

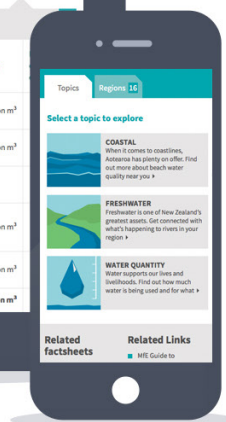
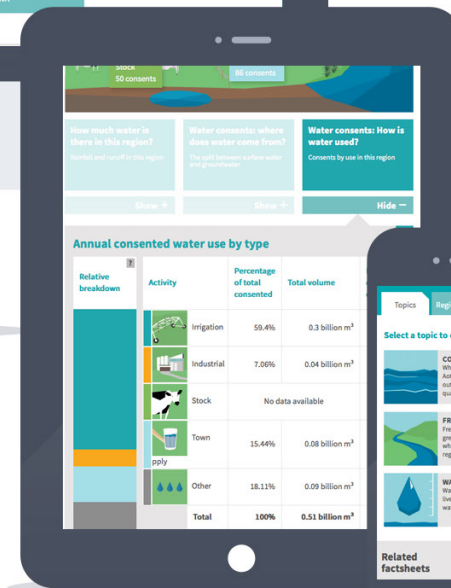
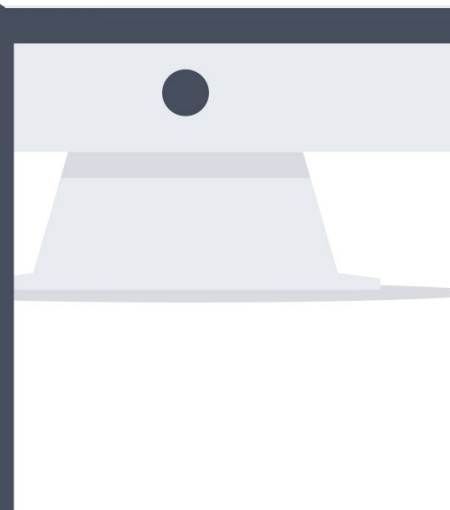
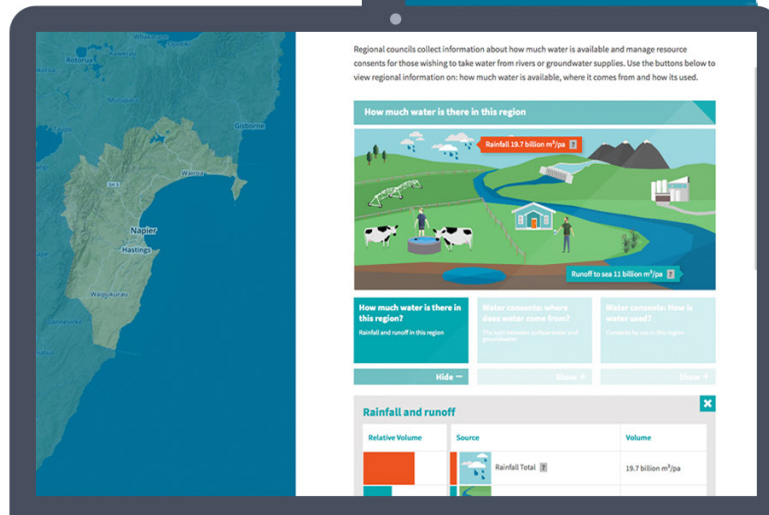
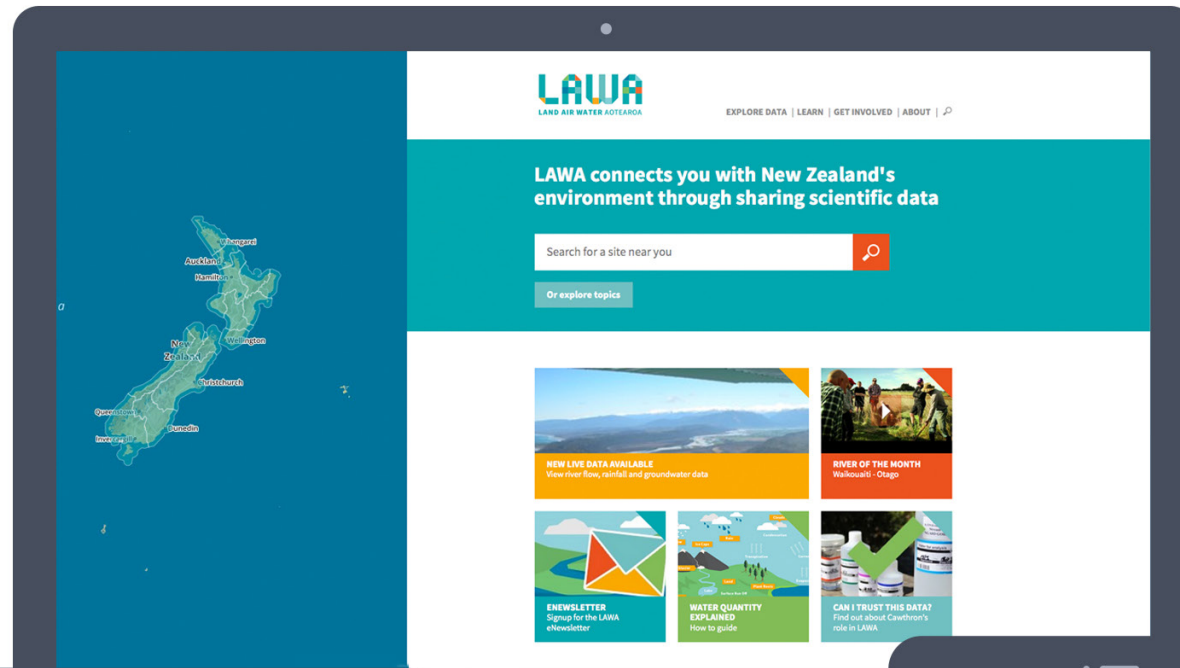
## LAWA: Land Air Water Aotearoa



