i>	Zimbabwe	SARCCUS, 1988
	<i>Nezara viridula</i>	RSA	SARCCUS, 1988
	<i>Myzus persicae</i>	RSA	SARCCUS, 1988
	<i>Scrobipalpa heliopa</i>	RSA	SARCCUS, 1988
	<i>Spodoptera exigua</i>	RSA	SARCCUS, 1988
	<i>Thrips tabaci</i>	RSA	SARCCUS, 1988
	<i>Brevipalpus californicus</i>	Mozambique, RSA, Zimbabwe	SARCCUS, 1988
	<i>Tetranychus evansi</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Meloidogyne arenaria</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>M. hapla</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>M. incognita</i>	Malawi, RSA, Zambia, Zimbabwe	SARCCUS, 1988
	<i>M. javanica</i>		SARCCUS, 1988
<i>Nicotiana tabacum</i> (Tobacco) (Continued)	<i>Pratylenchus brachyurus</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Xiphinema variabile</i>	RSA	SARCCUS, 1988
62. <i>Olea europa</i> (Olive)	<i>Mycocentrospora cladosporioides</i>	Algeria, Tunisia	IAPSC Map 48, 1985
	<i>Spilocaeta oleagino</i>	Egypt, Algeria, Ethiopia, Libya, Morocco, Somalia, RSA, Tunisia	IAPSC Map 95, 1985
	<i>Pseudomonas syringae</i> pv. <i>savastanci</i>	Algeria, Libya, Morocco, Tanzania, Tunisia	IAPSC 129, 1985
	<i>Argopistes</i> spp.	RSA	SARCCUS, 1988
	<i>A. oleae</i>	RSA	SARCCUS, 1988
	<i>A. sexvittatus</i>	RSA	SARCCUS, 1988
	<i>Dacus oleae</i>	RSA, Algeria, Canary Islands, Egypt, Tunisia, Ethiopia, Kenya, Libya, Morocco	IAPSC 208, 1985
	<i>Pherochila australis</i>	RSA	SARCCUS, 1988
	<i>Aoridiella aurantii</i>	RSA	SARCCUS, 1988
	<i>Lepidosaphes beckii</i>	Malawi, RSA	SARCCUS, 1988
	<i>Saissetia oleae</i>	RSA	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Coryphodema tritis</i> <i>Prays oleae</i> <i>Xiphenema diffusum</i>	RSA Algeria, Canary Is., Egypt, Libya, Morocco, Tunisia RSA, Gambia, Malawi, Madagascar, Cote d'Ivoire	SARCCUS, 1988 IAPSC Map 208, 1985 SARCCUS
63. <i>Opuntia spp.</i>	<i>Phytophthora cactorum</i>	Kenya, Morocco, Senegal, Zimbabwe, RSA	IAPSC Map 67, 1985
64. <i>Orchid</i>	<i>Aphelenchoides besseyi</i> <i>Thrips palmi</i>	RSA Reunion, Mauritius, Madagascar	SARCCUS, 1988 SARCCUS, 1988
65. <i>Oryza sativa</i> (Rice)	<i>Monographella albescens</i> <i>Sclerophthora macrospora</i> <i>Tilletia barclayana</i> <i>Xanthomonas oryzae</i> pv <i>oryzae</i> <i>Xanthomonas oryzae</i> pv <i>oryzicola</i> <i>Rice yellow mottle virus</i> <i>Spodoptera exigua</i> <i>Abacarus hystrix</i> <i>Laodelphyx striatella</i> <i>Ditylenchus angustus</i> <i>Hirschmanniella oryzae</i>	Ghana, Cote d'Ivoire, Liberia, Nigeria, Lesotho, Zambia, Sierra Leone, Tanzania Ethiopia, RSA, Mauritius, Tunisia Sierra Leone, Togo Cameroon, Niger, Mali, Senegal, Togo Senegal Kenya RSA RSA North Africa Benin, Madagascar, Egypt, Nigeria, Sierra Leone, Burkina Faso, Cote d'Ivoire Coast, Gambia, Ghana, Mali, Mauritiana, Senegal	IAPSC Map 47, 1985 IAPSC Map 92, 1985 IAPSC Map 99, 1985 IAPSC Map 141, 1985 CMI Map 463 2ed SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 IAPSC Map 302, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Aphelenchoides besseyi</i>	Southern Africa	IAPSC Map 304, 1985
	<i>Meloidogyne arrenaria</i>	Malawi, RSA, Zimbabwe	I/APSC Map 304, 1985
	<i>M. javanica</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus zea</i>	RSA, Mauritius, Malawi, Zimbabwe	SARCCUS, 1988
<i>Oryza sativa</i> (Rice)	<i>Scutellonema brachyurus</i>	Malawi, RSA, Zimbabwe	
66. <i>Paspalum</i>	<i>Meloidogyne graminicola</i>	South Africa	SARCCUS, 1988
67. <i>Persea americana</i> (Avocado pear)	<i>Sphaceloma perseae</i>	RSA, Zambia, Morocco, Zimbabwe, Guinea	IAPSC Map 97, 1985
	<i>Phytophthora cinnamomi</i>	RSA	SARCCUS, 1988
	<i>Advocado sun blotch viroid</i>	RSA	SARCCUS, 1988
	<i>Pterandrus rosa</i>	Malawi, RSA, Swaziland	SARCCUS, 1988
	<i>Pseudotheraptus wayi</i>	RSA	SARCCUS, 1988
	<i>Hemiberlesia lataniae</i>	RSA, Malawi	SARCCUS, 1988
	<i>Protopulvinaria pyriformis</i>	RSA	SARCCUS, 1988
	<i>Pseudococcus longispinus</i>	RSA	SARCCUS, 1988
	<i>Cryptophlebia leucotreta</i>	RSA	SARCCUS, 1988
	<i>Xyloborus farnicatus</i>	Reunion, Malagasy Rep.	SARCCUS, 1988
	<i>Aleurodicus dispersus</i>	RSA	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Selenothrips rubrocinctus</i>	RSA	SARCCUS, 1988
	<i>Heliothrips haemorrhoidalis</i>	RSA	SARCCUS, 1988
	<i>Pratylenchus brachyurus</i>	RSA	SARCCUS, 1988
	<i>P. pratensis</i>	RSA	SARCCUS, 1988
68. <i>Pelargonium sp</i>	<i>Xanthomonas hortorum pv pelargonii</i>	Egypt, Morocco, South Africa	CMI Map 414 2ed
69. <i>Phaseolus spp.</i> (<i>Lima and field beans</i>)	<i>Elsinoë phaseoli</i>	Kenya, Malawi, Uganda, Zambia, Zimbabwe, Rwanda, Tanzania	IAPSC Map 29, 1985
	<i>Clavigralle tomentosicollis</i>	Southern Africa	SARCCUS, 1988
	<i>Meloidogyne arenaria</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>M. hapla</i>	RSA, Zimbabwe, Malawi	SARCCUS, 1988
	<i>M. incognita</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>M. javanica</i>	Malawi, RSA, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus brachyurus</i>	RSA, Zimbabwe	SARCCUS, 1988
	<i>Liriomyza sativae</i>	Nigeria, RSA.	SARCCUS, 1988, IAPSC Map 237
70. <i>Phoenix dactylifera</i> (<i>Date palm</i>)	<i>Fusarium oxysporum fsp albedinis</i>	Algeria, Morocco, Egypt, Mauritania	IAPSC Map 31, 1985
	<i>Mauginiella scaettae</i>	Algeria, Libya, Egypt, Mauritania, Morocco, Tunisia	IAPSC 41, 1985
71. <i>Picea spp.</i>	<i>Phaeolus schweinitzii</i>	Morocco, South Africa, Madagascar	IAPSC 63, 1985
72. <i>Pinus spp.</i>	<i>Lophodernium pinastri</i>	Malawi, Zimbabwe	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
73. <i>Populus spp.</i> (<i>Popular</i>)	<i>Melampsora medusae</i> Thum		CMI Map 547 1ed 1982

