First analysis of Apia-Tokelau cargo shipping manifests, January 2014-July 2019, using "PCTrade-Green" in Excel

A contribution to International merchandise trade statistics (IMTS)

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Abstract

This report presents the first results from a thorough analysis of cargo shipping manifests supplied by the Tokelau Department of Transport and Support Services (TSS), over the period January 2014 to June 2019. The analysis was done in the package “PC-Trade Green” developed by Statistics New Zealand as a Microsoft Excel application, to mimic their PCTrade package originally developed in SQL.

Cargo items listed on the manifests (volumes in cubic metres and weights in kilogrammes) were coded to the New Zealand Harmonised System (HS2017) and can be retrieved accordingly by Month/Halfyear/Year, vessel, and HS codes in any combination. Standard Excel procedures have been used to pivot-table the data for this report and to graph them in a visually enticing way.

Tokelau imports could be fully analysed this way; but of the exports only the recyclables. Ideally the import and export statistics are expressed in monetary terms, but insufficient data is yet available to produce such results. Proposals for expanding the research in future are appended.

What is IMTS?

International merchandise trade statistics (IMTS) are economic statistics about the flow of trade between countries, specifically imports and exports from Tokelau.
The major uses for IMTS are:

- informing economic policy
- informing trade policy, negotiations, and monitoring
- infrastructure planning
- input into other economic measures such as balance of payments, and national accounts.

Imports and Exports data are usually expressed in monetary terms (US dollars) for international comparision. The Pacific Community (SPC) collects and distirbutes data from its member Pacific Island Countries and Territories (PICTs).

History of Tokelau IMTS

Like many projects within the Tokelau National Statistics Office (TNSO), the groundwork was done by Charlie Russell. He was the first secondee from Statistics New Zealand (StatsNZ) in Wellington, for 2 years following on from the Tokelau Census 2011 in which he was involved. His (undated) 12-page document "Proposal to establish International Merchandise Trade Statistics for Tokelau" (Appendix 1) outlines the legal framework, options and limitations.

The package "PCTrade", developed by StatsNZ in Christchurch, had a presentation during an IMTS workshop at SPC in Noumea in 2012. The then Director of the Tokelau Department of Transport and Support Services (TSS), Asofa Fereti, participated and supported such developments. The interest of the National Statistician, Kele Lui, was raised during his attachment to StatsNZ, Christchurch, in December 2012.

A meeting took place in Christchurch in December 2015 with Stuart Jones and Samisoni Makaafi of StatsNZ, Asofa Fereti (TSS), Kele Lui (TNSO), and the second StatsNZ secondee/ author of this report, Dr Jaap ("iapi") Jasperse (Meeting minutes: Appendix 2). It was felt there was some scope for applying PCTrade in Tokelau and preparing cargo shipping manifests within the system, but a range of possibly prohibitive limitations in terms of application, software and development were recognised.

No Tokelau application was developed, while the PCTrade team was busy supporting National Statistics Offices (NSOs) and Customs Offices where the package had been installed already, such as in Samoa, Nauru and Kiribati. Their funding came from the NZ Ministry of External Relations and Trade (MFAT), supporting efforts to obtain comparable IMTS across the Pacific.

Tokelau imports analysis got a boost when TNSO participated in a Certificate in Official Statistics (COS) course taught in Apia by StatsNZ in 2015. Invoices of Tokelau imports by the Co-op and Bulk stores there from Apia during the year 2014 were analysed (Jasperse 2015). A follow-up project reconciled the financial data with cargo shipping manifests for the 2014 (Jasperse 2016a,b,c), but regular analysis of imports and exports stayed out of reach.

In February 2017, Jaap had a one-week attachment to StatsNZ in Christchurch, just as their PCTrade Adviser Mr Nick Cox had completed a new demonstration version of PCTrade in Excel. Close cooperation between Nick and Jaap then, and in the year following, led to the development of PCTrade-Green, on the results of which this document reports.

Initially the data from the 2014 cargo shipping manifests were re-analysed; updated manifests were obtained regularly from TSS under its new Director, Mr Su'a Himona Mai.

Development of the system, rebranded PCTrade-Green, coincided with the appointment and employment of a new TNSO Statistics Officer, Mrs Celine Iose. She was able to input all shipping manifests data from January 2014 onwards to date (July 2019 for now). What follows is the analysis of that data.

Continued support from SPC was received also, with missions by its Economics Adviser Mrs Nilima Lal in January and November 2017, as well as in December 2018. Nilima was helpful in comparing our data with that of Samoa, and outlining further development. She continued to encourage a concern that IMTS should be expressed in monetary terms for international comparision, not just volume and weight. But that is all we can do, for now.

Proposals made to TSS to expand the PCTrade analyses to financial data (Appendix 3), and also to include ferry passengers (Appendix 4) were tentatively agreed to, but no data have been forthcoming. Hence this report deals mainly with weights and volumes of imports.

Long-hand analysis: Imports into Tokelau from Samoa in 2014

An analysis of imports by the Tokelau Co-operative and Bulk stores was done as a research project for a Certificate in Official Statistics (COS) course taught by Statistics NZ in Apia. TSS provided atoll stores' import invoices, contributing the data for analyses that could be espressed in terms of finances, health and environment.

Imported items were initially coded to commodity level using the Classification of Individual Consumption According to Purpose (COICOP); a detailed list suitable for Tokelau was developed simultaneously during preparations for the 2015/16 Household Income and Expenditure Survey (HIES).

The report analysing the stores' data and relating them to COICOP and CPI was completed by August 2015, and released by Council in October 2015.[1] A plain-English version was prepared and a presentation made to Council and Senior Management Team in April 2016.

The follow-up project complemented the stores' COICOP-coded invoices with Cargo Shipping Manifests that were coded using the Harmonised System (HS) version 12 as implemented by StatsNZ: Appendix 5 provides our shortlist of most commonly coded items.

Financial and Cargo manifest data could be reconciled to a high degree of reliability, and provided input into strategies being developed by the Department of Health. Non-Communicable Diseases (NCDs) are a major issue in Tokelau. The second report (Jasperse 2016a) provides detailed baseline data for imported foods, alcohol, cigarettes and building materials. Items that cause environmental concerns such as nappies, plastic/foam cups and plates, bottles and tin cans were also quantified, to provide the Department of Economic Development, Natural Resources and Environment (EDNRE) with means to monitor the success of any recycling campaign.

Development and application of PCTrade-Green

In terms of IMTS development, a major breakthrough was made during the TNSO adviser's week-long stay at StatsNZ Christchurch in February 2018. The current StatsNZ adviser devoted to the Pacific Programme there, Nick Cox, had developed a version of PCTrade in Excel for Niue. During a week of intense cooperation, we found this system could be readily accommodated for Tokelau also. A major benefit is that this PCTrade version requires no special software installation other than the ubiquitous Microsoft Office; data can be entered in batch form for an entire shipment, rather than by painstakingly entering one single commodity at a time; and is easily analysed using pivot tables.

Upon return to base the system was successfully implemented and further refined, so that retrospective entry of detailed shipping manifests could be completed for 2014-2019. The new Statistics Officer, Celine Iose, played a major role in accumulating available data on weights and volumes of shipped items, classified according to the 6-digit codes for the Harmonised System that is used internationally (Appendix 5). These results are now available for comparison with 2014 financial, weight and volume data from the previous manual analysis. The intent is to add new manifest data to the system at least quarterly.

[1] http://www.tokelau.org.nz/Bulletin/November+2015/Tokelau+imports+from+Samoa.html

StatsNZ's PCTrade Adviser Nick Cox visited the Apia Office several times, and provided a major upgrade in the rebranded "PCTrade-Green" (his "Blue" incorporates Customs).

The revised version incorporates many Tokelau improvements and allows for much flexibility in further development, even if staff with previous involvement have moved on to other jobs.

A future aim is to use the system for simplifying the imports administration, automating the generation of draft shipping manifests, as well as the analysis of what actually gets shipped.

The setback remains that the cargo manifests only address weight and volume of shipped items, not financial value. Yet in IMTS, international comparisons are made in US dollars. Consultancy reports by Nilima Lal of SPC provide some suggestions for compiling quarterly or annual IMTS statistics. However this presumes an effective IT infrastructure for imports to be present, which is yet to be developed (indeed for the Tokelau Public Service as a whole). Working more closely with TSS, IT, the Finance department in Apia and in the Nuku could help resolve this data dilemma.

Another setback warrants a mention: both the Tokelau-owned passenger vessel *Mataliki* and cargo ship *Kalopaga* now use custom-made, standard containers, and the data contained on the cargo manifests is not as detailed as it used to be for our chartered shipments. For example, *Mataliki* containers are 5 or 10 foot, of volumes 6 or 12 cubic metres and weighing 3,000 or 6,000 kg, with contents now just classified as "Assorted goods and personal effects". "Research proposal A" (Appendix 3) could provide the much-needed future detail.

Reason for analysis at the present time

With the impending departure of Jaap as Statistics Adviser in December 2019, the present reports aims to transmit knowledge acquired to date, and summarise key results. Continued operation and analysis will remain in the hands of Celine as Statistics Officer and any successors who may emerge, with overall responsibility by the National Statistician Kele Lui. The advantage of the current system is that anyone with a reasonable knowledge of Microsoft Excel, and skills in creating pivot tables and graphs in particular, will be able to apply and update the system.

