Ecological Restoration

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Editorial The Buzz: Swarming Pollinator Issues for Steven N. Handel	or Restoration	65
-	act on Perennial Grass Establishment in Cheatgrass Infested Habitats Menalled, Zachariah Miller and Alan Dyer	67
A Low Organic Matter Soil Does Not M Marguerite Behringer, Alex Anderson and	Iaintain a Native Grassland Restoration in the Colorado Front Range Timothy Seastedt	70
Predicting Post-Fire Tree Survival for R. Scott R. Abella, LaRae A. Sprow and Timos		72
Spekboom (Portulacaria afra) Planting Bryce Panter and Sheunesu Ruwanza	in Degraded Thickets Improves Soil Properties and Vegetation Diversity	76
	nd Direct Transplanting Methods for Restoring Endangered Corals s Conetta, Russell Dauksis, Katie Nickles and Alicia Siravo	81
Restoration of a New Zealand Lagoon: I Amber Julie McEwan and Philippa Crisp	Evaluation of Two Years of Introduced Fish Control Trials	90
Restoration of Ecosystem Function by S Xeric Alpine Ecosystems Annie-Claude Letendre, Darwyn S. Coxson	Soil Surface Inoculation with Biocrust in Mesic and and Katherine J. Stewart	101
in Tropical Dry Forests Old Fields	owing as a Strategy to Enhance Forest Recovery alvido, Isela E. Zermeño-Hernández and Jessica Castillo-Mandujano	113
The Influence of Species Richness and Fin the Badlands of North Dakota, USA Benjamin A. Geaumont, Jack Norland and	Forb Seed Density on Grassland Restoration	123

ABSTRACTS

Climate Change	131	Outreach	134
Coastal & Marine Communities	131	Propagation & Introduction	134
Ecological Design	132	Reclamation, Rehabilitation & Remediation	134
Ecological Literacy	132	Species at Risk	135
Economics & Ecosystem Services	132	Technology & Tools	135
Grasslands	132	Urban Restoration	135
Invasive & Pest Species	133	Wetlands	136
Lakes, Rivers & Streams	133	Wildlife Habitat Restoration	136
Monitoring & Adaptive Management	133	Woodlands	137
MEETINGS			138
MILLIIIAOS			130



Front Cover Feature:

Diver Grace Hanson searches for detached fragments of Acropora cervicornis (staghorn coral) that will be used to restore degraded reefs in the British Virgin Islands. These "fragments of opportunity" are small pieces of live coral accidentally detached from their parent colony by storms, boats, or people. In this issue, Forrester et al. compare the survival and growth of these A. cervicornis fragments following three different transplant treatments. The results offer practitioners guidance on the cost-effectiveness of each transplant approach. Image credit: Graham Forrester

Back Cover Features:

Top: In the absence of regular wildfires, the open-structured oak ecosystems once found extensively throughout the eastern U.S. have diminished. Prescribed fires are often used to restore these systems by targeting undesirable understory hardwoods. However, prescribed fires do not always kill target species. To develop guidelines for managers, Abella et al. identify characteristics of target and non-target trees capable of surviving a controlled burn. Image credit: Tabby Fenn.

Middle: Forest recovery is challenging in former pastoral systems of the tropics. Pastoral land practices leave soils nutrient-poor and compacted. Opportunistic climbing plants slow tree growth by competing with tree roots for underground resources and tree canopies for available sunlight. On the Pacific coast of Mexico, Mendez-Toribio et al. examined tree growth response to climbing plant removal and soil plowing. Their work offers perspective on restoration practice within dry forest old fields. Image credit: Moisés Méndez-Toribio.

Bottom: The badlands region of the United States is characterized by abrupt changes in land topography. This topography generates high environmental variability managers must consider when developing grassland restoration protocols for the badlands. In this issue, Geaumont et al. explore the interplay between seed mixtures for grassland restoration and environmental variability. Image credit: Benjamin Geaumont.