HOST	PEST	DISTRIBUTION	REFERENCE
74. <i>Pisum spp.</i> (<i>Peas</i>)	<i>Phaseolus schweinitzii</i> (Fr) Pat.	Morocco, Madagascar, South Africa	IAPSC 63
	<i>Pseudomonas syringae p.v. pisis</i> (sackett) Young Dye & Wilkie	Kenya, Malawi, Morocco, South Africa, Tanzania, Zimbabwe	IAPSC Map 129
	<i>Cucumber mosaic virus</i>	Malawi	SARCCUS, 1988
	<i>Meloidogyne incognita</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Spodoptera exigua</i>	South Africa	SARCCUS, 1988
	<i>Acyrtosiphon pisum</i>	South Africa	SARCCUS, 1988
	<i>Graphognathus leucoloma</i>	South Africa	SARCCUS, 1988
75. <i>Prunus spp.</i> (<i>Cherry, plum, peach, almond</i>)	<i>Pseudomonas syringaa pv mors prunorum</i> Wermald	South Africa	CMI Map 132, 3ed
	<i>Monilinia laxa</i> Aderh & Rhul	Morocco, South Africa	CMI Map 44, 4ed
	<i>Erwinia anylovora</i>	RSA	SARCCUS, 1988
	<i>Xathomonas pruni</i> (E.F. Smith) Dowson	Zimbabwe, South Africa	CMI 340, 3ed
	<i>Phytophthora syringae</i>	RSA	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Xiphinema diffusum</i>	RSA	SARCCUS, 1988
	<i>Meloidogyne javanica</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus pratensis</i>	RSA	SARCCUS, 1988
<i>Prunus spp.</i> (Cherry, plum, peach, almond) (Continued)	<i>Pratylenchus coffeae</i>	RSA	SARCCUS, 1988
	<i>Criconemella xenoplax</i>	RSA	SARCCUS, 1988
	<i>Aculus cornutus</i>	RSA	SARCCUS, 1988
	<i>Tortrix capensana</i>	RSA	SARCCUS, 1988
	<i>Serrodes partita</i>	RSA	SARCCUS, 1988
	<i>Epichoristodes acerbella</i>	RSA	SARCCUS, 1988
	<i>Pseudococcus obscurus</i>	RSA	SARCCUS, 1988
	<i>Pseudaulacaspis pentagona</i>	RSA	SARCCUS, 1988
	<i>Pardalaspis quinaria</i>	RSA	SARCCUS, 1988
	<i>Xyleborus xylographus</i>	RSA	SARCCUS, 1988
	<i>Phrynetia spinator</i>	RSA	SARCCUS, 1988
	<i>Phlyctinus callosus</i>	RSA	SARCCUS, 1988
	<i>Pachnoda sinuata</i>	RSA	SARCCUS, 1988
76. <i>Pyrus communis</i> (Pear)	<i>Erwinia amylovora</i> (Burrill Winslow et al)	Egypt	IAPSC Map 120

