

Volume 57	1990	Numbers 1-4
SUBJECT INDEX		
	Volume	Page
Acarina		
The pre-hatch period and larval survival of <i>Boophilus decoloratus</i> (Koch, 1844) (Acarina: Ixodidae) under natural conditions in the Transvaal, South Africa. A. M. SPICKETT and HELOISE HEYNE.....	57	95-98
Actinomyces pyogenes		
Failure of an <i>Actinomyces pyogenes</i> vaccine to protect sheep against an intravenous challenge. PAMELA HUNTER, J. J. VAN DER LUGT and J. J. GOUWS.....	57	239-241
Albizia versicolor		
Pyridoxine (a vitamin B6) and its derivative pyridoxal as treatment for <i>Albizia versicolor</i> poisoning in guinea-pigs. B. GUMMOW and G. L. ERASMUS.....	57	109-114
Amblyomma hebraeum		
Increased pathogenicity of an <i>Ehrlichia</i> -like agent after passage through <i>Amblyomma hebraeum</i> : a preliminary report. J. L. DU PLESSIS.....	57	233-237
Annoyance of livestock		
A survey of annoyance of livestock by <i>Simulium chatteri</i> Lewis along the Orange River, South Africa (Diptera: Simuliidae). LEONORA C. JORDAAN and H. VAN ARK.....	57	189-195
Anthelmintics		
Evaluation of the efficacy of anthelmintics against parafilariosis in cattle. J. A. VAN WYK, H. T. GROENEVELD and I. H. CARMICHAEL.....	57	103-108
Anthrax		
Feeding habits and flight range of blow-flies (<i>Chrysomya</i> spp.) in relation to anthrax transmission in the Kruger National Park, South Africa. L. E. O. BRAACK and V. DE VOS.....	57	141-142
Antigenic proteins		
Identification of the antigenic proteins of <i>Cowdria ruminantium</i> . MIRINDA ROSSOUW, A. W. H. NEITZ, D. T. DE WAAL, J. L. DU PLESSIS, LETITIA VAN GAS and SUSAN BRETT.....	57	215-221
Antigens		
Concurrent babesiosis and ehrlichiosis in the dog: blood smear examination supplemented by the indirect fluorescent antibody test, using <i>Cowdria ruminantium</i> as antigen. J. L. DU PLESSIS, N. FOURIE, P. W. NEL and D. N. EVEZARD.....	57	151-155
Argas (Persicargas) walkerae		
The detection and isolation of a paralysis toxin present in <i>Argas (Persicargas) walkerae</i> . G. J. VILJOEN, S. VAN WYNGAARDT, R. GOTHE, L. VISSER, J. D. BEZUIDENHOUT and A. W. H. NEITZ.....	57	163-168
Babesia caballi		
The transovarial transmission of <i>Babesia caballi</i> by <i>Hyalomma truncatum</i> . D. T. DE WAAL.....	57	99-100
Babesia sp.		
The isolation and transmission of an unidentified <i>Babesia</i> sp. to cattle by <i>Hyalomma truncatum</i> Koch 1844. D. T. DE WAAL, F. T. POTGIETER, M. P. COMBRINK and T. E. MASON.....	57	229-232
Babesiosis		
Concurrent babesiosis and ehrlichiosis in the dog: blood smear examination supplemented by the indirect fluorescent antibody test, using <i>Cowdria ruminantium</i> as antigen. J. L. DU PLESSIS, N. FOURIE, P. W. NEL and D. N. EVEZARD.....	57	151-155
Basic fuchsin		
The use of filterpaper discs impregnated with thionin acetate, basic fuchsin and thionin blue in the identification of <i>Brucella</i> species. L. M. M. RIBEIRO and S. HERR.....	57	197-199
Blow-flies		
Feeding habits and flight range of blow-flies (<i>Chrysomya</i> spp.) in relation to anthrax transmission in the Kruger National Park, South Africa. L. E. O. BRAACK and V. DE VOS.....	57	141-142
Boophilus decoloratus		
The pre-hatch period and larval survival of <i>Boophilus decoloratus</i> (Koch, 1844) (Acarina: Ixodidae) under natural conditions in the Transvaal, South Africa. A. M. SPICKETT and HELOISE HEYNE.....	57	95-98
Bovine mammary regression		
Udder health implications of premature bovine mammary regression. I. Clinical, subclinical and reducing sugar changes in milk during 168 hours of suspended milking in mid-lactation. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI.....	57	25-35
Udder health implications of premature bovine mammary regression. II. Collateral intramammary reactions in quarters milked normally during 168-hour milk stasis in opposite quarters. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI.....	57	49-56
Brahman cattle		
Resistance of Brahman and Simmentaler cattle to southern African ticks. Y. REHAV, J. DAUTH and D. A. ELS.....	57	7-12
Brucella melitensis		
The isolation and serology of <i>Brucella melitensis</i> in a flock of goats in central RSA. L. M. M. RIBEIRO, S. HERR, F. CHAPARRO and F. H. VAN DER VYVER.....	57	143-144

	Volume	Page
Brucella sp.		
