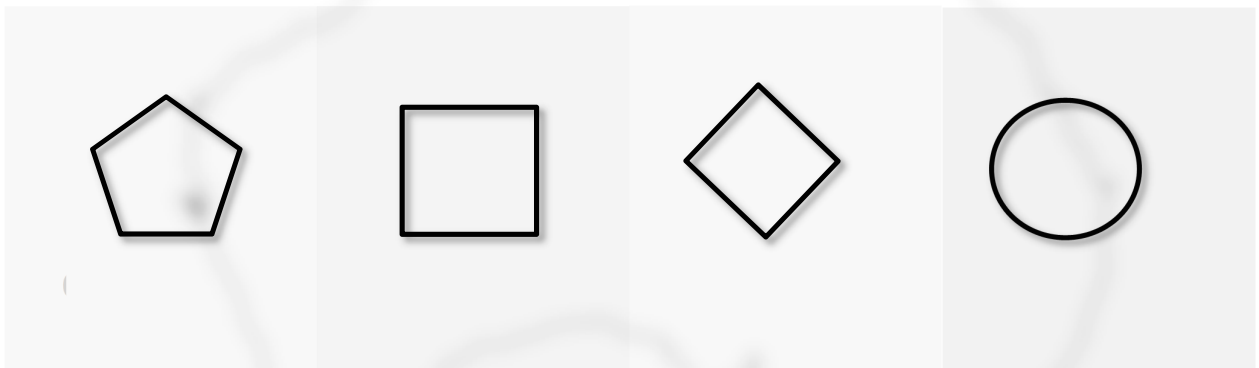


Australian All Hazards Symbolology

Version 2 – 2018





Document History:

Version	Author(s)	Date
1.0	Wayne Patterson , EMSINA 2010 Members	2010
2.0	Teena Speirs (EMSINA Chair), Country Fire Authority, Victoria Nicholas Cundell (EMSINA Symbology Officer), Country Fire Service, South Australia Elliott Simmons (EMSINA Chair), NSW State Emergency Service, New South Wales Kane Orr , Geoscience Australia, Australian Government	2018



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1. Introduction

Australian emergency management agencies have been using standard symbology in mapping products since the inception of an Australian All Hazard Symbology (AAHS) set in 2010.





A solid governance process has since been established, with standard forms for requesting new symbols, altering existing ones, and an overall process workflow that EMSINA will follow when considering a symbol proposal.

A range of new symbols have been submitted and considered by EMSINA since the adoption of the set in 2010, and in September 2018 an updated set of AAHS has been released. This includes an addition to the symbology framework and 15 new emergency management symbols.

The process, the symbol set, associated documents and the entire project history can be found on EMSINA's website <https://www.emsina.org/allhazardssymbology>

2. Symbology Framework

The AAHS Symbology Framework definitions:

Shape	Category	Definition
	Operations	Relevant to incidents for any hazards including natural event, civil activities and policing
	Incident	Relevant to planned and operational responses to events and incidents including supporting intelligence
	Assets	Assets or infrastructure that are relevant to an incident or event or operational response; assets at risk, or infrastructure that needs protection
	Observations (new for 2018)	Features which are effected or impacted by the incident

3. Project History (Summarised):

a. 2005 to 2007

In 2005 a project commenced to develop an Australasian All Hazard Symbology (AAHS) set. The original project was sponsored by the Intergovernmental Committee on Surveying and Mapping (ICSM) and the Australian New Zealand Land Information Council (ANZLIC). The aim of the project was to develop a consistent All Hazards Symbology framework and symbol set, with the intent of being adopted by emergency management agencies across Australia and New Zealand.

A summarise narrative attaining to this phase of the Project can be read here: <https://www.emsina.org/allhazardssymbology> (AAHS 2010 Report pages 2-3)



b. 2008 to 2010

In 2008 EMSINA introduced an All Hazards Symbolology project to test the proposed Australasian All Hazard framework and symbol set.

After a considerable amount of consultation across Australia emergency management agencies in 2008 and 2009 EMSINA recommended a framework defined by 3 major parameters and the implementation of 76 emergency management symbols.

