



Local Emergency Management Risk Treatments Report

October 2022

Introduction

In 2017 and 2018 the Shire of Broomehill-Tambellup undertook a risk assessment of hazards likely to impact within the Shire. This included the hazards of.

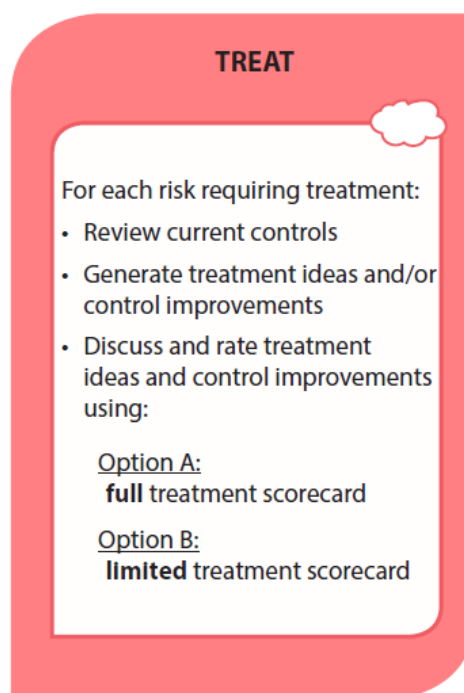
- Fire (bushfire)
- Heatwave
- Hazardous Materials; and
- Flood

The risk assessment process analysed 194 risk statements across the four hazards. From these risk statements, 75 risks were identified as requiring treatments and 31 required to be considered for treating.

In September 2022 the first of a series of risk treatment workshops was held to examine potential risk treatments. The process for risk treatment is based on the WA Emergency Risk Management Treatment Manual (SEMC).

The Risk Treatment Process

Risk statements were selected because of their risk rating and potential to adversely impact on the community. The process of generating potential treatment ideas followed the Guide and used the limited treatment scorecard.



The Workshops

Hazard	Risk Treatment Workshop
Fire	20 September 2022

At the workshops participants were asked the brainstorm and rate current controls for the identified risks across two elements – *effectiveness* – how effective is the control and *application* – how easily can the control be applied and used (attachment 1). The outcome of this process enabled controls to be identified which should (a) be continued (b) be discontinued and (c) could be improved as a further treatment.

The second stage of the workshop asked participants to brainstorm new treatment options. Participants were encouraged to take a greenfield approach to develop a comprehensive list. Each new treatment option was then rated according to whether they were practical, reduced the risk, had continuous effect, introduced new risk and cost effective (attachment 2).

Fire - Social Setting & People Impact													
Risk Statements	No.	Control	Owner	Control effectiveness					Control application				
				Very Low	Low	Medium	High	Unsure	Very Low	Low	Medium	High	Unsure
Social Settings • will impact the health of residents in the area and cause death or serious injury/illness, impacting the wellbeing of the community. • will cause displacement, death or injury to animals, impacting the wellbeing of the community. • will impact residential dwellings and contents, impacting the wellbeing of the community. • will result in short term (<14 days) displacement due to evacuation away from people's homes and work places, impacting the community wellbeing. • will impact the aesthetics of the area, impacting the community wellbeing.		Community Education - Bushfire Ready Plans incl animals											
		Firebreak + vegetation notice + ENFORCEMENT											
		Bushfire mitigation plan											
		PLAN ANIMAL WELFARE ACTIVATION											
		Evacuation Centres											
		OFFER COUNSELLING/DEBRIEF											
		Emergency Management Plans - all services											
		Business continuity plans											
		FAIRLY PROBABLY Fire Permits											
		Community Education - Bushfire Ready Plans											
People • will impact the health of people and cause death(s). • will impact the health of people and cause injury and/or serious illness.		PUBLIC FORUM AFTER INCIDENT FOR DEBRIEF COMMUNITY CONSULTATION											
		Bushfire SOPs / Guidelines											
		Evacuation Plan (Shire of MA)											
		OFFER COUNSELLING/DEBRIEF											

Picture 1: Identifying and assessing current controls

No.	Treatment	Owner	Treatment rating				
			NA	Very Low	Low	Medium	High
	Review of business continuity planning to local businesses - provision of resources - education	Shir				●	●●●●●
	Revision of Bushfire Ready Preparedness Plans - in person session	Shir CPC DPS				●	●●●●●
	Workshops for people on farms who don't respond when there's a fire - eg. pump/boats left to public the home	Shir DPS				●	●●●●●
	Primary School Education - targeted visit support in Charlotte!	School					●●●●●
	Primary School Bushfire Patrol - Tembelup - Broomhill	School				●	●●●●●
	Women's Bushfire Preparedness session - Link in w. farming group	Shir DPS					●●●●●
	Specific promotion of individual creating their own Bushfire Plan - O.T.P. into existing events	Shir DPS				●	●●●●●
	A4 Contact List for residents - Lidge emergency contact - Key Gate Data	CRC				●●●●●	●●●●●
	Community Bus for evacuation of students and/or infirmed residents	Shir				●●●●●	●●●●●
	Preparation for Annual fire suppression training - annual training	?			●	●●●●●	●●●●●

Picture: Brainstorming and rating new treatments

Next Steps

As each set of risk treatment options are identified they should form part of the LEMC agenda for implementation, monitoring and evaluation.