The use of filterpaper discs impregnated with thionin acetate, basic fuchsin and thionin blue in the identification of <i>Brucella</i> species. L. M. M. RIBEIRO and S. HERR	57	197-199
Buffalo		
Host cellular components adhering to the tegument of schistosomes from cattle, buffalo, hippopotamus and lechwe. F. J. KRUGER and C. T. WOLMARANS.....	57	137-139
Serological reactions to <i>Leptospira</i> species in buffalo (<i>Syncerus caffer</i>) from the Kruger National Park. J. G. MYBURGH, R. G. BENGIS, C. J. J. BESTER and F. CHAPARRO	57	281-282
Calves		
Epizootology of wildebeest-derived malignant catarrhal fever: possible transmission among cows and their calves in the north-western Transvaal. B. J. H. BARNARD	57	201-204
Campylobacter sp.		
The use of sensitivity discs in the identification of <i>Campylobacter</i> species. L. M. M. RIBEIRO, S. HERR, S. M. PEFANIS and A. G. S. GOUS	57	129-131
Cardiac myocytes		
The toxic effects on cardiac myocytes of tyledoside F, a cumulative neurotoxic cardiac glycoside isolated from <i>Tylecodon grandiflorus</i> . J. M. VAN ROOYEN and J. J. VANDER WALT.....	57	223-227
Cattle		
Resistance of Brahman and Simmentaler cattle to southern African ticks. Y. RECHAV, J. DAUTH and D. A. ELS	57	7-12
Heat stress in dairy cattle and other livestock under southern African conditions. I. Temperature-humidity index mean values during the four main seasons. J. H. DU PREEZ, W. H. GIESECKE and P. J. HATTINGH	57	77-87
Evaluation of the efficacy of anthelmintics against parafilariosis in cattle. J. A. VAN WYK, H. T. GROENEVELD and I. H. CARMICHAEL	57	103-108
Host cellular components adhering to the tegument of schistosomes from cattle, buffalo, hippopotamus and lechwe. F. J. KRUGER and C. T. WOLMARANS.....	57	137-139
The isolation and transmission of an unidentified <i>Babesia</i> sp. to cattle by <i>Hyalomma truncatum</i> Koch 1844. D. T. DE WAAL, F. T. POTGIETER, M. P. COMBRINK and T. E. MASON	57	229-232
Cellular components		
Host cellular components adhering to the tegument of schistosomes from cattle, buffalo, hippopotamus and lechwe. F. J. KRUGER and C. T. WOLMARANS.....	57	137-139
Chrysomyia sp.		
Feeding habits and flight range of blow-flies (<i>Chrysomyia</i> spp.) in relation to anthrax transmission in the Kruger National Park, South Africa. L. E. O. BRAACK and V. DE VOS.....	57	141-142
Cowdria ruminantium		
The freeze-drying of <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, L. VAN GAS, F. J. LABUSCHAGNE and S. WIJMA ..	57	145-149
Concurrent babesiosis and ehrlichiosis in the dog: blood smear examination supplemented by the indirect fluorescent antibody test, using <i>Cowdria ruminantium</i> as antigen. J. L. DU PLESSIS, N. FOURIE, P. W. NEL and D. N. EVEZARD	57	151-155
An attempt to improve the immunization of sheep against heartwater by using different combinations of 3 stocks of <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, F. T. POTGIETER and LETITIA VAN GAS	57	205-208
Identification of the antigenic proteins of <i>Cowdria ruminantium</i> . MIRINDA ROSSOUW, A. W. H. NEITZ, D. T. DE WAAL, J. L. DU PLESSIS, LETITIA VAN GAS and SUSAN BRETT	57	215-221
An attempt to establish an inbred line of mice genetically resistant to <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, E. H. H. MEYER and L. VAN GAS	57	283-285
Cows		
Epizootology of wildebeest-derived malignant catarrhal fever: possible transmission among cows and their calves in the north-western Transvaal. B. J. H. BARNARD	57	201-204
Cryopreservation of nematodes		
Cryopreservation of some common nematodes of ruminants for up to 11,3 years. J. A. VAN WYK, H. M. GERBER and REGINA M. R. ALVES.....	57	1-6
Dairy cattle		
Heat stress in dairy cattle under southern African conditions. II. Identification of areas of potential heat stress during summer by means of observed true and predicted temperature-humidity index values. J. H. DU PREEZ, W. H. GIESECKE, P. J. HATTINGH and B. E. EISENBERG	57	183-187
Heat stress in dairy cattle and other livestock under southern African conditions. III. Monthly temperature-humidity index mean values and their significance in the performance of dairy cattle. J. H. DU PREEZ, P. J. HATTINGH, W. H. GIESECKE and B. E. EISENBERG	57	243-248
Diptera		
Epidemiology of wildebeest-derived malignant catarrhal fever in South Africa: inability to transfer the disease with an African face fly <i>Musca xanthomelas</i> (Diptera: Muscidae). B. J. H. BARNARD, R. G. BENGIS and S. F. VOGES	57	89-93
A survey of annoyance of livestock by <i>Simulium chutteri</i> Lewis along the Orange River, South Africa (Diptera: Simuliidae). LEONORA C. JORDAAN and H. VAN ARK.....	57	189-195

	Volume	Page
Dog		
Concurrent babesiosis and ehrlichiosis in the dog: blood smear examination supplemented by the indirect fluorescent antibody test, using <i>Cowdria ruminantium</i> as antigen. J. L. DU PLESSIS, N. FOURIE, P. W. NEL and D. N. EVEZARD	57	151-155
Dose-response data		
Fitting the Gompertz function to dose-response data of larval tick populations. A. M. SPICKETT and H. VAN ARK	57	115-118
