

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

<b>Prescribed Burning Demonstration Sites - Site Description and Objectives -</b>		<b>Local Site Name: 624</b>	
Country: Russia	Region: Krasnoyarsk	Location: coniferous forest clearcut in Sayan mountains	
Unit No./Admin. Unit: Bolshoi Ungut district planning quarter # 87	Owner: Mana leskhoz (forest management enterprise)	Site area (ha): 10	
UTM zone:	UTM (x): 93° 14' E	Map / Aerial photo : <input type="checkbox"/> No	
	UTM (y): 55° 20' N		
First established: 6 July 1999	Area(s) burnt (ha): 10	Fire return interval (or time since last burn, or next burn planned): 180 years – average fire return interval for dark coniferous forests	
Number of plots (in case of an array of sub-plots for experimental repetitions, particular site differences or high number of operationally burned sites: all site burned one time			
Special remarks: Ignition at 21:00			
<b>Purpose of Treatment:</b>			
Specific Treatment Objectives:  slash removing, stimulation of conifers regeneration		Objectives reached? <input checked="" type="checkbox"/> Yes Specify: partially because seeds were absent that year after burn	
<b>Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)</b>			
Wind speed (m/s): 2		Wind direction: W	
Relative humidity (%): 48		Soil moisture: No data	
Air temperature (°C): 23		Burn period (time of year): late spring	
What problems do occur? Firewhirls near firelines and so fire spots outside firelines.			
<b>Site description</b>			
Vegetation type (main species): mixed forest with dominating of dark coniferous species: <i>Abies sibirica, Picea sibirica, Pinus sibirica, Betula pendula, Populus tremula</i>	Annual mean precipitation (mm/a): 450-600	Mean precipitation during time of burn (mm): 0	
Fuel load (target fuel) (t ha <sup>-1</sup> ): 106 locally	Annual mean temperature (°C): -1.4	Mean temperature during time of burn (°C): 22	
Fuel description: Slash fuels + forest litter			
Topography: mountainous	Slope (%): 15	Aspect: W	Altitude (m a.s.l.): 600
Soil conditions: Podsol loam			
Other: prescribed burn # 1/1999 in a book Valendik et al., 2001			

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<b>Burn team specifications</b>		
Parties involved: VN Sukachev Institute of forest SB RAS Mana leskhoz (forest management enterprise)		Specific expertise or training: <input checked="" type="checkbox"/> Yes Please specify: Mana leskhoz employees training for slash fuels removal after logging in mountainous sites
<b>Documentation of demonstration site</b>		
Management plan: Simple management plan	Burn protocol: Yes	Monitoring of <input checked="" type="checkbox"/> Weather data <input checked="" type="checkbox"/> Fuel accumulation <input checked="" type="checkbox"/> Fire behaviour
Presentations: <i>Further information available.</i>		
Photos/ videos: Photos were taken to estimate pre- and post burning conditions, as well as fire behaviour		
<b>Publications:</b>  Valendik, E.N., Vekshin, V.N., Ivanova, G.A., Kisilyakhov, Ye. K., Perevoznikova, V.D., Brukhanov, A.V., Bychkov, V.A. and Verkhovets, S.V.: Prescribed Burning of Logged Mountain Forest Sites. SB RAS Publishing, Novosibirsk, 2001, 172 pp (in Russian).  Kisilyakhov Y.K., E.N. Valendik, G.A. Ivanova, V.D. Perevoznikova, S.V. Verkhovets. Use of BEHAVE for forest fire experiments and prescribed fires in Siberia // Disturbance in boreal forest Ecosystems: Human Impacts and Natural Processes. S.G. Conard, ed. Proceedings of the International Boreal Forest Research Association 1997 annual meeting; 1997 August 4-7; Duluth, Minnesota, USA. Gen. Tech. Rep. NC-209. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station, 2000. 435 pp.		
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