A complete narrative attaining to this phase of the Project can be read here:
<https://www.emsina.org/allhazardssymbology> (AAHS 2010 Report pages 4-9)

c. 2011 to 2017





Between 2011 and 2017 EMSINA remained active in collecting information about new and/or improved AAHS. A dedicated symbolology officer was elected in 2015. This person in collaboration with a small EMSINA working group totally revised the Group's method of collecting and approving symbols in 2016. In 2015 the Symbolology Officer was also given a standing agenda time at the National meetings to discuss any topics relating to the AAHS set.

Although a new AAHS set was not released during this period EMSINA collected and approved the use of the following new emergency management related symbols. It should be noted that the only reason these new symbols were not included into the downloadable AAHS sets was insufficient funding for their development.

4. 2018 AAHS Version

The 2018 version introduces the following symbols into the AAHS:

a. Asset related symbols:

	Main Fire-Fighting Facility	A facility, from where fire-fighting resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency
	Secondary Fire-Fighting Facility	
	Scale Dependant Fire-Fighting Facility	
	Main Ambulance Facility	A facility, from where ambulance resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency



	Secondary Ambulance Facility	
	Scale Dependant Ambulance Facility	
	Main SES Facility	A facility, from where state emergency service resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency
	Secondary SES Facility	
	Scale Dependant SES Facility	
	Main Life-Saving Facility	A facility, from where life-saving resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency. A lot of Life Saving facilities will be surf clubs associated to that location. A secondary facility is a life-saving surveillance tower or viewing platform often in close proximity to the SLSC.
	Secondary Life-Saving Facility	
	Scale Dependant Life-Saving Facility	
	Main Police Facility	A facility, from where police resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency
	Secondary Police Facility	
	Scale Dependant Police Facility	











	Hoarding / High Fuel Load	Residential property that has high fuel loads due to hoarding at Level 5-9 using Clutter Image Rating Scales (CIRS).
	Apiary Site	Location of beehive(s).

Table 1

b. Operations related symbols:

	Chemical Exclusion Zone	Reduce and prevent the area indicated by symbology from having chemicals such as fire suppressants applied in this area due to potential impacts to water
	Aerial Containment Zone	Completed containment line where fire suppressant agent was applied
	Fire Exclusion Zone	To exclude bushfire from indicated area
	Aerial Containment Planned	Planned containment line where fire suppressant agent is applied from an aircraft
	Machine Exclusion Zone	To exclude earth moving machinery disturbing the area
	Aerial Ignition Planned	It allows personnel on the fire ground to have a clear understanding of where an aerial ignition pattern will start and potentially stop by the use of an arrow. It also includes a number and letter system which differentiates the lighting plan and enables everyone on the fire ground to follow which line is being implemented by the identifier. Users can also use the numbering system to determine which should be lit first.




	Aerial Ignition Completed	This allows personnel on the fire ground to have a clear understanding of what planned aerial ignitions have been completed.
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Table 2

c. Observation Framework Symbol:


	Observation Framework Symbol	Features which are effected or impacted by the incident
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Table 3

5. Future AAHS Version(s)

Development of future Australian All Hazards Symbolology sets remains dependent upon the availability of external funding for its development. Therefore, EMSINA is unable to formally commit a next version release date.

6. Acknowledgements

- The development of AAHS Version 2 (2018) was sponsored by Geoscience Australia's National Location Information Branch (NLIB). In-particular EMSINA wishes to thank Mr. Simon Costello (NLIB Branch Head) for the generous grant that enabled the development of the AAHS Version 2 - 2018.
- A considerable amount of baseline information from the 2010 AAHS report was able to be re-used within this document. Therefore, current EMSINA members wish to recognise the 2010 EMSINA Group, led by Wayne Patterson (EMSINA Life Member), who compiled the initial 2010 report.
- EMSINA also wishes to acknowledge Nick Cundell (EMSINA Symbolology Officer) and Teena Speirs for their dedication and hard work (mostly voluntary) in organising the AAHS content and associated contracts for the 2018 AAHS Version.



