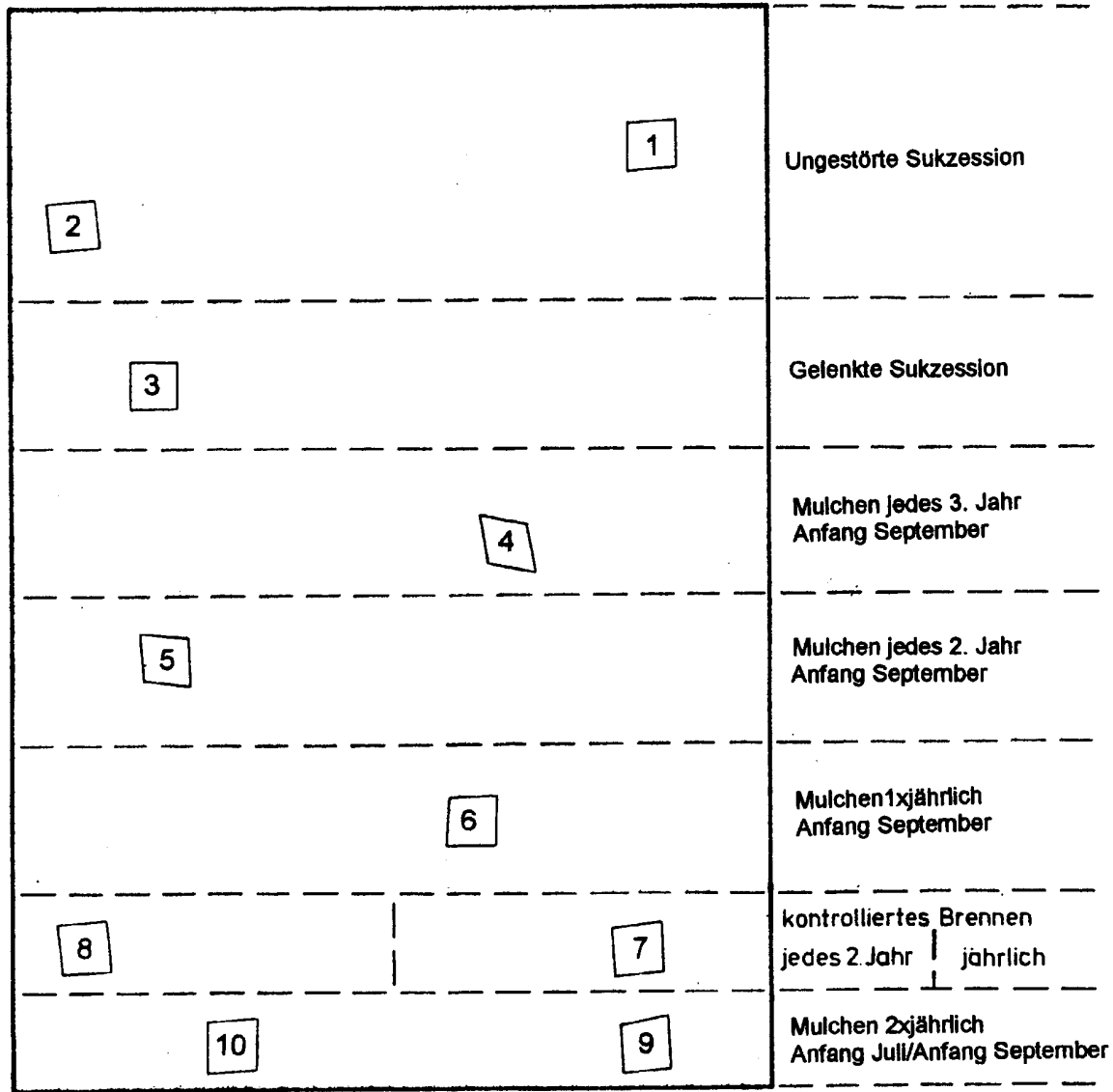


FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet

| | | | |
|---|--|---|-------------------------------------|
| Prescribed Burning Demonstration Sites - Site Description and Objectives - | | Local Site Name: Bernau-Innerlehen | |
| Country: Germany, Baden-Württemberg | Region: Southern High Black Forest | Location: Bernau-Innerlehen Hohenzinkenweide | |
| Unit No./Admin. Unit: 5 | Owner: Municipality of Bernau | Site area (ha): ca. 1.7 (including pasture plot) | |
| UTM zone: ? Map 1:25 000 | UTM (x): ? R 3425 850 | Map / Aerial photo : <input type="radio"/> Yes, attached <input type="radio"/> No | |
| | UTM (y): H 5295 300 | | |
| First established: 1975 | Area(s) burnt (ha): ca. 0.09 | Fire return interval (or time since last burn, or next burn planned): 1 plot prescribed burning yearly 1 plot prescribed burning 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): 2 | | | |
| Special remarks: | | | |
| Purpose of Treatment: Restoration of ordinary high mountain grassland and suppression of the establishment of woody plants (trees, shrubs, dwarf shrubs) | | | |
| Specific Treatment Objectives: Conservation of high mountain pastures , specific in the Black Forest (<i>Festuco-Genistelletum</i> - Flügelginsterweiden), and to prevent the establishment of <i>Vaccinium myrtillus</i> | | 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 in 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 early spring (April/May) | | |
| What problems do occur? Prescribed burning often too late in the beginning of springtime because of snow drifts blocking the approach road | | | |
| Site description See appended table | | | |
| Vegetation type (main species): High mountain pastures (Flügelginsterweiden); but in the plot burned every 2. year spreading of <i>Vaccinium</i> -dwarf shrub-heath | Annual mean precipitation (mm/a): 1800 mm | Mean precipitation during time of burn (mm): -- | |
| Fuel load (t ha ⁻¹): 0,01-0,04 t in the different years | Annual mean temperature (°C): ±5,5° | Mean temperature during time of burn (°C): -- | |
| Fuel description: Grassland litter, partly dwarf shrub litter | | | |
| Topography: Old pasture slope | Slope (%): 20-35 % | Aspect: SSE | Altitude (m a.s.l.): 1060-1120 m |
| Soil conditions: Deep Humus-Brown earth | | | |
| Other: | | | |

| 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> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>Please specify: prescribed burning course; Instruction and guidance by Schreiber</p> | |
| Documentation of demonstration site | | |
| <p>Management plan:</p> <p><input type="radio"/> Detailed management plan <input type="radio"/> Simple management plan <input type="radio"/> none</p> | <p>Burn protocol:</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> | <p>Monitoring of</p> <p><input type="radio"/> Weather data <input type="radio"/> Fuel accumulation <input type="radio"/> Fire behaviour <input type="radio"/> Smoke</p> |
| <p>Presentations: See publications. Field trips every year</p> | | |
| <p>Photos/ videos: 40 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. <i>Angew. Botanik</i> 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“, <i>NNA-Ber.</i> 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). <i>Bayerische Akademie der Wissenschaften, Rundgespräche der Kommission für Ökologie</i> Nr. ?, (Oktober 2005 München). In press</p> | | |

Versuchsanlage Bernau



● Felsen
 --- Weg

