

Barcoo Shire Damage Assessment Plan

A sub-plan of the Local Disaster
Management Plan



SP-1

OCTOBER 2020

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Heart of the channel country
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Endorsement

The Barcoo Shire *Damage Assessment Sub-Plan* details the arrangements necessary to obtain a comprehensive picture of the affects caused by a disaster event. It is typically carried out and submitted within the immediate hours after the event and focuses on issues such as human & social (population) impacts as well as damage to local infrastructure, economy and the environment.

This sub-plan is endorsed by the Barcoo Shire Local Disaster Management Group (LDMG) and approved for distribution.



.....
(Signature)

Mayor Sally O'Neil

Chairperson

Barcoo Local Disaster Management Group

Date: 28/10/2020

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Acknowledgements

Portions of this document are wholly or partially derived from the following sources:

- Queensland Prevention, Preparedness, Response and Recovery Disaster Management Guideline 2018
- Post disaster survey and assessment (2001) – Manual 14 – Australian Institute for Disaster Resilience

The acknowledgement recognises the source and use of material from the above references throughout this plan.

Document Control

The *Barcoo Shire Damage Assessment Sub-Plan* is a controlled document. The Local Disaster Coordinator (LDC) holds the master copy of this document.

Amendments

Any suggested or proposed amendments are to be forwarded in writing to:

Local Disaster Coordinator
Barcoo Shire Council
P.O. Box 14
Jundah, QLD 4736
Email: shire@barcoo.qld.gov.au

The LDC may approve inconsequential amendments to this document, however will ensure that any significant changes must be submitted to the LDMG for approval and be endorsed by Barcoo Shire Council.

A copy of each amendment will be forwarded to LDMG members. On receipt, the amendment is to be inserted into the plan and version control records updated.

Version control

No.	Date reviewed	Version	Comments	Posted by
1	March 2019	New plan	Replace old plan	M.Morrison
2	September 2019	Version 1	Reviewed and updated	LDMG
3	October 2020	Version 2	Annual Review	Council

Distribution

Copies of the sub-plan will be distributed to members of the Barcoo Shire LDMG and other entities as determined.

Organisation	Copy
Local Disaster Coordinator, Barcoo Shire LDMG	Master copy
Chairperson, Barcoo Shire LDMG	1
Barcoo Shire LDMG core membership	5
District Disaster Coordinator, Longreach	1
EMC, QFES (Longreach)	1

Abbreviations and acronyms

Abbreviation/acronym	Definition/meaning
EMC	Emergency Management Coordinator
LDC	Local Disaster Coordinator
LDMG	Local Disaster Management Group
QFES	Queensland Fire and Emergency Services
QRA	Queensland Reconstruction Authority

PART 1 – ADMINISTRATION AND GOVERNANCE

Authority to plan

This plan has been prepared under the authority of the Barcoo Shire Local Disaster Management Group (LDMG) on behalf of Barcoo Shire Council as an operational sub-plan of the Local Disaster Management Plan and in accordance with section 30 of the Disaster Management Act 2003 (DM Act).

Purpose of sub-plan

This plan is intended to assist the Barcoo Shire LDMG expedite decision-making by developing and implementing a damage assessment strategy for the gathering of appropriate data that identifies the extent of a disaster impact upon the community, its infrastructure, services and industries.

Objectives

- Provide comprehensive (multi-source) and standardised data/information on the impact of an event.
- Identify community impact and what actions are required to ensure the return of that community to normality.
- Setting priorities and making decisions during response and recovery stages of the disaster management continuum.

Context

- Due to the remoteness of the Shire, it is understood that initial assessments will need to be conducted using local personnel, who are familiar with the location, community and infrastructure. This will result in a heightened need to ensure that such assessments are appropriately coordinated and managed
- However, it is recognised and agreed that Queensland Fire and Emergency Services (QFES) in partnership with Queensland Reconstruction Authority (QRA) may:
 - Undertake the assessments in partnership with Barcoo Shire Council, or
 - Implement a broader based system of assessments to ensure a District coordinated approach to external support, dependent upon the nature and magnitude of the event.

Maintenance of this sub-plan

This plan is to be maintained by the LDC or delegate. It should be reviewed annually to ensure it remains current and relevant.

Definitions¹

Damage assessment

- The process of collecting quantifiable data that enables the assessment of the impact of an event. Data collected could be used to inform *Impact Assessments*.

¹ Queensland State Disaster Plan

Impact assessment

- The analysis of the consequences of an event, including psychosocial (emotional and social), economic, natural and built environment.