How to input data and extract reports is reasonably well documented to date in the manuals within PCTrade-Green; the present report aims to present and discuss analysis of Cargo Shipping Manifest data from the beginning of 2014 to mid-2019.

PCTrade-Green analyses: Software home screen

The current PCTrade-Green homescreen is organised so that the input side and documentation are on the left-hand side, and pre-set reports on the right-hand side. Financial reports are by necessity about 2014 only (no other financial data available); Manifest reports cover January 2014 to date; the analysis cut-off point for this report is 30 June 2019.

Note that many reports are for the 6-months' periods January-June ("A") and July-December ("B"); this allows data to be organised by Calendar year (=Ax+Bx) or Tax year (Bx+Ay) as required.

Imports into Tokelau only are analysed to some depth; exports are limited to recyclables where these are specified on the manifests. Note that Freezer containers tend to be returned to Apia empty with perhaps a few bags of fish in them; it would be wrong to classify their volume and weighs as fish!

ANALYSIS OF IMPORTS IN 2014: FINANCIAL REPORTS

Financial data have been analysed for 2014 only; indeed this comprised re-entry of the 2014 financial data that had been analysed longhand in the previous study (Jasperse 2015).

Only a selection of tables is reproduced here, to demonstrate the breadth of the system and potential for development beyond 2014, if the relevant data can be obtained.

Available reports

IM1 - Monthly values of imports by HS2 (next page)

IM2 - Monthly values of imports by HS4, building materials only (demonstrating level of detail available to be extracted, and irregularity of their imports)

	Year	2014								Printed:	3/10/2019
Amounts in Samoan Tala (WST)	BUILDING MATERIALS ONLY										
	Sum of Column Labels										
Description HS4 code	Row	February	March	April	June	September	October	November	December		Total
Portland cement	2523		$ 2,454.13	$14,343.30	$ 83.62	$19,951.39	$45,266.91	$ 35,872.70	$14,835.98		$132,808.02
Dyes, tannin, and paint	32					$ 442.22		$ 890.25			$ 1,332.47
Water-based paints and varnishes	3209	$ 1,817.60	$ 2,050.72	$16,503.74	$ 5,269.02	$ 152.95		$ 1,992.95			$ 27,786.98
Glues and adhesives	3506			$ 5,542.36	$ 468.77	$ 84.13					$ 6,095.25
Plastic tubes, pipes, hoses, and fittings	3917		$ 2,721.72	$ 4,799.56	$ 5,836.60	$ 36.77	$ 198.71	$ 588.34	$ 8,997.60		$ 23,179.30
Plastic floor, wall, and ceiling coverings	3918			$ 2,105.16							$ 2,105.16
Plastic articles nec	3926							$ 725.34			$ 725.34
Sawn or chipped wood of thickness 6mm and over	4407	$ 10,814.24			$ 8,658.38		$13,473.06	$123,577.77			$156,523.45
Fibreboard	4411	$ 4,569.23	$ 4,903.78	$ 2,870.67				$ 5,571.85			$ 17,915.54
Plywood	4412			$ 3,396.29	$ 746.81			$ 10,853.71			$ 14,996.81
Wooden joinery	4418				$ 1,999.15			$ 3,147.52			$ 5,146.67
Cement	6810				$ 1,081.83	$ 9,028.80		$ 775.45	$ 3,311.88		$ 14,197.96
Ceramic building bricks	6904			$ 3,633.39				$ 775.45			$ 4,408.84
Cast glass and rolled glass sheets	7003		$ 350.27					$ 11,374.39			$ 11,724.66
Clad iron or non-alloy steel 600mm or more flat-rolled	7210			$ 4,368.68				$ 15,112.48			$ 19,481.16
Hot-rolled iron or non-alloy steel bars and rods unworked	7214					$27,866.58	$15,533.74				$ 43,400.32
Alloy steel 600mm or more wide flat-rolled	7225			$ 352.54				$ 11,521.96			$ 11,874.50
Iron or steel nails, tacks, and staples	7317			$ 2,355.86		$ 2,754.88	$ 3,032.34	$ 5,354.66			$ 13,497.74
Iron or steel screws, bolts, nuts, rivets, and cotter-pins	7318		$ 76.15				$ 73.03	$ 1,146.85			$ 1,296.03
Aluminium structures and parts	7610		$ 357.28	$ 3,976.41				$ 4,654.15			$ 8,987.84
	Total	$ 17,201.08	$12,914.04	$64,247.97	$24,144.17	$60,317.72	$77,577.79	$233,935.82	$27,145.46		$517,484.04

IM3 - Monthly values of imports by HS6 (sample only, demonstrating level of detail available to be extracted)

	Year	2014	
Amounts in Samoan Tala (WST)	Printed:	3/10/2019	
	Row Labels	Sum of Retail Price	
Description HS6 code	02	$	3,611.01
Vegetables; potatoes (other than seed), fresh or chilled	070190	$	26,381.62
Vegetables; tomatoes, fresh or chilled	070200	$	273.45
Vegetables, alliaceous; onions and shallots, fresh or chilled	070310	$	10,697.67
Vegetables, alliaceous; garlic, fresh or chilled	070320	$	1,949.43
Vegetables, brassica; edible, n.e.c. in heading no. 0704, fresh or chilled	070490	$	3,945.74
Vegetables, root; carrots and turnips, fresh or chilled	070610	$	2,055.14
Vegetables; cucumbers and gherkins, fresh or chilled	070700	$	111.49
Vegetables; pumpkins, squash and gourds (Cucurbita spp.), fresh or chilled	070993	$	4,009.60
Vegetable mixtures; uncooked or cooked by steaming or boiling in water, frozen	071090	$	4,700.94
Vegetables; mushrooms other than of the genus Agaricus, provisionally preserved but unsuitable in that state for immediate consumption	071159	$	1,090.60
Vegetable roots and tubers; taro (Colocasia spp.) with high starch or inulin content, fresh, chilled, frozen or dried, whether or not sliced or in the form of pellets	071440	$	696.81

IM4&5 - Monthly values of imports by country of origin&export: not relevant – always Samoa

IM6&7 - Monthly values of imports by BEC & SITC – for future development only

IM8 - Shipment dates and vessels – useful for quality control (e.g. eliminate duplicates)

IM9 - Alcohol, cigarettes, fuel and sugar – see section on “Items of special interest” (p. 14)

