

Harvesting

- 815 **REVIEW:** What do matrix population models reveal about the sustainability of non-timber forest product harvest?
I. B. Schmidt, L. Mandle, T. Ticktin and O. G. Gaoue
- 827 **FORUM:** Selective harvesting of large mammals: how often does it result in directional selection?
A. Mysterud
- 835 Influence of harvesting pressure on demographic tactics: implications for wildlife management
S. Servanty, J.-M. Gaillard, F. Ronchi, S. Focardi, É. Baubet and O. Gimenez
- 844 Human impacts on leaf economics in heterogeneous landscapes: the effect of harvesting non-timber forest products from African mahogany across habitats and climates
O. G. Gaoue, L. Sack and T. Ticktin
- 853 Protecting old fish through spatial management: is there a benefit for sustainable exploitation?
C. T. T. Edwards and É. E. Plagányi

Pests and disease

- 864 **REVIEW:** Arthropod symbioses: a neglected parameter in pest- and disease-control programmes
R. Zindel, Y. Gottlieb and A. Aebi
- 873 Compensatory effects of recruitment and survival when amphibian populations are perturbed by disease
E. Muths, R. D. Scherer and D. S. Pilliod
- 880 Chemically mediated tritrophic interactions: opposing effects of glucosinolates on a specialist herbivore and its predators
R. Chaplin-Kramer, D. J. Kliebenstein, A. Chiem, E. Morrill, N. J. Mills and C. Kremen

- 888 **EDITOR'S CHOICE:** National-scale regulation of the weed seedbank by carabid predators
D. A. Bohan, A. Boursault, D. R. Brooks and S. Petit

Vegetation and community ecology

- 899 Genetic variation on the rocks – the impact of climbing on the population ecology of a typical cliff plant
F. Vogler and C. Reisch
- 906 Long-term impacts of ski piste management on alpine vegetation and soils
P. Roux-Fouillet, S. Wipf and C. Rixen
- 916 Human lakeshore development alters the structure and trophic basis of littoral food webs
M. Brauns, B. Gücker, C. Wagner, X.-F. Garcia, N. Walz and M. T. Pusch
- 926 Ecosystem service and biodiversity trade-offs in two woody successions
I. A. Dickie, G. W. Yeates, M. G. St. John, B. A. Stevenson, J. T. Scott, M. C. Rillig, D. A. Peltzer, K. H. Orwin, M. U. F. Kirschbaum, J. E. Hunt, L. E. Burrows, M. M. Barbour and J. Aislabie

Restoration

- 935 Developing a population target for an overabundant ungulate for ecosystem restoration
R. Serrouya, B. N. McLellan, S. Boutin, D. R. Seip and S. E. Nielsen

- 943 Experimental reduction of native vertebrate grazing and addition of logs benefit beetle diversity at multiple scales
P. S. Barton, A. D. Manning, H. Gibb, J. T. Wood, D. B. Lindenmayer and S. A. Cunningham
- 952 Soil nutrient losses in an altered ecosystem are associated with native ungulate grazing
T. M. Gass and D. Binkley
- 961 Demographic processes limiting seedling recruitment in arid grassland restoration
J. J. James, T. J. Svejcar and M. J. Rinella

Invasives

- 970 **REVIEW:** Lessons learned from invasive plant control experiments: a systematic review and meta-analysis
K. M. Kettenring and C. R. Adams
- 980 Estimating and influencing the duration of weed eradication programmes
F. D. Panetta, O. Cacho, S. Hester, N. Sims-Chilton and S. Brooks
- 989 Refinement of weed risk assessments for biofuels using *Camelina sativa* as a model species
P. B. Davis, F. D. Menalled, R. K. D. Peterson and B. D. Maxwell
- 998 Disturbance, resource pulses and invasion: short-term shifts in competitive effects, not growth responses, favour exotic annuals
L. M. Besaw, G. C. Thelen, S. Sutherland, K. Metlen and R. M. Callaway

Models and management

- 1007 Exploring sensitivity of a multistate occupancy model to inform management decisions
A. W. Green, L. L. Bailey and J. D. Nichols
- 1017 A modified matrix model to describe the seasonal population ecology of the European tick *Ixodes ricinus*
A. D. M. Dobson, T. J. R. Finnie and S. E. Randolph
- 1029 Modelling the effects of recent changes in climate, host density and acaricide treatments on population dynamics of *Ixodes ricinus* in the UK
A. D. M. Dobson and S. E. Randolph
- 1038 Habitat quality and habitat selection of golden-winged warblers in Costa Rica: an application of hierarchical models for open populations
R. B. Chandler and D. I. King

Monitoring

- 1048 Monitoring carnivore populations at the landscape scale: occupancy modelling of tigers from sign surveys
K. U. Karanth, A. M. Gopalaswamy, N. S. Kumar, S. Vaidyanathan, J. D. Nichols and D. I. MacKenzie
- 1057 Prediction of National Vegetation Classification communities in the British uplands using environmental data at multiple spatial scales, aerial images and the classifier random forest
U. Bradter, T. J. Thom, J. D. Altringham, W. E. Kunin and T. G. Benton