Efficacy of anthelmintics		
Evaluation of the efficacy of anthelmintics against parafilariosis in cattle. J. A. VAN WYK, H. T. GROENEVELD and I. H. CARMICHAEL	57	103-108
Ehrlichia-like agent		
Increased pathogenicity of an <i>Ehrlichia</i> -like agent after passage through <i>Amblyomma hebraeum</i> : a preliminary report. J. L. DU PLESSIS	57	233-237
Ehrlichiosis		
Concurrent babesiosis and ehrlichiosis in the dog: blood smear examination supplemented by the indirect fluorescent antibody test, using <i>Cowdria ruminantium</i> as antigen. J. L. DU PLESSIS, N. FOURIE, P. W. NEL and D. N. EVEZARD	57	151-155
Endocrine cells		
An immunohistochemical study of various peptide-containing endocrine cells and neurones at the equine ileo-caecal junction. SANET H. KOTZÉ and G. VAN ASWEGEN	57	13-17
Epizootology of WDMCF		
Epizootology of wildebeest-derived malignant catarrhal fever: possible transmission among cows and their calves in the north-western Transvaal. B. J. H. BARNARD	57	201-204
Face fly		
Epidemiology of wildebeest-derived malignant catarrhal fever in South Africa: inability to transfer the disease with an African face fly <i>Musca xanthomelas</i> (Diptera: Muscidae). B. J. H. BARNARD, R. G. BENGIS and S. F. VOGES	57	89-93
Faeces		
Overberg research project. IX. First stage larvae per gram (L, p.g.) of faeces; an efficient method of diagnosing nematode parasites of sheep ante mortem. R. K. REINECKE	57	277-280
Feeding habits of blow-flies		
Feeding habits and flight range of blow-flies (<i>Chrysomya</i> spp.) in relation to anthrax transmission in the Kruger National Park, South Africa. L. E. O. BRAACK and V. DE VOS	57	141-142
Feed ingredients		
<i>Salmonella</i> isolated from feeds and feed ingredients during the period 1982-1988: animal and public health implications. ANNETTE M. DURAND, W. H. GIESECKE, MARIE-LUISE BARNARD, MARTHA L. VAN DER WALT and HELENA C. STEYN	57	175-181
Feeds		
<i>Salmonella</i> isolated from feeds and feed ingredients during the period 1982-1988: animal and public health implications. ANNETTE M. DURAND, W. H. GIESECKE, MARIE-LUISE BARNARD, MARTHA L. VAN DER WALT and HELENA C. STEYN	57	175-181
Filterpaper discs		
The use of filterpaper discs impregnated with thionin acetate, basic fuchsin and thionin blue in the identification of <i>Brucella</i> species. L. M. M. RIBEIRO and S. HERR	57	197-199
Fish		
<i>Mycobacterium fortuitum</i> isolated from three species of fish in South Africa. R. R. BRAGG, HILDEGARD F. A. K. HUCHZERMAYER and MONICA A. M. HANISCH	57	101-102
Flight range of blow-flies		
Feeding habits and flight range of blow-flies (<i>Chrysomya</i> spp.) in relation to anthrax transmission in the Kruger National Park, South Africa. L. E. O. BRAACK and V. DE VOS	57	141-142
Freeze-drying of Cowdria		
The freeze drying of <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, L. VAN GAS, F. J. LABUSCHAGNE and S. WIJMA ..	57	145-149
Fumonisin B₁		
Leucoencephalomalacia in two horses induced by oral dosing of fumonisin B ₁ . T. S. KELLERMAN, W. F. O. MARASAS, P. G. THIEL, W. C. A. GELDERBLUM, M. CAWOOD and J. A. W. COETZER	57	269-275
Gastro-intestinal tract		
A light microscopic and immunocytochemical study of the gastro-intestinal tract of the ostrich (<i>Struthio camelus</i> L.). A. J. BEZUIDENHOUT and G. VAN ASWEGEN	57	37-48
Goats		
The isolation and serology of <i>Brucella melitensis</i> in a flock of goats in central RSA. L. M. M. RIBEIRO, S. HERR, F. CHAPARRO and F. H. VAN DER VYVER	57	143-144
Gompertz function		
Fitting the Gompertz function to dose-response data of larval tick populations. A. M. SPICKETT and H. VAN ARK	57	115-118

	Volume	Page
Guinea-pigs		
Pyridoxine (a vitamin B6) and its derivative pyridoxal as treatment for <i>Albizia versicolor</i> poisoning in guinea-pigs. B. GUMMOW and G. L. ERASMUS	57	109–114
Haemodynamic response		
A comparison of haemodynamic and vasoconstrictory responses in sheep with a toxic fraction from <i>Pachystigma pygmaeum</i> and with the plant material. J. J. VAN DER WALT, J. M. VAN ROOYEN and A. P. LÖTTER	57	157–161
Health implications of <i>Salmonella</i>		
<i>Salmonella</i> isolated from feeds and feed ingredients during the period 1982–1988: animal and public health implications. ANNETTE M. DURAND, W. H. GIESECKE, MARIE-LUISE BARNARD, MARTHA L. VAN DER WALT and HELENA C. STEYN	57	175–181
Heartwater		
An attempt to improve the immunization of sheep against heartwater by using different combinations of 3 stocks of <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, F. T. POTGIETER and LETITIA VAN GAS	57	205–208
Heat stress		
Heat stress in dairy cattle and other livestock under southern African conditions. I. Temperature-humidity index mean values during the four main seasons. J. H. DU PREEZ, W. H. GIESECKE and P. J. HATTINGH	57	77–87
Heat stress in dairy cattle under southern African conditions. II. Identification of areas of potential heat stress during summer by means of observed true and predicted temperature-humidity index values. J. H. DU PREEZ, W. H. GIESECKE, P. J. HATTINGH and B. E. EISENBERG	57	183–187
