Supplementary Information

Reflections, applications and future directions of Long-Term Ecological Research at Tierberg
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Appendix S1: A full list of publications produced during ca. 30 years of research at Tierberg-LTER

	Tierberg-LTER Publications	***Theme allocation in Table 1**
1	Armstrong AJ, Siegfried WR. 1990. Selective use of heuweltjie earth mounds by sheep in the Karoo. South African Journal of Ecology 1: 77–80.	E3
2	Bond WJ, Stock WD, Hoffman MT. 1994. Has the Karoo spread? A test for desertification using carbon isotopes from soils. South African Journal of Science 90: 391–397.	A4
3	Booi N. 2011. Structure and function of heuweltjies across a rainfall gradient in the South-Western Cape. Masters dissertation, University of Stellenbosch, South Africa.	E1
4	Brain P. 1989. Genetic races in a ring species, Acacia karroo. South African Journal of Science 85: 181–185.	A1
5	Braschler B, Chown SL, Gaston KJ. 2012. The Fynbos and Succulent Karoo biomes do not have exceptional local ant richness. PLoS ONE 7(3): e31463. doi:10.1371/journal.pone.0031463	A2
6	Brooke RK, Dean WRJ. 1990. On the biology and taxonomic position of Drymoica substriata Smith, the so-called Namaqua Prinia. Ostrich 61: 50–55.	C2
7	Bruyns P. 1990. New taxa from the arid regions of southern Africa. South African Journal of Botany 56: 125–132.	A1
8	Cowling RM. 1986. A description of the Karoo Biome Project. A report of the Committee for Terrestrial Ecosystems National Programme for Ecosystem Research, South African National Scientific Programmes Report No. 122. Pretoria: Foundation for Research and Development, Council for Scientific and Industrial Research.	5
9	Cowling RM, Roux PW (eds). 1987. The karoo biome: a preliminary synthesis. Part 2 – vegetation and history. A report of the Committee for Terrestrial Ecosystems National Programme for Ecosystem Research, South African National Scientific Programmes Report No. 142. Pretoria: Foundation for Research and Development, Council for Scientific and Industrial Research.	B2
10	Cowling RM, Roux PW, Pieterse AJH (eds). 1986. The karoo biome: a preliminary synthesis. Part 1 – physical environment. Report of the Committee for Terrestrial Ecosystems National Programme for Ecosystem Research, South African National Scientific Programmes Report No. 124. Pretoria: Foundation for Research and Development, Council for Scientific and Industrial Research.	A4, E4
11	Dean WRJ. 1988a. Seeds, ants and students: The FitzPatrick Institute's research in the Karoo. UCT News Magazine 15: 9–11.	E2

12	Dean WRJ. 1988b. Spider predation on termites. Journal of the Entomological Society of Southern Africa 51: 147–148.	D2
13	Dean WRJ. 1989. Foraging and forager-recruitment in Ophthalmopone hottentota Emery (Hymenoptera: Formicidae). PSYCHE 96: 123–130.	C2
14	Dean WRJ. 1991. Ecological effects of mound building by the harvester ant Messor capensis on Karoo plants. Masters dissertation, University of Natal, South Africa.	E1, E2
15	Dean WRJ. 1992. Effects of animal activity on the absorption rate of soils in the southern Karoo, South Africa. Tydskrif van die Weidingsvereniging van Suid Afrika 9: 178–180.	E4
16	Dean WRJ. 1993a. Alpine swifts opportunistically feeding on cicadas. Ostrich 64: 42–43.	C2, D2
17	Dean WRJ. 1993b. Unpredictable foraging behaviour in Microhodotermes viator (Isoptera: Hodotermitidae): an antipredator tactic? Journal of African Zoology 107: 281–285.	C2