Attachment 1: Existing Controls Rating Criteria

Existing controls rating criteria

Level	Control EFFECTIVENESS <i>How effective is this control?</i>	Level	Control APPLICATION <i>How easily can the control be applied and used?</i>
High	Existing control is highly effective in reducing the level of risk	High	- The control is frequently applied. - The application of the control is well understood and resourced. - The cost of applying the control is within current resources and budgets.
Medium	Existing control is effective in reducing the level of risk	Medium	- The control is often applied. - Application of the control is outside of the operator's everyday experience. - Additional funding is being used to apply the control.
Low	Existing control has some effect in reducing the level of risk	Low	- The control is sometimes applied. - Operator's may not have experience in the application of the control. - Significant additional funding is being used to apply the control.
Very Low	Existing control has almost no effect in reducing the level of risk	Very Low	- The control is rarely applied. - Application of the control is outside of the experience of operators, specialist skills and knowledge may be required. - Extraordinary costs over and above existing resources are being used to apply the control.

Attachment 2: Treatment Rating Criteria

Treatment rating criteria

Level	Treatment description
High	- Entirely practical/realistic treatment - Large risk reduction potential - Continuous long term effects - Introduces no new risks - Affordable and cost effective
Medium	- Largely practical/realistic treatment - Some risk reduction potential - Mid-term continuous effects - Introduces new risks which are manageable - Largely cost effective
Low	- Moderately practical/realistic treatment - Small risk reduction potential - Short term effects - Introduces new negative risks with moderate consequences - Partially cost effective
Very Low	- Not a practical/realistic treatment - No risk reduction potential - No continuous effects - Introduces new negative risks - Not cost effective
Not applicable	Risk treatment not applicable for the risk

Attachment 3: Existing Risk Treatment Strategies - Fire

Existing Risk Treatment Strategies – Fire - Economy												
Risk Statements	Control	Control Effectiveness						Control Application				
- will impact commercial buildings, contents and services, resulting in financial losses. - will impact private buildings and contents, resulting in financial losses. - will impact main road transport routes, resulting in repair costs and/or financial losses. - will disrupt major freight routes, resulting in financial losses. - will impact bridges, or approaches to bridges, resulting in repair costs. - will impact train lines, resulting in repair costs and/or financial losses. - will impact communications infrastructure, resulting in repair costs and/or financial losses. - will impact power infrastructure, resulting in repair costs and/or financial losses. - will result in recovery activities, resulting in costs to local government. - will impact agricultural industry infrastructure (e.g. fencing, machinery, grain stores etc.), resulting in recovery costs and/or financial losses. - will impact on livestock (e.g. through death/injury/lack of pasture), resulting in financial losses. - will impact on crops/cropping/plantations (and consequently expected harvests), resulting in financial losses. - will disrupt business activities, resulting in financial losses.		Very Low	Low	Medium	High	Unsure		Very Low	Low	Medium	High	Unsure
	Identify strategic economic assets in high risk locations				X					X		
	Work with industry and the community to ensure understanding of bushfire risk				X					X		
	Creation and maintenance of buffer zones around residential property and critical infrastructure				X					X		
	Maintenance of powerlines and buffer zones			X					X			
	Encourage comprehensive business continuity planning				X					X		
	Establish contingencies for essential services			X					X			
	Promote education directed at property owners on actions they can take to reduce risks				X					X		
	Apply specific guidelines and procedures for new constructions in bushfire prone areas.				X					X		
	Bushfire risk mitigation plan				X				X			

