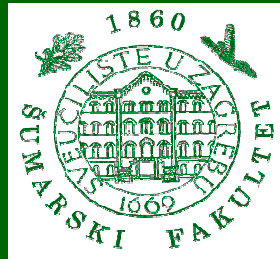


UNIVERSITY OF ZAGREB FACULTY OF FORESTRY



Vegetation characteristic and potential fuel for fire on Kornati in relationship with forest fire on 30. august 2007.

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IN PAST:

- vegetation:
 - ✓ association: *Myrto-Quercetum ilicis*
 - ✓ association: *Phagnalo-Centaureetum ragusina*
 - ✓ association: *Plantagini-Limonietum cancellati*

TODAY:

- vegetation:
 - ✓ associaton: *Stipo-salvietum officinalis*
 - ✓ subassociation: *Stipo-salvietum officinalis* var.
Brachypodium ramosum

SPECIES:

Stipa bromoides (L.) Doerfler

Stipa pennata L.

Poa bulbosa L.

Poa sylvicola Guss.

Koeleria splendens K. Presl

Brachypodium ramosum (L.) R.S.

Euphorbia spinosa L.

Onosma javorkae Simk.

Cytisus spinescens Presl

Smilax aspera L.

Rubus ulmifolius Schott

Salvia officinalis L.

Pirus amygdaliformis Vill.

Asparagus acutifolius L.

- Vegetation was collected 25. 09. 2007.

- Experimental plots were dimension
20 x 20 cm (400 cm²)



FLAMMABILITY TEST

-using methodology proposed
by Valette (1990)
and Dimitrov (1994)



TESTING

FORM

Testirana vrsta:	<i>Smilax aspera</i> L.				FI - učestalost zapaljivosti
Lokacija:	Kornat				DI - odgoda zapaljivosti
Uzorak:	A				DC - trajanje gorenja
Vrijed. suhog termom.:	20.6°C				IC - intenzitet gorenja
Datum testiranja:	1.10.2007.				
Uzorak: cijeli nadzemni dio					
Pokrovnost vegetacije 45-55 %					
Test	FI	DI (s)	DC (s)	IC	
1	1	19.62	5.28	3	
2	1	19.12	7.55	3	
3	1	17.66	9.82	4	
4	1	17.09	7.21	3	
5	1	16.98	8.96	3	
6	1	18.87	9.76	2	
7	1	19.29	7.03	3	
8	1	17.08	8.38	4	
9	1	18.69	7.78	4	
10	1	19.27	6.93	3	
Čestina pozitivnih testova	10/10				
aritmetička sredina		18.37	7.87	3.2	
standardna devijacija		1.0473	1.4010		
FMC = ((FW - DW) / DW) 100				PF (FW)	17.95 g
				PS (DW)	14.23 g
TH = ((PF - PS) / PF) 100				FMC	26.14 %
				TH	20.72 %
IS = 200 (PS / PF) - 100				IS	58.55
PF (FW) - težina svježeg uzorka					
PS (DW) - težina suhog uzorka					
IS - indeks suhoće					
FMC - sadržaj vlage					
TH - sadržaj vlage					

GRASS VEGETATION

- frequency of ignition: 100 %
- ignition time: less than 2 s
- ignition mark: 5
- moisture content: 10 – 16 %



WOODY VEGETATION

- frequency of ignition: 100 %
- ignition time: 18 – 20 s
- ignition mark: 4
- moisture content: 13 – 35 %



VEGETATION BIOMASS

covering

biomass

100 %



13 840 kg/ha

45 %



6 228 kg/ha

55 %



7 612 kg/ha

VEGETATION TYPE	(%)	TOTAL COVERING (%)	
		45	55
GRASS VEGETATION	55	3 425 kg/ha	4 187 kg/ha
	65	4 048 kg/ha	4 948 kg/ha
WOODY VEGETATION	35	2 180 kg/ha	2 664 kg/ha
	45	2 803 kg/ha	3 425 kg/ha

THANKS YOU FOR ATTENTION !