18	Dean WRJ. 1995a. Die invloed van die neshope van die graanvretended mier Messor capensis of Karoo-plantgroei. Suid Afrikanse Tydskrif vir Natuurwetenskap en Tegnologie 14: 17–23.	E1
19	Dean WRJ. 1995b. Where birds are rare or fill the air: the protection of the endemic and the nomadic avifaunas of the Karoo. PhD thesis, University of Cape Town, South Africa.	A2, D2
20	Dean WRJ. 1997. The distribution and biology of nomadic birds in the Karoo, South Africa. Journal of Biogeography 24: 769–779.	D2
21	Dean WRJ. 2000. Factors affecting bird diversity patterns in the Karoo, South Africa. South African Journal of Science 96: 609–616.	E1
22	Dean WRJ. 2004. Nomadic desert birds. Adaptations of desert organisms series. Springer-Verlag, Berlin, Heidelberg, New York. 185 pp.	A2
23	Dean WRJ. 2006. Longevity and survival of colonies of Messor capensis (Formicidae: Myrmicinae) in the Karoo, South Africa. African Entomology 14: 381–383.	D2
24	Dean WRJ, Barnard P, Anderson MD. 2009. When to stay, when to go: trade-offs for southern African arid-zone birds in times of drought. *South African Journal of Science* 105: 24–28.	C2
25	Dean WRJ, Griffin E. 1993. Seasonal activity patterns and habitats in Solifugae (Arachnida) in the southern Karoo, South Africa. South African Journal of Zoology 28: 91–94.	D2
26	Dean WRJ, Hoffman MT, Kerley GIH, Milton SJ. 1995a. Desertification in developed countries: in search of the silver bullet. Suid-Afrikaanse Tydskrif vir Wetenskap 91: 213–215.	5
27	Dean WRJ, Hoffman MT, Meadows ME, Milton SJ. 1995b. Desertification in the semi-arid Karoo, South Africa: review and reassessment. Journal of Arid Environments 30: 247–264	5
28	Dean WRJ, Hoffman MT, Willis CK. 1996. Meeting report: The light and the way in South African desertification research. South African Journal of Science 92: 170–171.	5

29	Dean WRJ, MacDonald IAW. 1995 Historical changes in stocking rates of domestic livestock as a measure of semi-arid and arid rangeland degradation in the Cape Province, South Africa. Journal of Arid Environments 26: 281–298.	B3
30	Dean WRJ, Midgley JJ, Stock WD. 1994. The distribution of misteltoes in South Africa: patterns of species richness and host choice. Journal of Biogeography 21: 503–510.	D1, E1
31	Dean WRJ, Milton SJ. 1991a. Disturbances in semi-arid shrubland and arid grasslands in the Karoo, South Africa: mammal diggings as germination sites. African Journal of Ecology 29: 11–16.	E1, E2
32	Dean WRJ, Milton SJ. 1991b. Emergence and oviposition of Quintillia cf. conspersa Karsch (Homoptera: Cicadidae) in the southern Karoo, South Africa. Journal of the Entomological Society of Southern Africa 54: 111 –119.	C2, D2
33	Dean WRJ, Milton SJ. 1991c. Galium tomentosum, a yarn for the birds. Veld & Flora 77: 82–83.	C2
34	Dean WRJ, Milton SJ. 1992. Emergence and density of Quintillia cf. vitripennis Karsch (Homoptera, Cicadidae) in the southern Karoo. Journal of the Entomological Society of Southern Africa 55: 71–75.	C2, D2
35	Dean WRJ, Milton SJ. 1993a. Soils and seed-harvesting ants in the Karoo. Veld & Flora 79: 22–23.	D2, D4
36	Dean WRJ, Milton SJ. 1993b. The use of Galium tomentosum (Rubiaceae) as nest material by birds in the southern Karoo. Ostrich 64: 187–189.	C2
37	Dean WRJ, Milton SJ. 1995. Plant and invertebrate assemblages on old fields in the arid southern Karoo, South Africa. African Journal of Ecology 33: 1–13.	B2
38	Dean WRJ, Milton SJ (eds). 1999. *The Karoo, ecological patterns and processes.* Cambridge: Cambridge University Press.	5
