

FIRE PARADOX – GFMC Prescribed Burning Demonstration Network Inventory Sheet

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| Prescribed Burning Demonstration Sites - Site Description and Objectives - | | Local Site Name: 611 | | |
| Country: Russia | | Region: Krasnoyarsk | | Location: dark coniferous forest clearcut; right bank of Yenisey river (Yenisey Ridge) |
| Unit No./Admin. Unit: Predivinsk district planning quarter # 10 | | Owner: Bolshaya Murta leskhoz (forest management enterprise) | | Site area (ha): 30 |
| UTM zone: | UTM (x): 93° 53' E | Map / Aerial photo : <input type="radio"/> Yes (Please attach) <input checked="" type="radio"/> No | | |
| | UTM (y): 57° 14' N | | | |
| First established: 24 June 1997 | Area(s) burnt (ha): 28 | 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: slash piles were burned at night, rest area – at day time | | | | |
| Special remarks: 45 % of logged area was burned (partially) | | | | |
| Purpose of Treatment: | | | | |
| Specific Treatment Objectives: slash removing, stimulation of conifers regeneration, saving of groups of young trees (preliminary forest regeneration) | | | | Objectives reached? <input checked="" type="radio"/> Yes <input type="radio"/> No Specify: partially due to high load of vegetating grasses |
| Desired burn conditions to reach objectives (optional or if necessary as general prerequisite) | | | | |
| Wind speed (m/s): 3 | | Wind direction: W | | |
| Relative humidity (%): 34 | | Soil moisture: No data | | |
| Air temperature (°C): 26 | | Burn period (time of year): late spring | | |
| What problems do occur? Due to high load of vegetating plants burn intensity was not enough so site was burned out partially | | | | |
| 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): 121 locally | | Annual mean temperature (°C): -8 | Mean temperature during time of burn (°C):15 | |
| Fuel description: Slash (40% is gathered in piles) + forest litter + a lot of vegetating plants | | | | |
| Topography: flat, small creak in the middle | Slope (%): 0-2 | Aspect: North | Altitude (m a.s.l.): 220 | Soil conditions: Podsol loam |
| Other: prescribed burn # 2/97 in a book Valendik et al., 2000 | | | | |

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| Burn team specifications | | |
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| 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 <input type="checkbox"/> Smoke |
| 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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