F
S
Z
Δ
O
2
Z
T
U

		a poode n			noin, su	o nuode	ישבו מנוטו		auspeilu operations until conditions moderate.		מומרכי
TEMP (°C)	S	10	15	20	25	30	40	50	60	65	RH%
15	31	35	38	40	43	45	49	53	56	58	(⊦
20	29	33	36	38	40	43	46	50	53	55	(КЪ
25	27	30	33	36	38	40	44	47	50	52	pəəd
30	25	28	31	33	35	37	41	44	47	49	IS pu
35	23	26	28	31	33	35	38	41	44	46	iW əl
40	21	24	26	28	30	32	35	39	41	43	verag
45	19	22	24	26	28	30	33	36	39	40	Ą
TEMP (°C)	ъ	10	15	20	25	30	40	50	60	65	RH%

Tasmanian Government

of 35

(GFDI)

ndex

Danger

Fire

Grassland

<u>о</u>а

relate

These weather combinations



for further information on your bushfire safety needs Free-call **1800 000 699** or visit

fire.tas.gov.au





You can also follow us on Twitter and Facebook.

alert.tas.gov.au
TasALERT
facebook.com/TasALERT

this guideline produced in association with





Whilst the State Fire Commission has made every effort to ensure the accuracy and reliability of the information contained in this booklet, the State Fire Commission does not accept any responsibility for the accuracy, completeness, or relevance to the viewer's purpose, of the information contained in this booklet and those viewing it for whatever purpose are advised to verify its accuracy and to obtain appropriate professional advice.

The State Fire Commission, its officers, employees and agents do not accept any liability, however arising, including liability for negligence, for any loss or damage resulting from the use of, or reliance upon, the information contained in this booklet.

© Copyright Tasmania Fire Service 2016

160933_V1/2016



A basis for safe work in dry vegetation



This Guideline provides fire safety measures for machinery operations in or near dry vegetation, and specifies criteria for when fire weather conditions warrant stopping machinery operations. This Guideline is endorsed by Tasmania Fire Service as suitable bushfire risk mitigation practices but does not apply to forestry or mining operations.

1800 000 699 fire.tas.gov.au



MACHINERY OPERATIONS BAN

The use of certain machinery and practices can be restricted during the **Fire Permit Period** and on days of **Total Fire Ban**.

When conditions warrant, Tasmania Fire Service will ban machinery operations with an explicitly worded Total Fire Ban declaration.

RECOMMENDED MACHINERY OPERATING PRACTICES

IMPORTANT: The following practices should be adopted when using engines, vehicles, equipment or machinery in areas that are within, or in close proximity to dry vegetation and similar combustible materials.



Plan

- Establish a fire prevention and emergency response strategy for staff, contractors and machinery operators.
- Be aware of potential ignition sources from the machinery being used.
- Adopt a regular maintenance program, both before and during operations, paying particular attention to wearing parts, bearings and engines.
- Aim to ensure machinery is free from faults and mechanical defects.
- Ensure combustible residues on machines are kept to a minimum, especially in areas of high fire risk, such as engines, exhausts and brakes.

Prepare

- Prior to commencing operations, check the fire weather forecast.
- Have ready access to telephones and UHF radio.
- Machinery operators should have appropriate firefighting clothing and a plan for the protection of themselves, their equipment and the community.
- Have ready access to operational firefighting equipment, such as:
 - Fire extinguisher,
 - Knapsack, and ideally
 - A 250 litre transportable firefighting unit.
- Drive on tracks and park in cleared areas to prevent fires starting from hot exhausts.
- Provide 3 metres clearance around and above stationary machinery or engines, or remain with the equipment while running.

Monitor

- Monitor fire information and advice through TasALERT (www.alert.tas.gov.au)
- Monitor weather information and warnings from the Bureau of Meteorology (m.bom.gov.au/).
- Measure local weather and check the Machinery Operations Table.
- Suspend operations when weather reaches the thresholds shown in the Machinery Operations Table. (which relates to a Grassland Fire Danger Index of 35).

Respond

- Phone 000 as soon as a fire is detected.
- In the event of a fire, and if safe to do so without causing additional fires and endangering your own life, locate the machinery to a fuel reduced area, in an attempt to prevent fire spread.
- Attempt to put the fire out.

MACHINERY OPERATIONS TABLE

The table below uses the **average wind speed (km/h)** for a range of different **temperature (°C)** and **relative humidity (RH%)** combinations to decide when machinery operations should cease.

To use the table:

1.

Obtain the relative humidity, temperature and wind speed values from the nearest suitable weather station, or from field observations. Follow the operating instructions for measuring instruments to get reliable results.

Use the temperature values and relative humidity, to work out which is the threshold wind speed in the table.

If the local wind speed is **above** the threshold, suspend operations until conditions moderate.

EXAMPLE: Refer to the highlighted areas on the table.

Temperature: 25°C.

Relative Humidity: 17% rounded down to 15%.

For this combination of Temperature and Relative Humidity operations should stop when the average wind speed goes above 33 km/h.

TEMP (°C)	5	10	15	20	
15	31	35	38	40	
20	29	33	36	38	4
25	27	30	33	36	
30	25	28	31	33	
35	23	26	28	31	
40	21	24	26	28	
45	19	22	24	26	
TEMP (°C)	5	10	15	20	