Appendix 1 – Australian All Hazards Symbol Set



Incident



Asset



Operations













Observations



Incidents

Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
General Incident	General	Point		Confirmed	Any unplanned event requiring emergency intervention (AIIMS).	
				Unconfirmed		
Air Incident	General	Point		Confirmed	Occurrences during the operation of an aircraft in which any person involved suffers death or serious injury or in which the aircraft receives substantial damage (EMA).	
Flood	General	Point		Confirmed	The overflowing by water of the normal confines of a stream or other body of water, or the accumulation of water by drainage over areas which are not normally submerged (WMO).	
Landslide	General	Point		Confirmed	A landslide is the movement of rock, debris or earth down a slope. They result from the failure of the materials which make up the hill slope and are driven by the force of gravity. Landslides are known also as landslips, slumps or slope failure (Geoscience Australia)	
				Unconfirmed		
Marine Incident	General	Point		Confirmed	Occurrences during the operation of a boat or ship in which any person involved suffers death or serious injury or in which the boat or ship receives substantial damage (modification of EMA Air Incident definition).	
				Unconfirmed		



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Rail incident	General	Point		Confirmed	Occurrences during the operation of a train in which any person involved suffers death or serious injury or in which the train receives substantial damage (modification of EMA Air Incident definition).	
				Unconfirmed		
Storm Surge	General	Point		Confirmed	The difference between the actual water level under influence of a meteorological disturbance (storm tide) and the level which would have been attained in the absence of the meteorological disturbance (i.e. astronomical tide) (WMO).	
				Unconfirmed		
Thunder-storm	General	Point		Confirmed	Sudden electrical discharges manifested by a flash of light (lightning) and a sharp or rumbling sound (thunder) (WMO). Often accompanied by squalls and/or precipitation (Rain and/or Hail)" (BoM Weather Service Handbook 1992).	
				Unconfirmed		
Tropical Cyclone	General	Point		Confirmed	Tropical cyclones are intense low pressure systems which form over warm ocean waters at low latitudes. Tropical cyclones are associated with strong winds, torrential rain and storm surges (in coastal areas) (BoM).	
				Un confirmed		
Tsunami	General	Point		Confirmed	A tsunami is a series of ocean waves with very long wavelengths (typically hundreds of kilometres) caused by large-scale disturbances of the ocean (BoM).	
				Unconfirmed		



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Vehicle Incident	General	Point		Confirmed	Occurrences during the operation of a wheeled or tracked vehicle in which any person involved suffers death or serious injury or in which the vehicle receives substantial damage (modification of EMA Air Incident definition).	
				Unconfirmed		



Incident



Asset



Operations














Observations






Assets

Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
General Assets	General	Point			Anything valued by people which includes houses, crops, forests and, in many cases, the environment (AFAC).	AIIMS had structure shown as a solid black shape. Open rectangle caters for different types of assets.
				Potentially Defendable	The status of the asset is defined by the judged ability to counter the known threat of an active incident.	Included inside asset symbol with colour changed to black.
				Defendable		Included inside asset symbol with colour changed to black.
				Not Defendable		Included inside asset symbol with colour changed to black.
HAZMAT	General	Point			Storage location of substances or materials which has been determined by an appropriate authority to be capable of posing an unreasonable risk to health, safety and property.	
Historic Site	General	Point			Site of historical significance that emergency responders need to be aware of to minimise impact.	
Indigenous Site	General	Point			Site of Indigenous artifacts or cultural importance that emergency responders need to be aware of to minimise impact.	
Significant Flora	General	Point			Site of significant flora that emergency responders need to be aware of to minimise impact.	
Significant Fauna	General	Point			Site of significant fauna that emergency responders need to be aware of to minimize impact.	
Threatened Asset	General	Point			Asset identified at risk of being destroyed or significantly damaged by a hazard.	Previously Sensitive Asset and Machine Sensitive Asset shown as circle with either S or MS respectively.
Fire Station	Emergency Management	Point			A facility, from where fire-fighting resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency.	Main facility – For B/W versions replace red colour with black