39	Dean WRJ, Milton SJ. 2001a. Responses of birds to rainfall and seed abundance in the southern Karoo, South Africa. Journal of Arid Environments 47: 101–121.	E2
40	Dean WRJ, Milton SJ. 2001b. The density and stability of birds in shrublands and drainage line woodland in the southern Karoo, South Africa. Ostrich 72: 185–192.	D2
41	Dean WRJ, Milton SJ, du Plessis MA. 1995c. Where, why, and to what extent have rangelands in the Karoo, South Africa, desertified. Environmental Monitoring and Assessment 37: 103–110.	B2
42	Dean WRJ, Milton SJ, du Plessis MA, Siegfried WR. 1995d. Dryland degradation: symptoms, stages, and hypothetical cures. In: Roundy BA, McArthur ED, Haley JS, Mann DK (compilers), Proceedings: Wildland Shrub and Arid Land Restoration Symposium. 19-21 October 1993, Las Vegas, Nevada. General Technical Report INT=GTR-315. U.S. Department of Agriculture, Forest Service: Intermountain Research Station. pp 178–182.	B2
43	Dean WRJ, Milton SJ, Siegfried WR. 1990. Dispersal of seeds as nest material by birds in semiarid karoo shrubland. Ecology, 71: 1299–1306.	C2, D2
44	Dean WRJ, Seymour CL, Joseph GS. 2018. Linear structures in the Karoo, South Africa, and their impacts on biota. African Journal of Range and Forage Science 35: 223–232.	D3

45	Dean WRJ, Siegfried WR. 1990. The use of wool as nest material by birds in the Karoo, South Africa: bane or bonus? South African Journal of Ecology 1: 31–32.	C2
46	Dean WRJ, Turner JS. 1991. Ants nesting under stones in the semi-arid Karoo, South Africa: predator avoidance or temperature benefits? Journal of Arid Environments 21: 59–69.	C2
47	Dean WRJ, Yeaton RI. 1992. The importance of harvester ant Messor capensis nest-mounds as germination sites in the southern Karoo, South Africa. African Journal of Ecology 30: 335–345.	E1
48	Dean WRJ, Yeaton RI. 1993a. The influence of harvester ant Messor capensis nest-mounds on the productivity and distribution of some plant species in the southern Karoo, South Africa. Vegetatio 106: 21– 35.	E1
49	Dean WRJ, Yeaton RI. 1993b. The effects of harvester ant Messor capensis nest-mounds on the physical and chemical properties of soils in the southern Karoo, South Africa. Journal of Arid Environments 25: 249–260.	A4, E4
50	Dean WRJ, Williams JB. 1999. Sunning behaviour and its possible influence on digestion in the Whitebacked Mousebird Colius colius. Ostrich 70: 239–241.	C2
51	Dean WRJ, Williams JB, Milton SJ. 1993. Breeding of the White-backed Mousebird Colius colius in relation to rainfall and phenology of fruiting plants in the southern Karoo, South Africa. Journal of African Zoology 107: 105–111.	D1, D2
52	Djukic I, Kepfer-Rojas S, Schmidt IK, Larsen KS, Beier C, Berg B, Verheyen K. 2018. Early stage litter decomposition across biomes. Science of the Total Environment 628–629: 1369–1394.	E4
53	Du Plessis A. 1989. Ecophysiology of the bush Karoo rat Otomys unisulcatus and the whistling rat Parotomys brantsii. Masters dissertation, University of Port Elizabeth, South Africa.	C2
54	Du Plessis A, Kerley GIH. 1991. Refuge strategies and habitat segregation in two sympatric rodents, Otomys unisulcatus and Parotomys brantsii. Journal of Zoology (Lond.) 224: 1–10.	C2
55	Du Plessis A, Kerley GIH, Deo Winter PE. 1992. Refuge microclimates of rodents: a surface nesting Otomys unisulcatus and a burrowing Parotomys brantsii. Acta Theriologica 37: 351–358.	C2, D2