Bailey, J., & Brown, A. (2014). *LAWA: Land Air Water Aotearoa* [Website (including data visualisation) and brand system (including logo, video and associated assets)]. New Zealand. Retrieved from <http://www.lawa.org.nz/>.

Freshwater data on the LAWA website showing top level data visualisation and narrative explanation, with explanatory glossary popup allowing access to explanation of scientific terms.

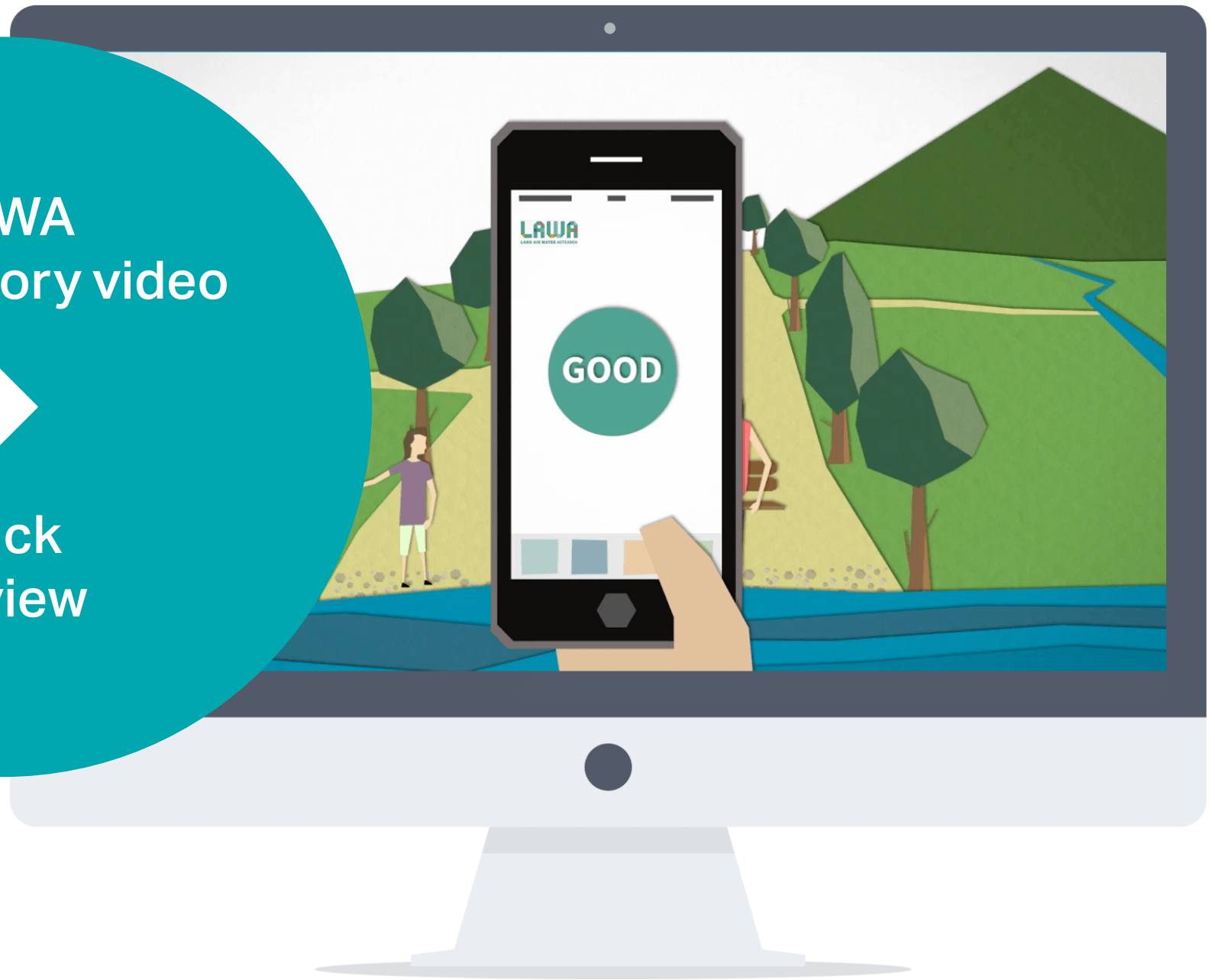
- 3 LAWA website on different devices**
- 4 LAWA introductory video**
- 5 Stills from LAWA introductory video**
- 6 LAWA identity**
- 7 LAWA brand elements**
- 8 River flow example page**
- 9 Water quantity example page**
- 10 Air quality example page detail**
- 11 Initial wireframes**
- 12 Example wireframes from lake water quality module**



