

**Name:** EXTENT\_{N}Y\_ARI  
**Title:** Statistical flood extent for 1 in {N} years  
**Spatial Extent:** General - Victoria  
**Owner:** Department of Sustainability and Environment  
**Custodian:** Department of Sustainability and Environment  
**Access:** Restricted  
**Source Data Scale:** 25 000 with data inside Township boundaries at 5 000  
**Master Library Group:** NA  
**Jurisdiction:** Victoria  
**Custodial Business Unit:** Flood Plain Management Unit  
**Custodial Program:** Water Resources Policy (WSG, DSE)  
**In CGDL?:** No  
**In Library?:** No

**Abstract** This family of layers contains polygon features delineating modelled statistical flood extents. The layer name is suffixed with a digit representing percentage. e.g. 1 is 1% or 1 in 100 year, 5 is 5% or 1 in 20 year. Where the percentage is preceded by a decimal point, such as 0.5% (1 in 200 year) the layer name would include the letter 'p' before the digit. Eg. FLXT\_STATP5.

EXTENT\_100Y\_ARI is also known as 1 in 100 year flood extent and is used to create Land Subject to Inundation (LSI) data as used in Planning schemes. The 100 year database is not restricted.

The layer called PMF\_EXTENT represents areas of 'probable maximum flood' and is part of this group. The data is statistically derived using hydrological models, historic flood extents and heights.

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## Application of Layer:

**General:**

## Layer Design Summary:

### Current Layer Design Considerations:

1. The Flood Height Points coverage is designed to accommodate all available flood height point data, including observed flood heights. All historical data is included with observed, interpreted and modelled flood height data for each event within the one layer. A reliability and interpretation methodology can apply to each point.
2. While line-based flood height data is arranged in one coverage per event, eg. FLHITE\_XY, all points data is amalgamated into a single coverage with data fields to separate the recorded events.

date fields to separate the recorded events.

3. The design assumes most attributes will be stored in the GIS layer, not an external database. The exception is flood area notes about reliability of the data that will be kept in an external database given the current limit of 320 characters for text strings.

4. All data is related to different year / month flood events with a Victoria wide naming convention identifier (e.g. 1934\_01 is the January event of 1934).

1. Links to a flood extent in the FLEXT25\_XYZ layer.

### Future Layer Design Considerations:

Consideration for inclusion of large notes in the GIS may be given in future releases of ArcInfo

### Summary of Relationship to other Layers:

### Data Currency Information:

**Data Set Status:** Commenced

#### Data Collection:

Collection Period: 01DEC1997 Current

Collection Progress: In Progress

Update Frequency: As required

### Data Currency Information:

#### Data Set Origin:

Originality: Primary

Data Collection Method: Declared areas have legally denoted boundaries

#### Data Set Source:

Flood data dates back to mid 1800s and historically has been predominantly located in DNRE Floodplain Management. Some data is located in Water Authorities.

#### Data Set Processing Details:

Not Documented

#### Positional Accuracy:

Positional Accuracy: 100%

Precision: 10m to 100m

Determination: Deductive estimates and calibration of registration points against the cadastral layer

**Attribute Accuracy:**

Reliability information is coded in the flood height lines and points, but heights are typically better than 0.1m accuracy.

**Logical Consistency:**

n/a

**Completeness:**

**Coverage:**

Floodplain Management Unit mapping conventions on definitions of floodway data will be followed

**Classification:**

Not Documented

**Verification:**

Not Documented

**Access:**

**Constraints:**

**Access:**

Access Subject to Custodial Approval

**Use:**

Access Subject to Custodial Approval

**Stored Data Format:**

DIGITAL Arc/Info Revision 7 Librarian layer

ArcSDE - mapdbdev - for NRE-map

Master version stored as DIGITAL Arc/Info coverage on Gippsland GIS server GIGIS

**Available Format Type:**

DIGITAL - All major formats available

**Special Intellectual Property Details:**

Access Subject to Custodial Approval

## Quality:

### Compliance:

Requirements:

### Validations:

## Search:

### Search Word:

HAZARDS Flood

WATER Hydrology

WATER Rivers

WATER Surface

### Qualifier:

none

none

none

none

## Further Information:

### Authors Collators:

Nick Nikolaou, DNRE FPMU; Geoff Pettifer & Paul Currie, Geo-Eng Australia;

### Supporting Documentation:

Refer to mapping reports for each major data capture effort to be kept at DNRE Floodplain Management Unit.