	Year	2014												Printed:	3/10/2019
Amounts in Samoan Tala (WST)															
	Sum of	Column Labels													
Description HS2 code	Row	January	February	March	April	May	June	July	August	September	October	November	December		Total
Meat and edible offal	02	$ 23,832.36	$ 15,399.23	$ 19,405.29	$ 34,708.08	$ 37,979.05	$ 29,708.66	$ 28,569.95	$ 16,543.92	$ 51,028.52	$ 50,655.04	$ 35,324.84	$ 45,418.64	$	388,573.58
Fish	03												$ 3,019.28	$	3,019.28
Dairy	04	$ 27,644.53	$ 15,022.40	$ 13,925.64	$ 32,353.71	$ 28,461.44	$ 19,655.19	$ 24,638.95	$ 13,533.37	$ 28,192.81	$ 21,741.11	$ 28,637.37	$ 38,525.36	$	292,331.88
Vegetables	07	$ 3,036.12	$ 3,069.83	$ 3,247.66	$ 6,721.55	$ 5,219.54	$ 5,739.08	$ 2,908.79	$ 2,594.12	$ 5,352.82	$ 5,081.81	$ 4,833.76	$ 8,107.40	$	55,912.47
Fruits and nuts	08	$ 2,914.19	$ 1,383.01	$ 639.04	$ 2,983.34	$ 3,658.71	$ 3,398.53	$ 3,293.89	$ 1,380.22	$ 3,514.50	$ 1,857.92	$ 1,054.60	$ 2,505.50	$	28,583.45
Coffee, tea, and spices	09		$ 1,288.19		$ 341.58	$ 232.36	$ 53.74	$ 1,056.02	$ 51.02	$ 428.24			$ 950.83	$	4,401.99
Cereals	10	$ 9,507.65	$ 5,455.25	$ 5,392.53	$ 9,833.42	$ 6,792.80	$ 7,375.34	$ 16,464.66	$ 6,990.85	$ 6,939.67	$ 3,956.49	$ 13,799.73	$ 10,176.96	$	102,685.36
Milling industry products	11	$ 2,254.72	$ 3,366.28	$ 1,361.94	$ 3,597.78	$ 2,957.18	$ 1,955.99	$ 4,567.11	$ 1,447.14	$ 3,431.85	$ 1,924.33	$ 2,301.23	$ 2,439.24	$	31,604.78
Fats and oils	15	$ 6,519.88	$ 2,082.38	$ 2,863.69	$ 7,144.80	$ 9,250.09	$ 1,937.84	$ 3,601.14	$ 1,103.16	$ 6,747.84	$ 2,340.48	$ 6,264.78	$ 9,488.80	$	59,344.87
Meat and fish preparations	16	$ 28,903.76	$ 15,840.98	$ 20,564.72	$ 31,722.19	$ 23,479.15	$ 25,312.66	$ 36,563.74	$ 8,439.10	$ 29,860.72	$ 16,776.16	$ 35,081.98	$ 51,443.80	$	323,988.96
Sugar	17	$ 6,721.60	$ 4,447.22	$ 6,315.84	$ 7,595.01	$ 8,607.82	$ 2,855.34	$ 8,469.26	$ 4,385.31	$ 9,984.72	$ 2,996.30	$ 8,688.04	$ 9,178.82	$	80,245.29
Cocoa	18	$ 11,214.92	$ 3,758.84	$ 10,477.91	$ 11,236.66	$ 13,426.21	$ 5,228.15	$ 12,961.71	$ 4,214.96	$ 7,186.86	$ 8,499.13	$ 7,062.99	$ 12,781.90	$	108,050.25
Cereal preparations	19	$ 17,967.59	$ 10,739.86	$ 11,809.93	$ 27,118.41	$ 22,220.38	$ 13,483.89	$ 17,887.27	$ 9,868.69	$ 23,488.68	$ 22,148.69	$ 14,966.36	$ 35,524.84	$	227,224.59
Vegetable, fruit, and nut preparations	20	$ 13,837.27	$ 5,186.71	$ 5,485.73	$ 13,276.56	$ 10,793.05	$ 1,946.31	$ 8,557.53	$ 7,295.78	$ 17,953.12	$ 9,309.56	$ 8,706.00	$ 10,599.99	$	112,947.61
Miscellaneous food preparations	21	$ 12,671.71	$ 4,453.99	$ 6,790.57	$ 16,074.05	$ 13,891.93	$ 10,340.11	$ 10,240.70	$ 5,455.38	$ 17,854.86	$ 9,389.83	$ 8,664.90	$ 19,132.01	$	134,960.06
Beverages	22	$ 74,459.56	$ 50,806.62	$ 39,977.31	$ 36,921.21	$ 54,788.72	$ 43,325.86	$ 55,270.03	$ 28,662.08	$ 74,751.77	$ 31,489.09	$ 35,046.97	$ 83,521.95	$	609,021.18
Tobacco	24	$ 88,540.07	$ 20,073.29	$ 29,387.77	$ 91,679.04	$ 80,243.51	$ 40,518.51	$ 123,984.65	$ 46,563.30	$ 120,960.93	$ 71,879.82	$ 40,252.67	$ 109,256.66	$	863,340.21
Mineral substances	25	$ 347.71	$ 33.52	$ 2,498.72	$ 14,539.18	$ 85.30	$ 2,950.87	$ 253.13	$ 46.19	$ 20,135.15	$ 45,266.91	$ 35,973.38	$ 14,941.45	$	137,071.53
Mineral fuels and oils	27	$ 58,415.67	$ 5,871.00	$ 39,978.25	$ 28,771.42	$ 40,906.22	$ 55,427.65	$ 52,088.85	$ 33,936.00	$ 70,056.99	$ 73,840.45	$ 41,102.61	$ 75,001.11	$	575,396.24
Inorganic chemicals and compounds	28	$ 201.54		$ 146.33	$ 902.75		$ 202.98	$ 238.80	$ 361.97	$ 495.69	$ 253.32	$ 331.18	$ 584.50	$	3,719.06
Pharmaceuticals	30	$ 693.21	$ 472.31		$ 234.85	$ 39.85				$ 1,645.11	$ 34.74	$ 1,686.67		$	4,806.75
Dyes, tannin, and paint	32		$ 1,817.60	$ 2,050.72	$ 16,503.74		$ 5,269.02			$ 595.17		$ 2,883.20		$	29,119.45
Essential oils and cosmetic preparations	33	$ 6,003.93	$ 6,827.10	$ 2,599.65	$ 8,745.91	$ 9,788.53	$ 5,000.21	$ 7,694.89	$ 4,297.19	$ 8,714.66	$ 3,795.34	$ 4,013.16	$ 12,812.19	$	80,292.76
Soaps and polishes	34	$ 11,210.89	$ 6,015.73	$ 5,751.45	$ 15,379.81	$ 13,213.87	$ 2,027.53	$ 6,472.04	$ 6,253.10	$ 7,083.98	$ 8,545.57	$ 11,982.20	$ 13,165.50	$	107,101.68
Albuminoids, starches and glues	35		$ 193.74	$ 1,288.76	$ 5,542.36		$ 468.77		$ 66.19	$ 84.13	$ 827.89	$ 440.98		$	8,912.81
Explosives and combustible materials	36	$ 409.91												$	409.91
Chemical products n.e.c.	38	$ 3,828.70	$ 897.95	$ 715.38	$ 6,417.61	$ 3,302.24	$ 4,679.63	$ 3,680.44	$ 7,849.02	$ 4,856.98	$ 1,304.27	$ 3,897.30	$ 9,296.28	$	50,725.80
Plastics	39		$ 2,667.51	$ 3,999.26	$ 10,794.52	$ 458.21	$ 6,992.68	$ 2,890.75	$ 235.80	$ 3,575.94	$ 697.54	$ 8,022.88	$ 29,035.84	$	69,370.93
Rubber	40				$ 349.12						$ 1,897.44	$ 1,318.73		$	3,565.29
Leather products	42		$ 849.73		$ 293.22									$	1,142.95
Wood	44		$ 15,383.47	$ 4,903.78	$ 6,266.97		$ 11,404.34			$ 3,210.81	$ 13,609.46	$ 150,261.19		$	205,040.02
Paper products	48	$ 7,384.95	$ 2,112.29	$ 4,509.86	$ 5,940.04	$ 7,381.75	$ 5,985.59	$ 2,181.29	$ 2,407.24	$ 6,831.86	$ 4,277.42	$ 4,617.57	$ 8,947.08	$	62,576.92
Man-made filaments	54					$ 332.70	$ 2,194.95	$ 2,297.25			$ 19,055.04			$	23,879.93
Wadding, twine and yarn	56											$ 1,253.04		$	1,253.04
Textile fabrics	59		$ 169.95								$ 217.13		$ 130.29	$	517.37
Knitted and crocheted apparel	61				$ 369.33									$	369.33
Made up textile articles	63		$ 254.92		$ 15.39	$ 1,846.48		$ 2,286.36	$ 1,575.45	$ 135.95		$ 3,878.45	$ 451.62	$	10,444.61
Footwear	64	$ 2,363.18	$ 859.64		$ 4,241.96	$ 2,852.89	$ 2,236.48	$ 557.57	$ 1,053.24	$ 4,503.51	$ 816.38		$ 2,933.82	$	22,418.67
Umbrellas	66		$ 458.85							$ 305.90			$ 416.88	$	1,181.63
Stone	68			$ 72.97			$ 1,081.83			$ 9,882.30		$ 8,515.54	$ 4,406.24	$	23,958.88
Ceramics	69			$ 273.21	$ 6,711.11	$ 461.10						$ 9,475.36		$	16,920.78
Glass and glassware	70			$ 350.27								$ 16,561.08		$	16,911.35
Iron and steel	72				$ 4,721.22					$ 27,866.58	$ 15,533.74	$ 26,634.44		$	74,755.98
Iron and steel articles	73		$ 3,194.98	$ 1,216.75	$ 5,283.35	$ 710.87	$ 244.58	$ 5.90	$ 111.69	$ 6,789.09	$ 11,943.62	$ 30,143.79	$ 21,618.16	$	81,262.79
Aluminium	76	$ 1,444.46	$ 1,305.96	$ 2,874.32	$ 8,395.90	$ 7,746.03	$ 5,644.15		$ 1,393.08			$ 5,781.76	$ 954.70	$	35,540.35
Metal tools and cutlery	82		$ 72.23	$ 2,450.68	$ 4,852.84	$ 242.97	$ 145.91	$ 1,388.60	$ 972.99	$ 497.50	$ 129.58	$ 482.12	$ 444.24	$	11,679.65
Miscellaneous metal articles	83			$ 12.89	$ 1,824.92						$ 76.08	$ 6,399.53		$	8,313.42
Machinery	84			$ 1,965.00	$ 14,059.82	$ 741.64	$ 2,197.34				$ 13,871.15	$ 7,127.76		$	39,962.71
Electrical machinery and equipment	85		$ 2,594.88	$ 2,634.74	$ 5,370.77	$ 494.89	$ 1,561.45	$ 2,719.92	$ 492.28	$ 3,505.27	$ 1,879.27	$ 5,829.48	$ 1,872.93	$	28,955.89
Optical, medical, and measuring equipm	90										$ 137.24			$	137.24
Musical instruments	92		$ 127.46				$ 198.59			$ 106.22			$ 108.56	$	540.83
Furniture	94											$ 387.85	$ 5,590.42	$	5,978.27
Toys and games	95		$ 339.89		$ 1,783.77			$ 131.00				$ 1,433.03	$ 3,208.92	$	6,896.61
Miscellaneous manufactured products	96	$ 13,053.26	$ 4,153.41	$ 2,996.28	$ 14,185.80	$ 7,452.50	$ 9,499.42	$ 3,582.09	$ 6,433.38	$ 12,969.81	$ 7,580.18	$ 7,080.25	$ 17,864.24	$	106,850.61
Non-merchandise trade	As	$ -	$ -		$ 393.95	$ -	$ -	$ -					$ -	$	393.95
	Total	**$ 435,383.33**	**$ 219,048.20**	**$ 260,934.83**	**$ 526,199.02**	**$ 420,059.98**	**$ 338,249.17**	**$ 447,504.30**	**$ 226,013.23**	**$ 601,526.51**	**$ 485,635.52**	**$ 648,200.75**	**$ 675,856.95**	**$**	**5,284,611.80**