Existing Risk Treatment Strategies – Fire – Public Administration													
Risk Statements	Control	Control Effectiveness						Control Application					
•will require recovery works to be undertaken by local government(s), impacting on their ability to maintain core services. • will cause an increased demand (surge) on DFES services at the local level, impacting their ability to maintain core services. • will cause an increased demand (surge) on St John Ambulance services at the local level, impacting their ability to maintain core services. • will cause an increased demand (surge) on WA Police services at the local level, impacting their ability to maintain core services. • will cause an increased demand (surge) on WA health services (including remote health services such as nursing posts and smaller hospitals/clinics) at the local level, impacting their ability to maintain core services. • will cause an increased demand (surge) on Main Roads WA services at the local level, impacting their ability to maintain core services. • will cause an increased demand (surge) on Department of Child Protection and Family Support services at the local level, impacting their ability to maintain core services. • will require response by State Agencies (not previously mentioned) at the local level, impacting on their ability to maintain core services. • will impact transport infrastructure, preventing or delaying emergency services from providing assistance. • will impact emergency service response buildings and facilities, impacting the ability to maintain core services. • will result in an increased demand (surge) on public facilities including public buildings (e.g. classrooms used for evacuees), impacting their core services. • will impact government offices, works depots and facilities, impacting the ability to maintain core services. • will impact power infrastructure, impacting the power company's ability to maintain core services. • will impact mobile and landline communication infrastructure, impacting the ability of telecommunication companies to maintain core services. • will impact potable water systems, impacting the ability to maintain core services. • will impact on home-based services and service providers (such as NGOs, meals on wheels, silver chain, WACHS, home care provisions), impacting on their ability to maintain core functions.		Very Low	Low	Medium	High	Unsure		Very Low	Low	Medium	High	Unsure	
	Firebreaks and bushfire plans, incident management				X					X			
	Obtain outside additional resources e.g. St Johns, LG support				X				X				
	2 man Police Station				X						X		
	Nursing Post (3 days a week)			X						X			
	Dept. of Communities – Katanning – recovery			X					X				
	DFES Vehicle identifier stickers (permit from DFES – vehicle access to properties or areas)			X					X				
	Establish appropriate evacuation centre for incident at hand (clear routes in/out)				X						X		
	Pre-identify multiple coordination centres				X						X		
	Included in LEMA to ensure contact is established to communicate road closures/incidents etc and access to services if required.					X					X		

Existing Risk Treatment Strategies – Fire – Social Setting											
Risk Statements	Control	Control Effectiveness					Control Application				
		Very Low	Low	Medium	High	Unsure	Very Low	Low	Medium	High	Unsure
- will impact the health of residents in the area and cause death or serious injury/illness, impacting the wellbeing of the community. - will cause displacement, death or injury to animals, impacting the wellbeing of the community. - will impact residential dwellings and contents, impacting the wellbeing of the community. - will result in short term (< 14 days) displacement due to evacuation away from people's homes and work places, impacting the community wellbeing. - will impact the aesthetics of the area, impacting the community wellbeing.	Community education				X			X			
	Firebreak notice & enforcement				X					X	
	Bushfire mitigation plan				X					X	
	Plan – Animal welfare activation (animal welfare plan)				X			X			
	Evacuation centres				X				X		
	Emergency management plans – all services				X				X		
	Business continuity plans				X				X		
	Fire permits				X				X		

Existing Risk Treatment Strategies – Fire – People											
Risk Statements	Control	Control Effectiveness					Control Application				
		Very Low	Low	Medium	High	Unsure	Very Low	Low	Medium	High	Unsure
- will impact the health of people and cause death(s) - will impact the health of people and cause injury and/or serious illness	Community education – Bushfire Ready				X			X			
	Public forum after incident for debrief, community consultation				X				X		
	Bushfire SOPs / Guidelines				X				X		
	Evacuation Plan (Shire) / LEMA				X				X		
	Offering counselling / debrief				X				X		

Attachment 4: New Risk Treatment Strategies

Shire of Broomehill-Tambellup

New Risk Treatment Strategies

Risk Treatment Option	Owner	Strategies
Promotion of bushfire preparedness	Local Government	1. Encourage individuals and households to have bushfire ready plans 2. Conduct workshops for people remaining on-farm during a fire 3. Promotion of business continuity planning and resources to local business 4. Publish 'tear-out' list of local emergency contacts in BT Times 5. Promote bushfire safe farm practices pre-season -e.g. cleaning down machines
Promotion of school-based programs	Schools	1. Tambellup PS and Broomehill PS to consider using DFES Bushfire Patrol program 2. Brigade visits to schools
Enhance bushfire compliance measures	Local Government	1. Review firebreak notice requirements for on-farm hazard separation zones 2. Investigate aerial firebreak inspection program 3. Offer property bushfire hazard inspections to owners
Enhance bushfire response strategies	Local Government	1. Implement Bushfire Mitigation Program (includes increased hazard reduction burning) 2. Include local St John Ambulance on incident notifications 3. Incorporate potential use of Shire's Community Bus in LEMA for evacuation of aged/infirm. 4. Seek information from Western Power on their program to reduce the risk of pole-top fires.
Wind Farm	Local Government	1. Provide information session to BFBs on fire risk, management, and mitigation for the windfarm.