Heat stress in dairy cattle and other livestock under southern African conditions. III. Monthly temperature-humidity index mean values and their significance in the performance of dairy cattle. J. H. DU PREEZ, P. J. HATTINGH, W. H. GIESECKE and B. E. EISENBERG	57	243–248
Hepatic lesions		
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. I. Hepatic lesions. M. C. WILLIAMS	57	249–261
Hippopotamus		
Host cellular components adhering to the tegument of schistosomes from cattle, buffalo, hippopotamus and lechwe. F. J. KRUGER and C. T. WOLMARANS	57	137–139
Horses		
Leucoencephalomalacia in two horses induced by oral dosing of fumonisin B ₁ . T. S. KELLERMAN, W. F. O. MARASAS, P. G. THIEL, W. C. A. GELDERBLOM, M. CAWOOD and J. A. W. COETZER	57	269–275
Hyalomma truncatum		
The transovarial transmission of <i>Babesia caballi</i> by <i>Hyalomma truncatum</i> . D. T. DE WAAL	57	99–100
The isolation and transmission of an unidentified <i>Babesia</i> sp. to cattle by <i>Hyalomma truncatum</i> Koch 1844. D. T. DE WAAL, F. T. POTGIETER, M. P. COMBRINK and T. E. MASON	57	229–232
Ileocaecal junction		
An immunohistochemical study of various peptide-containing endocrine cells and neurones at the equine ileocaecal junction. SANET H. KOTZÉ and G. VAN ASWEGEN	57	13–17
Scanning electron and light microscopy of the mucosa of the equine ileocaecal junction. SANET H. KOTZÉ and J. T. SOLEY	57	19–23
Immunization of sheep		
An attempt to improve the immunization of sheep against heartwater by using different combinations of 3 stocks of <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, F. T. POTGIETER and LETITIA VAN GAS	57	205–208
Immunocytochemical study		
A light microscopic and immunocytochemical study of the gastro-intestinal tract of the ostrich (<i>Struthio camelus</i> L.). A. J. BEZUIDENHOUT and G. VAN ASWEGEN	57	37–48
Immunohistochemical study		
An immunohistochemical study of various peptide-containing endocrine cells and neurones at the equine ileocaecal junctions. SANET H. KOTZÉ and G. VAN ASWEGEN	57	13–17
Inbred line of mice		
An attempt to establish an inbred line of mice genetically resistant to <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, E. H. H. MEYER and L. VAN GAS	57	283–285
Indirect fluorescent antibody test		
Concurrent babesiosis and ehrlichiosis in the dog: blood smear examination supplemented by the indirect fluorescent antibody test, using <i>Cowdria ruminantium</i> as antigen. J. L. DU PLESSIS, N. FOURIE, P. W. NEL and D. N. EVEZARD	57	151–155
Intramammary reactions		
Udder health implications of premature bovine mammary regression. II. Collateral intramammary reactions in quarters milked normally during 168-hour milk stasis in opposite quarters. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI	57	49–56
Intravenous challenge		
Failure of an <i>Actinomyces pyogenes</i> vaccine to protect sheep against an intravenous challenge. PAMELA HUNTER, J. J. VAN DER LUGT and J. J. GOUWS	57	239–241
Isolation medium		
An efficient medium for the isolation of <i>Trichomonas foetus</i> . L. M. M. RIBEIRO	57	209–210

	Volume	Page
Ixodidae		
Two new species of ticks from southern Africa whose adults parasitize the feet of ungulates: <i>Rhipicephalus lounsburyi</i> n. sp. and <i>Rhipicephalus neumanni</i> n. sp. (Ixodoidea, Ixodidae). JANE B. WALKER	57	57-75
The prehatch period and larval survival of <i>Boophilus decoloratus</i> (Koch, 1844) (Acarina: Ixodidae) under natural conditions in the Transvaal, South Africa. A. M. SPICKETT and HELOISE HEYNE.....	57	95-98
Ixodoidea		
Two new species of ticks from southern Africa whose adults parasitize the feet of ungulates: <i>Rhipicephalus lounsburyi</i> n. sp. and <i>Rhipicephalus neumanni</i> n. sp. (Ixodoidea, Ixodidae). JANE B. WALKER	57	57-75
Larvae		
Fitting the Gompertz function to dose-response data of larval tick populations. A. M. SPICKETT and H. VAN ARK	57	115-118
Effects of microclimatic variables on the availability and movement of third-stage larvae of <i>Ostertagia ostertagi</i> on herbage. R. C. KRECEK, K. D. MURRELL and L. W. DOUGLASS	57	133-135
Overberg research project. IX. First stage larvae per gram (L ₁ p.g.) of faeces; an efficient method of diagnosing nematode parasites of sheep ante mortem. R. K. REINECKE.....	57	277-280
Larval survival		
The prehatch period and larval survival of <i>Boophilus decoloratus</i> (Koch, 1844) (Acarina: Ixodidae) under natural conditions in the Transvaal, South Africa. A. M. SPICKETT and HELOISE HEYNE.....	57	95-98
Lasiospermum bipinatum		
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. I. Hepatic lesions. M. C. WILLIAMS.....	57	249-261
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. II. Pulmonary and miscellaneous lesions. M. C. WILLIAMS	57	263-268
Lechwe		
Host cellular components adhering to the tegument of schistosomes from cattle, buffalo, hippopotamus and lechwe. F. J. KRUGER and C. T. WOLMARANS.....	57	137-139
Leptospira sp.		