56	Eccard JA, Walther RB, Milton SJ. 2000. How livestock grazing affects vegetation structures and small mammal distribution in the semi-arid Karoo. Journal of Arid Environments 46: 103–106.	B3, D3
57	Eisinger D. 1998. Density effects on the mortality and growth of young shrubs in the semi-arid Karoo. Masters dissertation, University of Cape Town, South Africa.	D1, E1
58	Esler KJ. 1993. Vegetation pattern and plant reproductive processes in the succulent Karoo. PhD thesis, University of Cape Town, South Africa.	A1, D1
59	Esler KJ, Cowling RM. 1993. Edaphic factors and competition as determinants of pattern in South African Karoo vegetation. South African Journal of Botany 59: 287–295.	A4, D4, E4
60	Esler KJ, Cowling RM. 1995. The comparison of selected life-history characteristics of Mesembryanthema species occurring on and off Mima-like mounds (heuweltjies) in semi-arid southern Africa. Vegetatio 116: 41–50.	A1

61	Esler KJ, Cowling RM, Ivey P. 1992. Seed biology of three species of Mesembryanthema in the southern succulent Karoo. South African Journal of Botany 58: 343–348.	A1
62	Esler KJ, Milton SJ, Dean WRJ. (eds). 2006. *Karoo Veld: ecology and management* (1st edn). Pretoria: Briza Publications.	5
63	Esler KJ, Phillips N. 1994. Experimental effects of water stress on semi-arid Karoo seedlings: implications for field seedling survivorship. Journal of Arid Environments 26: 325–337.	E1
64	Fahse L, Dean WRJ, Wissel C. 1998. Modelling the size and distribution of protected areas for nomadic birds: alaudidae in the Nama-Karoo, South Africa. Biological Conservation 85: 105–112.	D2
65	Gasser S. 1999. Factors determining the spatial distribution of Atriplex lindleyi. Diplomarbeit thesis, University of Innsbruck, Austria.	A1, E1
66	Gess FW, Gess SK. 1988a. A contribution to the knowledge of the ethology of the genera Parachilus Giordani Soika and Paravespa Radoszkowski (Hymenoptera: Eumenidae) in southern Africa. Annals of Cape Provincial Museum (Natural History) 18: 57–81.	A2
67	Gess FW, Gess SK. 1988b. A further contribution to the knowledge of the ethology of the genus Ceramius Latreille (Hymenoptera: Masaridae) in the southern and western Cape Province of South Africa. Annals of Cape Provincial Museum (Natural History) 18: 1–30.	A2
68	Gess FW, Gess SK. 1989a. Solitary wasps: a valuable asset. African Wildlife 43: 24–29.	A2, C2, D2
69	Gess SK, Gess FW. 1989b. Flower visiting by masarid wasps in southern Africa (Hymenoptera: Vespoidea: Masaridae). Annals of the Cape Provincial Museum (Natural History) 18: 95–134.	D2
70	McManus J, Goets SA, Bond WJ, Henschel JR, Milton SJ. 2018. Effects of short-term intensive trampling on Karoo vegetation. African Journal of Range and Forage Science 35: 311–318.	C1
71	Helme N. 1990. Disturbance and community dynamics on heuweltjies. Honours Project, University of Cape Town, South Africa.	E1, E2
72	Henschel JR, Lubin YD. 2018. Web spider abundance is affected by sheep farming in the Karoo. African Journal of Range and Forage Science 35: 319–324.	D3
73	Ju J, Roy DP, Shuai Y, Schaaf C. 2010. Development of an approach for generation of temporally complete daily nadir MODIS reflectance time series. Remote Sensing of Environment 114: 1–20.	A4
74	Kerley GIH. 1988. On bossies, bokkies, boere and mice. Karoo Region Newsetter. 2: 7–8.	A2
75	Kerley GIH. 1989. Diet of small mammals from the Karoo, South Africa. South African Journal of Wildlife Research 19: 67–72.	C2
76	Kerley GIH. 1990a. Browsing by Lepus capensis in the Karoo. South African Journal of Zoology 25(3): 199–200.	C2