ANALYSIS OF IMPORTS 1 JANUARY 2014 - 30 JUNE 2019: MANIFESTS

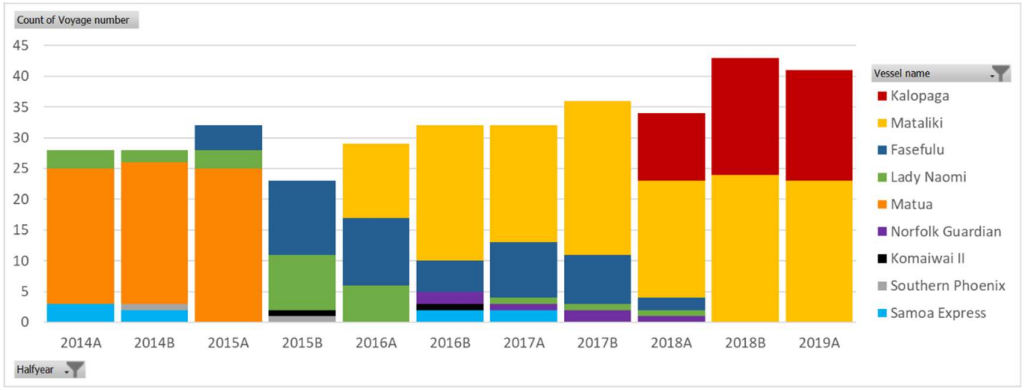
Rather than following the Menu screen for the various reports, the narrative of this main chapter of the report follows a more logical succession of shipment voyages. Comparisons are made of key imports in the most illustrative form, both as tables and graphs.

Voyages (MF7 – Shipment dates and vessels)

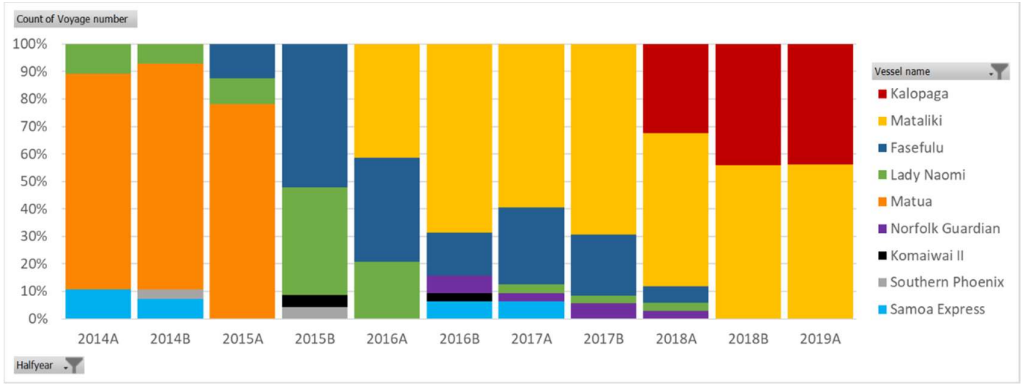
In tabular form, it is clear that the number of voyages per half-year has gradually increased. Tokelau did not get its own passenger ferry *Mataliki* until 2016, and its cargo ship *Kalopaga* in 2018: until then all vessels were chartered.

Count of Voyage	2014A	2014B	2015A	2015B	2016A	2016B	2017A	2017B	2018A	2018B	2019A	Total
Samoa Express	3	2				2	2					9
Southern Phoenix		1		1								2
Komaiwai II				1		1						2
Norfolk Guardian						2	1	2	1			6
Matua	22	23	25									70
Lady Naomi	3	2	3	9	6		1	1	1			26
Fasefulu			4	12	11	5	9	8	2			51
Mataliki					12	22	19	25	19	24	23	144
Kalopaga									11	19	18	48
Total	**28**	**28**	**32**	**23**	**29**	**32**	**32**	**36**	**34**	**43**	**41**	**358**

The increased number of trips and sequence of vessels is clearly illustrated here, with absolute number of voyages per half-year shown on the vertical axis.



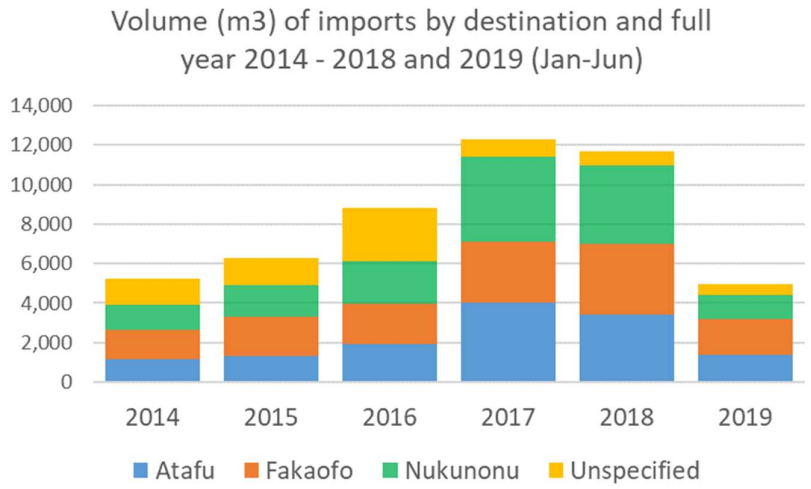
The same data as a percentage illustrates the incleasing impact of the Tokelau-owned vessels *Mataliki* (yellow) and *Kalopaga* (red).



Annual volume of imports in cumecs (MF2 - Total imports by destination and year)

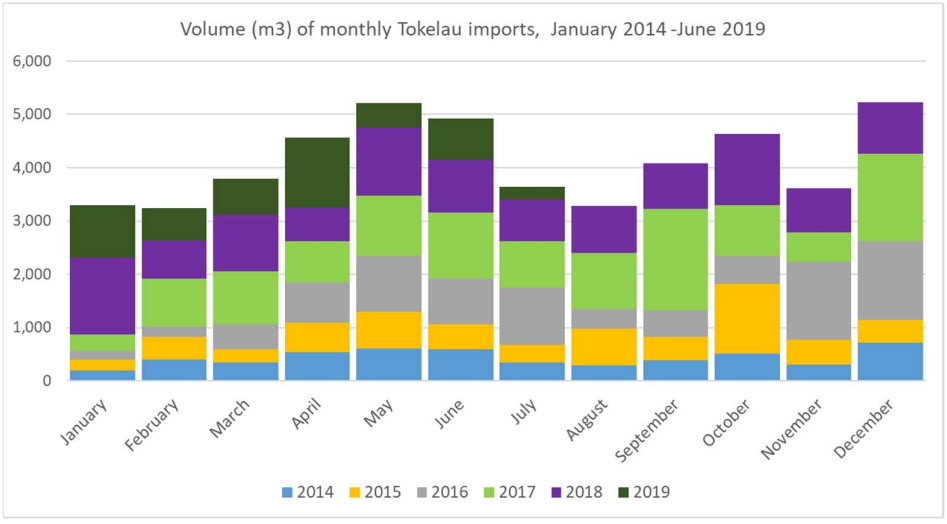
Our data show an increasing volume of imports over the years for all three nuku, with a small percentage of imports' destinations not specified on the shipping manifests.

				Print date:	3/10/2019
Sum of Volume	Column La				
Row Labels	Atafu	Fakaofo	Nukunonu	Unspecified	Total
2014	1,170.522	1,473.684	1,288.871	1,310.345	5,243.421
2015	1,335.349	1,954.877	1,618.824	1,364.775	6,273.825
2016	1,931.254	2,037.767	2,177.034	2,694.880	8,840.935
2017	4,031.539	3,082.115	4,290.357	901.274	12,305.285
2018	3,421.973	3,567.420	3,996.098	723.931	11,709.422
2019	1,393.609	1,810.456	1,201.552	563.141	4,968.758
Total	**13,284.246**	**13,926.319**	**14,572.736**	**7,558.346**	**49,341.647**



Monthly volume of imports in cumecs (MF1 - Annual total imports by month)

Cumulative data clearly show the volume is not distributed evenly thoughout the year.



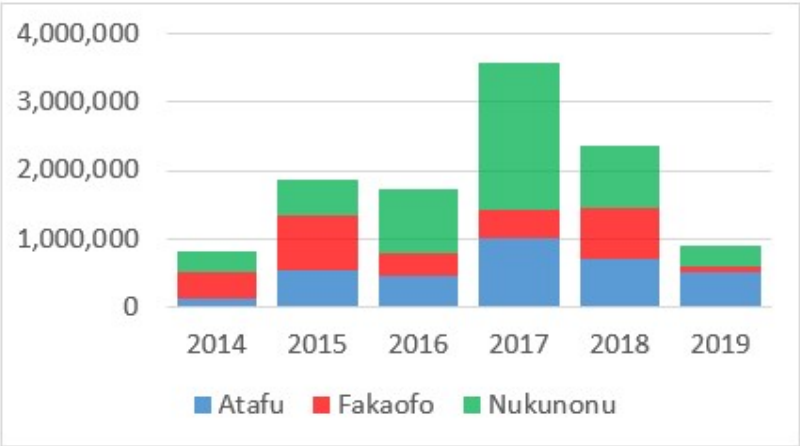
Here is the same result, but separated by year. Note the difference in vertical axis numbers. Some of the high volumes represent building materials, see following page.