Serological reactions to <i>Leptospira</i> species in buffalo (<i>Syncerus caffer</i>) from the Kruger National Park. J. G. MYBURGH, R. G. BENGIS, C. J. J. BESTER and F. CHAPARRO	57	281-282
Leucoencephalomalacia		
Leucoencephalomalacia in two horses induced by oral dosing of fumonisin B ₁ . T. S. KELLERMAN, W. F. O. MARASAS, P. G. THIEL, W. C. A. GELDERBLOM, M. CAWOOD and J. A. W. COETZER.....	57	269-275
Levamisole		
A field strain of <i>Trichostrongylus colubriformis</i> resistant to levamisole and morantel in South Africa. J. A. VAN WYK, G. F. BATH, H. M. GERBER and REGINA M. R. ALVES	57	119-122
Light microscopy		
Scanning electron and light microscopy of the mucosa of the equine ileocaecal junction. SANET H. KOTZÉ and J. T. SOLEY.....	57	19-23
A light microscopic and immunocytochemical study of the gastro-intestinal tract of the ostrich (<i>Struthio camelus</i> L.). A. J. BEZUIDENHOUT and G. VAN ASWEGEN	57	37-48
Man		
An experimental <i>Schistosoma mattheei</i> infection in man. C. T. WOLMARANS, K. N. DE KOCK and M. K. P. VAN DER WALT	57	211-214
Mice		
An attempt to establish an inbred line of mice genetically resistant to <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, E. H. H. MEYER and L. VAN GAS	57	283-285
Microclimatic variables		
Effects of microclimatic variables on the availability and movement of third-stage larvae of <i>Ostertagia ostertagi</i> on herbage. R. C. KRECEK, K. D. MURRELL and L. W. DOUGLASS	57	133-135
Milk		
Udder health implications of premature bovine mammary regression. I. Clinical subclinical and reducing sugar changes in milk during 168 hours of suspended milking in mid-lactation. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI.....	57	25-35
Udder health implications of premature bovine mammary regression. II. Collateral intramammary reactions in quarters milked normally during 168-hour milk stasis in opposite quarters. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI.....	57	49-56
Milk stasis		
Udder health implications of premature bovine mammary regression. II. Collateral intramammary reactions in quarters milked normally during 168-hour milk stasis in opposite quarters. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI.....	57	49-56
Miscellaneous lesions		
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. II. Pulmonary and miscellaneous lesions. M. C. WILLIAMS	57	263-268

	Volume	Page
Morantel		
A field strain of <i>Trichostrongylus colubriformis</i> resistant to levamisole and morantel in South Africa. J. A. VAN WYK, G. F. BATH, H. M. GERBER and REGINA M. R. ALVES	57	119–122
Mucosa		
Scanning electron and light microscopy of the mucosa of the equine ileocaecal junction. SANET H. KOTZÉ and J. T. SOLEY	57	19–23
Musca xanthomelas		
Epidemiology of wildebeest-derived malignant catarrhal fever in South Africa: inability to transfer the disease with an African face fly <i>Musca xanthomelas</i> (Diptera: Muscidae). B. J. H. BARNARD, R. G. BENGIS and S. F. VOGES	57	89–93
Muscidae		
Epidemiology of wildebeest-derived malignant catarrhal fever in South Africa: inability to transfer the disease with an African face fly <i>Musca xanthomelas</i> (Diptera: Muscidae). B. J. H. BARNARD, R. G. BENGIS and S. F. VOGES	57	89–93
Mycobacterium fortuitum		
<i>Mycobacterium fortuitum</i> isolated from three species of fish in South Africa. R. R. BRAGG, HILDEGARD F. A. K. HUCHZERMEYER and MONICA A. M. HANISCH	57	101–102
Nematodes		
Cryopreservation of some common nematodes of ruminants for up to 11,3 years. J. A. VAN WYK, H. M. GERBER and REGINA M. R. ALVES	57	1–6
Overberg research project. IX. First stage larvae per gram (L ₁ p.g.) of faeces; an efficient method of diagnosing nematode parasites of sheep ante mortem. R. K. REINECKE	57	277–280
Neurones		
An immunohistochemical study of various peptide-containing endocrine cells and neurones at the equine ileo-caecal junction. SANET H. KOTZÉ and G. VAN ASWEGEN	57	13–17
Neurotoxic cardiac glycoside		
The toxic effects on cardiac myocytes of tyledoside F, a cumulative neurotoxic cardiac glycoside isolated from <i>Tylecodon grandiflorus</i> . J. M. VAN ROOYEN and J. J. VANDER WALT	57	223–227
Oesophagostomum mocambiqui		
Parasites of South African wildlife. V. A description of the males of <i>Oesophagostomum mocambiqui</i> Ortlepp, 1964 from warthogs, <i>Phacochoerus aethiopicus</i> (Pallas, 1766). J. BOOMKER	57	169–173
Orange River		
A survey of annoyance of livestock by <i>Simulium chutteri</i> Lewis along the Orange River, South Africa (Diptera: Simuliidae). LEONORA C. JORDAAN and H. VAN ARK	57	189–195
Ostertagia ostertagi		