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Monilinia fructigena</i> Honey <i>Venturia pirina</i> <i>Mesocriconemella xenoplax</i>	Morocco, Egypt Canary Island Libya, Madagascar, Mozambique Mozambique, South Africa, Madagascar South Africa	IAPSC Map 44 CMI Map 367, 3ed SARCCUS, 1988 SARCCUS, 1988
<i>Pyrus communis</i> (Pear) (Continued)	<i>Panonychus citri</i> <i>Oligonychus coffeae</i> <i>Eriophyes pyri</i> <i>Pseudococcus calceolariae</i> <i>Eriosoma lanigerum</i> <i>Antestiopsis spp.</i> <i>Phryneta spinator</i> <i>Phlyctinus callosus</i>	South Africa South Africa South Africa, Zimbabwe South Africa, Zimbabwe South Africa, Zimbabwe South Africa, Zimbabwe South Africa, Zimbabwe South Africa, Zimbabwe	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
77. <i>Raphanus sativus</i> (Radish)	<i>Cauliflower mosaic virus</i> Tompkins	Zimbabwe, Sierra Leone, South Africa, Tanzania, Zambia	IAPSC Map 152
78. <i>Saccharum officinarum</i> (Sugar cane)	<i>Sugarcane chlorotic Streak Wil.</i> <i>Xanthomonas axonopodis pv. vascularum</i> (Cobb.) Dye <i>Xanthomonas albilineans</i> <i>Urocystis scitaminea</i>	Madagascar, Mali, Mauritius, Mozambique, South Africa Ghana, Madagascar, Madeira, Malawi, Mauritius, Mozambique, South Africa, Swaziland, Zimbabwe Malawi Malawi, Mozambique, South Africa, Zimbabwe	IAPSC Map 162 IAPSC Map 144 SARCCUS, 1988 SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Sclerophthora macrospora</i>	South Africa, Mauritius	SARCCUS, 1988
	<i>Puccinia erianthi</i>	Malawi	SARCCUS, 1988
	<i>Maize dwarf mosaic virus</i>	Southern Africa	SARCCUS, 1998
	<i>Chilo sacchariphagus</i>	Madagascar, Mauritius, Reunion	Iapsc 200
Saccharum officinarum (Sugar cane) (continued)	<i>Tylenchorhynchus annulatus</i> (<i>Cassidy</i>) <i>golden</i>	Madagascar, Nigeria, Egypt, Gambia, Senegal, Sierra Leone	IAPSC Map 308
	<i>Ximphinema difusum</i>	Mauritius, South Africa, Madagascar	SARCCUS, 1988
	<i>Pratylenchus penetrans</i>	South Africa	SARCCUS, 1988
	<i>Meloidogyne javanica</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Meloidogyne incognita</i>	Malawi, Mauritius, Zimbabwe, South Africa	SARCCUS, 1988
	<i>Meloidogyne arenariae</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Sesamia calamiste</i>	South Africa	SARCCUS, 1988
	<i>Eldana saccharina</i>	South Africa	SARCCUS, 1988
	<i>Perkinsiella saccharacida</i>	South Africa	SARCCUS, 1988
	<i>Numicia viridis</i>	South Africa	SARCCUS, 1988
	<i>Melanaphis sacchari</i>	South Africa	SARCCUS, 1988
	<i>Schizonyha affinis</i>	South Africa	SARCCUS, 1988
	<i>Hypopholis sommeri</i>	South Africa	SARCCUS, 1988
	<i>Heteronychys sanctae-helenae</i>	South Africa	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Heteronychus licas</i>	South Africa	SARCCUS, 1988
	<i>Perkinsiella saccharicida</i> (Kirkaldy) <i>Sugarcane fiji disease</i>	South Africa, Comoro Islands, Madagascar, Mauritius, Swaziland Madagascar	CMI Map 215 4ed 1981 IAPSC 63 IAPSC Map 261
79. <i>Sesamum indicum</i> (Sesame)	<i>Pseudomonas syringae</i> pv. <i>sesami</i> (Malkoff) Young, Dye & Wilkie	Tanzania, Somali, Sudan, Uganda, South Africa	IAPSC Map 130
	<i>Vericillum dahliae</i> (kleb)	Democratic Republic Congo, Kenya, Mozambique, Zimbabwe, Tanzania, Uganda, Egypt, Zambia, Madagascar, Rwanda, South Africa, Morocco	IAPSC Map 113
80. <i>Secale cereale</i> (Rye)	<i>Xanthomonas translucens</i> pv <i>undulosa</i> (Smith, Jones, Reddy) Dye	Ethiopia, Kenya, South Africa, Tanzania, Tunisia	CMI 264 IAPSC Map 143
	<i>Abacarus hystrix</i>	South Africa	SARCCUS, 1988
81. <i>Solanum tuberosum</i> (Potato)	<i>Phoma exigua</i> Var <i>exiquo</i> (Foister) Boe <i>rema</i>	Morocco, Egypt, Algeria	CMI Map 210 3ed
	<i>Synchytrium endobioticum</i>	South Africa	IAPSC Map 73
	<i>Phytophthora erythroseptica</i>	Egypt	IAPSC Map 72
	<i>Phytophthora infestans</i>	Malawi	SARCCUS, 1988
	<i>Cucumber mosaic virus</i>	Malawi	SARCCUS, 1988
	<i>Globodera rostochiensis</i> (Wollenweba) <i>Berens</i>	Algeria, Morocco, Tunisia, South Africa, Canary Islands	IAPSC Map 303
	<i>Ralstonia Pseudomonas solanacearum</i> (E.F. Smith) E.F. Smith	Southern Africa	IAPSC Map 126
	<i>Meloidogyne javanica</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Meloidogyne incognita</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
<i>Solanum tuberosum</i> (Potato) (continued)	<i>Meloidogyne hapla</i> <i>Meloidogyne arenaria</i> <i>Tetranychus evansi</i> <i>Spodoptera exigua</i> <i>Phythoraimea operculella</i> <i>Myzus persicae</i> <i>Empoasca citrusa</i> <i>Bagrada hilaris</i> <i>Solonophila dregei</i> <i>Sciobius horni</i> <i>Heteronychus arator</i> <i>Liriomyza sativae</i>	Malawi, South Africa, Zimbabwe Malawi, South Africa, Zimbabwe South Africa, Zimbabwe South Africa Southern Africa South Africa South Africa Southern Africa South Africa South Africa South Africa Nigeria, RSA.	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988, IAPSC map 237
82. <i>Sorghum</i> spp.	<i>Xanthomonas vasicola</i> pv. <i>holcicola</i> (Elliot) Dye <i>Xanthomonas vasiola</i> pv. <i>vasculorum</i> <i>Pseudomonas andropogoni</i> E.F. Smith)	Ethiopia, South Africa Malawi, South Africa, Zimbabwe Ethiopia, Kenya, South Africa, Sudan, Uganda, Zimbabwe,	IAPSC Map 138 SARCCUS, 1988 IAPSC Map 122

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>stapp</i> <i>Cochliobolus carbonum</i>	Zambia Angola, Cameroon, Egypt, Kenya, Malawi, Tanzania, Zambia, Democratic Republic of Congo, South Africa, Zimbabwe	IAPSC Map 17
<i>Sorghum spp.</i> (continued)	<i>Meloidogyne incognita</i> <i>Meloidogyne hapla</i> <i>Petrobia latents</i> <i>Chilo partellus</i> <i>Busseola fusca</i> <i>Sitobion avenae</i> <i>Schizaphis graminum</i> <i>Rhopalosiphum maydis</i> <i>Melanaphis sacchari</i> <i>Calidea dregii</i> <i>Contarinia sorghicola</i>	Malawi, South Africa, Zimbabwe, Madagascar South Africa South Africa South Africa South Africa South Africa South Africa South Africa South Africa South Africa South Africa	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988
83. <i>Spinacia oleracea</i> (Spinach) <i>Cacao and all Theobroma spp</i>	<i>Peronospora farinosa</i> Fr. F. sp. betae Byford <i>Solanophila dregei</i> <i>Distantiella theobroma</i> <i>Meloidogyne javanica</i>	Kenya, Morocco, South Africa, Tanzania, Zimbabwe South Africa West and central Africa Malawi, South Africa, Zimbabwe	IAPSC Map 59, 1985 SARCCUS, 1988 CIE Map 21 SARCCUS, 1988
84. <i>Trifolium spp.</i>	<i>Stemphylium sariniforme</i> (Cavara) Wiltst.	Morocco, Zimbabwe	IAPSC Map 96, 1985

