

2016 Tokelau Census of Population and Dwellings

*Data and policy workshops
Atafu (6 May), Nukunonu (7 May),
Fakaofu (8 May), and Apia (11 May 2017)*



Module one: Introduction





Workshop team members

- Tokelau National Statistics Office
 - ⊙ Jaap Jasperse
 - ⊙ Mafa Mativa
- Statistics New Zealand
 - ⊙ Michael Berry
 - ⊙ Teresa Evans-Turner

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Tokelau National Statistics Office staff:
National Statistician Kele Lui (centre),
Statistics Adviser Jaap ("iapi") Jasperse,
Statistics Officer Mafa Mativa (L)



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Statistics New Zealand staff: Avril Macfarlane (L),
Sophie Davies (Centre), Teresa Evans-Turner
and Mike Berry (x2: in Apia just before Census,
and in Atafu during May 2017 workshops)



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Tokelau and Statistics New Zealand

- ⦿ Statistics New Zealand was approached to provide guidance and support for the 2006, 2011 and 2016 Tokelau censuses by
 - Tokelau Government
 - Ministry of Foreign Affairs and Trade (MFAT)
- ⦿ Statistics NZ worked closely with Tokelau on the planning, management, operations, output, and publishing
- ⦿ Staff secondment 2011-2014 and 2014-2016 plus ongoing support

Purpose

- ⦿ To give back to those who gave us information
- ⦿ To encourage general statistical literacy
- ⦿ To work with policy makers, and dig deeper into the Tokelau census results
- ⦿ To maximise the governments investment into census

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What we will cover

- ⦿ Module 1 – an introduction to statistics
 - How we collect information
 - How we publish information
 - Basic statistics
- ⦿ Module 2 – an overview of the census
 - How it worked
 - Who was covered
 - What happens to the results

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What we will cover

- ⊙ Module 3 – census data overview
 - Much about Tokelau
 - Graphs and tables
 - Where to find the information
- ⊙ Module 4 – using data in policy
 - Workshop style
 - Quality of life in Tokelau and New Zealand

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What we will cover

- ⊙ Module 5 – Tokelau National Statistics Office
 - Who are we and what do we plan to do over the next year
 - How to contact us

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2016 Tokelau Census

Module one: An introduction to Statistics



What we will cover

- ⊙ What are statistics
- ⊙ Why use statistics
- ⊙ How we collect statistics
- ⊙ How we publish statistics

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What are statistics?

- ⊙ Statistics is the science of data
 - the science that deals with the collection, classification, analysis, and interpretation of numerical facts or data.
- ⊙ We deal in 'official statistics'
 - Information collected, and published by the government of Tokelau
 - Ongoing, not one off.

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Why use statistics?

- ⊙ Statistics
 - provide information to help make evidence based decisions
 - measure things at a point in time, and show change over time
 - help us to track or monitor progress
 - they provide official accountability to donors, financiers, and the public
 - are the cornerstone of good government

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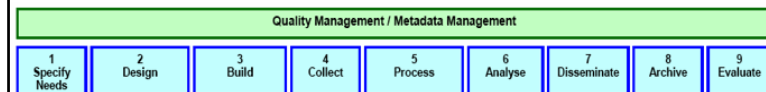
How do we collect statistics?



- ⊙ Three main ways
 - Census
 - Complete coverage of your population
 - Costly, slow, and can't handle complex information
 - Survey
 - Covers a representative sample of your population
 - Usually cheaper than census, but difficult to do in Tokelau
 - Administrative Data
 - Data collected during normal business activities eg financial records, amount of fuel imported
 - If set up well and maintained properly, delivers good-quality data at low cost

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The statistical process








The balancing act of official statistics



Constraints:	Desires:
Continuity over time	Relevance to today
Burden on respondents	Information needs
Objectivity	Responsiveness
Administrative needs	Statistical need
Accuracy	Timeliness
Confidentiality	Access to data

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Garbage in, garbage out

- ⊙ An English judge on the subject of Indian statistics:
 - The government are very keen on amassing statistics. They collect them, add them, raise them to the n-th power, take the cube root and prepare wonderful diagrams.

But you must never forget that every one of these figures comes in the first instance from the village watchman, who just puts down what he damn pleases.

– Quoted in Sir Josiah Stamp in *Some Economic Matters in Modern Life*



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How we publish statistics

- ⊙ Words
- ⊙ Tables
- ⊙ Graphs
- ⊙ Summary statistics

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How we publish statistics: Words