Effects of microclimatic variables on the availability and movement of third-stage larvae of <i>Ostertagia ostertagi</i> on herbage. R. C. KRECEK, K. D. MURRELL and L. W. DOUGLASS	57	133–135
Ostrich		
A light microscopic and immunocytochemical study of the gastro-intestinal tract of the ostrich (<i>Struthio camelus</i> L.). A. J. BEZUIDENHOUT and G. VAN ASWEGEN	57	37–48
Overberg research project		
Overberg research project. IX. First stage larvae per gram (L ₁ p.g.) of faeces; an efficient method of diagnosing nematode parasites of sheep ante mortem. R. K. REINECKE	57	277–280
Over-dispersion		
On sampling tick populations: the problem of over-dispersion. T. N. PETNEY, H. VAN ARK and A. M. SPICKETT	57	123–127
Pachystigma pygmaeum		
A comparison of haemodynamic and vasoconstrictory responses in sheep with a toxic fraction from <i>Pachystigma pygmaeum</i> and with the plant material. J. J. VANDER WALT, J. M. VAN ROOYEN and A. P. LÖTTER	57	157–161
Parafilariosis		
Evaluation of the efficacy of anthelmintics against parafilariosis in cattle. J. A. VAN WYK, H. T. GROENEVELD and I. H. CARMICHAEL	57	103–108
Paralysis toxin		
The detection and isolation of a paralysis toxin present in <i>Argas (Persicargas) walkerae</i> . G. J. VILJOEN, S. VAN WYNGAARDT, R. GOTHE, L. VISSER, J. D. BEZUIDENHOUT and A. W. H. NEITZ	57	163–168
Parasites of wildlife		
Parasites of South African wildlife. V. A description of the males of <i>Oesophagostomum mocambiqui</i> Ortlepp, 1964 from warthogs, <i>Phacochoerus aethiopicus</i> (Pallas, 1766). J. BOOMKER	57	169–173
Pathogenicity of Ehrlichia		
Increased pathogenicity of an <i>Ehrlichia</i> -like agent after passage through <i>Amblyomma hebraeum</i> : a preliminary report. J. L. DU PLESSIS	57	233–237
Phacochoerus aethiopicus		
Parasites of South African wildlife. V. A description of the males of <i>Oesophagostomum mocambiqui</i> Ortlepp, 1964 from warthogs, <i>Phacochoerus aethiopicus</i> (Pallas, 1766). J. BOOMKER	57	169–173

	Volume	Page
Poisoning in sheep		
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. I. Hepatic lesions. M. C. WILLIAMS	57	249–261
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. II. Pulmonary and miscellaneous lesions. M. C. WILLIAMS	57	263–268
Prehatch period		
The prehatch period and larval survival of <i>Boophilus decoloratus</i> (Koch, 1844) (Acarina: Ixodidae) under natural conditions in the Transvaal, South Africa. A. M. SPICKETT and HELOISE HEYNE	57	95–98
Proteins		
Identification of the antigenic proteins of <i>Cowdria ruminantium</i> . MIRINDA ROSSOUW, A. W. H. NEITZ, D. T. DE WAAL, J. L. DU PLESSIS, LETITIA VAN GAS and SUSAN BRETT	57	215–221
Pulmonary lesions		
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. II. Pulmonary and miscellaneous lesions. M. C. WILLIAMS	57	263–268
Pyridoxal		
Pyridoxine (a vitamin B6) and its derivative pyridoxal as treatment for <i>Albizia versicolor</i> poisoning in guinea-pigs. B. GUMMOW and G. L. ERASMUS	57	109–114
Pyridoxine		
Pyridoxine (a vitamin B6) and its derivative pyridoxal as treatment for <i>Albizia versicolor</i> poisoning in guinea-pigs. B. GUMMOW and G. L. ERASMUS	57	109–114
Reducing sugar changes		
Udder health implications of premature bovine mammary regression. I. Clinical subclinical and reducing sugar changes in milk during 168 hours of suspended milking in mid-lactation. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI	57	25–35
Resistance to anthelmintics		
A field strain of <i>Trichostrongylus colubriformis</i> resistant to levamisole and morantel in South Africa. J. A. VAN WYK, G. F. BATH, H. M. GERBER and REGINA M. R. ALVES	57	119–122
Rhipicephalus lounsburyi		
Two new species of ticks from southern Africa whose adults parasitize the feet of ungulates: <i>Rhipicephalus lounsburyi</i> n. sp. and <i>Rhipicephalus neumanni</i> n. sp. (Ixodoidea, Ixodidae). JANE B. WALKER	57	57–75
Rhipicephalus neumanni		
Two new species of ticks from southern Africa whose adults parasitize the feet of ungulates: <i>Rhipicephalus lounsburyi</i> n. sp. and <i>Rhipicephalus neumanni</i> n. sp. (Ixodoidea, Ixodidae). JANE B. WALKER	57	57–75
Ruminants		
Cryopreservation of some common nematodes of ruminants for up to 11,3 years. J. A. VAN WYK, H. M. GERBER and REGINA M. R. ALVES	57	1–6
Salmonella		
<i>Salmonella</i> isolated from feeds and feed ingredients during the period 1982–1988: animal and public health implications. ANNETTE M. DURAND, W. H. GIESECKE, MARIE-LUISE BARNARD, MARTHA L. VAN DER WALT and HELENA C. STEYN	57	175–181
Scanning electron microscopy		
Scanning electron and light microscopy of the mucosa of the equine ileocaecal junction. SANET H. KOTZÉ and J. T. SOLEY	57	19–23
Schistosoma mattheei		
