

FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet

Prescribed Burning Demonstration Sites - Site Description and Objectives -		Local Site Name: 614		
Country: Russia		Region: Krasnoyarsk		Location: dark coniferous forest clearcut; right bank of Yenisey river (Yenisey Ridge)
Unit No./Admin. Unit: Predivinsk district planning quarter # 17		Owner: Bolshaya Murta leskhoz (forest management enterprise)		Site area (ha): 50
UTM zone:	UTM (x): 93° 52' E		Map / Aerial photo : <input type="radio"/> Yes (Please attach) <input checked="" type="radio"/> No	
	UTM (y): 57° 11' N			
First established: June 26, 1997	Area(s) burnt (ha): 50		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: burned by line ignition each 5 ha, with strong central smoke column.				
Special remarks: ignition at noon				
Purpose of Treatment:				
Specific Treatment Objectives: slash removing, conifer forest regeneration stimulation,				Objectives reached? <input checked="" type="radio"/> Yes <input type="radio"/> No Specify: slash removed for regeneration
Desired burn conditions to reach objectives (optional or if necessary as general prerequisite)				
Wind speed (m/s): - 3			Wind direction: North-East	
Relative humidity (%): 73			Soil moisture: No data	
Air temperature (°C): 22			Burn period (time of year): late spring	
What problems do occur? spot fires (suppressed)				
Site description				
Vegetation type (main species): mixed forest with dominating of dark coniferous species: <i>Abies sibirica</i> , <i>Picea sibirica</i> , <i>Pinus sibirica</i> , <i>Betula pendula</i> , <i>Populus tremula</i>		Annual mean precipitation (mm/a): 450-600		Mean precipitation during time of burn (mm): 0
Fuel load (target fuel) (t ha ⁻¹): 156 locally		Annual mean temperature (°C): -8		Mean temperature during time of burn (°C):15
Fuel description: Slash (40% is gathered in piles) + forest litter + lot of vegetating plants				
Topography: flat	Slope (°) 3	Aspect: North and South	Altitude (m a.s.l.): 250	Soil conditions: Podsol loam
Other: prescribed burn # 5/97 in a book Valendik et al., 2000				

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Burn team specifications		
Parties involved: VN Sukachev Institute of forest SB RAS Bolshaya Murta leskhoz (forest management enterprise)		Specific expertise or training: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Please specify: experimental burn with personnel training
Documentation of demonstration site		
Management plan: <input type="checkbox"/> Detailed management plan <input checked="" type="checkbox"/> Simple management plan <input type="checkbox"/> none	Burn protocol: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Monitoring of <input checked="" type="checkbox"/> Weather data <input checked="" type="checkbox"/> Fuel accumulation <input checked="" type="checkbox"/> Fire behaviour
Presentations: <i>Further information is available</i>		
Photos/ videos: Photos were taken to estimate pre and post burning conditions, as well as fire behaviour		
Publications: Valendik, E.N., Vekshin, V.N., Verkhovets, S.V., Zabelin, A.I., Ivanova, G.A. and Kisilyakhov, Ye.K. Prescribed Burning of Logged Sites in Dark Coniferous Forests. SB RAS Publishing, Novosibirsk. 2000, 209 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. Verkhovets S.V. Duff consumption during slash burning In: Proceeding of Conference «Components investigations of Siberian forest ecosystems» # 3, 2001, P. 22-24. (in Russian)		
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