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Kabatiella caulivora</i> (E. Kirchn.) Karak	Morocco	IAPSC Map 38, 1985
85. <i>Triticum</i> spp. (Wheat)	<i>Pseudocercospora herpotrichoides</i> (From) Deighton <i>Pythium graminicola</i> Subram <i>Sclerophthora macrospora</i> , (Sacc) Thirum. C. Shaw & Narasimham <i>Tilletia controversa</i> Kuhn <i>Tilletia tritici</i> (Bjerk) R. Wolff <i>Urocystis agropyri</i> (Preuss) Schroeten <i>Xanthomonas translucens</i> pv <i>translucens</i> (Jones & Reddy) Dye pv <i>Eremnus cerealis</i> <i>Macchiademus diplopterus</i> <i>Cicadulina mbila</i> <i>Diceraphis noxia</i> <i>Metopolophium dirhodum</i> <i>Schizaphis grarientum</i> <i>Sitobion avenae</i>	Morocco, Tunisia, South Africa Sudan, South Africa Ethiopia, Tunisia, South Africa, Uganda Libya, Morocco Algeria, Egypt, Ethiopia, Lesotho, Libya, Morocco, Tunisia, Uganda, Zimbabwe Egypt, Morocco, South Africa, Tunisia Ethiopia, Kenya, Tanzania South Africa South Africa South Africa South Africa South Africa South Africa South Africa South Africa	IAPSC Map 77, 1985 CMI Map 296 2ed IAPSC Map 92, 1985 IAPSC Map 100, 1985 IAPSC Map 101, 1985 IAPSC Map 104, 1985 IAPSC Map 112, 1985 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Metahaepialus xenocentis</i>	South Africa	SARCCUS, 1988
	<i>Sesamia calamistes</i>	South Africa	SARCCUS, 1988
<i>Triticum spp.</i> (Wheat) (continued)	<i>Abacarus hystrix</i>	South Africa	SARCCUS, 1988
	<i>Petrobia lateno</i>	South Africa	SARCCUS, 1988
	<i>Meloidogyne arenaria</i>	Malawi, South Africa, Zimbabwe, South Africa	SARCCUS, 1988
	<i>Meloidogyne hapla</i>	South Africa	SARCCUS, 1988
	<i>M. incognita</i>	Malawi, Mauritius, South Africa, Zimbabwe, Madagascar	SARCCUS, 1988
	<i>M. javanica</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus brachyurus</i>	South Africa, Zimbabwe	SARCCUS, 1988
	Wheat streak mosaic virus	Malawi, Zimbabwe	SARCCUS, 1988
	<i>Ophiobolus graminis</i>	South Africa	SARCCUS, 1988
	<i>Septoria tritici</i>	Angola, South Africa	SARCCUS, 1988
86. <i>Tulipa Spp.</i> (Tulip)	<i>Phytophthora erythroseptica</i> <i>Pethybr.</i>	Egypt	IAPSC 72, 1985
	<i>Botrytis tulipae</i> (Lind)		CMI Map 170 3ed 1978
87. <i>Ulmus spp.</i> (Elm)	<i>Verticillium albo-atrum</i> Reinke & Berthold	Angola, Zaire, Madagascar, Morocco, Malawi, Zimbabwe, Tanzania, Tunisia, Ethiopia, Kenya, Nigeria, RSA	IAPSC Map 112, 1985
88. <i>Vicia spp.</i> (Broad bean)	<i>Ascochyta fabae</i> sp. nov.	Egypt, Morocco	IAPSC 513 1ed
	<i>Delia platura</i>	South Africa	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Vitis</i> spp. (Grapevine) (continued)	<i>Longidorus pisi</i>	South Africa	SARCCUS, 1988
	<i>Meloidogyne arenaria</i>	Malawi, Zambia, Zimbabwe	SARCCUS, 1988
	<i>M. incognita</i>	Malawi, South Africa, Zimbabwe	SARCCUS, 1988
	<i>Pratylenchus penetrans</i>	South Africa	SARCCUS, 1988
	<i>Tylenchulus semipenetrans</i>	South Africa	SARCCUS, 1988
	<i>Xiphinema difusum</i>	South Africa	SARCCUS, 1988
	<i>Paralongidorus maximum</i>	South Africa	
	<i>X. index</i>	South Africa	SARCCUS, 1988
	<i>X. italiae</i>	South Africa	
	<i>Grapevine corky bark virus</i>	South Africa	SARCCUS, 1988
	<i>Grapevine fanleaf virus</i>	South Africa	SARCCUS, 1988
	<i>Grapevine fleck virus</i>	South Africa	SARCCUS, 1988
	<i>Grapevine leaf roll virus</i>	South Africa	SARCCUS, 1988
	<i>Grapevine stem grooving virus</i>	South Africa	SARCCUS, 1988
	<i>Eutypa armeniaca</i>	South Africa	SARCCUS, 1988
<i>Elsinoe ampelina</i>	Mozambique, South Africa, Zimbabwe	SARCCUS, 1988	
<i>Phomopsis viticola</i>	South Africa	SARCCUS, 1988	

