

**FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet**

<b>Prescribed Burning Demonstration Sites - Site Description and Objectives -</b>		<b>Local Site Name: Oberstetten</b>		
Country: Germany, Baden-Württemberg	Region: Taubergrund	Location: Oberstetten-Kuhberg		
Unit No./Admin. Unit: 1	Owner: Land Baden-Württemberg	Site area (ha): ca. 1.5		
UTM zone: ? Map 1:25 000	UTM (x): ? R 3569 350 UTM (y): H 5471 030	Map / Aerial photo : <input type="radio"/> Yes, attached <input type="radio"/> No		
First established: 1975	Area(s) burnt (ha): ca. 0.07	Fire return interval (or time since last burn, or next burn planned): Yearly (half of the plot till 2002 only each second year, now each 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): 1				
Special remarks:				
<b>Purpose of Treatment:</b> Restoration of ordinary grassland and suppression of the establishment of woody plants (trees, shrubs)				
Specific Treatment Objectives: Battle against the establishment of <i>Prunus spinosa</i> . But in this specific area this species took place not only by burning each 2. year, but also after 20-25 burning periods by burning each year			Objectives reached? <input type="radio"/> Yes <input type="radio"/> No Specify: see publications	
<b>Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)</b> Burning protocols since the beginning over the 30-year-period				
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 yearly burning				
<b>Site description</b> See appended table				
Vegetation type (main species): In the beginning ordinary grassland ( <i>Dauco-Arrhenatheretum brometosum</i> ; now specific spreading of clonal grassland plants		Annual mean precipitation (mm/a): 700 mm	Mean precipitation during time of burn (mm): --	
Fuel load (t ha <sup>-1</sup> ): 0,02-0,04 t in the different years	Annual mean temperature (°C): ±9°		Mean temperature during time of burn (°C): --	
Fuel description: Grassland litter				
Topography: Formerly vineyard slope, later on grasland	Slope (%): 20-35 %	Aspect: SW	Altitude (m a.s.l.): 360-390 m	Soil conditions: Terra fusca
Other:				

Burn team specifications		
Parties involved: <b>Ministry of agriculture, Landesanstalt für die Entwicklung der Landwirtschaft (LEL), Schwäb. Gmünd.</b> (people making prescribed burning): Research technician (Versuchstechniker) of the local agriculture administration (Landwirtschaftsämter), partly by myself		Specific expertise or training: <input type="radio"/> Yes <input type="radio"/> No Please specify: <b>prescribed burning course; Instruction and guidance by Schreiber</b>
Documentation of demonstration site		
Management plan: <input type="radio"/> <b>Detailed management plan</b> <input type="radio"/> Simple management plan <input type="radio"/> none	Burn protocol: <input type="radio"/> Yes <input type="radio"/> No	Monitoring of <input type="radio"/> <b>Weather data</b> <input type="radio"/> <b>Fuel accumulation</b> <input type="radio"/> <b>Fire behaviour</b> <input type="radio"/> <b>Smoke</b>
Presentations: <b>See publications. Field trips every year</b>		
Photos/ videos: <b>153 slides over the time</b>		
Publications: <b>u.a.</b> SCHREIBER, K.-F., 1981: Das kontrollierte Brennen von Brachland - Belastungen, Einsatzmöglichkeiten und Grenzen. Eine Zwischenbilanz über feuerökologische Untersuchungen. Angew. Botanik <b>55</b> , 255-275. SCHREIBER, K.-F., 1997: 20 Jahre Erfahrung mit dem kontrollierten Brennen auf den Brachflächen in Baden-Württemberg. „Feuereinsatz im Naturschutz“, NNA-Ber. <b>10</b> , 5, A. Toepfer Akad. Naturschutz, Schneverdingen, 59-71. 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		

# Versuchsanlage Oberstetten