Selective retrievals by HS4 code (MF10 - Building materials by type)

The system allows for filtering by those 4-digit Harmonisd System codes that relate to one activity such as building, here represented in cubic metres by calendar year.

Volume in cubic metres					Printed:	3/10/2019
	Sum of	Year				
Description HS2 code: Building materials	**HS4**	**2014**	**2015**	**2016**	**2017**	**2018**
Natural sands	2505			85.196	77.421	172.530
Pebbles	2517	14.498	1.932	430.205	1,134.260	964.897
Portland cement	2523	346.483	626.183	410.644	586.744	362.634
Bitumen mixtures	2715	5.988				
Water-based paints and varnishes	3209	12.163	2.578	25.822	26.380	14.154
Glues and adhesives	3506	4.060	8.002	3.420	1.134	2.671
Plastic tubes, pipes, hoses, and fittings	3917	22.957	39.291	27.615	59.439	36.152
Plastic floor, wall, and ceiling coverings	3918	1.013	3.254	2.259	1.021	
Plastic articles nec	3926			2.831		2.011
Sawn or chipped wood of thickness 6mm and over	4407	181.143	411.363	135.456	391.999	210.632
Fibreboard	4411	30.576	14.519	7.408	37.148	27.580
Plywood	4412	34.589	64.550	61.780	43.467	76.711
Wooden joinery	4418	0.281	1.197	4.483	10.298	2.144
Cement	6810	138.761	354.553	210.920	509.143	381.181
Asbestos-cement	6811		3.955	6.335	16.554	2.211
Ceramic building bricks	6904	74.128	13.363	20.287	49.746	1.568
Cast glass and rolled glass sheets	7003		1.306	14.284		
Safety glass	7007				13.534	
Clad iron or non-alloy steel 600mm or more flat-rolled	7210		3.127	14.810		6.025
Hot-rolled iron or non-alloy steel bars and rods unworked	7214		16.868	44.488	49.457	123.594
Alloy steel 600mm or more wide flat-rolled	7225	11.029	15.558	8.466	3.447	9.360
Iron or steel tube or pipe fittings	7307	4.458	0.386	2.870		
Iron or steel nails, tacks, and staples	7317	0.030	1.367	7.179	7.073	4.613
Iron or steel screws, bolts, nuts, rivets, and cotter-pins	7318		0.063	0.382		0.966
Aluminium structures and parts	7610	7.043	1.338	2.604	4.552	7.666
	Total	**889.200**	**1,584.753**	**1,529.744**	**3,022.817**	**2,409.300**

Selecting the same materials but expressed as weight in kilogrammes gives the following result: the high values for Nukunonu will represent the building of the school there (2019: 6 months only).



Items of special interest: Cigarettes, Alcohol and Fuels

The 2014 study of Tokelau imports highlighted the importance of import data for health statistics monitoring, in terms of per capita use of cigarettes, alcohol and also sugar – all important causes of non-communicable diseases. As cigarettes and alcohol are imported duty-free, they are listed separately on the cargo manifests, but only in gross volume.

While for cigarettes this measure is quite accurate (one box equates to 50*10*20=10,000 sticks), for alcohol it is not because the volumes reflect mostly packaging for spirits and wine. However, the gross volume of beer (pallets) does indicate some trends over time.

Description HS4 code	Row Labe	2014	2015	2016	2017	2018
Cane sugar and pure sucrose	1701	49.627	40.479	51.212	73.655	55.858
Unsweetened water	2201	22.170	3.248	27.239	72.057	135.793
Sweetened water	2202	5.633	2.518	2.994	11.179	2.176
Beer	2203	181.615	208.176	218.055	223.546	149.984
Wine	2204	0.413	3.295	5.700	51.765	3.969
Spirits and liqueurs	2208	21.039	22.863	33.538	47.548	21.144
Cigars and cigarettes	2402	33.686	24.004	25.288	34.435	21.659
Non-crude petroleum oils, waste oil, and biodiesel	2710	332.716	406.362	522.284	441.277	568.479
Petroleum gases	2711	61.671	55.517	83.273	182.192	138.860

The water volume values have been used by a consultant to estimate water consumption for the purpose of water security (White 2019): recent imports have increased exponentially.

In July 2017, General Fono endorsed the Dept of Health Policy to increase tax on cigarettes by 325 percent, (and Taupulega have approved further price rises). The “Tobacco free Tokelau 2020”, policy also reduces monthly import of cartons with nil cigarette imports as a target. Records in our PCTrade database can be used to monitor if these targets are met.

Table 3: Targets for reducing supply to reach the Tobacco-Free Tokelau goal:

Start date	Number of large boxes of cigarettes ordered (per month) by the stores for the year from the start date			Maximum restriction on personal importing of cigarettes – packs of 20 cigarettes per shipment per adult
	Nukunonu	Atafu	Fakaofo	All three atolls
Baseline (2014)	8	11	8	No restriction (November 2015)
1 July 2016	7	10	7	5
1 July 2017	6	8	6	5
1 July 2018	5	6	5	4
1 July 2019	4	4	4	4
1 July 2020	2	2	2	3
1 July 2021	**Zero imports of cigarettes (stores)**			Max of 2 packs of 20 cigarettes per shipment per adult
1 July 2025				**Ban all personal imports of cigarettes**

Row Lab	2014	2018	2019	Total
January	22	15	14	51
February	8	9	17	34
March	12	18	29	59
April	34	31	10	75
May	26	15	16	57
June	16	10	16	42
July	24	10		34
August	17	15		32
September	31			31
October	25	40		65
November	8	20		28
December	38	11		49
Total	**261**	**194**	**102**	**557**

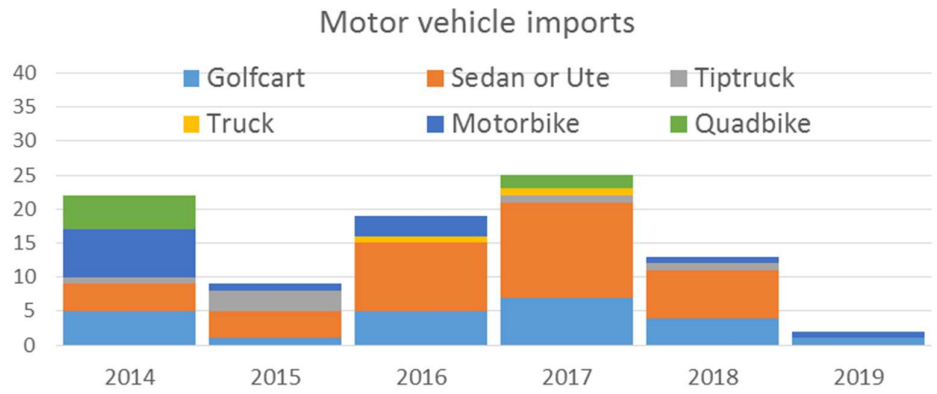
Cigarette cartons (50*10*20 sticks)

Fuel data were extracted to see if they could be used for calculating Tokelau’s greenhouse gas (GHG) emissions, see also page 16. This proved not to be the case: for gas because the gross volume is not a good indicator of nett volume. For diesel it is not because the majority of diesel is transported in the ships’ bunkers and these volumes are not accounted for on the manifests. Petrol and lubrucation oil are specificied on manifests, but as they have the same HS code these items are not separately identifyable in our analysis.

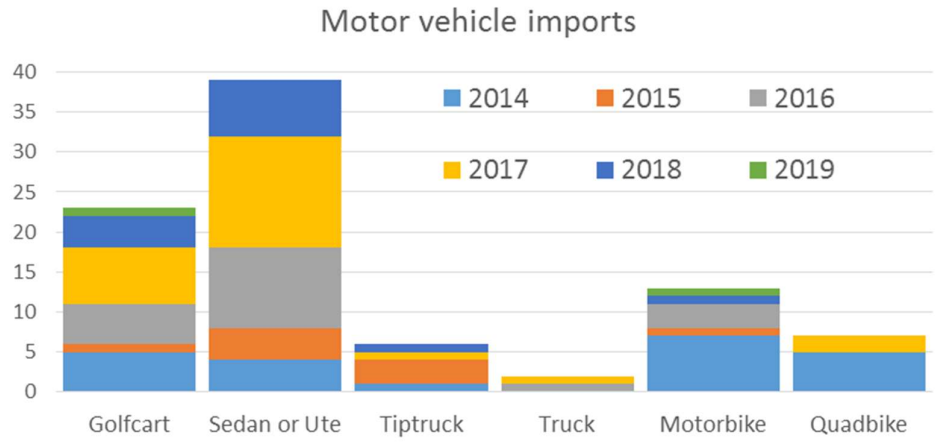
For these reasons, our GHG calculations rely on the more accurate (and audited) records from the Finance Department, in the form of payments made to fuel suppliers such as Petroleum Products Samoa (liquid fuels) and Origin (for gas).

