

Short CV

Sue J. Milton-Dean

Name:	MILTON-DEAN SJ	Nationality:	South African
Profession:	Plant Ecologist	Place of Birth:	Cape Town, Western Cape
Years with Firm:	Self employed	Date of Birth:	1952 July 13
Professional registration	SACNSP Professional Natural Scientist (Reg. No. 400047/08) as Botanist and Ecologist		
ORCID ID	orcid.org/0000-0003-4390-6040		

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Career summary:

A plant ecologist with 40 years of experience, Sue Milton has been involved in resource assessment in the arid zone (arid savanna, Karoo) since 1987 and before that in coastal thicket, fynbos, indigenous forest and savanna. She currently consults through **Renu-Karoo Veld Restoration cc** (established 3.2007, directors Dr Sue Milton and Dr Richard Dean) and specialises in Karoo vegetation restoration and dynamics in response to grazing, ploughing, mining, alien plant invasion, drought and other forms of disturbance. **Renu-Karoo Veld Restoration cc** also produces and markets indigenous Karoo seeds and plants for veld restoration. She is Secretary/Treasurer for **Wolvekraal Conservation and Research Organisation** (www.wcro.co.za) an NGO established to manage Wolwekraal Nature Reserve and facilitate research into Karoo biodiversity and veld restoration. WCRO accepts Nature Conservation students for experiential training (supporting and mentoring 8 students on one year contracts from 2009-2012) and is currently hosting an intern supported by the South African Environmental Observatory Network (SAEON).

From 1994 to 2010 she lectured at UWC, UCT, Stell., CPUT and NMMU and ran field excursions on various aspects of resource conservation including rangeland assessment and rehabilitation of Karoo vegetation following overgrazing and mining. From 1999-2001 she was head of Conservation Ecology at Stellenbosch University. From 2002 to 2007 she was a National Research Foundation B-rated researcher (independent researcher whose enjoys international recognition) and part-time Professor in Conservation Ecology at Stellenbosch University. During this time she supervised 25 MSc and 2 PhD theses dealing with resource use and rehabilitation in arid savanna, Nama- and Succulent Karoo and Renosterveld. She is currently Honorary Professor at the Percy Fitzpatrick Institute at the University of Cape Town and an associate of the South African Environmental Observatory Network (SAEON).

To date Sue Milton and co-authors have published 8 books, 17 book chapters, 174 scientific papers, as well as 55 articles in newspapers and popular magazines such as African Wildlife and Environment, Veld & Flora, To Go To

Sue Milton has also provided specialist botanical and ecological services to Telkom, Eskom, Vodacom, SRK consulting, DWAF, Kwezi-V3 Engineers, CSV Construction, Drakenstein Municipality, Eastern Cape Parks Board, Exxaro, Groundwater Africa, CCA Environmental, Ferret Mining, GeoConsult International, Nature Conservation Corporation, JCI, Prince Albert Municipality, Aurecon, Sharples, Fynbos Forum, SAEON, WESSA, Working for Water, as well as to private clients requiring vegetation surveys or assessments of the grazing value of Karoo veld and advice on veld restoration.

From 1999-2002 she served on the Board of SANParks; 2003-2005 chair the Ecology Research advisory committee of Working for Water (DWAF). She has served on the editorial committees of various scientific journals *African Journal of Range and Forage Science*, *Basic and Applied Ecology*, served as associate editor for *Journal of Applied Ecology* (5 years), and associate editor for *Journal of Arid Environments* (10 years).