An experimental <i>Schistosoma mattheei</i> infection in man. C. T. WOLMARANS, K. N. DE KOCK and M. K. P. VAN DER WALT	57	211–214
Schistosomes		
Host cellular components adhering to the tegument of schistosomes from cattle, buffalo, hippopotamus and lechwe. F. J. KRUGER and C. T. WOLMARANS	57	137–139
Seasons		
Heat stress in dairy cattle and other livestock under southern African conditions. I. Temperature-humidity index mean values during the four main seasons. J. H. DU PREEZ, W. H. GIESECKE and P. J. HATTINGH	57	77–87
Sensitivity discs		
The use of sensitivity discs in the identification of <i>Campylobacter</i> species. L. M. M. RIBEIRO, S. HERR, S. M. PEFANIS and A. G. S. GOUS	57	129–131
Serological reactions		
Serological reactions to <i>Leptospira</i> species in buffalo (<i>Syncerus caffer</i>) from the Kruger National Park. J. G. MYBURGH, R. G. BENGIS, C. J. J. BESTER and F. CHAPARRO	57	281–282
Serology of Brucella		
The isolation and serology of <i>Brucella melitensis</i> in a flock of goats in central RSA. L. M. M. RIBEIRO, S. HERR, F. CHAPARRO and F. H. VAN DER VYVER	57	143–144
Sheep		
A comparison of haemodynamic and vasoconstrictory responses in sheep with a toxic fraction from <i>Pachystigma pygmaeum</i> and with the plant material. J. J. VAN DER WALT, J. M. VAN ROOYEN and A. P. LÖTTER	57	157–161
An attempt to improve the immunization of sheep against heartwater by using different combinations of 3 stocks of <i>Cowdria ruminantium</i> . J. L. DU PLESSIS, F. T. POTGIETER and LETITIA VAN GAS	57	205–208

	Volume	Page
Failure of an <i>Actinomyces pyogenes</i> vaccine to protect sheep against an intravenous challenge. PAMELA HUNTER, J. J. VANDER LUGT and J. J. GOUWS.....	57	239-241
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. I. Hepatic lesions. M. C. WILLIAMS.....	57	249-261
The pathology of experimental <i>Lasiospermum bipinatum</i> (Thunb.) Druce (Asteraceae) poisoning in sheep. II. Pulmonary and miscellaneous lesions. M. C. WILLIAMS.....	57	263-268
Overberg research project. IX. First stage larvae per gram (L ₁ p.g.) of faeces; an efficient method of diagnosing nematode parasites of sheep ante mortem. R. K. REINECKE.....	57	277-280
Simmentaler cattle		
Resistance of Brahman and Simmentaler cattle to southern African ticks. Y. RECHAV, J. DAUTH and D. A. ELS	57	7-12
Simuliidae		
A survey of annoyance of livestock by <i>Simulium chutteri</i> Lewis along the Orange River, South Africa (Diptera: Simuliidae). LEONORA C. JORDAAN and H. VAN ARK.....	57	189-195
Simulium chutteri		
A survey of annoyance of livestock by <i>Simulium chutteri</i> Lewis along the Orange River, South Africa (Diptera: Simuliidae). LEONORA C. JORDAAN and H. VAN ARK.....	57	189-195
Struthio camelus		
A light microscopic and immunocytochemical study of the gastro-intestinal tract of the ostrich (<i>Struthio camelus</i> L.). A. J. BEZUIDENHOUT and G. VAN ASWEGEN.....	57	37-48
Suspended milking		
Udder health implications of premature bovine mammary regression. I. Clinical, subclinical and reducing sugar changes in milk during 168 hours of suspended milking in mid-lactation. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI.....	57	25-35
Syncerus caffer		
Serological reactions to <i>Leptospira</i> species in buffalo (<i>Syncerus caffer</i>) from the Kruger National Park. J. G. MYBURGH, R. G. BENGIS, C. J. J. BESTER and F. CHAPARRO.....	57	281-282
Tegument		
Host cellular components adhering to the tegument of schistosomes from cattle, buffalo, hippopotamus and lechwe. F. J. KRUGER and C. T. WOLMARANS.....	57	137-139
Temperature-humidity index		
Heat stress in dairy cattle and other livestock under southern African conditions. I. Temperature-humidity index mean values during the four main seasons. J. H. DU PREEZ, W. H. GIESECKE and P. J. HATTINGH.....	57	77-87
Heat stress in dairy cattle under southern African conditions. II. Identification of areas of potential heat stress during summer by means of observed true and predicted temperature-humidity index values. J. H. DU PREEZ, W. H. GIESECKE, P. J. HATTINGH and B. E. EISENBERG.....	57	183-187
Heat stress in dairy cattle and other livestock under southern African conditions. III. Monthly temperature-humidity index mean values and their significance in the performance of dairy cattle. J. H. DU PREEZ, P. J. HATTINGH, W. H. GIESECKE and B. E. EISENBERG.....	57	243-248
Thionin acetate		
The use of filterpaper discs impregnated with thionin acetate, basic fuchsin and thionin blue in the identification of <i>Brucella</i> species. L. M. M. RIBEIRO and S. HERR.....	57	197-199
Thionin blue		
The use of filterpaper discs impregnated with thionin acetate, basic fuchsin and thionin blue in the identification of <i>Brucella</i> species. L. M. M. RIBEIRO and S. HERR.....	57	197-199