Vehicle imports (MF9) compared to on-atoll survey

Cars, motorbikes, truck and heavy machinery can take up a lot of weight and volume on the cargo ferries, and our records show a significant number of vehicle imports over the years.



What the cargo manifests do not show however, is whether a vehicle is listed as a first import, or as a return after servicing in Apia, as has often been the case.



Therefore an “on-the-ground” survey was conducted late in 2018, whereby during the Statistics Adviser’s stay on each atoll for about 2 weeks, all moving vehicles were photographed and an inventory of unique items prepared. Tentative results are shown overleaf: the number of vehicles is on a par with what one would expect from the import graphs above.

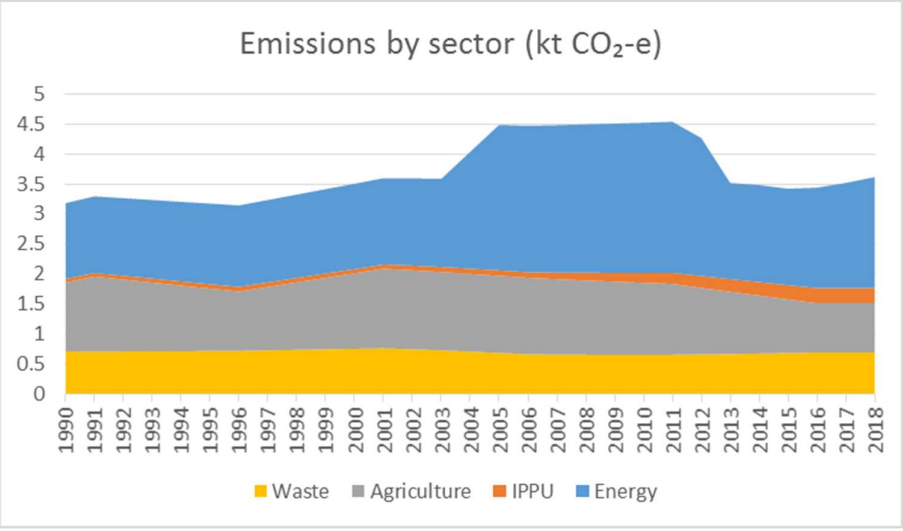
In this context it may be relevant to note that upon being approached by the International Road Federation board (stats@irfnet.ch), the Statistics Adviser estimated the extent of the (unsealed!) road network to be about 10 kilometres for the three atolls combined. A calculation by Luis de la Rua <luisr@spc.int>, the GIS expert at Pacific Community (SPC in Noumea), subsequently calculated the combined length from satellite maps to be 10.03 km (!).

Tokelau photo survey August-October 2018						PCTrade
Count of Type	Column Labels					mid 2018
Row Labels	AA	NN	FF	SS	Total	
Concrete truck		2		4	6	
Crane	1	3	3	1	8	
Digger			3		3	
Forklift	1	1	1		3	
Frontloader		2		1	3	
Golfcart	6	4	11		21	19
Hatchback	5	6	6		17	
Motorbike		12	2		14	11
Pickup	2	8	5	1	16	
Quadbike	1	2	3		6	9
Sedan	4	1			5	
Tiptruck	1	4	3		8	8
Tractor	1		1		2	
Trailer shop		1			1	
Van	2	1			3	
Total	**24**	**47**	**38**	**7**	**116**	
Mid 2018 PCTrade total					109	

Codes	Meaning
AA	Atafu 5 Oct18
NN	Nukunonu 6-8 Oct18
FF	Fakaofo 8-27 Aug18
SS	Ship to Shore (AA>NN>FF)
Data incomplete - e.g. motorbikes in Atafu?	

Unintentionally, this table found its way into Chapter 8 of the New Zealand Greenhouse Gas Inventory 1990-2017 (MFE 2018), in which Tokelau's estimates were published for the first time: see tinyurl.com/TKL-GHG, short for:
http://emissionstracker.mfe.govt.nz/#NrAMBoEYE5IXXMS4BEA5ApgFxQ4AmcfUSAdjwA5Vc4g

Note that the GHG estimate 1990-2018 will be a lot more accurate than this first effort, with many improvements made. It is probably the most accurate and detailed estimate for GHG emissions from all sectors (Energy, Waste, Agricultural, Industrial) for any of the Pacific Island Countries and Territories to date. (Draft graph not for publication until endorsed by NZ-MFE in 2020.)



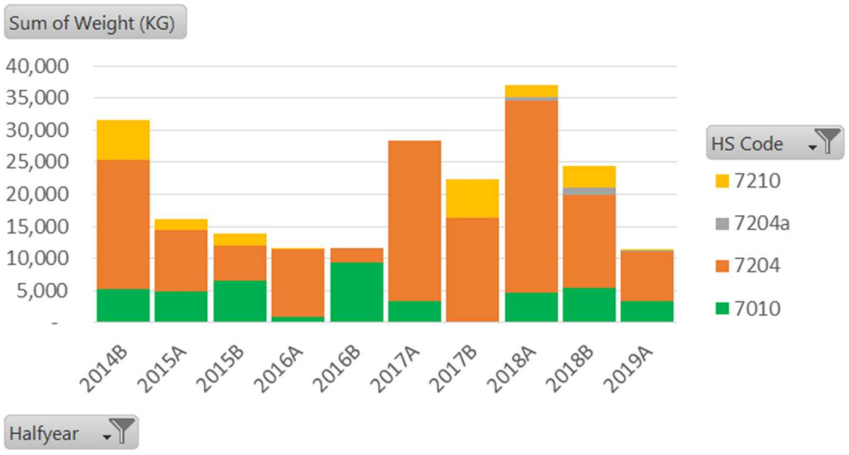
The bulge in the Energy sector (=Power generation and transport) reflects the introduction of 24/7 electricity in 2004 - up from 4 hours daily - and of electric power generation from solar plants since 2012.

Export of Recyclables (ME1)

Tokelau does not export any foods and goods in quantifyable materials. An initial analysis in 2016 suggested that fish exports might amount to about 60 tonnes per annum. However this was an erroneous interpretation of the empty freezers container returning to Apia, whose volume and weight were listed on the manifests as "fish". However, they had just a couple of bags of fish in them rather than being full, so could not further be quantified.

One quantifyable aspect was recyclable materials: Vailima beer bottles being returned to the Vailima brewery in Vaitele, Apia; and scrap metal for recycling under an MOU with a Samoa-based company:

https://www.tokelau.org.nz/Bulletin/December+2017/Solid+Waste+Management+MOU+Signed+between+Tokelau+EDNRE+and+Pacific++Recycle+Co.+Ltd.html.



Materials exported from Toleau to Samoa for recycling, where HS code:

7210=ROOFING IRON

7204a=APPLIANCES

7204=OTHER METAL

7010=GLASS BOTTLES

Comparison with data from Samoa Bureau of Statistics (SBS)

Imports into Tokelau means in almost all cases, exports from Samoa. It is therefore of interest to try and mirror trade statistics from TNSO with those from the Samoa Bureau of Statistics (SBS). An initial effort has been made by taking data from SBS's half-yearly shipping reports: these are published on their website (and additional data were received by email).

As the following table shows, there is plenty of room for improvement. It appears Samoa Customs (where the SBS data originate) have missed quite a few shipments in their records, and indeed the volume of goods shipped appear to be underestimated by a large margin. While some of the difference in volume and weight may be due to transhipments, the number of recorded voyages suggests otherwise. Note that all return trips to Tokelau begin and end in Apia.

Tokelau is very small fry compared to Samoa's trade with other countries, however, with Tokelau accounting for only about 3 percent of total trade in recent years: see tables on the next page.

Fundamental Principles of Official Statistics of the United Nations (excerpt)

Principle 8. Coordination among statistical agencies within countries is essential to achieve consistency and efficiency in the statistical system.

SBS shipping reports data 2013-2017, for Apia – Tokelau; inward and outward in metric tonnes

Period	Total inward (t)	Total outward (t)	Ships departed	TNSO data From shipping manifests		Tonnage SBS out/TNSO in
July-Dec 2013	141	687	22	(return trips)	(imports, t)	(%)
Jan-June 2014	113	459	21	31	1,475	31%
July-Dec 2014	91	1,101	26	31	1,300	85%
Jan-June 2015	104	598	23	29	1,377	43%
July-Dec 2015	218	2,136	15	26	2,821	76%
Jan-June 2016	17	228	13	33	2,012	11%
July-Dec 2016	38	1,716	25	32	2,337	73%
Jan-June 2017	161	746	23	35	3,169	24%
July-Dec 2017	92	1,710	27	36	3,178	54%

SBS Merchandise trade tables, January 2017.xlsx

Samoa	Total Exports (WST)	Tokelau (WST)	% Tokelau
2012	$176,428.39	$4,661.84	3%
2013	$144,103.20	$10,377.38	7%
2014	$117,773.37	$3,003.57	3%
2015	$136,017.84	$3,771.61	3%
2016	$143,755.17	$4,236.41	3%

Source: http://www.sbs.gov.ws/index.php/new-document-library?view=download&fileId=1965

Proposed analysis of ferry passenger data

Aim: To analyse how many people are actually benefiting from Tokelau's international vessels *Mataliki* and *Kalopaga*, while maintaining confidentiality around individuals' personal details.