Timing of assessments

Damage and impact assessments are ideally conducted during **Phase 1** of the recovery process, namely, **Post-Impact Relief and Early Recovery**

Planning assumptions

- An authoritative Damage Assessment can only be conducted by a suitably qualified person such as an engineer, QFES representative or QRA representative.
- In the early stages of a disaster, information may be scarce or it may be overwhelming. It will almost certainly be confused, fragmented, conflicted, biased, inappropriate, inaccurate or wrong
- The availability of information and its quality will improve with time. Early decisions made on the basis of limited information, can then be refined or changed as required
- Impact assessments examine the ways in which the hazard has affected the community
- Information collected and analysed during the initial assessment becomes baseline data
- The type of information that needs to be processed during impact assessments will vary with the hazard, the severity of the impact, the complexity of the community and the area to be assessed. It will also vary according to the amount and accuracy of baseline information with which it can be compared.

PART 2 – ASSESSMENT FRAMEWORK

Assessment and reporting

To make informed decisions, all levels of government requires data/information about the impact of disasters on communities. Damage and impact assessments provide a timely and accurate understanding of the effects of a disaster and should be based on existing 'community' structures and recognised functions that makes up the fabric of that community. The following schematic illustrates an established community structure.



Disaster affected communities may not have the resources locally to effectively carry out assessments and consequently, resources may need to be requested from outside the affected area through the District Disaster Management Group (DDMG). In these instances, QFES will support local government with impact assessments by undertaking a damage assessment immediately after the event and providing intelligence on the number of homes and other buildings damaged and the nature of the damage.

QRA may provide support for this activity. This information is provided directly to local government by the QFES as well as included in daily *Situation Reports* and ongoing planning strategies. LDMGs, DDMGs and State agencies also provide information on impacts through daily situational reporting through to the SDCC. Assessments of damage to infrastructure will assist when claiming under DRFA.

In the longer term, assessments expand to include a broader social assessment together with an assessment of the impacts on the economy and the built and natural environment. This assessment could identify implications for business and government continuity and may alter the conduct of the recovery activities².

² Queensland State Disaster Plan

Coordination

Assessments for the Shire should be coordinated through the LDCC and appropriately recorded in accordance with the LDCC procedures for reporting purposes and future reference for audit or inquiry purposes as required.

Initial impact assessment can be achieved through:

- Member agencies and organisations of the LDMG ensuring appropriate liaison with and the provision of impact information and data from their own agency personnel located across the Shire
- Reliable community members (All information received should be based on actual experiences and not anecdotal evidence)

This would predominantly provide information in the first instance, relating to the more populated urban areas of the Shire (Jundah, Windorah and Stonehenge) with some information relevant to rural areas available via established property contacts and relationships, thereby informing the need for more detailed or rigorous impact assessment arrangements and planning.

It is imperative that all impacted areas and communities of the Shire are considered and assessed particularly if there is a need to request external assistance from the DDMG.

Daily impact assessments should be displayed in the LDCC as part of the overall situational awareness of the event.

Assessment system

Where it is decided to initiate formal impact assessments, a grid system should be implemented for the deployment of impact assessment teams, to ensure maximum coverage without duplication of effort. Typically, this can be achieved by assigning streets, town blocks or geographical areas to particular teams.

Insurance claims

When assessing future recovery needs of disaster-affected communities, consideration must be also given to personal insurance policies policy information as this can dramatically impact upon future actions by authorities.

PART 3 – ROLES AND RESPONSIBILITIES

Queensland Reconstruction Authority (QRA)

The role of the QRA in damage assessment is two-fold:

1. To collect and collate information about community infrastructure and other property, and community services, damaged or otherwise affected in a disaster event³
2. Determine priorities for community infrastructure and community services needed for the protection, rebuilding and recovery of affected communities⁴

Ideally, this action should be undertaken in partnership with QFES and local government officers.

Queensland Fire and Emergency Services

- Undertake rapid damage assessments (RDA) using portable handheld devices
- Coordinate Air Operations with RDA
- Provide appropriate personnel to act as RDA Coordinating Officer to liaise with local government officers and other entities (e.g. QRA) during assessments

Local Disaster Management Group Members

- Every member agency of the LDMG has a responsibility for determining the effects of a disaster event upon their own operations and/or their area of community involvement.

Local Disaster Coordinator

- It is the responsibility of the LDC to ensure that:
 - Assessments are coordinated
 - Information is collated and provided to the LDMG collectively and to other relevant stakeholder groups as appropriate including the District and State levels of the disaster management system.

