<u>Center for Community-Based Resource Management (CBRM)</u>

Natural Resources Institute, University of Manitoba

CBRM Database

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Case Study Name:	When lessons from population n harvesting in the Brazilian savan	odels and local ecological knowledge coincide – Effects of flower stalk na	
Author:	Schmidt, I.B. and Ticktin, T.		
Document Type:	Paper in scientific journal		
Year:	2012		
Language:	English		
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Full Citation:	Schmidt, I.B. and Ticktin, T. 2012 Effects of flower stalk harvesting	When lessons from population models and local ecological knowledge coincide – n the Brazilian savanna. Biological Conservation 152:187–195.	
Region:	Latin America and the Caribbean		
Country:	Brazil		
Ecosystem Type:	Grassland, savanna		
Social Characteristics:	Community inside protected area	/community bordering protected area	
Scale of Study:	Regional		
Resource Type:	Non timber forest product, Biodiv	ersity conservation	
Type of Initiative:	Research-driven project, commur	ity initiative	
Community Based Wo	rk: Resource management, conserva	Resource management, conservation	

Keywords: P	Policy, Management, Handicrafts, Wet grasslands, Fire, Cerrado, Jalapão, Sustainable use
Summary: S s i i i i i i i i i i i i i i i i i i	Sustainable harvest of non-timber forest products (NTFPs) can play an important role in biodiversity con- servation and livelihoods. However, harvesting policy intended to promote conservation are frequently either ineffective or too complicated. Successful policies should consider ecological impacts, local ecolog- ical knowledge and management practices, but NTFP policies are rarely based on these elements. Syngo- nanthus nitens (Eriocaulaceae, 'golden-grass') is one of the most valuable NTFPs from the Brazilian savanna. The handicrafts made from this species' flower stalks are traditional to the Jalapão region, Tocantins state, but have expanded over a much larger area in recent years. We combined ethnoecolog- ical interviews, seed phenology surveys over a large geographical area and harvest experiments in nine sites over 3 years to assess local ecological knowledge and management of golden-grass and its long-term effects on population dynamics. Although handicrafting activities are rapidly expanding, local ecological knowledge associated with harvest or management has not been transferred or created outside of Jalapão. Matrix population models illustrate that harvest according to traditional management practices had no impact on golden-grass population dynamics. Earlier harvest of golden-grass, as practiced by new artisans, leads to population decline due to plant uprooting. Local policies for golden-grass harvest are consistent with traditional management, limit the timing but not the quantity of harvest, and are appro- priate over a wide geographical scale. Golden-grass and other wild harvested species with similar char- acteristics hold high potential to help conserve threatened habitat.