# LAWA Introductory video



Click  
to view

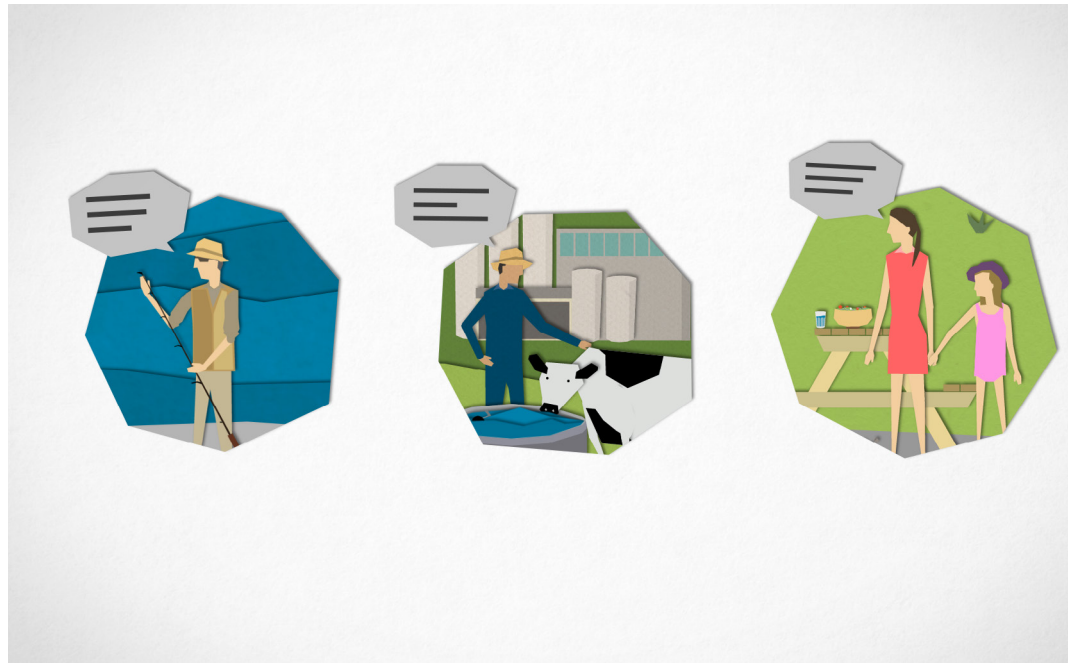
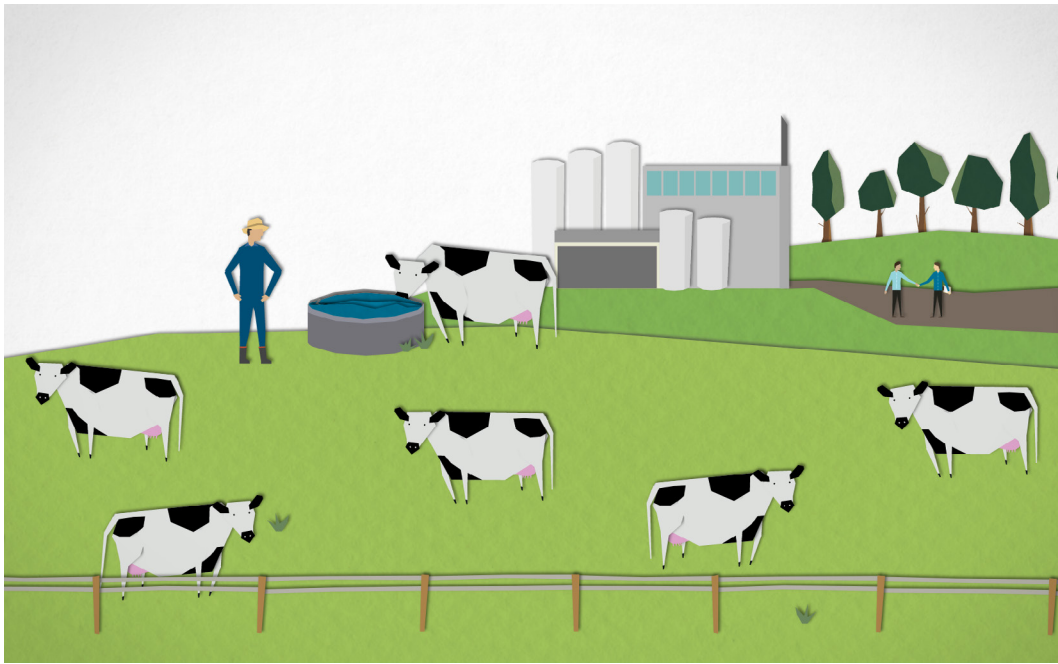


NRO1

**Jo Bailey**  
LAWA: Land Air Water Aotearoa

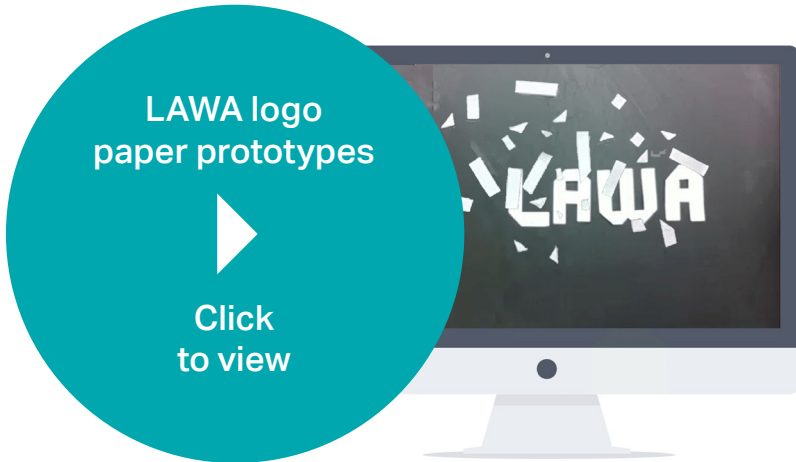
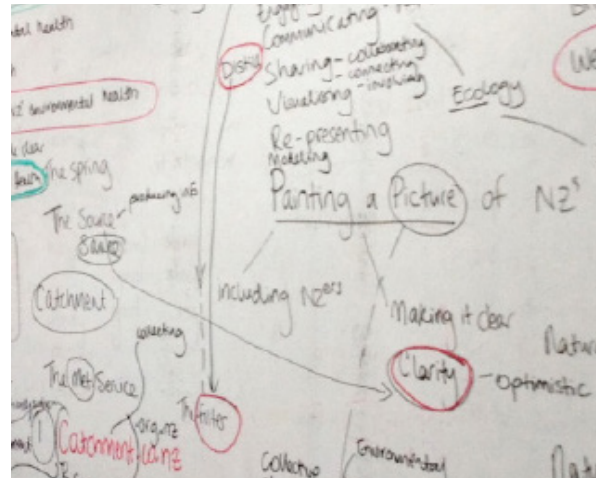
Introductory animated video, 2014. The video extends the brand system and introduces LAWA in a simple manner.  
Script and Creative Direction, Bailey, J. Illustration, Bailey, J, Hull, N, Chida, L.  
Animation, Hull, N, Chida, L. Available at: <https://youtu.be/X6wkXz6cJnl>