It is currently unknown how many unique individuals are traveling between Apia and Tokelau, and what their ages and origins are. Combined with Population count data, births / deaths, an analysis of passenger data is valuable to emergency preparedness as well.

A method for maintaining confidentiality around individuals' personal data has already been developed, as is a matrix for estimating the number of people residing in Tokelau at any time. Refer to "Research proposal B" (Appendix 5), presented to this effect to TSS on 17 December 2018.

Despite various attempts on various fronts, the TSS Department appears unwilling to share its passenger manifests with TNSO, citing "confidentiality" reasons. Dialogue should continue. On an operational front, data sharing would mean no more than simply including tsno@tokelau.org.nz in their internal and official Customs mailing list for passenger manifests.

The PC Trade-Green system could be expanded to include anonymised data for analysis in tandem with the shipment data and imports/exports analysis. The opening screen could look like this:

Recommendations

So that sums up Tokelau IMTS progress to date. In the immediate to short term, it is recommended that the cargo shipping manifests continue to be added to the PCTrade-Green database on a quarterly basis; and analysed at least half-yearly, with tables and graphs updated accordingly.

In the longer term, production of results in monetary value is strongly recommended (see Appendix 6). This will require substandial interest and co-operation within and among the Tokelau National Statistics Office, the Department of Transport and Support Services, and the Department of Finance as key players. Once this is established, the Samoa Bureau of Statistics has indicated an interest in exchanging data for both cargo and passengers, so that data could be mirrored between countries.

Indeed SBS has indicated a willingness to make Tokelau passengers a special category within their Customs database, so that specific Tokelau travel can be retrieved from it. However, they quite rightly expect TNSO and TSS to provide convincing data to justify that additional effort on their part.

References

Cox, Nicholas, 2017: PC Trade – Green edition: A user guide and help manual. July 2018, V1.7 (30 p.)

Jasperse, J. A. ("iapi") 2015: Analysing 2014 imports from Samoa by Tokelau's co-operative and bulk stores (40 p.)

———— 2016a: Analysis of 2014 imports into Tokelau from Samoa. Part 2: Stores' invoices reconciled with cargo manifests, and quality of life implications (48 p.)

———— 2016b: Postscript to 2014 Imports Analysis, with recommendations and personal note (5 p.)

———— 2016c: How much do Tokelauans consume – and throw away – in one year? Summary version 2, August 2016 (8 p.)

———— and Celine Iose, 2016: A quick guide to PCTrade in Excel, as developed by Nick Cox of StatisticsNZ, Christchurch, for Tokelau

Ministry for the Environment, 2018: NZ's Greenhouse Gas Inventory 1990-2017. Chapter 8: Tokelau (30 p.) see tinyurl.com/TKL-GHG, short for:
http://emissionstracker.mfe.govt.nz/#NrAMBoEYE5IXXMS4BEA5ApgFxQ4AmcfUSAdjwA5Vc4g

White, Ian, June 2019: Framework for coordinated action on water & sanitation issues: Tokelau Utu Ola - Water Requirements for Concrete Construction and Piggeries in Tokelau– unpublished consultant's report (4 p.)

Appendix 1 Trade Proposal to establish IMTS (Charlie Russell, 2013)

Adobe Acrobat Document (12 pages)

Appendix 2 Meeting for PCTrade-Tokelau, 7 December 2015

Adobe Acrobat Document (4 pages)

Appendix 3 Research proposal A: Extend calculation of imports volumes and weights to financial value

Background:

A considerable amount of information is available on Tokelau imports and exports, as demonstrated in seminars on 10 July (Apia), 10 August (Fakaofo), 10 October (Nukunonu), 10 December (Atafu) and 17 December (again Apia). Tables and graphs illustrate gross imports, and calculations can also provide nett imports of key items. These have relevance for transport planning and health aspects.

Results to date:

Analysis of stores invoices, and reconciliation with shipping manifests, 2014 – longhand in Excel

Analysis of shipping manifests, 2014-2018, using PCTrade- Green (a StatsNZ Excel application)

Proposed extension:

The shipping manifests provide *weights* and (increasingly less so) *volume* of imports which is not very accurate. Analysis of stores invoices from 2018 onwards could help estimate annual *costs* of the imports trade, providing data for international comparisons and for cash flow predictions.

Objectives of taking on this work:

1. Analysis of invoices for the benefit of TSS in accounting, evaluation and planning
2. Better understanding of flow of materials and funds into and out of Tokelau
3. International comparisons and compliance with international reporting agreements
4. Accurate fuel data can also improve calculations of Tokelau greenhouse gas emissions.

Cooperation sought:

From Department of Transport and Support Services:

1. To continue to provide cargo shipping manifests (as had been done since early 2015); but rather than on an ad-hoc basis, email them routinely to TNSO as ships leave Samoa and Tokelau shores. This could be done by c.c.'ing TNSO in on correspondence between TSS and nuku transport officers.

2. In addition, routinely provide the invoices issued to the nuku, particularly concerning cargo for the co-operative and bulk stores. Financial information on additional building materials, vehicles, major supplies to other government departments (Health, EDNRE, Teletok, Energy) would also be desirable

From Finance

3. Payments on invoices (separated by nuku, TSS and other depts) from Petroleum Supplies Samoa (PSS) and Origin - for the calculation of shipped fuel and gas, as has been initiated in 2018 as part of the GreenHouseGas-Tokelau project

Who will do the work:

TNSO will transparently do the calculations with data made available by TSS and Finance, and disclose progress at any time with them.

Who will get to see the results:

After ensuring no personal or confidential data can be accessed using routine statistical procedures:

1. TNSO – calculation

2. TSS and Finance – opportunity for verification

3. StatsNZ and SPC – Peer review by International Merchandise Trade Statistics (IMTS) experts

4. MFE – detailed data for inclusion in their GHG calculations only

5. Everybody, via TNSO website – summary results and reports, after quality assurance

Underlying legislation:

This project is considered to be in the general interest of Tokelau, beyond departmental boundaries.

Tokelau legislation that would apply is the Statistics Rules 2013: notably the following sections:

4. Interaction with other government departments

6. Duties of the National Statistician

9. Official statistics and coordination

18. Obstruction of the National Statistician.

Conclusion:

Discussed and agreed? at a meeting between staff of the Tokelau National Statistics Office (TNSO) and the Department of Transport and Support Services (TSS), and Department of Finance (Finance),

Apia, 17 December 2018

Appendix 4 Research proposal B: Extend PCTrade-Green analysis to include (unique) passengers

Background:

A considerable amount of information is available on Tokelau imports and exports, as demonstrated in seminars on 10 July (Apia), 10 August (Fakaofo), 10 October (Nukunonu), 10 December (Atafu) and 17 December (again Apia). Tables and graphs illustrate gross imports of goods only, but movement of passengers could also be included. This has relevance for transport planning and health aspects and provide good feedback to GF and MFAT on the number of unique users of international services.

Results to date:

A sample of passenger data for mid-December 2017 to mid-February 2018 was received from TSS and analysed in 2018. Anonymised records allowed an overview of trips as well as unique passengers to and from Tokelau: by age, citizenship, and by month or year. Not only does this provide important migration data, it also can assist TSS department with planning its people transport. Note that over this *2-month period* about 1,400 trips took place – about the same number that took place in about *6 months of 2014*. Passenger transport has increased dramatically but not been fully analysed.

In addition, a method has been developed for the calculation of people movements since Census night 2018, which will give us the number of people residing in Tokelau at any time. This would be a very useful number to have at hand in case of emergency, for example. The accuracy of the method will be able to be verified against the population count that is due in December 2019.

Proposed extension:

It is proposed that passenger records are provided by TSS on a routine basis from now on for analysis (2019 data and forward). It is also proposed that data are provided retrospectively to the last Census date (18 October 2018). Then the number of movements can be calculated from this date, in the interest of developing accurate Migration statistics.

Objectives of taking on this work:

1. Inform General Fono: the question around the (unique) number of people benefiting from the new ferry Mataliki was first raised during discussion at GF in July 2017 (not formally minuted)
2. Feedback to New Zealand (MFAT) on the improved quality of life in Tokelau as an effect of their gifting *Mataliki*, *Kalopaga* and *Fetu o te Moana*
3. Analysis for the benefit of people movement evaluation and planning by TSS
4. Potential means for seeking additional staff / funding to meet increased passenger demand
5. Understanding of migration of people into and out of Tokelau
6. International comparisons and compliance with international agreements.

Cooperation sought:

From Department of Transport and Support Services, as well as nuku Transport Officers:

To routinely provide detailed shipping manifests about the passengers on board each trip to and from Tokelau. This could simply be done by c.c.'ing TNSO in on correspondence between TSS and Nuku Transport Officers (in both directions).

Who will do the work:

TNSO will transparently do the calculations with data made available by TSS and Nuku Transport Officers, and disclose progress at any time with them.

Who will get to see the results:

After ensuring no personal data can be accessed using routine statistical procedures:

1. TNSO – calculation

2. TSS – opportunity for verification

3. StatsNZ and SPC – Peer review by Migration experts

4. Everybody, via TNSO website – summary results and reports, after quality assurance

Underlying legislation:

This project is considered to be in the general interest of Tokelau, beyond departmental boundaries.