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Fire Station	Emergency Management	Point				Secondary facility- For B/W versions replace red colour with black
						Scale dependent – For B/W versions replace red colour with black
Ambulance	Emergency Management	Point			A facility, from where ambulance resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency.	Main facility – For B/W versions replace green colour with black
						Secondary facility – For B/W versions replace green colour with black
						Scale dependent – For B/W versions replace green colour with black
State Emergency Service Facility	Emergency Management	Point			A facility, from where state emergency service resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency	Main facility – For B/W versions replace yellow colour with black
						Secondary facility – For B/W versions replace yellow colour with black
						Scale dependent – For B/W versions replace yellow colour with black
Life Saving facility	Emergency Management	Point			A facility, from where life-saving resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency. A lot of Life Saving facilities will be surf clubs associated to that location. A secondary facility is a life-saving surveillance tower or viewing platform often in close proximity to the SLSC.	Main facility – For B/W versions replace yellow and red colour with black
						Secondary facility – For B/W versions replace yellow and red colour with black
						Scale dependent – For B/W versions replace yellow and red colour with black



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Police facility	Emergency Management	Point			A facility, from where policing resources are commanded, coordinated, housed and/or assigned to an event, incident or emergency.	Main facility – For B/W versions replace blue colour with black
						Secondary facility- For B/W versions replace blue colour with black
						Scale dependent - For B/W versions replace blue colour with black
Hoarding/ High Fuel Load	Fire	Point			Residential property that has high fuel loads due to 'Hoarding' at Level 5-9 using the Clutter Image Rating Scale (CIRS). Identify residential properties that have high fuel loads due to 'Hoarding' at Level 5-9 as outlined in the attached 'Clutter Image Rating Scale' document.	See 'Clutter Image Rating Scale' (CIRS) document.
Apiary Site	General or Fire	Point			Symbol to designate location of beehive(s). QPWS has large number located with the 12 million ha of reserves they manage. Used in the management of fire for the preservation of the assets	



Incident



Asset



Operations














Observations

Operations

Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Access point	General	Point		Established	Undefined	A base for both fixed wing and helicopter operations used for parking, refueling and maintenance of helicopters operating in support of an incident or on standby for possible emergency operations. Normally, an airbase would be a fully established airfield.
				Planned		
Airbase	General	Point		Established	A base for both fixed wing and helicopter operations used for parking, refueling and maintenance of helicopters operating in support of an incident or on standby for possible emergency operations. Normally, an airbase would be a fully established airfield.	
				Planned		
Animal Shelter	General	Point		Established	Undefined	
				Planned		
Area of Interest	General	Polygon			The extent and location anticipated at being at risk from a particular incident or event.	Previously Area Marker in AIIMS with colour grey. Colour & direction to be reviewed pending Tactical Review and Biosecurity Symbolology.
Assembly Area	General	Point		Established	A designated location used for the assembly of emergency-affected persons. The area may also incorporate an emergency relief centre (EMA).	
				Planned		













Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Base Camp	General	Point		Established	A location where personnel are accommodated and fed for a period of time. A base camp usually contains catering, ablution and accommodation facilities, a water supply and a lighting system, and may include other facilities such as car parking maintenance and servicing (AIIMS).	
				Planned		
Control Area	General	Polygon			A declared area in which defined movement conditions apply.	Reviewed with Biosecurity symbology. Biosecurity symbology further defines restricted area, control area and other types of declared areas which control movement into, out of and within.
Control Centre	General	Point		Established	The location where the Incident Controller and various members of the Incident Management Team provide overall direction of response activities (AFAC).	
				Planned		
Control/ Operations Point	General	Point		Established	The location from which the overall field operations are commanded by the Operations Officer (AIIMS).	
				Planned		
Declaration Area	General	Polygon			Undefined	
Divisional Boundary	General	Point			Division: A portion of the incident comprising of two or more sectors. The number of sectors grouped in a Division should be such as to ensure effective direction and control of operations. Divisions are generally identified by a local geographic name (AFAC).	
Divisional Command	General	Point		Established	Location at an incident from which the Division Commander of that division operates (AIIMS).	
				Planned		



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Drop Zone	General	Point		Established	Target area for air tankers, heli tankers, or cargo dropping (AFAC).	
				Planned		
Emergency Alert Warning Area	General	Polygon		Established	Undefined	
Evacuation/ Escape Route	General	Line		Planned	A planned route away from danger areasatahazard(AFACmodified).	
		Point		Established		
				Planned		
Evacuation Area	General	Point		Established	Areas surrounding an emergency incident in which personnel and/or residents may be subject to ready removalincaseofnecessity(EMA).	
				Planned		
Evacuation Centre	General	Point		Established	Centres that provide affected people with basic human needs including accommodation, food and water (EMA).	
				Planned		













Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Helibase	General	Point		Established	A base for helicopter operations used for parking, refueling and maintenance of helicopters operating in support of an incident or on standby for possible emergency operations.	AFAC Glossary uses HB as abbreviation.
				Planned		
Helipad	General	Point		Established	A designated area usually with a prepared or improved surface for landing, takeoff, and/or parking helicopters (a log or cut pad is considered such a place in emergency operations). This symbol also covers 'Helispot', A natural or improved takeoff and landing area intended for temporary or occasional use.	
				Planned		
Location - Ambulance	General	Point		Established	Undefined	
				Planned		
Location - Fire Appliance	General	Point		Established	The location of any motor vehicles that carry firefighters and equipment (TBC).	
				Planned		
Location - Police vehicle	General	Point		Established	Undefined	
				Planned		



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Location - SES vehicle	General	Point		Established	Undefined	
				Planned		
Medical	General	Point		Established	Undefined	
				Planned		
Mobile Weather Station		Point		Established	Often referred to as Portable Automatic Weather Stations (BoM).	
				Planned		
Refuge Area	General	Point			Areas where people may seek shelter from the danger of fire (modifiedEMA).	
Road Closure Traffic Control Point	General	Point		Active	Road check point or barricade to maintain compliance with movement control restrictions (AEM_Glossary).	
				Planned		
Sector Boundary	General	Line			Sector: A specific area of an incident which is under the control of a Sector Commander who is supervising a number of crews (AFAC).	



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Sector Command	General	Point		Established	Undefined	
				Planned		
Staging Area	General	Point		Established	A prearranged, strategically placed area where support response personnel, vehicles and other equipment can be held in readiness for use during an emergency (EMA).	
				Planned		
Flood Affected Property	SES	Point		Confirmed	Undefined	
				Unconfirmed		
Flood Affected Livestock	SES	Point		Confirmed	Undefined	TBC by Biosecurity review. Possibly move to General AIIMS as 'Affected Livestock'.
				Unconfirmed		
Flood Rescue Boat	SES	Point		Confirmed	Undefined	
				Unconfirmed		



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Storm Affected Property	SES	Point		Confirmed	Undefined	
				Unconfirmed		
Tree Down	SES	Point		Confirmed	Undefined	
				Unconfirmed		
Fire	Fire	Point		Emergency Warning	An unplanned vegetation fire. A generic term which includes grass fires, forest fires and scrub fires (AFAC).	
	Fire	Point		Watch and Act		
	Fire	Point		Advice		
Fire-Point of Origin	Fire	Point		Confirmed	The specific location where the fire started (AFAC).	
				Unconfirmed		









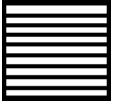



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Fire Hot Spot	Fire	Point			1. A particularly active part of a fire. An area of smouldering fuels requiring to be extinguished during patrol operations (AFAC).	Previously red 5 pointed star.
Spot Fire	Fire	Point		Confirmed	2. Isolated fire started ahead of the main fire by sparks, embers or other ignited material, sometimes to a distance of several kilometres.	Added circle around symbol.
				Unconfirmed	A very small fire that requires little time or effort to extinguish (AFAC).	
Fire Direction	Fire	Point			Undefined	Previously black arrow without text.
Burnt Area	Fire	Polygon		Current Burnt Area	Area comprehensively burnt by recent fire activity (EMSINA).	Changed to oblique pattern.
				Previous Burn	Area comprehensively burnt by previous fire activity (EMSINA).	Can be colour coded to differentiate year of burn.
Fire Edge	Fire	Line		Predicted	The predicted spread by the application of fire spread models utilising appropriate inputs of fuel conditions, topography and weather.	Previously dashed black line.
		Line		Active	Any part of the boundary of a going fire at a given time. NOTE: The entire boundary is termed the 'fire perimeter'.	Previously solid red line.
		Line		Contained	The status of a wildfire suppression action signifying that a control line has been completed around the fire, and any associated spot fires, which can reasonably be expected to stop the fire's spread (NWCG).	
Aerial Ignition	Fire	Line		Completed	Ignition of fuels by dropping incendiary devices or materials from aircraft. (AFAC)	Added circle around symbol and modified from point to line symbol.
		Line		Planned		



