

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

<b>Prescribed Burning Demonstration Sites - Site Description and Objectives -</b>		<b>Local Site Name: Black Hill</b>	
Country: Scotland	Region: Pentland Hills, Penicuik, nr. Edinburgh	Location: 55°51'N 03°18'W	
Unit No./Admin. Unit:	Owner: Whitburgh Estates	Site area (ha): Unbounded open moorland	
UTM zone: 30V	UTM (x):  UTM (y):	Map / Aerial photo : <input type="radio"/> Yes (Please attach) <input checked="" type="radio"/> No	
First established: 2006	Area(s) burnt (ha): 0.24	Fire return interval (or time since last burn, or next burn planned): N/A	
Number of plots (in case of an array of sub-plots for experimental repetitions, particular site differences or high number of operationally burned sites: 12 plots, 4 in each of 3 fuel classes			
Special remarks:			
<b>Purpose of Treatment:</b>			
Specific Treatment Objectives:  Validation and further development of empirical fire behaviour models for FireBeaters project ( <a href="http://firebeaters.org.uk">http://firebeaters.org.uk</a> )		Objectives reached? <input checked="" type="radio"/> Yes <input type="radio"/> No Specify:	
<b>Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)</b>			
Wind speed (m/s): Variable, range 4 - 10		Wind direction: Variable	
Relative humidity (%): Variable, range 40 - 60		Soil moisture: Variable	
Air temperature (°C): Variable, range 2 - 8		Burn period (time of year): October - April	
What problems do occur? Legal burn season restricted range of conditions in which experimental fires could be completed			
<b>Site description</b>			
Vegetation type (main species): <i>Calluna vulgaris</i>	Annual mean precipitation (mm/a):	Mean precipitation during time of burn (mm):	
Fuel load (target fuel) (t ha <sup>-1</sup> ): Variable, not yet quantified	Annual mean temperature (°C):	Mean temperature during time of burn (°C):	
Fuel description: Dense stands of building-degenerate <i>Calluna</i> dominated moorland.			
Topography: Hilly	Slope (%): 0-10	Aspect: SW	Altitude (m a.s.l.): 300
Soil conditions: Dry peat			
Other:			



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Burn team specifications		
Parties involved: Staff from University of Edinburgh Local gamekeepers	Specific expertise or training: <ul style="list-style-type: none"> <li>• Yes</li> <li>○ No</li> </ul> Please specify: Burns supervised by local gamekeeper, members of burn team had received fire safety training.	
Documentation of demonstration site		
Management plan: <ul style="list-style-type: none"> <li>○ Detailed management plan</li> <li>• Simple management plan</li> <li>○ none</li> </ul>	Burn protocol: <ul style="list-style-type: none"> <li>• Yes</li> <li>○ No</li> </ul>	Monitoring of <ul style="list-style-type: none"> <li>• Weather data</li> <li>○ Fuel accumulation</li> <li>• Fire behaviour</li> <li>○ Smoke</li> </ul>
Presentations:		
Photos/ videos: Photographic monitoring of flame height		
Publications:		
Contact details (person or institution in charge of the site and / or submitter of this information):  Name: Matt Davies Address: CECS, University of Edinburgh, Crew Building, Kings Buildings, West Mains Road, Edinburgh, EH9 3JN, Scotland Telephone: +44-131 650 7211 Telefax: +44-131 662 0478 e-mail: <a href="mailto:matt.davies@ed.ac.uk">matt.davies@ed.ac.uk</a> Website: <a href="http://firebeaters.org.uk">http://firebeaters.org.uk</a>		