77	Kerley GIH. 1990b. Small mammals as granivores in the Karoo. PhD thesis, University of Port Elizabeth, South Africa.	C2, D2
78	Kerley GIH. 1991. Seed removal by rodents, birds, and ants in the semi-arid Karoo, South Africa. Journal of Arid Environments 20: 63–69.	B2, E2

79	Kerley GIH. 1995. The Round-eared Elephant-Shrew Macroscelides proboscideus (Macroscelidea) as an omnivore. Mammal Review 25: 39–44.	C2
80	Köhler G, Roth S, Reinhardt K. 2007. Ten instars in the Leprous Grasshopper, Phymateus leprosus (Fabricius, 1793) (Caelifera: Pyrgomorphidae): maximum number recorded in the Acridoidea. Bonner zoologische Beiträge 56: 17–24.	A2
81	Köhler G, Samietz J, Wagner G. 2001a. Field observations on the Bush Locust, Phymatues leprosus (Fabricius, 1793), in the Great Karoo, South Africa (Acridoidea: Pyrgomorphidae). Opuscula Zoologica Fluminenensia 191: 1-15.	A2
82	Köhler G, Wagner G, Roth S, Samietz J, Optiz S, Green SV. 2001b. Auf exkursion im südlichen Afrika. I. Kurzfühlerschrecken (Caelifera) in der südafrikanischen Kapregion. Veröffentlichungen Naturkundemuseum Erfurt 20: 129–150.	A2
83	Leuteritz TEJ. 2004. Reproductive biology of Psammobates tentorium on the Tierberg Karoo Research Centre. Unpublished postdoctoral research report. Chelonian Biology Unit, University of the Western Cape, South Africa.	D2
84	Leuteritz TEJ, Hofmeyr MD. 2007. The extended reproductive season of tent tortoises (Psammobates tentorius tentorius): A response to an arid and unpredictable environment. Journal of Arid Environments 68: 546–563.	C2, D2
85	Leuteritz TEJ. 2005. Chamaeleonidae: Chamaeleo namaquensis Smith, 1831 Namaqua Chamaeleon. African Herp News 38: 30.	A2
86	McKechnie AE, Körtner G, Lovegrove BG. 2004. Rest-phase thermoregulation in free-ranging White-backed Mousebirds. The Condor 106: 143–149.	C2
87	McKechnie AE, Lovegrove BG. 2001. Thermoregulation and the energetic significance of clustering behavior in the white-backed mousebird (Colius colius). Physiological and Biochemical Zoology 74: 238–249.	C2
88	Milton SJ. 1987. Back to basics: veld management research in the Karoo. Annual Research meeting of the Karoo Biome Project. Grootfontein Agricultural College, Middelburg.	5
89	Milton SJ. 1990a. Above-ground biomass and plant cover in a succulent shrubland in the southern Karoo, South Africa. South African Journal of Botany 56: 587–589.	A1
90	Milton SJ. 1990b. Life styles of plants in four habitats in an arid Karoo shrubland. South African Journal of Ecology : 63–72.	A1
91	Milton SJ. 1991. Plant spinescence in arid southern Africa: does moisture mediate selection by mammals? Oecologia 87: 279–287.	C1
92	Milton SJ. 1992a. Effects of rainfall, competition and grazing on flowering of Osteospermum sinuatum (Asteraceae) in arid Karoo rangeland. Tydskrif van die Weidingsvereniging van Suid Afrika 9: 158–164.	E1
93	Milton SJ. 1992b. Plants eaten and dispersed by adult leopard tortoises Geochelone pardalis (Reptilia: Chelonii) in the southern Karoo. South African Journal of Zoology 27: 45–49.	E1
94	Milton SJ. 1992c. Studies on herbivory and vegetation change in Karoo shrublands. PhD thesis, University of Cape Town, South Africa.	B3
95	Milton SJ. 1993. Insects from the shrubs Osteospermum sinuatum and Pteronia pallens (Asteraceae) in the southern Karoo. African Entomology 1: 257–261.	D2
96	Milton SJ. 1994a, June. Desertification: the point of no return. Effective Farming 9: 315.	B3, 5

