





# SUMMARY REPORT Part I SoE 2018 Report Card

## Legend




### Status

<p><b>N/A Not Applicable</b></p> <p>The indicator assessment is based on future projections or the change in environmental condition and providing a status assessment is not applicable. Only a trend assessment is provided.</p>	<p> <b>Unknown</b></p> <p>Data is insufficient to make an assessment of status and trends.</p>	<p> <b>Poor</b></p> <p>Environmental condition is under significant stress, OR pressure is likely to have significant impact on environmental condition/human health, OR inadequate protection of natural ecosystems and biodiversity is evident.</p>	<p> <b>Fair</b></p> <p>Environmental condition is neither positive or negative and may be variable across Victoria, OR pressure is likely to have limited impact on environmental condition/human health, OR moderate protection of natural ecosystems and biodiversity is evident.</p>	<p> <b>Good</b></p> <p>Environmental condition is healthy across Victoria, OR pressure is likely to have negligible impact on environmental condition/human health, OR comprehensive protection of natural ecosystems and biodiversity is evident.</p>
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### Trend

<p><b>N/A Not applicable</b></p> <p>This indicator assessment is based on current environmental condition only and it is not applicable to provide a trend assessment. Only a status assessment is provided.</p>	<p> <b>Unclear</b></p>	<p> <b>Deteriorating</b></p>	<p> <b>Stable</b></p>	<p> <b>Improving</b></p>
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### Data quality

		
<p><b>Poor</b></p> <p>Evidence and consensus too low to make an assessment</p>	<p><b>Fair</b></p> <p>Limited evidence or limited consensus</p>	<p><b>Good</b></p> <p>Adequate high-quality evidence and high level of consensus</p>

## WATER RESOURCES

Summary	Status	Trend
	UNKNOWN POOR FAIR GOOD	
<p><b>Indicator</b></p> <p><b>WR:01</b> Water resources and storage trends</p> <p><b>Region</b></p> <p>Victoria</p> <p><b>Measures</b></p> <p>Water storage levels in Victoria as a percentage of capacity</p> <p><b>Data custodian</b></p> <p>DELWP</p>	<p></p> <p></p> <p>DATA QUALITY</p> <p>Good</p>	<p></p>
<p>Water storages are at approximately 65% capacity (as at February 2018). There has only been a small decline in water storage levels as a percentage of capacity during the past five years.</p>		

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# SUMMARY REPORT Part I SoE 2018 Report Card

## Indicator

**WR:02** Projected runoff to dams and catchments

## Region

Victoria

## Measures

Projected changes in runoff for 2065 under an intermediate climate change scenario

## Data custodian

BoM, CSIRO

Annual runoff is projected to decrease by 5-15% across most of Victoria by 2040 and 10-30% by 2065 (relative to a baseline period from 1975-2014), with the largest reductions expected to occur in the south west.



DATA QUALITY

Good

## Indicator

**WR:03** Condition of flow regimes

## Region

Victoria

## Measures

Streamflow as a percentage of the long-term annual average streamflow

## Data custodian

DELWP

Streamflow as a percentage of the long-term annual average streamflow was below 100% in all regions as at 2015-16, with declines observed in all regions from 2011-12.



DATA QUALITY

Good

## Indicator

**WR:04** Delivering water for the environment

## Region

Victoria

## Measures

(i) Managed environmental water delivery  
(ii) Total volume delivered as a percentage of environmental entitlements

## Data custodian

VEWH

For each year from 2011-12 to 2017-18, 55-70% of the environmental entitlement was delivered. Nearly twice as much water was delivered in 2017-18 compared with 2011-12.



DATA QUALITY

Good

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# SUMMARY REPORT Part I SoE 2018 Report Card

**Indicator**

**WR:05** Number of dams, weirs and levees

**Region**

Victoria

**Measures**

Storage capacity from dams

**Data custodian**

DELWP

Victoria has about 450,000 dams. Together, Victoria’s dams have an estimated total storage capacity of about 13,400,000 ML. It is unclear exactly how this capacity has changed over time.