HOST	PEST	DISTRIBUTION	REFERENCE
	<i>Phytophthora cinnamoni</i>	South Africa	SARCCUS, 1988
90. <i>Vigna unguiculata</i> (Cow pea)	<i>Phytophthora vignae</i> (Purss)	Asia, Australia	CMI Map 512 1ed 19766 SARCCUS, 1988
91. <i>Zantedaschia</i> spp. (Calla Lily)	<i>Phytophthora erythroseptica</i> Pethybr.	Egypt	IAPSC 72, 1985
92. <i>Zea mays</i> (Maize)	<i>Pythium arrhenomanes</i> Drechsler	Botswana, Mauritius, South Africa	CMI Map 420 2ed
	<i>Ustilago maydis</i>	Mozambique, South Africa, Zimbabwe, W. Africa	SARCCUS, 1988
	<i>Astylus atromaculatus</i>	South Africa	SARCCUS, 1988
	<i>Heteronychus sanctae-helenae</i>	South Africa	SARCCUS, 1988
	<i>Cicadulina mbila</i>	South Africa	SARCCUS, 1988
	<i>Rhopalosiphum maydis</i>	South Africa	SARCCUS, 1988
	<i>Sitobion avenae</i>	South Africa	SARCCUS, 1988
	<i>Busseola fusca</i>	South Africa	SARCCUS, 1988
	<i>Chilo partellus</i>	South Africa	SARCCUS, 1988
	<i>Mussidia nigrinivella</i>	Mozambique	SARCCUS, 1988
	<i>Sesamia calamistes</i>	South Africa	SARCCUS, 1988
	<i>Spodoptera exigua</i>	South Africa	SARCCUS, 1988
	<i>Tetranychus urticae</i>	South Africa	SARCCUS, 1988

HOST	PEST	DISTRIBUTION	REFERENCE
<i>Zea mays</i> (Maize) (continued)	<i>Longidorus monile</i> <i>Meloidogyne arenaria</i> <i>Meloidogyne incognita</i> <i>M. javanica</i> <i>Pratylenchus brachyurus</i> <i>P. pratensis</i> <i>P. zaeae</i> Maize dwarf mosaic virus Wheat streak mosaic virus <i>Trycoderma granarium</i> <i>Protephanus muncatus</i> <i>Sclerospora maydis (Racib) Butler</i>	South Africa South Africa Malawi, Mauritius, South Africa, Zimbabwe, Madagascar Malawi, South Africa, Zimbabwe South Africa, Zimbabwe South Africa Malawi, Mauritius, South Africa, Zimbabwe Southern Africa Malawi, Zimbabwe West Africa	SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 SARCCUS, 1988 CMI Map 510 1ed 1976

A2 SeedBorne pests with limited distribution in Africa.

No.	HOST	PEST	DISTRIBUTION	REFERENCE
1	Allium spp. (Onion, Leeks, etc.)	Onion yellow dwarf virus Melhus, Raddy, Henderson	Morocco, South Africa	IAPSC Map 160, 1985
		<i>Peronospora destructor</i> (Berk) <i>Casp</i>	Egypt, Ethiopia, Kenya, Libya, Mauritius, Morocco, Zimbabwe, South Africa, Tanzania	IAPSC Map 58, 1985
		<i>Urocystis cepulae</i> Frost	Uganda, Egypt, Gabon, Morocco, North and West Africa	IAPSC Map 105, 1985
		<i>Sclerotium cepivorum</i> Berk	Egypt, Libya, Zimbabwe, South Africa, Uganda, Mauritius	IAPSC Map 93 1985
		<i>Botryotinia squamosa</i> viennot- <i>Bourgin</i>	Mauritius	IAPSC Map 8 1985
		<i>Puccinia allii</i> Rud, Syn. <i>Puccinia porin</i> Wint	Algeria, Morocco, Tunisia, Libya, Egypt, Ethiopia, Kenya, Mauritius, Mozambique, South Africa, Canary Islands, Tanzania, Uganda, Zimbabwe, Democratic Republic of Congo	IAPSC Map 81 1985
2	<i>Antirrhium majus</i>	<i>Peronospora antirrhini</i> Schret	Mauritius, South Africa	Map 222, 3ed 1983
3	<i>Arachis hypogea</i> (Groundnut)	<i>Puccinia arachidis</i> Speg.	Botswana, Ethiopia, Ghana, Kenya, Malawi, Mauritius, Mozambique, Niger, Nigeria, Somalia, Sudan, Tanzania, Uganda, Democratic Rep. of Congo, Zambia, Zimbabwe,	IAPSC Map 82, 1985
	<i>Arachis hypogea</i> (Cont.)	Groundnut Rosette Virus	Malawi	Sarccus, 1988

4	Avena sativa (Oats)	<i>Pseudomonas striafaciens</i> Starr & Burkholder	Algeria, Morocco, Tunisia	CMI Map 363 2ed 1975
		<i>Sclerospora macrospora</i> (sacc.) Thirum Shwa & Narasimham	Ethiopia, Mauritius, South Africa, Tunisia, Uganda	IAPSC Map 92, 1985
5	Beta vulgaris (Beets)	<i>Heterodera schacti</i>	South Africa	Sarccus, 1988
		<i>Pleospora betae</i> (Berl) Novodovsky	Egypt, Morocco, South Africa, Tanzania	IAPSC Map 76, 1985
		Cucumber mosaic virus	Malawi	Sarccus, 1988
6	Brassica spp.	Cabbage black ring spot virus Smith	Zimbabwe, South Africa, Zambia	CMI Map 372 2ed, 1972
		Cauliflower Mosaic virus Pompin	Zimbabwe, Sierra Leone, South Africa, Tanzania, Zambia	IAPSC Map 152, 1985
		<i>Fusarium oxysporium</i> Schlecht Ex Fr. f. sp. <i>conglutinans</i> (Wollenw) Snyder & Hansen	Morocco, Zimbabwe	CMI Map 54 4ed
		<i>Letopsphaeria maculans</i> Ces & de Not.	Egypt, Ethiopia, Kenya, Mozambique, Nigeria, Zimbabwe, South Africa, Zambia	IAPSC Map 39, 1985
		<i>Mycosphaerella brassicola</i> (Duby) Dindau	Ethiopia, Ghana, Morocco, Kenya, South Africa, Uganda, Tunisia	IAPSC Map 52, 1985
				REFERENCE
	Brassica spp. (Cont.)	<i>Xanthomonas campestris</i> pv.	Angola, Ethiopia, Ghana, Kenya, Libya,	IAPSC Map 135, 1985