NRO1 **Jo Bailey**  
LAWA: Land Air Water Aotearoa

Stills from introductory animated video, 2014. Script and Creative Direction, Bailey, J. Illustration, Bailey, J, Hull, N, Chida, L. Animation, Hull, N, Chida, L. Available at: <https://youtu.be/X6wkXz6cJnl>



NRO1 **Jo Bailey**  
LAWA: Land Air Water Aotearoa

Top: development of the LAWA name, identity and core purpose. Left: Stop motion video of paper prototyping process, developing the metaphor of unpacking data, and information coming together to produce meaning (available at [https://youtu.be/grX\\_vifQT3A](https://youtu.be/grX_vifQT3A)). Right: completed LAWA logo.

## Icon font



- Event
- Story
- What is this?
- Search



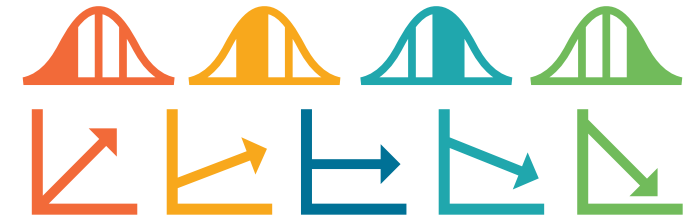
- Factsheet
- Download data
- Hazard
- National picture
- No public access
- Suitable for picnicking
- Suitable for swimming
- Suitable for walking
- Suitable for fishing
- Suitable for kayaking/boating
- Suitable for dog walking



- Close
- Cawthron tick
- Open dropdown
- Up a level
- Next
- Facebook
- Twitter
- External link
- Expand content
- Close content



## State and trend



### Top row L to R

- Data in quartile 4 (worst 25%)
- Data in quartile 3 (worst 50%)
- Data in quartile 2 (best 50%)
- Data in quartile 1 (best 25%)

### Bottom row L to R

- Significant and meaningful degradation
- Significant degradation
- No trend
- Significant improvement
- Significant and meaningful improvement