97	Milton SJ. 1994b. Growth, flowering and recruitment of shrubs in grazed and in protected rangeland in the arid Karoo, South Africa. Vegetatio 111: 17–27.	A3, D1
98	Milton SJ. 1994c, November 18. Managing grazing plants in the Karoo. Farmers Weekly pp 20–21.	D3
99	Milton SJ. 1994d. Small-scale reseeding trials in arid rangeland: effects of rainfall, clearing and grazing on seedling survival. African Journal of Range and Forage Science 11: 54–57.	D3
100	Milton SJ. 1995a. Effects of rain, sheep and tephritid flies on seed production of two arid Karoo shrubs in South Africa. Journal of Applied Ecology 32: 137–144.	D1, E1
101	Milton SJ. 1995b. Spatial and temporal patterns in the emergence and survival of seedlings in arid Karoo shrubland. Journal of Applied Ecology 32: 145–156.	E1
102	Milton SJ, Collins H. 1989. Hail in the southern Karoo. Veld & Flora 75: 69–73.	A4, E4
103	Milton SJ, Dean WRJ. 1990a. Mima-like mounds in the southern and western Cape: are the origins so mysterious? South African Journal of Science 86: 207–208.	B4
104	Milton SJ, Dean WRJ. 1990b. Seed production in rangelands of the southern Karoo. South African Journal of Science 86: 231–233.	A3
105	Milton SJ, Dean WRJ. 1992. An underground index of rangeland degradation: cicadas in arid southern Africa. Oecologica 91: 288–291.	D2
106	Milton SJ, Dean WRJ. 1993a. Selection of seeds by harvester ants (Messor capensis) in relation to condition of arid rangeland. Journal of Arid Environments 24: 63–74.	E3
107	Milton SJ, Dean WRJ. 1993b. The leopard tortoise in the Karoo. African Wildlife 47: 27–28.	A2
108	Milton SJ, Dean WRJ. 1994. Factors influencing the recruitment of forage plants in arid Karoo shrublands, South Africa. In: Roundy BA, McArthur ED, Haley JS, Mann DK (comps.), Proceedings: Wildland Shrub and Arid Land Restoration Symposium. 19–12 October 1993, Las Vegas, Nevada. General Technical Report INT-GTR-315. Ogden, UT: U.S. Dept of Agriculture, Forest Service, Intermountain Research Station, pp. 216–222.	D1, E1
109	Milton SJ, Dean WRJ. 1995. South Africa's arid and semiarid rangelands: why are they changing and can they be restored? Environmental Monitoring and Assessment 37: 245–264.	B1, B3
110	Milton SJ, Dean WRJ. 1996a. *Karoo Veld: Ecology and Management* . Pretoria: Range and Forage Institute, Agricultural Research Council.	5
111	Milton SJ, Dean WRJ. 1996b. Rates of wood and dung decay disintegration in arid South African rangelands. African Journal of Range & Forage Science 13: 89–93.	A4
112	Milton SJ, Dean WRJ. 1999a. Nesting thyme – the use of aromatic plants in Cape Sparrow nests. Africa, Birds & Birding Feb/Mar 4: 37–39.	C2
113	Milton SJ, Dean WRJ. 1999b. The selective use of green aromatic plants in Karoo bird nests. Ostrich 70: 243–245.	C2
114	Milton SJ, Dean WRJ. 2001. Seeds dispersed in dung of insectivores and herbivores in semi-arid southern Africa. Journal of Arid Environments 47: 465–483.	D1, E1

115	Milton SJ, Dean WRJ. 2004. Meeting Report: Adaptations in desert organisms: even the bad times may be good. South African Journal of Science 100: 405–407.	C1, C2
116	Milton SJ, Dean WRJ. 2007. Response of arid shrubland to nitrogen and potassium additions over 9 years at Tierberg Karoo LTER, South Africa [Abstract]. 92nd Annual Conference of the Ecological Society of America, San Jose, California.	A4, E4
117	Milton SJ, Dean WRJ, du Plessis MA, Siegfried WR. 1994. A conceptual model of arid rangeland degradation: The escalating cost of declining productivity. BioScience 44: 70–76.	B3