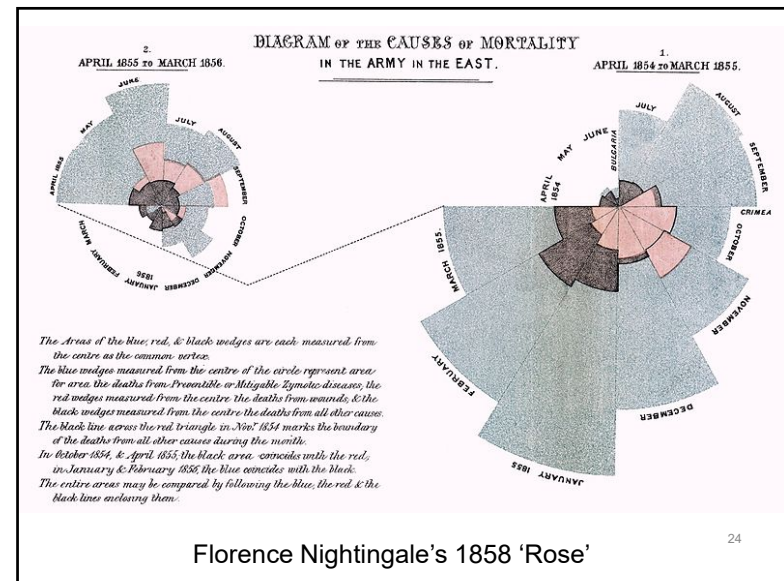
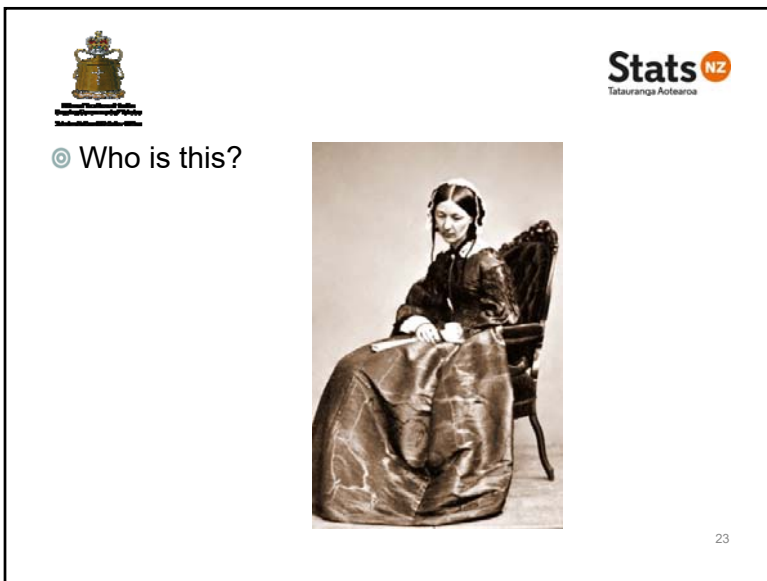
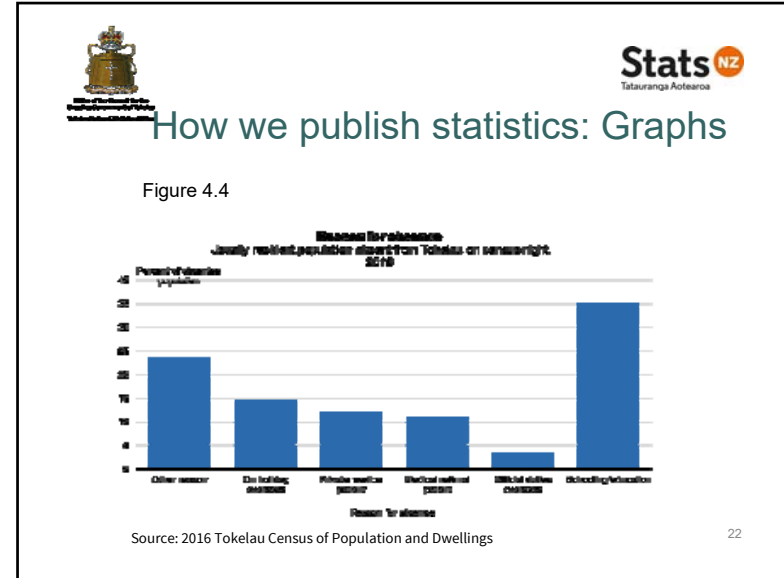
- On 18 October 2016, there were 1,285 people in Tokelau. This figure includes all people present in Tokelau on census night, including overseas visitors. People absent from Tokelau on census night were not included in this total.

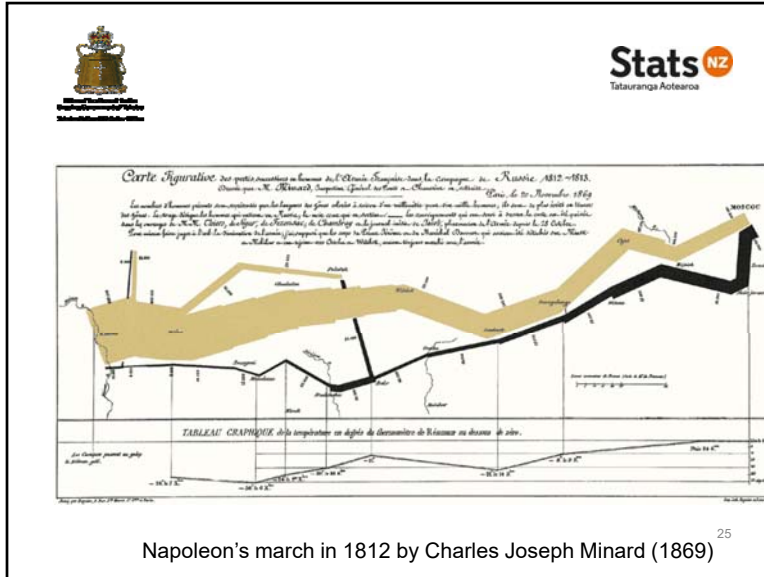
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Stats NZ
Tatouranga Aotearoa

How we publish statistics: Tables

Atoll of usual residence	De jure usually resident population		Increase or decrease (-) 2011-2016	
	2011	2016	Number	Percent
Atafu	482	519	37	7.7
Fakaofu	490	484	-6	-1.2
Nukunonu	397	448	51	12.8
Samoa	42	48	6	14.3
Total	1,411	1,499	88	6.2





How we publish statistics (cont.)

- ◎ Summary statistics
 - Minimum
 - Maximum
 - Range = Max-Min
 - Median = 'middle' value that divides the data into two halves
 - Mode = most common value in the data
 - Mean = average or balancing point of the data

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◎ Descriptive statistics

- Percentages (%) = a proportion of a total
- Percentage change = measure a change over time, eg population growth
- Response rates = how many people answered a particular question

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