## Suitability for recreation



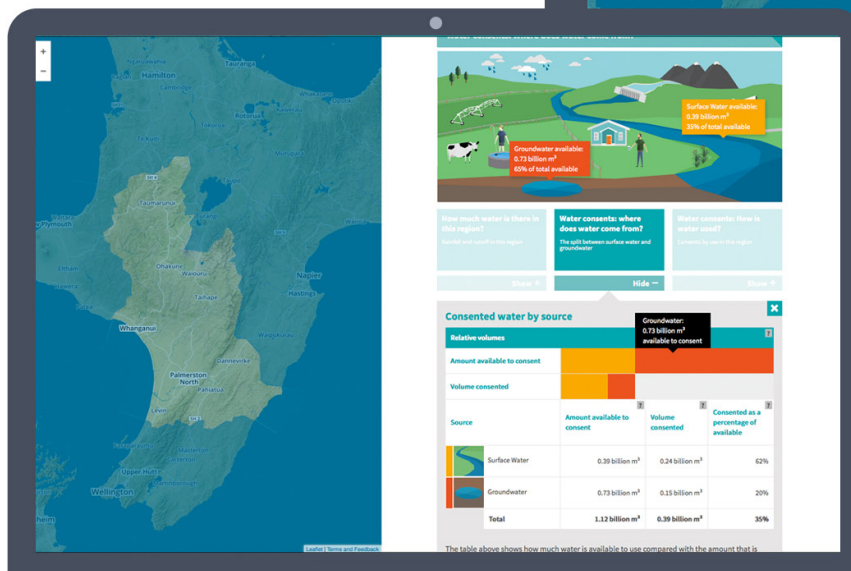
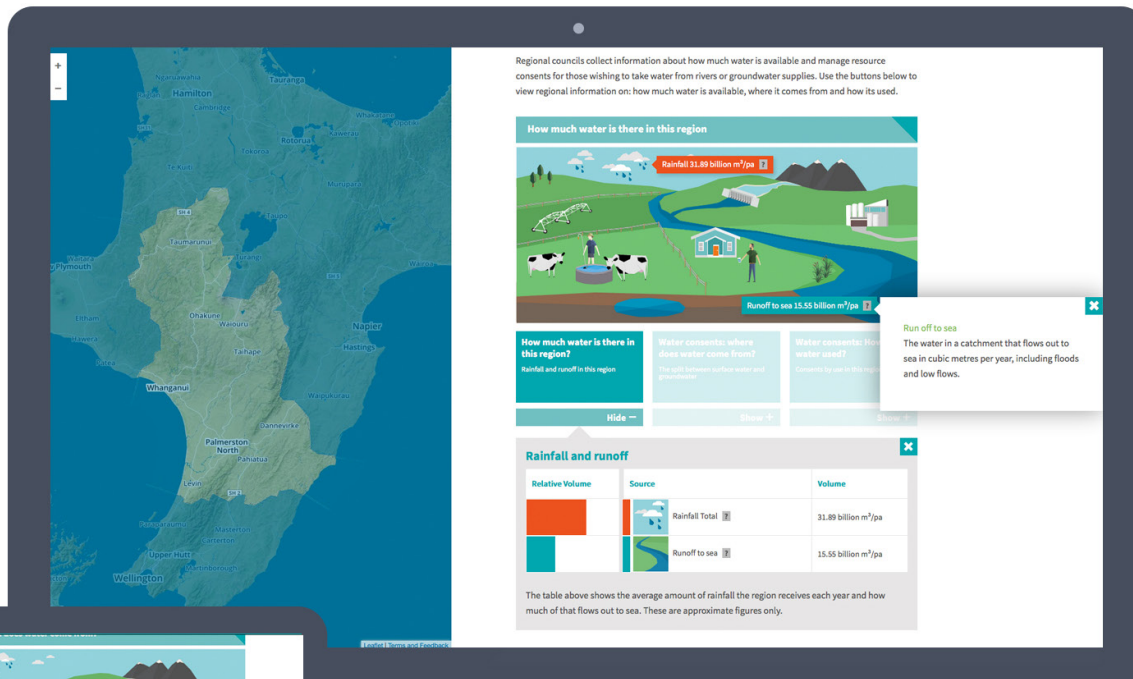


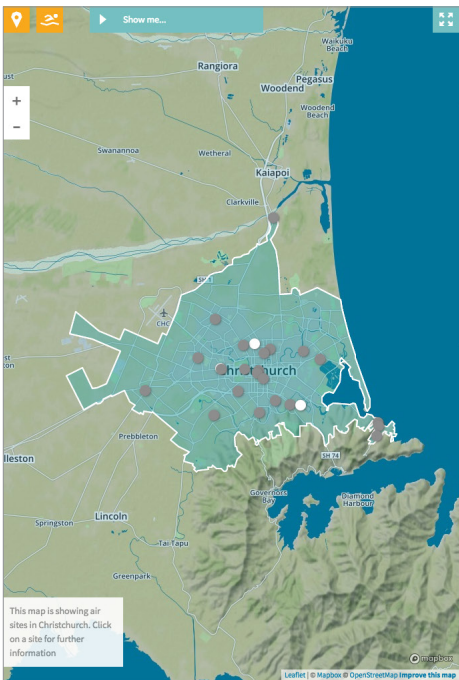


NRO1 **Jo Bailey**  
LAWA: Land Air Water Aotearoa

River flow data shown on a laptop and rainfall data shown on a desktop. Similar visual language and a shared colour coding system exist across all modules.