Local Disaster Coordination Centre

- The role of the LDCC is to ensure all data/information is gathered in accordance with agreed arrangements, collated, recorded and reported on.
- Ideally, data collected on a daily basis should be displayed in the LDCC

³ QRA Act 2011, Division 2, Section 10(c) – Functions and Powers

⁴ QRA Act 2011, Division 2, Section 10(a) – Functions and Powers

PART 4 – UNDERTAKING ASSESSMENTS

Data Sets

Based on community structures as previously outlined in *Assessment and Reporting*, when undertaking a damage assessment, the following data sets should be considered:

A set of assessment forms based on the following data sets are shown at Annexures 1-9.

For ease of recording, some of the below detailed data sets have been amalgamated into the same assessment forms.

Impact	Data set	Description
AREA AFFECTED	Size and location of impact	Whether urban (town), rural or remote properties
HUMAN & SOCIAL	Deaths	Numbers deceased as a result of the event, the locations and where possible circumstances (e.g. in vehicles, in dwellings, drownings). This information will be necessary in relation to the logistics required for storage and transport after initial investigations by Police are completed and will also assist in later reviews or inquiries.
	Injuries	The number of injured will have a direct correlation to the level of medical care required. Should the medical capability of the Shire be severely disrupted or overwhelmed, early advice is paramount in order to ensure a rapid activation of external health resources or to facilitate medical evacuations to other centres.
	Sick/infirm/disability	Early identification is necessary as such circumstances will have a similar impact on local medical capabilities as mass injuries thereby requiring an intervention by external health resources or to facilitate evacuations to other centres.
	Missing	The number of missing persons may have a direct impact on search and rescue capabilities thereby directly impacting on the capacity of local emergency services availability for other response activities. This would potentially require the deployment of external resources.
	Displaced/evacuated	Many disasters can result in the evacuation of people prior to or following the event (e.g. Homes becoming uninhabitable due to damage or health risks). Early identification of the number of people displaced will inform the need for alternative accommodation including the need for evacuation centres as short-term accommodation facilities or in some instances longer-term temporary accommodation.

Impact	Date set	Description
HUMAN & SOCIAL (Cont.)	Displaced/evacuated (Cont.)	Evacuations have the potential to cause significant distress for evacuees and may cause sustained and overwhelming enquiries from family or the general public. As a consequence, it is critical that an effective evacuee registration process is implemented and maintained as soon as possible. This will provide timely information for authorities to determine what external resources are required to support the evacuation
	Medical evacuations	The need for medical evacuations will be determined by the level of medical services still functioning after the impact of an event. The need for medical evacuations will ultimately be determined by the relevant health authorities and may necessitate assistance from the LDMG/DDMG in the provision of appropriate transportation.
	Personal hardship	Early identification of persons who are affected by an event will assist authorities in determining the level of support required for that community including activation of financial support arrangements as well as other local recovery programs.
ECONOMIC	Agriculture	Agriculture is a significant industry and economic driver within the Barcoo Shire and assessment of the impact of the event is important in informing a range of recovery issues including infrastructure, economic, human social and associated personal hardship issues.
	Commercial/small businesses	An assessment of local businesses will provide an indication of longer-term effects on community sustainability as well as economic recovery for the Shire. The lack of power will result in food spoilage and impact the capacity of food suppliers to provide an ongoing supply to the community. It will also have a serious effect on those members of the community reliant upon power-driven medical devices in the home, potentially requiring their evacuation to a more suitable location.
	Loss of local services and supplies	Loss of local food supply is important to recognise early. Cold storage areas or premises such as supermarkets/stores, which provide a regular food source to a community, should be repaired and maintained as a matter of priority.
	Tourism	Assess impact on local tourism operators or external operators who use local resources including impact on local economy.

Impact	Date set	Description
ENVIRONMENTAL	Green & hard waste	Identify quantity of waste for removal. Identify hazardous material waste for special treatment and removal.
	Sewerage	Assess whether sewerage/septic systems are operating following flooding.
	Water quality	Assessment of water quality that may have detrimental impact upon community health
	Vector infestations	Secondary hazards, such as vector infestations in the aftermath of a flooding event can cause major problems for both human and animal populations.
BUILDING	<ul style="list-style-type: none"> ● Private dwellings ● Public buildings ● Commercial ● Medical facilities <ul style="list-style-type: none"> - Hospitals - Medical centres - Clinics - Aged care - General Practitioners 	<p>The number of private dwellings, public buildings and commercial businesses damaged or destroyed needs to be determined in order to gauge the effects on the community and if further interventions such as evacuation needs to be considered.</p> <p>Damaged or destroyed buildings, which were listed as evacuation centres need to be identified, so that alternative arrangements can be implemented where necessary.</p> <p>If government buildings are damaged or destroyed, then alternative arrangements will need to be considered to ensure continuity of government services.</p> <p>The level of medical and health services available to the impacted community needs to be assessed to ensure continuing support can be sustained. If local services are compromised, external medical resources may be provided or injured/ill/aged persons may be transferred to other centres for care.</p>
ROADS & TRANSPORT	<ul style="list-style-type: none"> ● Roads ● Bridges ● Culverts ● Airstrips ● Telecommunications ● Water treatment 	Assessment of infrastructure and lifelines that has been or may have been damaged during the event is critical in the very early stages after the event to ensure owner/operators of the asset can commence restoration work as soon as possible.