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Back Burn	Fire	Line		Planned	A fire started intentionally along the inner edge of a fire line during indirect attack operations to consume fuel in the path of a bushfire (AFAC).	Previously shown as solid line.
				Completed		
Fire Control Line	Fire	Line	X-X-X-X	Planned	A natural or constructed barrier, or treated fire edge, used in fire suppression and prescribed burning to limit the spread of fire (AFAC).	Previously thin black line.
			XXXXXX	Completed		Previously thick black line.
Machine Cut Track	Fire	Line		NA	Undefined	
Water Point	Fire	Point		NA	Natural or artificial water storage of value in fire operations. Generally indicated by a signpost.	
Water Point Helicopter	Fire	Point		NA	A designated water body or tank pre identified by an incident management team or air attack supervisor suitable to extract water for firefighting helicopters performing water bombing operations.	
Water point Vehicle	Fire	Point		NA	Undefined	
Hydrant	Fire	Point		NA	Water source connected to a water main with a valve to which a hose can be attached (TBC).	
Plant Machinery	Fire	Point		NA	Undefined	
Remote Access Fire Team	Fire	Point		NA	Undefined	
Portable Communications Installation	Fire	Point			Undefined	Modified description from "Portable Radio Repeater" and added circle around symbol.



Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
Aerial Containment Complete	Fire	Line			Completed containment line where fire suppressant agent was applied from	
Aerial Containment Planned	Fire	Line			Planned containment line where fire suppressant agent is applied from aircraft.	
Fire Exclusion Area	General	Polygon			To exclude bush fire from indicated area	
Chemical Exclusion Zone	Fire	Polygon			Reduce and prevent the area indicated by symbology from having chemicals such as fire suppressants applied in this area due to potential impacts to water	
Machine Exclusion Zone	General	Polygon			To exclude earth moving machinery disturbing the area.	
Aerial Ignition Planned	Fire	line		Planned	It allows personnel on the fire ground to have a clear understanding of where an aerial ignition pattern will start and potentially stop by the use of an arrow. It also includes a number and letter system which differentiates the lighting plan and enables everyone on the fire ground to follow which line is being implemented by the identifier. Users can also use the numbering system to determine which should be lit first.	Numbering of aerial ignition lines does not indicate an order of process.
Aerial Ignition Completed	Fire	Line		Completed	This allows personnel on the fire ground to have a clear understanding of what planned aerial ignitions have been completed.	
Temporary Levee	SES	Line			Levee: Temporary measures used to confine stream flow within a specified area along the stream or to prevent flooding due to waves or tides (NSW SES – EMA modified).	
Flooded Area	SES	Polygon		Confirmed	That area of the flood plain covered by flood waters during the defined flood event (EMA).	
				Predicted/Un confirmed		



Incident



Asset
















Operations



Observations

Observations

Symbol (feature)	Theme	Geometry	System Symbol	Status	Definition (Source)	Comments
General Observation	General	Point			Features which are effected or impacted by the incident	
National Damage Assessment	Observation	Point		Confirmed	Damage to be assessed/Unable to assess	 B/W version
				Confirmed	Total damage /destroyed	 B/W version
				Confirmed	Severe damage – damage which precludes further use of the structure, facility, or object for its intended purpose without extensive repairs.	 B/W version
				Confirmed	Moderate damage – the degree of damage to principal members, which precludes effective use of the structure or facility for its intended purpose, unless major repairs are made short of complete reconstruction, that is damaged to such an extent as to be partly unusable but can perform some part of its original function and will be fully usable with repairs.	 B/W version
				Confirmed	Slight damage – damage such as broken windows, slight damage to roofing and siding, interior partitions blown down, and cracked walls; the damage is not severe enough to preclude use for the purpose for which was intended but easily repairable	 B/W version
				Confirmed	No Damage/unaffected	 B/W version