		<i>campestris (Pamnel) Dowson</i>	Malawi, Mauritius, Morocco, Mozambique,	
		<i>Cucumber mosaic Virus</i>	Malawi	Sarccus, 1988
7	Capsicum spp. (Sweet Pepper, chilli)	<i>Cercospora capsici</i> Heald & Wolf	Ghana, Zimbabwe, Sierra Leone, Sudan, Tanzania, Mauritius, Zambia, Malawi	IAPSC Map 15, 1985
		Tomato spotted wilt virus Samuel, Bald & Pittman	Tanzania, Madagascar, Mauritius, South Africa, Zimbabwe	IAPSC Map 167, 1985
		Alfalfa Mosaic Virus Wermer	South Africa, Kenya, Sudan, Tanzania	IAPSC Map 159, 1985
		<i>Phytophthora capsici</i>	Zimbabwe	Sarccus, 1988
8	Carthamus tinctorius (Sufflower)	<i>Puccinia carthami</i> Corda Leonian	Egypt, Ethiopia, Kenya, Sudan	CMI Map 424 2ed
9	Cereals	Barley yellow dwarf virus Oswald & Houston		CMI IAPSC Map 146, 1985
10	Chicorium spp. (Chicory)	<i>Pseudomonas cichorii</i> (Swingle) Stapp.	South Africa, Tanzania	CMI Map 553 1ed
11	Chrysanthemum cinerarifolium	<i>Mycosphaerella ligulicola</i> Baker, Dimock & Davis	Kenya, Malawi, Zimbabwe, Tanzania	CMI Map 406 2ed
12	Cicer arietinum	<i>Ascochyta rabiei</i> (Pass) Labrousse	Algeria, Ethiopia, Morocco, Tanzania	CMI Map 151 3ed
		<i>Uromyces ciceri-arietini</i> (Groggn.) Jaez	Ethiopia, Kenya, Libya, Malawi, Morocco	CMI Map 235 3ed
13	Citrus spp.	<i>Cercospora angolensis</i> Carr & Mendes	Angola, Cameroon, Gabon, Central African Rep., Zambia, Mozambique, Nigeria, Uganda, Democratic Rep. of Congo, Zimbabwe	IAPSC Map 13, 1985
	Citrus spp. (Continued)	<i>Xanthomonas campestris</i> pv. <i>Citrii</i>	Democratic Republic of Congo, Mauritius,	IAPSC Map 136, 1985

		<i>(Masse) Dye</i> <i>Citrus tristeza virus Meneghini</i>	Seychelles, Côte d'Ivoire, Rodriguez Island, Madagascar, Mozambique, Gabon Algeria, Cameroon, Central African Republic, Chad, Egypt, Gabon, Ghana, Kenya, Reunion Island, Tanzania, Uganda, Democratic Republic of Congo, Zambia, Zimbabwe	IAPSC Map 154, 1985
14	Colocasia & Xanthosoma spp.	<i>Phytophthora colocasiae</i> Racib.	Ethiopia, Fernandopo	CMI Map 146 1ed
15	Cocos nucifera Alcon (C. Bernard) (Coconut)	<i>Marasmiellus cocophilus</i> <i>Ceratocystis fimbriata</i> Pegler Ell. & Halsted <i>Thielaviopsis basicola</i> (Berk & Broome) Ferraris <i>Bipolaris incurvata</i> J.D Coconut lethal yellowing	<i>Kenya, Tanzania</i> Ghana, Congo, Côte d'Ivoire, Seychelles, South Africa, Uganda, Democratic Republic of Congo, Azores, Cape Verde Democratic Republic of Congo, Egypt, Morocco, Zimbabwe, South Africa Seychelles <i>Togo, Ghana, Nigeria, Benin, Cameroon</i>	CMI Map 515 5ed IAPSC Map 10, 1985 IAPSC Map 98, 1985 IAPSC Map 5, 1985 IAPSC Map 119, 1985
16	Coffea spp.	<i>Hemileia coffeicola</i> Maubl. & Roger	Nigeria, Sao Tome, Principe, Togo, Uganda, Democratic Republic of Congo	CMI Map 470 2ed
17	Cola spp.	Swollen Shoot & Marasmius scandes	Cameroon, Ghana, Cote d'Ivoire, Nigeria, Sierra Leone, Central African Rep., Togo, Gabon, Guinea, Morocco, Zimbabwe	IAPSC Map 214, 1985
18	Cucumis sativus and other Cucurbitaceae	<i>Erwina tracheiphila</i> (Smith) Bergey et al	Congo, South Africa	CMI Map 456 2ed
19	Cucumis sativus and	<i>Fusarium oxysporum</i> Schlecht. Ex	Morocco, Zimbabwe	CMI Map 496 2ed

	other cucurbitaceae (Continued)	<i>Fr. f. sp. Melonis Snyder & Hansen</i> <i>Fusarium oxysporum f. sp. Cucumerinum Owen</i> <i>Pseudomonas syringae (E.F. Smith & Bryan) Young, Dye & Wilkie</i>	Kenya, Libya, South Africa South Africa, Algeria, Gabon, Zimbabwe, Kenya	CMI Map 558 1ed CMI Map 127, 1985
20	Dahlia sp.	<i>Dahlia mosaic virus Brierly</i>	Madagascar, Malawi, South Africa, Tanzania, Zimbabwe	CMI Map 116 3ed
21	Dioscorea spp. (Yam)	<i>Urocystis dioscorea</i>	Kenya, Tanzania, West Africa	
22	Daucus carota (Carrot)	<i>Xanthomonas campestris pv. carotae (Kendrick) Dye</i>	South Africa	CMI Map 407 2ed
23	Elaeis guineensis (Oil palm)	<i>Fusarium oxysporum f. sp elaeidis Tooney</i>	Cameroon, Congo, Nigeria	CMI Map 471 1ed
	Fragaria spp. (Strawberry)	<i>Radopholus similis</i>	South Africa	Sarccus, 1988
24	Glycine max (Soybean)	<i>Peronospora manshurica (Naumoff) Syd</i> <i>Septoria glycines Hummi</i> <i>Soybean mosaic virus Gardner & Kendrick</i>	<i>Ethiopia, Zimbabwe, South Africa Zimbabwe</i> Malawi, Zimbabwe, South Africa, Tanzania, Morocco, Uganda, Zambia	CMI Map 361 3ed <i>IAPSC Map 161, 1985</i>
25	Gossypium spp. (Cotton)	<i>Fusarium oxysporum f. sp vasinfectum (Atk.) Snyder & Hansen</i>	South Africa, Tanzania, Uganda, Angola, Central Africa Republic, Egypt, Morocco, Sudan, Senegal, Somalia, Democratic Republic of Congo	IAPSC Map 33, 1985
26	Graminea	<i>Pseudocercospora herpotrichoides (Fron.) Deighton</i>	Tunisia, Morocco, South Africa	IAPSC Map 77, 1985
	Graminea (Continued)	<i>Sclerophthora macrospora (Sacc)</i>	Mauritius, South Africa, Ethiopia, Tunisia,	IAPSC Map 92, 1985