LIST OF ANNEXURES

- 1) Affected population assessment form
- 2) Building damage assessment form
- 3) Economic damage assessment form
- 4) Environmental damage assessment form
- 5) Water & sanitation assessment form
- 6) Administration, communications, transport & public facilities assessment form
- 7) Food assessment form
- 8) Agriculture assessment form
- 9) Transport & lifeline assessment form

Annexure 1 – Affected population assessment form

POPULATION IMPACT ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date of assessment:		Time of assessment:	
Assessment by:		Agency/organisation:	
Contact details:	Tel/Mob:	Email:	
Area affected			

AFFECTED POPULATION	NO.	COMMENTS
Adults (>15y)		
Children (5-15y)		
Infants (<5y)		
CASUALTIES	NO.	COMMENTS
Deceased		
Seriously injured		
Moderately injured		
Slightly injured		
Sick		
Aged care		
People with disabilities		
Missing		
EVACUATION CENTRES OPEN	NO.	COMMENTS
MEDICAL EVACUATIONS REQUIRED	NO.	WHERE TO
PERSONAL HARDSHIP CASES IDENTIFIED	NO.	LOCATIONS
OTHER INFORMATION		

Annexure 2 – Building damage assessment form

BUILDING DAMAGE ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date of assessment:		Time of assessment:	
Assessment by:		Agency/organisation:	
Contact details:	Tel/Mob:	Email:	
Area affected			

DWELLINGS (Provide numbers or percentages)

SCALE OF DAMAGE	HOUSING TYPE			
	Brick/Block	Timber	Fibro	Other (describe)
Destroyed				
Major damage				
Moderate damage				
Slight damage				

PUBLIC BUILDINGS	COMMENTS
Clinics/medical centres	(Describe impact, implications)
Schools	(Describe impact, implications)
Community halls	(Describe impact, implications)
Local government buildings	(Describe impact, implications)
Police & emergency service facilities	(Describe impact, implications)
Other buildings	(Describe impact, implications)
	(Describe impact, implications)
	(Describe impact, implications)

TRANSPORT ASSETS	COMMENTS
Roads	(Describe impact, implications)
Bridges	(Describe impact, implications)
Airports/airstrips	(Describe impact, implications)
	(Describe impact, implications)

DAMAGE ASSESSMENT FORM (CONT.)

COMMUNICATIONS ASSETS		COMMENTS
Mobile phone towers	(Describe impact, implications)	
Repeater sites	(Describe impact, implications)	
Land-line	(Describe impact, implications)	
Internet	(Describe impact, implications)	
	(Describe impact, implications)	
	(Describe impact, implications)	

MEDICAL & PUBLIC HEALTH ASSETS		COMMENTS (Including damage)	
Hospitals	(Describe impact, implications)		
Medical centres	(Describe impact, implications)		
Clinics	(Describe impact, implications)		
Aged care facilities	(Describe impact, implications)		
General Practitioners	(Describe impact, implications)		
STAFFING ISSUES	AVAILABLE	REQUIRED	
Doctors			
Nurses			
Other (Describe)			
Medical supplies required	(List)		

BUSINESS/INDUSTRY	COMMENTS
Small business	(Describe impact, implications)
Services	(Describe impact, implications)
Tourism	(Describe impact, implications)
Industry	(Describe impact, implications)

Annexure 3 – Economic damage assessment form

ECONOMIC DAMAGE ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date:		Time of assessment:	
Assessment By:		Agency/organisation	
Contact Details	Tel/Mob:	Email:	
Area affected:			

DAMAGE		COMMENTS
Type	No.	Impact/implications
Small businesses (e.g. shops, cafes, hotels)		
Tourism operators		
Local services (e.g. Fuel suppliers)		
Transport operators		
Other (List)		
Agriculture	Refer to Annexure 8 – Agriculture assessment	
Further information		