## Christchurch

Christchurch is the largest urban area in Canterbury. While Christchurch has a number of commercial and industrial areas within it, the land area is predominantly residential. There are 25 sites where air monitoring has been carried out since 1988, of which three are currently active (white dots on map). The seasonal variation below comes from data collected at the St Albans monitoring site.

Read more +

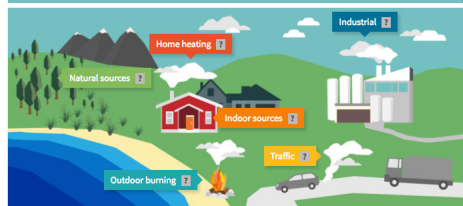
Town Summary Sites 25

### Air quality in this town

In Christchurch, most of the PM<sub>10</sub> is from the burning of wood for home heating. Other outdoor sources of PM<sub>10</sub> are motor vehicles, industrial and commercial processes, and natural sources. PM<sub>10</sub> concentrations are typically highest during winter evenings, when temperatures are coldest and there is little wind.

Population	Number of households	This information is collated from 2013 Census information. The census is the official count of how many people and dwellings there are in New Zealand. Census information is collated every five years.
326,532	126,825	

### Sources of air pollution



### In this town, where do emissions come from?

The split between home heating, industrial, outdoor burning and traffic sources

### Sources of PM<sub>10</sub> emissions

Source	Annual percentage	Winter day percentage	Relative breakdown	
			Annual	Winter day
Home heating	56%	76%	[Bar chart showing 56% annual, 76% winter day]	
Industrial	31%	17%	[Bar chart showing 31% annual, 17% winter day]	
Outdoor burning	0%	0%	[Bar chart showing 0% annual, 0% winter day]	
Traffic	15%	8%	[Bar chart showing 15% annual, 8% winter day]	

The table shows the proportions of the main sources of PM<sub>10</sub> in this town from home heating, industrial activities, outdoor burning and traffic. (Indoor sources and natural sources of air pollutants are not included in this breakdown).

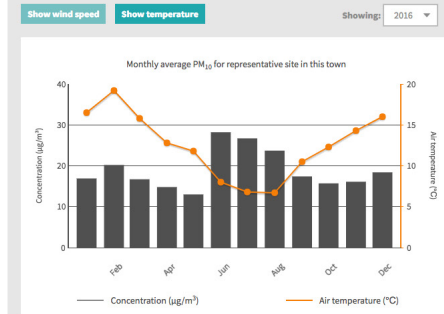
These values come from 2013 data sourced from MfE's data service. Consistent methodology was used to calculate these estimates of PM<sub>10</sub> emissions, which allows comparison between towns throughout New Zealand. Some regional council published emissions information might differ if they were prepared in a different year or used another method. Contact your regional council for more information about PM<sub>10</sub> and other emissions.



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### Seasonal variation



### What is this graph showing me?

The graph shows the monthly average PM<sub>10</sub> concentration at one representative site in this town for the year selected. In many towns in New Zealand, PM<sub>10</sub> peaks in the winter when air temperatures and wind speeds are lowest as more people heat their homes during colder weather, and still conditions mean that there is no wind to disperse the air pollutants.

### Latest news and stories

Quick read: Canterbury's nutrient management plan change  
Published 13 Jul 2017

Summary of our Summer: Canterbury  
Published 9 May 2017

Selwyn Waihora farmers reminded of water quality responsibilities  
Published 7 Feb 2017

Submit a story

### Upcoming events

Report an observation

Share LAWA

### CONTACT

Website or general enquiries:  
info@lawa.org.nz  
For enquiries about monitoring or sites, please contact the relevant council directly. For council details see About LAWA.

### EXPLORE DATA

Air Quality  
Can I Swim Here?  
Coastal Water Quality  
Lakes  
Land Cover  
Rivers  
Water Quantity

### GET INVOLVED

River of the Month  
News and Stories  
Events

### ABOUT

About the LAWA Project

### LEARN

Facilities  
Glossary of Terms  
National Environmental Monitoring Standards