		<p><i>Thirum, C. Shaw & Narasimhan</i></p> <p><i>Tilletia caries</i> (Bjerk.) R. Wolff</p> <p><i>Tilletia controversa</i> Kuhn</p> <p><i>Urocystis agropyri</i> (Prenss) Schroeter</p> <p><i>Mycosphaerella graminicola</i> (Fuekel) Schroeter</p> <p><i>Xanthomonas campestris prundulosa</i> f.s sp. <i>undulosa</i> (Smith, Jones & Reddy) Dye</p> <p><i>Barley yellow dwarf virus Oswald & Houston</i></p>	<p>Uganda</p> <p>North Africa, South Africa, Zimbabwe, Lesotho, Ethiopia, Uganda</p> <p>Libya, Morocco</p> <p>Egypt, Tunisia, Morocco, South Africa</p> <p>Algeria, Angola, Ethiopia, Kenya, Morocco, South Africa, Tanzania</p> <p>Ethiopia, Kenya, South Africa, Tunisia, Tanzania</p> <p>Egypt, South Africa</p>	<p>IAPSC Map 108, 1985</p> <p>IAPSC Map 100, 1985</p> <p>IAPSC Map 104, 1985</p> <p>IAPSC Map 53, 1985</p> <p>IAPSC Map 142, 1985</p> <p>IAPSC Map 146, 1985</p>
27	<p><i>Helianthus annuus</i> (Sunflower)</p>	<p><i>Septoria helianthi</i> Schw.</p> <p><i>Puccinia halianthi</i> (farl) Berl. & de Toni</p> <p><i>Plasmopara helstedii</i></p>	<p>Malawi</p> <p>Malawi</p> <p>Ethiopia, Zambia, South Africa</p>	<p>Sarccus, 1988</p> <p>Sarccus, 1988</p> <p>CMI Map 286 4ed</p>
28	<p><i>Lactuca sativa</i> (Lettuce)</p>	<p>Lettuce mosaic Jagger</p>	<p>Ghana, Mauritius, Zimbabwe, Sierra Leone, Tanzania, Malawi, Kenya, Zambia, Nigeria, South Africa</p>	<p>CMI Map 158, 1985</p>

No.				
29	Lactuca sativa (Lettuce) (Continued)	<i>Pseudomonas marginalis</i> pv. <i>Marginalis</i>	Egypt, Ethiopia, Kenya, Nigeria, Tanzania, Uganda	CMI IAPSC Map 123, 1985
30	Lycopersicon esculentum (Tomato)	<i>Phomopsis vexans</i> <i>Phytophthora capsici</i> Leonian <i>Clavibacter michiganense</i> subsp. <i>Michigannense</i> <i>Cucumber Mosaic virus</i> <i>Tomato spotted wilt virus</i> <i>Aphelenchoides bicaudatus</i>	Zimbabwe Zimbabwe Kenya, Madagascar, Morocco, South Africa, Togo, Tunisia, Uganda, Zimbabwe, Zambia Malawi Malawi, South Africa, Zimbabwe, Tanzania, Madagascar, Mauritius, Uganda <i>Malawi</i>	Sarccus, 1988 Sarccus, 1988 IAPSC Map 117, 1985 Sarccus, 1988 CMI IAPSC 167, 1985 , Sarccus, 1988 Sarccus, 1988
31	Manihot esculentum (Cassava)	<i>Botryosphaeria ribis</i> <i>Botryodiplodia theobromae</i> <i>Cercospora henningsi</i> <i>Cassava brown streak virus</i>	<i>Malawi</i> Malawi <i>Malawi</i> Mozambique, Zimbabwe, Zanzibar, Kenya, Malawi, Tanzania, Zambia, Malawi	Sarccus, 1988 Sarccus, 1988 Sarccus & Sarccus & IAPSC Map 150, 1985
34	Medicago sativa (Lucern)	<i>Phoma herbarium</i> var. <i>medicaginis</i> Alfalfa mosaic virus Pea mosaic virus	Libya, Malawi, Zimbabwe, Zambia South Africa South Africa, Zimbabwe South Africa, Sudan, Tanzania, Kenya	CMI Map 263, 3ed Sarccus, 1988 Sarccus, 1988 Sarccus, 1988

		Lucerne mosaic virus		
	Medicago sativa (Lucern) (Continued)	Ditylenchus dipsaci(Kühn) Filipjev	South Africa	Sarccus, 1988
35	Musa spp. (Banana, Planterii Abaca)	Armillariella mellea <i>Colletotrichum musae</i> <i>Fusarium oxysporum f. cubense</i> <i>Mycosphaerella fijiensis</i> <i>Banana bunchy top virus</i> <i>magee</i> <i>Banana mosaic</i> <i>Pseudomonas solanacarum</i>	Malawi Malawi South Africa Cameroon, Gabon Egypt, Democratic Rep. of Congo, Gabon Cameroon, Mauritius, Somalia, Cote d'Ivoire Widespread	Sarccus, 1988 Sarccus, 1988 Sarccus, 1988 CMI Map 500, 2ed IAPSC Map 146 Sarccus, 1988
36	Nerium oleander	Pseudomonas syringae pv savastanoi	Algeria, Libya, Morocco, South Africa, Tanzania, Tunisia	IAPSC 129, 1985
37	Nicotiana tabacum (Tobacco)	<i>Colletotrichum tabacum</i> Tobacco ring spot virus <i>Pseudomonas syringae pv tabaci</i>	Malawi, Mozambique, Mauritius, Zimbabwe, South Africa, Tanzania, Zambia Malawi, Morocco, Democratic Rep. of Congo Congo, Kenya, Morocco, Mozambique, South Africa, Mauritius, Zambia, Malawi, Uganda, Zimbabwe, Democratic Republic of Congo	IAPSC Map 22, 1985 Sarccus, 1985 Sarccus, 1988