Annexure 4 – Environmental damage assessment form

ENVIRONMENTAL DAMAGE ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date of assessment:		Time of assessment:	
Assessment by:		Agency/organisation:	
Contact details:	Tel/Mob:	Email:	
Area affected			

ENVIRONMENTAL HEALTH	COMMENTS
Stagnant water/drainage	(Describe impact, implications)
Sewerage/septic systems	(Describe impact, implications)
Sewerage disposal	(Describe impact, implications)
Green & hard waste disposal	(Describe impact, implications)
Spoiled food disposal	(Describe impact, implications)
Hygiene related issues (e.g. showering, cleaning, food handling)	(Describe impact, implications)
Insect or vermin infestations and eradication (Vector control)	(Describe impact, implications)
Other (List)	(Describe impact, implications)
	(Describe impact, implications)
	(Describe impact, implications)

Annexure 5 – Water & sanitation damage assessment form

WATER & SANITATION DAMAGE ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date of assessment:		Time of assessment:	
Assessment by:		Agency/organisation:	
Contact details:	Tel/Mob:	Email:	
Area affected			

WATER SUPPLY		COMMENTS			
Potable water (Safe to drink)	YES / NO (If NO , provide reason)				
Source of supply					
Is supply source damaged?	YES / NO (If YES, provide details)				
What is required to repair?					
Quantity of water required daily for drinking purposes					
Other					
Event effect on supply					
Quantity	Drinking	Household	Agriculture	Industry	
No difference					
Reduced but sufficient					
Insufficient					
No water					

SANITATION		COMMENTS			
Sewerage/septic system					
Is sewerage system functioning?					
Has it overflowed or been flooded					
Describe the problem					
What is required to rectify?					
Further information					

Annexure 6 – Coordination, communications, assessment form

COORDINATION, COMMUNICATIONS DAMAGE ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date:		Time of assessment:	
Assessment By:		Agency/organisation	
Contact Details	Tel/Mob:	Email:	
Area affected:			

ADMINISTRATION	COMMENTS
Who is coordinating local disaster management activities?	
Contact details	
Location	
EMERGENCY SERVICES	COMMENTS
Services available	
Any problems resulting from the event	
Support needs	
COMMUNICATIONS	COMMENTS
Communications available to the Local Disaster Coordination Centre?	
Public radio broadcasting stations being received?	
What assistance with communications is required?	

Annexure 7 – Food assessment form

FOOD SUPPLY IMPACT ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date:		Time of assessment:	
Assessment By:		Agency/organisation	
Contact Details	Tel/Mob:	Email:	
Area affected:			

FOOD SUPPLIES		COMMENTS
For families - estimated days of food remaining?		
Numbers of people without sufficient food supplies?		
For stores – estimated days of food remaining?		
IMMEDIATE FOOD NEEDS (What is needed)		
ITEM	DAILY REQUIREMENT	WHERE TO

Annexure 8 – Agriculture assessment form

AGRICULTURE DAMAGE ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date:		Time of assessment:	
Assessment By:		Agency/organisation	
Contact Details	Tel/Mob:	Email:	
Area affected:			

LIVESTOCK LOSSES (Numbers or %)				
Animal type	Dead	Injured/stranded	Unaccounted	Remaining

CROP LOSSES (%)				
Crop type	Area	Destroyed (%)	Damaged (%)	Undamaged (%)

EQUIPMENT (Including fencing)	
Describe losses	
Needs	
Further information	

Annexure 9 – Transport & Lifeline assessment form

TRANSPORT & LIFELINES DAMAGE ASSESSMENT FORM

- This information is to be passed onto Local Disaster Coordination Centre with minimum delay
- Each section may be expanded to include necessary information

Local government:	Barcoo Shire	Disaster District:	Longreach
Date:		Time of assessment:	
Assessment By:		Agency/organisation	
Contact Details	Tel/Mob:	Email:	
Area affected:			

TRANSPORT	COMMENTS
ROAD	
Which highways/main roads are closed?	
Estimated time to re-opening?	
Damage overview	
Transport operators	
Are there reports of stranded vehicles?	YES / NO (If YES, provide details and proposed actions)
AIR	
Is airport serviceable?	YES / NO (If NO, provide details)
Describe any damage or limitations to use	

ELECTRICITY & FUEL SUPPLIES	COMMENTS	
Are electricity supplies functioning?	YES / NO (If NO, provide details)	
Is fuel available?		
If fuel supplies are required, list types and quantity?	Diesel	Quantity
	Unleaded	Quantity
	Jet-A1	Quantity
Further information		