Populärvetenskaplig sammanfattning för projekt finansierat av Ekhagastiftelsen

Populärvetenskaplig sammanfattning ska lämnas inom 2 månader efter anslag har beviljats.

Diarienummer:	2015-11					
Projekttitel:	Ground cover manag	ement in organic apple orchards in				
	South Africa: Trade-offs between above- and belowground					
	ecosystem services					
Anslagsmottagare:	Lunds universite					
	Department of Biolo	gy				
	Sölvegatan 37					
	223 62 Lund					
Projektledare/Kontaktperson:	Klaus Birkhofer					
Projektstart:	2016-07-01					
Projektslut:	2017-12-31					
Totalt av Ekhagastiftelsen beviljade medel:		1.480.000:_				

Sammanfattning: (max 150 ord)

The global demand for organically farmed products is increasing, as consumers become aware of the lower environmental impact of organic farming. Organic growers have to rely on the simultaneous provision of multiple natural processes (e.g. biological control) as artificial inputs are not allowed (e.g. synthetic pesticides). The provision of these ecosystem services in organic production systems can be actively supported by management decisions, but it remains unknown to what extent individual management practices affect the relationships between multiple above- and belowground ecosystem services. Here we aim to understand the ecological mechanisms that underlie the simultaneous provision of above- and belowground ecosystem services resulting from different ground cover management options in organic apple orchards in South Africa. Ultimately, our study will help growers to make informed decisions about ground cover management in organic orchards that will lead to synergies between multiple services at the lowest possible management intensity.

Table 1 Updated Gantt chart (2015-11) summarizing the schedule for major activities over the 18 months project period. Abbreviations for task leaders and contributors are given in the previous section.

			2016		2017			
Task	Leader	Contributors	III	IV	I	II	III	IV
1st project meeting (South Africa)	KB	MA						
Field site selection	MA	KB						
Establishment of treatments	MA	KB						
Vegetation survey	MA	RL						
Soil properties	WS	JB						
Belowground biodiversity	WS	JB, AM						
Belowground processes & services	WS	JB, KB						
Aboveground biodiversity	MA	DC, SL						

Aboveground processes & services	PA	KB			
Grower Interviews	RL	GC			
2 nd project meeting (Sweden)	KB	JB, RL			
Assessment of production	RL	GC			
Synthesis report	KB	All			
Writing manuscripts	All				
Dissemination	MA	КВ			