118	Milton SJ, Dean WRJ, Ellis RP. 1998. Rangeland health assessment: a practical guide for ranchers in arid Karoo shrublands. Journal of Arid Environments 39: 253–265.	E3, E4
119	Milton SJ, Dean WRJ, Kerley GIH. 1992. Tierberg Karoo Research Centre: history, physical environment, flora and fauna. Transactions of the Royal Society of South Africa 48: 15–46.	A1, A2, A3, A4
120	Milton SJ, Dean WRJ, Leuteritz TEJ. 2004. Opportunistic and multiple breeding attempts in plants and vertebrates of semi-deserts with unpredictable rainfall events through the year. Transactions of the Royal Society of South Africa 59: 43–53.	D1
121	Milton SJ, Dean WRJ, O'Connor TG, Mills AJ. 2007. Scaling up from site-based research to a national research and monitoring network: lessons from Tierberg Karoo Research Centre and other design considerations. South African Journal of Science 103: 311–317.	A3
122	Milton SJ, Dean WRJ, Siegfried WR, Moll EJ, Cowling RM, Hockey PAR. 1989. Seed-granivore systems in the Karoo. Final report for Foundation for Research Development, Terrestrial Ecosystems Section of the National Programme for Environmental Sciences, CSIR, Pretoria.	E2
123	Milton SJ, Gasser S, Bortenschlager S, Dean WRJ. 1999. Invertebrates and leaf damage on alien Atriplex lindleyi Moq. and the indigenous A. vestita (Thunb.) Ael. (Chenopodiaceae) in the southern Karoo, South Africa. African Entomology 7: 1–4.	D2
124	Milton SJ, Gourlay ID, Dean WRJ. 1997. Shrub growth and demography in arid Karoo, South Africa: inference from wood rings. Journal of Arid Environments 37: 487–496.	D1
125	Milton SJ, Hoffman MT. 1994. The application of state-and-transition models to rangeland research and management in arid succulent and semi-arid grassy Karoo, South Africa. African Journal of Range and Forage Science 11: 18–26.	E3
126	Milton SJ, Siegfried, Dean WRJ. 1990. The distribution of epizoochoric plant species: a clue to the prehistoric use of arid Karoo rangelands by large herbivores. Journal of Biogeography 17: 25–34.	B1, B2
127	Milton SJ, Wiegand T. 2001. How grazing turns rare seedling recruitment events to non-events in arid environments. In: Breckle S-W, Veste M, Wucherer W. (eds.), Sustainable Land-Use in Deserts. Heidelberg: Springer. pp 197–207.	E3

128	Rahlao SJ. 2009. Current and future vulnerability of South African ecosystems to perennial grass invasion under global change scenarios. PhD thesis, University of Stellenbosch, South Africa.	B4
129	Rahlao SJ, Milton SJ, Esler KJ, Van Wilgen BW, Barnard P. 2009. Effects of invasion of fire-free arid shrublands by a fire-promoting invasive alien grass (Pennisetum setaceum) in South Africa. Austral Ecology 34: 920–928.	D1, E1
130	Riginos C, Milton SJ, Wiegand T. 2005. Context-dependent interactions between adult shrubs and seedlings in a semi-arid shrubland. Journal of Vegetation Science 16: 331–340.	D1
131	Schurr FM, Bossdorf O, Milton SJ, Schumacher J. 2004. Spatial pattern formation in semi-arid shrubland: a priori predicted versus observed pattern characteristics. Plant Ecology 173: 271–282.	D1
132	Settele J, Hoffmann I, Jahn R, Samietz J, Schafer C, Vetterlein D (eds). 1999. Rangeland management in the Southern Karoo (South Africa): conflicts of land use and environmental conservation. Report of a scientific students excursion. UFZ Report 23/1999. ISSN 0948-9452. Available from UFZ Centre for Environmental Research, Leipzig.	A3
