

FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet

Prescribed Burning Demonstration Sites - Site Description and Objectives -		Local Site Name: Sankt Johann	
Country: Germany, Baden-Württemberg	Region: Swabian Alb (Mittlere Kuppenalb)	Location: Sankt Johann-Buchrain	
Unit No./Admin. Unit: 2	Owner: Land Baden-Württemberg	Site area (ha): ca. 1,5 (including sheep pasture)	
UTM zone: ? Map 1:25 000	UTM (x): ? R 3521 100 UTM (y): H 5371 600	Map / Aerial photo : <input type="radio"/> Yes, attached <input type="radio"/> No	
First established: 1975, 1978, 1981	Area(s) burnt (ha): ca. 0.18	Fire return interval (or time since last burn, or next burn planned): 2 plots since 1975/1981 yearly 2 plots since 1978/1981 each second year	
Number of plots (in case of an array of sub-plots for experimental repetitions, particular site differences or high number of operationally burned sites): 4			
Special remarks:			
Purpose of Treatment: Restoration of ordinary dry calcareous grassland and suppression of the establishment of woody plants (trees, shrubs)			
Specific Treatment Objectives: --		Objectives reached? <input type="radio"/> Yes, with restriction <input type="radio"/> No Specify: see publications	
Desired burn conditions to reach objectives (optional or if necessary as general prerequisite) Burning protocols since the beginning over the 30-year-period, at least for the last 20 years			
Wind speed (m/s): --	Wind direction: --		
Relative humidity (%): --	Soil moisture: --		
Air temperature (°C): --	Burn period (time of year): Late autumn (November/December) or late winter (February/March)		
What problems do occur? Prescribed burning often too late in the beginning of springtime with early plant growth; but obvious we can observe a specific adaptation of the turf-sward in the last 5-10 years after the long time of especially yearly burning			
Site description See appended table			
Vegetation type (main species): In the beginning ordinary dry calcareous grassland (<i>Gentiano-Koelerietum</i>), now specific spreading of clonal grassland and ruderal plants	Annual mean precipitation (mm/a): 1000 mm	Mean precipitation during time of burn (mm): --	
Fuel load (t ha ⁻¹): 0,015-0,030 t in the different years	Annual mean temperature (°C): ± 6.5°	Mean temperature during time of burn (°C): --	
Fuel description: Grassland litter			
Topography: Formerly old sheep pasture	Slope (%): 5-15 %	Aspect: SW	Altitude (m a.s.l.): 750-760 m
Soil conditions: Brown-earth-Rendzina			
Other:			

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Burn team specifications		
<p>Parties involved: Ministry of agriculture, Landesanstalt für die Entwicklung der Landwirtschaft (LEL) Schwäb. Gmünd. (people making prescribed burning): Research technician (Versuchstechiker) of the local agriculture administration (Landwirtschaftsämter), partly by myself</p>	<p>Specific expertise or training:</p> <ul style="list-style-type: none"> <input type="radio"/> Yes <input type="radio"/> No <p>Please specify: prescribed burning course; Instruction and guidance by Schreiber</p>	
Documentation of demonstration site		
<p>Management plan:</p> <ul style="list-style-type: none"> <input type="radio"/> Detailed management plan <input type="radio"/> Simple management plan <input type="radio"/> none 	<p>Burn protocol:</p> <ul style="list-style-type: none"> <input type="radio"/> Yes, at least for the last 20 years <input type="radio"/> No 	<p>Monitoring of</p> <ul style="list-style-type: none"> <input type="radio"/> Weather data <input type="radio"/> Fuel accumulation <input type="radio"/> Fire behaviour <input type="radio"/> Smoke
<p>Presentations: See publications. Field trips every year</p>		
<p>Photos/ videos: ca 115 slides over the time</p>		
<p>Publications: u.a.</p> <p>SCHREIBER, K.-F., 1981: Das kontrollierte Brennen von Brachland - Belastungen, Einsatzmöglichkeiten und Grenzen. Eine Zwischenbilanz über feuerökologische Untersuchungen. Angew. Botanik 55, 255-275.</p> <p>SCHREIBER, K.-F., 1997: 20 Jahre Erfahrung mit dem kontrollierten Brennen auf den Brachflächen in Baden-Württemberg. „Feuereinsatz im Naturschutz“, NNA-Ber. 10, 5, A. Toepfer Akad. Naturschutz, Schneverdingen, 59-71.</p> <p>SCHREIBER, K.-F. 2006: Langjährige Entwicklung brachgefallener Grasländer in Südwestdeutschland bei verschiedenem Management (ungestörte Sukzession, Mulchen 2 x jährlich, kontrolliertes Brennen jährlich). Bayerische Akademie der Wissenschaften, Rundgespräche der Kommission für Ökologie Nr. ?, (Oktober 2005 München). In press</p>		

Versuchsanlage St. Johann