## History:

### Stages:

Proposed:

Registered:

Provisionally Approved:

Approved:

Implemented:

Withdrawal To Occur:

Withdrawn:

**Last Review:**

Commenced:

Proposed:

Approved

Implemented:

**Last Updated:**

Date: 4/05/2009

User: hv03

**History:**

Not Documented

**Related Datasets:****Citations:****Events:****Additional Metadata URL:****Related Documents:****Contacts:****Contact Name:**

Hans Van Elmpt

Viktor Brenners

**Telephone:**

(03) 51722172

03 9637 9014

**Contact Role:**

Dataset Data Manager

Dataset Owner

**Libraries:**

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# Full Description Report - EXTENT\_{N}Y\_ARI

ANZLIC: ANZVI0803003629

EXTENT_{N}Y_ARI POLYGON TABLE (FLHEIGHT25_XY.PAT)													
Item Full Name	Class	Coln	Item Name	IW	OW	Type	Dec	Alternate Name	Oblgn	Orig.	Lookup Table	Scope	Notes
AREA	0	1	AREA	50	50	F							AREA IN SQUARE METERS
PERIMETER	0	51	PERIMETER	50	50	F							PERIMETER IN METERS
STATION ID	0	101	STATION_ID	8	8	I							STATION ID SOURCED FROM GAUGING STATION MANAGERS
METHOD	0	109	METHOD	50	50	C							MAPPING METHOD USED
PLAN NUMBER	0	159	PLAN_NO	10	10	C							ORIGINAL DOCUMENT PLAN NUMBER IF KNOWN
SCALE	0	169	SCALE	8	8	I							SCALE OF ORIGINAL DOCUMENTS IF KNOWN
SOURCE	0	177	SOURCE	30	30	C							ORGANISATION INFORMATION WAS SOURCED. USUALLY SHIRE OR CMA. NOT A CONSULTANT
REPORT	0	207	REPORT	99	99	C							DESCRIPTION OF STUDY REPORT (126 CHARACTERS)
NOTE CODE	0	306	NOTE_CODE	6	6	I							SEE NOTE CODE LOOKUP TABLE
MODIFICATION DATE	0	312	MODIFIED	8	8	I							DATE OF REVISION IN YYYYMMDD
VERSION NUMBER	0	320	VERSION	3	3	I							1 FOR NEW FEATURES. HIGHER IF EDITED

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**Abstract** EXTENT\_100Y\_ARI is also known as 1 in 100 year flood extent and is used to create Land Subject to Inundation (LSI) data as used in Planning schemes. The 100 year database is not restricted.  
This is a polygon feature delineating modelled statistical flood extents.

This is also related to the family of layers contains the layer name is suffixed with a digit representing percentage. e.g. 1 is 1% or 1 in 100 year, 5 is 5% or 1 in 20 year. Where the percentage is preceded by a decimal point, such as 0.5% (1 in 200 year) the layer name would include the letter 'p' before the digit. Eg. FLXT\_STATP5.

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**Completeness:****Coverage:**

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Withdrawn:

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Proposed:

Approved

Implemented:

**Last Updated:**

Date: 4/05/2009

User: hv03

**History:**

Not Documented

**Related Datasets:**

**Citations:**

**Events:**

**Additional Metadata URL:**

**Related Documents:**

## Contacts:

**Contact Name:**

Hans Van Elmpt

Viktor Brenners

**Telephone:**

(03) 51722172

03 9637 9014

**Contact Role:**

Dataset Data Manager

Dataset Owner

## Libraries:

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# Full Description Report - EXTENT\_100Y\_ARI

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