NOTICE 1054 OF 2005

THE DEPATMENT OF WATER AFFAIRS AND FORESTRY

THE NATIONAL FIRE DANGER RATING SYSTEM IN TERMS O f THE NATIONAL VELD AND FOREST FIRE ACT, **1998(ACT** NO 101 OF 1998)

I, Tshepo Malatji, in my capacity as Director: Forestry Regulation and acting in terms of section 9(1) of the National Veld and Forest Fire Act, read with the delegations of powers and duties made in terms of the National Veld and Forest Fire Act, hereby make and publish for general information the National Veld and Forest Fire Act, as set out in the Schedule hereto.

Tshepo Malatii DIRECTOR : FORESTRY REGULATION

DATE: 17/06/05

<u>Schedule</u>

The National Fire Danger Rating System applies to the entire country and consists of the following components

1. The structure and formula

The structure and formula as contained in Appendix 1, is used to calculate the indicator values required to rate the fire danger rating in each region for an appropriate period or periods.

2. The fire danger rating

Appendix 2 shows the fire danger rating, which indicates, in a clear format, the fire prevention and preparedness measure to be taken for each rating.

3. The tire danger regions and threshold values

The entire country has been divided into separate regions, each region being one in which the fire danger is sufficiently uniform to allow for a single rating, which is meaningful for the entire region. Appendix 3 shows the **41** fire danger regions of the entire country.

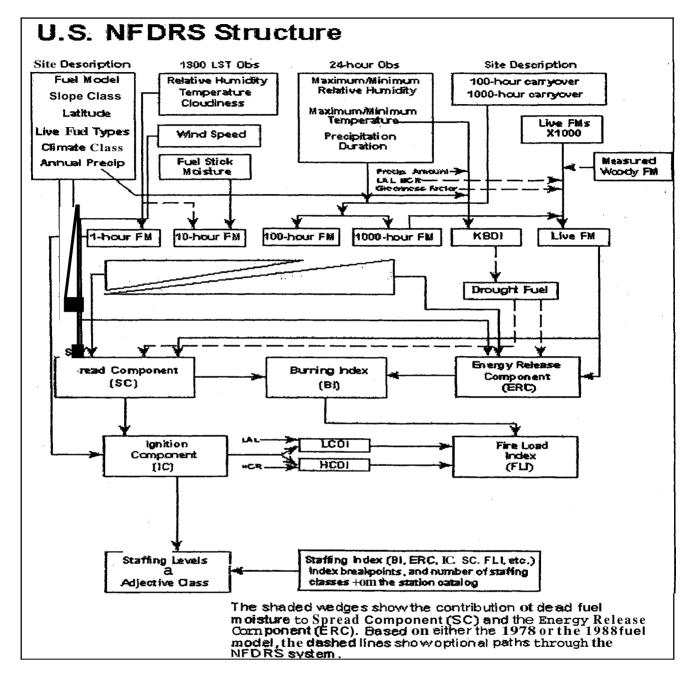
The threshold value for each fire danger region is as set out in Appendix 4.

Appendix 5 is a list of municipalities for each fire danger region.

4. Communication

The Minister of Water Affairs and Forestry has delegated his duty to communicate the fire danger rating for each region to the South African Weather Services in terms of section 11 of the National Veld and Forest Fire Act, 1998 (Act No 101 of 1998).

APPENDIX



		RED	High - Extreme	No fires may be allowed under any circumstances in the open air and Fire Protection Associations and municipal Disaster Management Centres must invoke contingency fire emergency and disaster management plans including extraordinary readiness and response plans. All operations likely to ignite fires halted. Householders placed on alert.	Section 10(1)(b) applies: no person may light, use or maintain a fire in the open air.	The threat of disastrous wildfires at provincial level exists under these conditions. Municipal Disaster Management Centres must invoke contingency plans and inform National and Provincial Disaster Management Centres. (Section 49 of the Disaster Management Bill).
		ORANGE	High	No fires may be allowed under N any circumstances in the open air. ci F fi fi fi fi fi fi fi fi fi fi fi	Section 10(1)(b) applies: no S person may light, use or maintain n a fire in the open air.	The threat of disastrous wildfires T exists at municipal level under p these conditions. Municipal co Disaster Management Centres M must invoke contingency plans co must inform National and Provincial Disaster Management M Provincial Disaster Management M Centres. (Section 49 of the o
ALLENDIA 4		YELLOW	Moderate	No fires may be allowed in the open air except those that are authorised by the Fire Protection Officer where a Fire Protection Association exists, or elsewhere, the Chief Fire Officer of the local fire service, or fires in designated fireplaces.	Above precautionary measure to be prescribed and made applicable nationally on days rated moderate.	
EIDE DANGER RATING		GREEN	Low	Fires including prescribed burns may be lit, used or maintained in the open air on the condition that persons making fires take reasonable precautions against the fires' spreading.		
	RATING	BLUE	Insignificant	No precaution is needed		
	FIRE DANGER	INDICATIVE COLOUR	DANGER RATING	FIRE PREVENTION AND PREPAREDNESS MEASURES	APPLICATION OF THE ACT	RELATIONSHIP WITH DISASTER MANAGEMENT

APPENDIX 2

RED	Conflagrations are likely in plantation forests, stands of alien invasive trees and shrubs, sugar cane plantations, and fynbos. Long range fire spotting is likely in these fuel types. Rates of forward spread of head fires can exceed 4.0 kilometres per hour and flame lengths will be in the order of 5 – 15 m or more. Any form of fire control is likely to	be precluded until the weather changes. Back burning dangerous and best avoided.
ORANGE	Fires ignited readily and spread very rapidly, with local crowning and short-range spotting. Flame lengths between 2 and 5 m, and rates of forward spread between 1.5 and 2.0 kilometres per hour. Direct attack not feasible: fires	cannot be approached at all and back burning, combined with aerial support are the only effective means to combat fires. Equipment such as water tankers should concentrate efforts on the protection of houses.
YELLOW	Fires ignite readily and spread rapidly, burning in the surface layers below trees. Flame lengths in grasslands and plantation forests between 1 and 2m, and rates of forward spread between 0.3 and 1.5 kilometres per hour. Direct attack	constrained: fires not safe to approach on foot for more than very short periods. Best forms of control should combine water tankers and back burning from fire control
GREEN	Fires likely to ignite readily but spread slowly. Flame lengths in grassland and plantation forest litter lower than 1.0 m and rates of forward spread less than 0.3 kilometres per hour. Direct attack feasible:	tires safely approached on foot. Suppression is readily achieved by direct manual attack methods.
BLUE	Fires are not likely to ignite. If they do, they are likely to go out without suppression action. There is little flaming combustion. Flame lengths in grassland and plantation forest litter lower than 0.5 m and rates of forward spread less than 0.15 kilometres per hour.	reasible: one or a few field crew with basic fire fighting tools easily suppresses any fire that may occur.
INDICATIVE COLOUR	FIRE BEHAVIOUR	SUPPRESSION DIFFICULTY

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