133	Seymour CL, Milton SJ, Joseph GS, Dean WRJ, Ditlhobolo T, Cumming GS. 2010. Twenty years of rest returns grazing potential, but not palatable plant diversity, to Karoo rangeland, South Africa. Journal of Applied Ecology 47: 859–867.	B3
134	Stock WD, Le Roux D, Van der Heyden F. 1993. Regrowth and tannin production in woody and succulent karoo shrubs in response to simulated browsing. Oecologia 96: 562–568.	C1
135	Van der Heyden F. 1992. Effects of defoliation on regrowth and carbon budgets of three semi-arid Karoo shrubs. PhD thesis, University of Cape Town, South Africa..	C1
136	Van der Heyden F, Stock WD. 1995. Nonstructural carbohydrate allocation following different frequencies of simulated browsing in the three semi-arid shrubs. Oecologia 102: 238–245.	C1
137	Van der Heyden F, Stock WD. 1996. Regrowth of a semiarid shrub following simulated browsing: the role of reserve carbon. Functional Ecology 10: 647–653.	C1
138	Van der Merwe H, Rahlao S, Hein L, Milton SJ. 2016. Vegetation dynamics after experimental fire disturbance in the arid Succulent Karoo, South Africa. African Journal of Range and Forage Science 33: 131–135.	A1
139	Van der Merwe H, Milton SJ. 2018. Growth in three Karoo shrub species under various grazing treatments: the tracking of marked individuals over 25 years. African Journal of Range and Forage Science. DOI: 10.2989/10220119.2018.1508071	B3
140	Van der Merwe H, Milton SJ. 2018. Testing the Wiegand–Milton model: a long-term experiment to understand mechanisms driving vegetation dynamics in arid shrublands. Austral Ecology. DOI: 10.1111/aec.12651	B1, D1
141	Wiegand T, Dean WRJ, Milton SJ. 1997. Simulated plant population responses to small-scale disturbances in semi-arid shrublands. Journal of Vegetation Science 8: 163–176.	D1
142	Wiegand T, Jeltsch F. 2000. Long-term dynamics in arid and semiarid ecosystems–synthesis of a workshop. Plant Ecology 150: 3–6.	D1, E1

143 Wiegand T, Milton SJ, Wissel C. 1995. A simulation model for a shrub ecosystem in the semiarid Karoo, South Africa. *Ecology* 76: 2205–2221. D1, E1

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***Research themes of Table 1**

A1 = Ecosystem description; Flora & vegetation
A2 = Ecosystem description; Fauna
A3 = Ecosystem description; Land use & management
A4 = Ecosystem description; Climate & soils
B1 = Historical biogeography & quartenary vegetation change; Flora & vegetation
B2 = Historical biogeography & quartenary vegetation change; Fauna
B3 = Historical biogeography & quartenary vegetation change; Land use & management
B4 = Historical biogeography & quartenary vegetation change; Climate & soils
C1 = Adaptive physiology & behaviour; Flora & vegetation
C2 = Adaptive physiology & behaviour; Fauna
C3 = Adaptive physiology & behaviour; Land use & management
C4 = Adaptive physiology & behaviour; Climate & soils
D1 = Reproductive ecology, population dynamics & species interactions; Flora & vegetation
D2 = Reproductive ecology, population dynamics & species interactions; Fauna
D3 = Reproductive ecology, population dynamics & species interactions; Land use & management
D4 = Reproductive ecology, population dynamics & species interactions; Climate & soils
E1 = Community processes, modelling; Flora & vegetation
E2 = Community processes, modelling; Fauna
E3 = Community processes, modelling; Land use & management
E4 = Community processes, modelling; Climate & soils
5 = Books, Karoo Biome Project & desertification reports