Ticks		
Resistance of Brahman and Simmentaler cattle to southern African ticks. Y. RECHAV, J. DAUTH and D. A. ELS	57	7-12
Two new species of ticks from southern Africa whose adults parasitize the feet of ungulates: <i>Rhipicephalus lounsburyi</i> n. sp. and <i>Rhipicephalus neumanni</i> n. sp. (Ixodoidea, Ixodidae). JANE B. WALER.....	57	57-75
Fitting the Gompertz function to dose-response data of larval tick populations. A. M. SPICKETT and H. VAN ARK.....	57	115-118
On sampling tick populations: the problem of over-dispersion. T. N. PETNEY, H. VAN ARK and A. M. SPICKETT	57	123-127
Toxic effects		
The toxic effects on cardiac myocytes of tyledoside F, a cumulative neurotoxic cardiac glycoside isolated from <i>Tylecodon grandiflorus</i> . J. M. VAN ROOYEN and J. J. VANDER WALT.....	57	223-227
Toxic fractions		
A comparison of haemodynamic and vasoconstrictory responses in sheep with a toxic fraction from <i>Pachystigma pygmaeum</i> and with the plant material. J. J. VANDER WALT, J. M. VAN ROOYEN and A. P. LÖTTER.....	57	157-161
Toxins		
The detection and isolation of a paralysis toxin present in <i>Argas (Persicargas) walkerae</i> . G. J. VILJOEN, S. VAN WYNGAARDT, R. GOTHE, L. VISSER, J. D. BEZUIDENHOUT and A. W. H. NEITZ.....	57	163-168
Transmission of Babesia		
The isolation and transmission of an unidentified <i>Babesia</i> sp. to cattle by <i>Hyalomma truncatum</i> Koch 1844. D. T. DE WAAL, F. T. POTGIETER, M. P. COMBRINK and T. E. MASON.....	57	229-232

	Volume	Page
Transovarial transmission		
The transovarial transmission of <i>Babesia caballi</i> by <i>Hyalomma truncatum</i> . D. T. DE WAAL	57	99–100
Trichomonas foetus		
An efficient medium for the isolation of <i>Trichomonas foetus</i> . L. M. M. RIBEIRO	57	209–210
Trichostrongylus colubriformis		
A field strain of <i>Trichostrongylus colubriformis</i> resistant to levamisole and morantel in South Africa. J. A. VAN WYK, G. F. BATH, H. M. GERBER and REGINA M. R. ALVES	57	119–122
Tylecodon grandiflorus		
The toxic effects on cardiac myocytes of tyledoside F, a cumulative neurotoxic cardiac glycoside isolated from <i>Tylecodon grandiflorus</i> . J. M. VAN ROOYEN and J. J. VAN DER WALT	57	223–227
Tyledoside F		
The toxic effects on cardiac myocytes of tyledoside F, a cumulative neurotoxic cardiac glycoside isolated from <i>Tylecodon grandiflorus</i> . J. M. VAN ROOYEN and J. J. VAN DER WALT	57	223–227
Udder health		
Udder health implications of premature bovine mammary regression. I. Clinical, subclinical and reducing sugar changes in milk during 168 hours of suspended milking in mid-lactation. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI	57	25–35
Udder health implications of premature bovine mammary regression. II. Collateral intramammary reactions in quarters milked normally during 168-hour milk stasis in opposite quarters. W. H. GIESECKE, P. A. KORYBUT-WORONIECKI and Z. E. KOWALSKI	57	49–56
Ungulates		
Two new species of ticks from southern Africa whose adults parasitize the feet of ungulates: <i>Rhipicephalus lounsburyi</i> n. sp. and <i>Rhipicephalus neumanni</i> n. sp. (Ixodoidea, Ixodidae). JANE B. WALKER	57	57–75
Vaccine		
Failure of an <i>Actinomyces pyogenes</i> vaccine to protect sheep against an intravenous challenge. PAMELA HUNTER, J. J. VAN DER LUGT and J. J. GOUWS	57	239–241
Vasoconstrictory response		
A comparison of haemodynamic and vasoconstrictory responses in sheep with a toxic fraction from <i>Pachystigma pygmaeum</i> and with the plant material. J. J. VAN DER WALT, J. M. VAN ROOYEN and A. P. LÖTTER	57	157–161
Vitamin B6		
Pyridoxine (a vitamin B6) and its derivative pyridoxal as treatment for <i>Albizia versicolor</i> poisoning in guinea-pigs. B. GUMMOW and G. L. ERASMUS	57	109–114
Warthogs		
Parasites of South African wildlife. V. A description of the males of <i>Oesophagostomum mocambiquei</i> Ortlepp, 1964 from warthogs, <i>Phacochoerus aethiopicus</i> (Pallas, 1766). J. BOOMKER	57	169–173
Wildebeest-derived malignant catarrhal fever		
Epidemiology of wildebeest-derived malignant catarrhal fever in South Africa: inability to transfer the disease with an African face fly <i>Musca xanthomelas</i> (Diptera: Muscidae). B. J. H. BARNARD, R. G. BENGIS and S. F. VOGES	57	89–93
Epizootology of wildebeest-derived malignant catarrhal fever: possible transmission among cows and their calves in the north-western Transvaal. B. J. H. BARNARD	57	201–204
Wildlife		
Parasites of South African wildlife. V. A description of the males of <i>Oesophagostomum mocambiquei</i> Ortlepp, 1964 from warthogs, <i>Phacochoerus aethiopicus</i> (Pallas, 1766). J. BOOMKER	57	169–173