		<i>Ditylenchus dipsaci</i>	South Africa	Sarccus, 1988
		<i>Xiphinema variabile</i>	South Africa	Sarccus, 1988
38	Olea europa (Olive)	<i>Arabis Mosaic virus</i>	South Africa	Quarantine Pests for
		<i>Pseudomonas syringae pv. Savastanoi</i>	Algeria, Libya, Morocco, South Africa, Tanzania, Tunisia	Europe IAPSC 129, 1985
39	Pelargonium sp.	<i>Xanthomonas pelargonii pelargonii</i>	Egypt, Morocco, South Africa	CMI Map 414 2ed
40	Phoenix dactylifera (Date palm)	Fusarium oxysporum spalbedinis	Algeria, Morocco	IAPSC Map 31, 1985
41	Pisum spp. (Peas)	Pseudomonas syringae p.v. pisis (sackett) Young Dye & Wilkie	Kenya, Malawi, Morocco, South Africa, Tanzania, Zimbabwe	IAPSC MAP 129
		Pea mosaic virus	Zimbabwe, South Africa, Tanzania	Sarccus, 1988
		<i>Cucumber mosaic virus</i>	Malawi	Sarccus, 1988
42	Prunus spp. (Cherry, plum, peach, almond)	<i>Pseudomonas mors prunorum Wermald</i>		CMI Map 132, 3ed
		Monilinia laxa Aderh & Rhul	Morocco, South Africa	CMI Map 44, 4ed
		<i>Xanthomonas pruni (E.F. Smith) Dowson</i>	Zimbabwe, South Africa	CMI 340, 3ed
		<i>Xiphinema brevicolle</i>	South Africa	Sarccus, 1988
43	Pyrus Communis (Pear)	<i>Erwinia amylovora (Burrill Winslow et al)</i>	Egypt, Morocco, Algeria, Morocco South Africa	IAPSC Map 120 CMI Map 387, 2ed CMI Map 425, 3ed

			South Africa, Zimbabwe	CMI 38, 4ed CMI 128, 3ed
	Pyrus Communis (Pear) (Continued)	Monilinia fructigena Honey	Morocco, Egypt Canary Island Libya, Madagascar, Mozambique, South Africa	IAPSC Map 44 CMI Map 367, 3ed
44	Raphanus sativus (Radish)	Cauliflower mosaic virus Tompkins	Zimbabwe, Sierra Leone, South Africa, Tanzania, Zambia	IAPSC Map 152
45	Sesamum indicum (Sesame)	<i>Pseudomonas syringae</i> pv . <i>Sesami</i> (Malkoff) Young, Dye & Wilkie	Tanzania, Somalia, Sudan, Uganda, South Africa	IAPSC Map 130
46	Secale cereale (Rye)	<i>Xanthomonas campestris</i> pv. Undulisq (Smith, Jones, Reddy) Dye	Tanzania, Kenya, South Africa, Tanzania, Tunisia	CMI Map 264 IAPSC Map 143
47	Solanum tuberosum (Potato)	Phoma exigua Desm. Var foveata (Foister) Boe rema <i>Synchytrium endobioticum</i> <i>Phytophthora infestans</i> <i>Cucumber mosaic virus</i> <i>Pseudomonas solanacearum</i> (E.F. Smith) E.F. Smith	Morocco South Africa Malawi Malawi South Africa	CMI Map 210 3ed IAPSC Map 72 Sarccus, 1988 <i>Sarccus</i> , 1988 IAPSC Map 126
	Sorghum spp. (Continued)	<i>Pseudomonas andropogoni</i> E.F. Smith) stapp	Ethiopia, Kenya, South Africa, Sudan, Uganda, Zimbabwe, Zambia	IAPSC Map 122

		<i>Cochliobolus carbonum</i>	Angola, Cameroon, Egypt, Kenya, Malawi, Tanzania, Zambia, Democratic Republic of Congo, South Africa, Zimbabwe	IAPSC Map 17
49	Spinacia oleracea (Spinach)	<i>Peronospora farinosa</i> Fr. F. sp. <i>Betae</i> Byford	Kenya, Morocco, South Africa Tanzania, Zimbabwe	IAPSC Map 59, 1985
50	Trifoliorum spp.	<i>Stemphylium sareirii forme</i> (Cavara) Wiltsti.	Morocco, Zimbabwe	IAPSC Map 96, 1985
51	Triticum spp	<i>Septoria tritici</i>	Angola, South Africa	Sarccus, 1988
		<i>Urocystis agropyri</i>	South Africa	Sarccus, 1988
52	Tulipa spp.) (Tuli)	Phytophthora erytroseptica Pethbr.	Egypt	IAPSC 72, 1985
53	Various Crops (Alfalfa, Tomato, Pineapple, Tobacco)	Lucern Mosaic virus Weimer	Kenya, Tanzania, South Africa	IAPSC Map 152, 1985
		Phytophthora dreschleri Tucker	Egypt, Madagascar, Algeria, Zimbabwe, South Africa	IAPSC Map 71, 1985
		Tomato spotted wilt virus, Samuel, Bald & Pittmann	Madagascar, Mauritius, Zimbabwe, Malawi, South Africa , Tanzania, Uganda.	IAPSC 167, 1985
		<i>Phytophthora cactorum</i> (Leb & Cohn) Schroeter	Kenya, Morocco, Senegal, South Africa, Zimbabwe	IAPSC Map 67, 1985
54	Vicia spp (Broad bean)	<i>Aschocyta fabae</i> spg	Egypt, Morocco	IAPSC 513 1ed
		Cucumber mosaic virus	Malawi	Sarccus, 1988
56	Zea Mays (Maize)	<i>Ustilago maydis</i> (DC) Corda	Mozambique, South Africa, Zimbabwe	Sarccus, 1988
		Maize dwarf mosaic virus	South Africa	Sarccus, 1988
		Wheat & streak mosaic virus	Malawi, Zimbabwe	Sarccus, 1988
57	Zingiber officinale	<i>Cochliobolus heterophorus</i>	Angola, Cameroon, Egypt, Kenya, Malawi,	IAPSC Map 17, 1985

	(Ginger)	(Drecheler) R.R. Nelson <i>Pythium vexans, de barry</i>	Nigeria, Tanzania, Democratic Republic of Congo, Zambia, Zimbabwe Comoro Islands, Congo, Liberia, Madagascar, Mauritius, South Africa, Tanzania, Uganda, Nigeria	IAPSC Map 88, 1985
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