DATA QUALITY

Fair (no trend or spatial data available)

**Indicator**

**WR:06** Surface water harvested for consumptive use

**Region**

Victoria

**Measures**

Total surface water diversions

**Data custodian**

DELWP

The volume of surface water taken under entitlements has been reasonably consistent since 2011-12.



DATA QUALITY

Good

**Indicator**

**WR:07** Percentage of waterways and groundwater areas, subject to extraction, with a limit on extraction

**Region**

Victoria

**Measures**

Volume of water (ML) taken for different consumptive uses under surface water and groundwater entitlements

**Data custodian**

DELWP

Irrigation continues to be the largest consumptive use of surface water in the state, comprising 78% of all water taken from 2011-12 to 2015-16. Irrigation, commercial and salinity control was the largest consumptive use of groundwater in the state, comprising 76% of all water taken between 2012-13 and 2015-16.



DATA QUALITY

Good

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# SUMMARY REPORT Part I SoE 2018 Report Card

**Indicator**

**WR:08** Water recycling

**Region**

Victoria

**Measures**

Volume and percentage of wastewater recycled

**Data custodian**

DELWP

The volume of wastewater recycled increased from 87,000 ML to 96,000 ML from 2011-12 to 2015-16, representing just under 20% of the total wastewater produced in the state.



DATA QUALITY

Good

**Indicator**

**WR:09** Percentage of agricultural land with improved irrigation

**Region**

Victoria

**Measures**

Area of agricultural land with suitable irrigation infrastructure

**Data custodian**

CMAAs

Approximately 27,000 hectares of agricultural land has been upgraded with improved irrigation during the four financial years from 2013-14 to 2016-17, which represents less than 3% of Victoria's total area of irrigated agriculture.



DATA QUALITY

Poor (need data on the total area of irrigated land and the area of irrigated land that needs improved irrigation)

**Indicator**

**WR:10** Groundwater ecosystems

**Region**

Victoria

**Measures**

Number of flora and fauna species identified as being affected by a decline in groundwater quality

**Data custodian**

None

No data is available to determine the number of flora and fauna species affected by changes in groundwater quality.



DATA QUALITY

Poor (no data available to provide a status or trend assessment)

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# SUMMARY REPORT Part I SoE 2018 Report Card

**Indicator**

**WR:11** Groundwater quality

**Region**

Victoria

**Measures**

Baseline watertable salinity

**Data custodian**

DELWP

Across Victoria, groundwater salinity generally reduces from west to east, with a peak in the north-west of the state and minimums in the alpine region and far east of the state.



Good in eastern Victoria, Poor in north western Victoria and Fair elsewhere



**DATA QUALITY**

Fair (no trends can be determined from private bores)

**Indicator**

**WR:12** Groundwater levels

**Region**

Victoria

**Measures**

Groundwater levels in middle, lower and shallow aquifers

**Data custodian**

DELWP

Groundwater levels in shallow aquifers have mostly remained stable in the reporting period, except for a small number of areas including the Loddon Highlands. Declines in lower aquifers have occurred in Gippsland (related to mining activities) and northern Victoria (due to periods of low rainfall and groundwater extractions).



Stable for most shallow aquifers and Deteriorating for lower aquifers in the Gippsland basin and northern region, and confined aquifers around Western Port and the Otway Ranges.



**DATA QUALITY**

Fair (data not available across the state)

**Indicator**

**WR:13** Groundwater harvested for consumptive use

**Region**

Victoria

**Measures**

Groundwater use as a percentage of total entitlement

**Data custodian**

DELWP

Average licensed groundwater use is 30% of the total entitlement in groundwater management units. During prolonged dry periods such as the millennium drought, average groundwater use increases to approximately 50% of entitlement.



**DATA QUALITY**

Good

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