Education:

- 1975 BABS (English, Botany, Zoology), University of Cape Town, South Africa
1976 Hons (Nature Conservation), University of Stellenbosch, South Africa
1981 MSc (Botany), University of Cape Town, South Africa
1992 PhD (Zoology), University of Cape Town, South Africa
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Awards

- 2004 Cape Tercentenary Foundation Molteno Medal (Gold) for Conservation
2005 GSSA Prestige Award, Grassland Society of Southern Africa
2006 Honorary Membership. Ecological Society of America
2007 Nominee for Shoprite-Checkers Woman of the Year
2008 Rufford Small Grants Foundation conservation grant
2010 Joint recipient with Dr Richard Dean of Cape Nature Special Conservation Award
Renu-Karoo received SEDA Award for most Innovative SMME in South Africa
Rufford Small Grants Foundation booster grant
2011 Renu-Karoo runner up in Mail and Guardian "Greening the Future" Biodiversity and natural resource management award Runner-up
2012 Rufford Small Grants Foundation continuation grant
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Major publications

- 1982 Milton, S.J. & Moll, E.J. 1982. Phenology of Australian acacias in the S.W. Cape, South Africa, and its implications for management. *Botanical Journal of the Linnean Society* 84:295-327.
- 1986 Milton, Sue J. & Bond, Creina 1986. Thorn trees and the quality of life in Msinga. *Social Dynamics* 12:64-76.
- 1988 Milton, S.J. & Moll, E.J. 1988. Effects of harvesting on frond production of *Rumohra adiantiformis* (Pteridophyta: Aspidiaceae) in South Africa. *Journal Applied Ecology* 25:725-743.
- 1994 Milton, S.J., Dean, W.R.J., du Plessis, M.A. & Siegfried, W.R. 1994. A conceptual model of arid rangeland degradation: the escalating cost of declining productivity. *BioScience* 44(2):70-76.
- 1995 Milton, S.J., Dean, W.R.J., Marincowitz, C.P. & Kerley, G.I.H. 1995. Effects of the 1990/91 drought on rangeland in the Steytlerville Karoo, South Africa. *South African Journal of Science* 91(2):78-84.
- 1996 Milton, S.J. & Dean, W.R.J. 1996. *Karoo Veld: Ecology and Management*. Range and Forage Institute, Agricultural Research Council, Pretoria, 94 pp
- 1999 Dean, W.R.J. & Milton, S.J. (eds) 1999. *The Karoo, ecological patterns and processes*. Cambridge University Press, Cambridge, U.K. 374 pp,
- 2001 Milton, S.J. & Wiegand, T. 2001. How grazing turns rare seedling recruitment events to non-events in arid environments. Pages 197-207 in Breckle S.-W., Veste, M. & Wucherer, W. (eds) *Sustainable Land-Use in Deserts* Springer, Heidelberg
- 2003 Milton, S.J. 2003. "Emerging ecosystems" – a washing-stone for ecologists, economists and sociologists? *South African Journal of Science* 99:404-406.
- 2005 Netshilaphala, N.M., Milton, S.J. & Robertson, H.G. 2005. Response of an ant assemblage to mining and vegetation recovery on the arid Namaqualand coast, South Africa. *African Entomology* 13(1):162-167
- 2006 Shiponeni, N.N. & Milton, S.J. 2006. Seed dispersal in the dung of large herbivores: implications for restoration of Renosterveld shrubland old fields. *Biodiversity and Conservation* 15(10): 3161-3175.
- 2006 Esler, K.J., Milton, S.J. & Dean, W.R.J. 2006. *Karoo Veld - Ecology and Management*. Briza Press, Pretoria. 224 pages. ISBN 1 875093 52 4
- 2007 Aronson, J., Milton, S.J. & Blignaut, J.N. (eds). 2007. *Restoring Natural Capital: Science, Business and Practice*. Island Press, Washington, D.C. 390 pp.
- 2010 Milton, S.J. & Dean, W.R.J. 2010. Plant invasions in arid areas: special problems and solutions: a South African perspective. *Biological Invasions* 12:3935–3948
- 2010 Seymour, C. L., Milton, S. J., Joseph, G. S., Dean, W. R. J., Dithobolo, T. and Cumming, G. S. 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
- 2011 Milton, S.J. and Dean, W.R.J. 2011. Changes in rangeland capital: trends, drivers and

consequences. Pages 74-78 in Zietsman, L. (ed) Observations on Environmental Change in South Africa. Sun Press, Stellenbosch.

- 2015 Milton, S.J. & Dean, W.R.J. 2015. Repairing compound damage in arid ecosystems - challenges and controversies Transactions of the Royal Society of South Africa 70(2) 127-133 (Special Issue L. Scott)
<http://www.tandfonline.com/eprint/icYRzaiHGaCiDWFJ9FVvk/full>

Major environmental consulting assignments in South Africa

- 2016.06 Square Kilometer Array (SKA) Phase 1 South Africa SEA Biodiversity Specialist Impact Assessment report. For CSIR, Pretoria
- 2015.10 Alien vegetation management plan (Eden District) for Aurecon Group, South Africa
- 2015.08 Impact assessment for Williston boreholes and associated pipeline infrastructure.. Sharples Environmental Services
- 2015.07 Alien vegetation management plan (Central Karoo) for Aurecon Group, South Africa
- 2013-2014 Numerous borrow pit assessments in Central and Little Karoo for Aurecon Group, South Africa
- 2012.04 Compliance Assessment and Broad-scale Habitat Sensitivity Assessment for Uranium Prospecting 2012.04.28. Tasman Pacific via Geoconsult International
- 2011.11 Vegetation on the property surrounding the Mineral Separation Plant, Koekenaap: Description, sensitivity assessment and damage mitigation. Exxaro-Namakwa Sands
- 2011.04 Road-verge Vegetation Management Guidelines. 2011.04.30. Eden District Municipality, George.
- 2011.02 Broad Level Biodiversity Assessment for Fibre Optics Cable Installation between Skimmelkranz (George) and Yzerfontein in the Western Cape. 2011.02.25 Jeffaries & Green Consulting Engineers
- 2010.07 Feasibility and benefits of veld rehabilitation following control of invasive *Prosopis* in the Calvinia area. Working for Water: Namaqua District Municipality.
- 2009.6-10 Three specialist fauna and flora prospecting impact reports for Tasman Pacific
- 2008.03 Subsidiary management plan co-ordination for Oviston Nature Reserve
- 2008-02 Data archiving for SAEON (South African Environmental Observatory Network)
- 2008-01 Prospecting impacts: specialist reports for the farms in the Rijskuil channel near Beaufort West. (for Ferret Mining & Environmental Services (Pty) Ltd)
- 2007-12 Botanical specialist assessment for orchard development, Prince Albert (Damascus)
- 2007-10 Borrowpit management plan for site near Merweville for Kwezi-V3
- 2007-03 Vegetation sensitivity report for proposed borrow pits in the Beaufort West and Murraysburg Districts of the Central Karoo (for CCA Environmental)
- 2007.02 Prospecting impacts: specialist reports for the farms Haanekuul and Katdoringkuil, Beaufort West. (for Ferret Mining (Pty) Ltd)
- 2007.05
- 2007-04 Prince Albert Municipality Artificial Recharge Scheme: Environmental requirements for implementation (for Groundwater Africa)
- 2006.11 Report on preliminary visit to Bushmans Kloof to comment on veld condition and stocking rate (Bushmans Kloof Wilderness Reserve, Cedarberg)
- 2006.01 Specialist botanical report: environmental sensitivity of proposed development, Western Oukloofberg, Prince Albert. (29 pp) JJ Senekal
- 2005.01- Quarry EIAs and mitigation recommendations, southern Karoo (Leeugamka to Prince Albert, 2006-01 Road 373, Swartberg Pass, Gamkaskloof, Laingsburg, Beaufort West-Merweville) Kwezi-V3
- 2003 Vegetation survey of Paarl Mountain Nature Reserve. Drakenstein Municipality, Paarl, November 2003, 157 pp
- 2003 Overview of research information on *Acacia erioloba*, *Boscia albitrunca* and *Combretum imberbe* for Department of Water Affairs and Forestry, Pretoria, Contract No. 2003/089..

Work outside South Africa Angloa, Botswana, Mozambique, Namibia, Zambia, Germany, Tristan da Cunha Group, and UK

Languages: English (speak, write, read), Afrikaans (speak, write, read), German (read)

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