Tokelau legislation that would apply is the Statistics Rules 2013: notably the following sections:

4. Interaction with other government departments

6. Duties of the National Statistician

9. Official statistics and coordination

18. Obstruction of the National Statistician.

Conclusion:

Discussed and agreed? at a meeting between staff of the Tokelau National Statistics Office (TNSO) and the Department of Transport and Support Services (TSS), Apia, 17 December 2018

Appendix 5 Six-digit Harmonised System (HS2017) codes in use

HS6	Commodity
0201.30	Local or NZ Steak, Rump
0202.10	Whole Beast (Povi)
0202.20	Soup Bones Beef 100lbs
0202.30	Beef Patties/ Mince Meat/ brisket
0203.11	Suckling Pigs Size 2
0203.12	Leg ham
0203.19	Mince pork
0203.22	Pork Chops, Sliced
0204.22	irish stew
0204.30	Lamb leg
0204.42	Lamb Chops & Necks
0204.43	Mutton Flaps
0207.11	Whole Chicken
0207.13	chicken pieces
0207.14	Chicken Leg/ Wings & Nugget
0207.27	Turkey Wings/ Tails
0210.11	Ham Sandwich Local
0210.19	Bacon
0210.20	Salted Beef
0303.25	Crumbed fish bites
0306.17	prawns / shrimps
0307.39	Mussels
0401.10	Anchor Long Life milk
0402.21	Anchor & F/C Milk Powder
0402.91	Anchor Whipping Cream
0402.99	Condensed, evaporated milk (sweetened or not)
0403.10	Fresh fruit yogurt
0403.90	Sour cream
0405.10	Anchor Butter
0406.30	Cheese Block & Slice
0406.90	cheese cream
0407.21	Fresh Eggs Medium
0602	Live plants
0701.90	Potatoes
0702.00	Tomatoes
0703.10	Onions / spring onions
0703.20	garlic
0704.10	Broccoli
0704.90	Head Cabbage
0705.19	Lettuce NZ
0706.10	Carrots
0707.00	Cucumber
0709.30	eggplant
0709.93	Pumpkin, Large
0710.40	Frozen sweet corn
0710.90	Mixed Veges/ Canned stir fry
0710.90	Mixed vegetables, frozen
0711.51	Mushroom whole
0711.59	mushrooms in tins
0713.10	Green peas
0713.39	beans
0714.20	Frozen Kumara wedges
0714.40	Taro (Samoa)
0714.90	arrowroot powder
0803.10	Bananas
0804.30	Pineapples
0804.40	Avocado
0805.10	NZ Orange
0805.50	Lemons
0806.10	Grapes
0807.11	Watermelon
0807.20	Pawpaws
0808.10	NZ Apples
0808.30	NZ Pears
0904.12	pepper, ground
0905.10	vanilla essence/extract
0906.20	cinnamon
0910.11	Ginger
0910.91	curry powder
1005.10	corn on cob
1006.30	Island Sun Rice
1101.00	Bakers Flour
1101.00	Cassava
1104.12	Oats, rolled or flaked
1106.20	Sago
1106.30	self Rising flour
120991	Cauliflower
1211.90	Kava
1212.21	Norisheets (seaweed)
1517.10	Cooking Oil & Margarine Butter
1517.10	margerine
1517.90	Peanut butter
1601.00	Sausage (Beef & Pork) Precook
1602.32	Chicken Drumsticks, breast, Franks & Patties
1602.41	Ham block
1602.50	Corned beef
1604.14	Tuna in oil, canned
1604.15	Mackerel in oil
1605.10	Crab Meat Flakes /seafood salad
1701.99	Brown, white & Icing Sugar
1704.10	Chewing gum, bubble gum
1704.99	Candy (minties)
1805.00	Cocoa powder (without added sugar)
1806.90	Milo chocolate drink, zap
1806.90	Nutella spread
1902.20	Spaghetti canned
1902.30	vermicelli, macaroni, not stuffed
1902.30	bowl/ packet Instant noodles
1904	Bongo, cheezels, cheeze balls, twisties
1904.10	Corn flakes, coco crunch
1904.20	Ricies, Rice krispies; weet bix
1905.10	Bread rolls
1905.20	Raisin buns/ Gingerbread
1905.31	Sweet biscuits
1905.40	French Sticks/ sliced bread/ hotdog buns
1905.90	Cake Mixture (cake, pastry, biscuits, keke puaa)
1905.90	Potato chips wafer
1905.90	Frozen pies
1905.90	Short Pastry
2004.10	NZ Potato Chips,Frozen
2004.90	Spring Rolls
2005.20	Potato chips
2005.59	Baked beans
2007.10	jam, fruit jelly
2008.11	peanuts, salted
2008.19	Coconut cream, canned
2008.20	Pineapple slices or crunch, canned
2008.99	Fruit salad canned
2009.90	fruit juice
2101.11	instant coffee
2101.20	tea bags

HS6	Commodity
2102.10	Baker's yeast
2102.30	baking powder
2103.10	Soya sauce/ kikoman sauce
2103.20	Tomato sauce and ketchup
2103.90	Chili sauce/ tobasco
2103.90	Mayonnaise, Salad Dressing
2103.90	mustard sauce
2104.10	chicken, beef stock
2105.00	Ice Cream, Kiwi/ Tip Top
2106.90	custard powder/ Food stuff
2106.90	tang juice powder, raro, cordial
2201.10	Bottled Water
2201.90	Ice
2202.10	Soft Drinks Assorted
2202.10	Energy Drinks (red bull/ loaded/ V drink)
2202.90	Energy Drinks
2203.00	Vailima Lager/ Export & Taula Lager
2204.21	Altar/ Red/ White Wine
2208.20	Bailey / Kahlua & brandy
2208.30	Whiskey (Jim Beam, Macullum, Potters)
2208.40	Rum (Coruba/ captain morgan/ malibu)
2208.50	Gin (Vickers/)
2208.60	Vodka (Smirnoff, Niu, Marine)
2209.00	vinegar
2402.20	Pall Mall (Filter / Menthol/ rothmans)
2501.00	Iodised Salt
2505.10	Sand screen
2516	Natural rocks
2517.10	Aggregate
2523.29	NZ Cement
2621.90	Fly ash
2710.12	Gear, Hydraulic, SAE, Outboard Oil/Petrol
2710.19	Diesel Fuel
2710.20	Home Kerosene
2711.11	LPG Gas Cylinders
2712.10	Vaselin, petroleum jelly
2715.00	Bitumen
2804.21	Welding Grade Argon
2828.90	chlorox, janola
2922.42	Monosodium (Masima Saina)
3005.10	band aid, adhesive dressings
3005.90	cotton buds
3208.00	Epoxy paint
3209.90	Paints (Undercoat & Block Sealer)
3209.90	paints and varnishes
3214.90	base coat plaster
3303.00	air freshener
3304	baby oil
3304.	micreme
3304.91	baby powder
3305.10	baby bath
3305.10	hair shampoo
3305.90	hair conditioner
3306	toothpaste
3307.20	body wash, body lotion
3307.20	deodorant spray
3307.90	dettol
3401	napisan powder
3401.11	soap bar
3402.20	axion paste/ Dish washing liquid
3402.90	fabric softener
3402.90	harpic toilet cleaner, pine-o-clean
3402.90	tyre inflator
3402.90	washing powder
3403.99	CRC lubricant
3503.00	Gelatin

HS6	Commodity
3506.10	Tile Fix
3506.99	liquid nail, glue
3605.00	safety matches
3808.91	insect repellent, spray, coil
3816.00	Rapid set mortar/ cement grout (core fill)
3820.00	Diesel coolant
3824.50	ready mix (concrete)
3917.21	PVC Fittings, Pipes & Cartridges
3917.21	Plumbing Materials PVC
3917.23	Pipe clips
3917.29	Hose
3918.10	Floor Vinyl Rolls
3918.90	vinyl floor tiles
3919	Sisalation foil
3919.10	Foam cups & plates
3919.90	Tape
3920.10	Polythene black sheets
3923.21	plastic shopping bags
3923.90	Plastic Tie wires (black tie wire)
3924.10	plastic tableware and kitchenware (cutlery, plates,..)
3924.90	Cloths pegs, plastic table cloth/ waste bins
3925.10	Plastic Water Tanks/ Gutter
3926.90	Trunking/ spouting brackets/ cable ties
3926.90	Traffic cone
3939.10	sellotape
401039	Digger tracks
4011.20	Tractor Tyres
4011.99	Wheelbarrow tyres
4012.90	tyres
4015.11	Latex Gloves
4016.92	rubbers, erasers
4016.99	Garden hose
4202.29	school backpacks
4202.99	pencil cases
4203.40	Apron
4401.31	Joinery pellet
4403.20	Wooden post
4407.11	Weatherboards stc:100pcs
4407.21	NZ Timbers (Assorted Sizes)
4411.92	Hardboard (Hardiflex)
4412.39	Plywood (Panel Doors)
4412.99	Marine plywood/ black formply
4415.10	Cable drums
4418.20	Doors
4418.20	wooden doors
4420.90	Coffin
4803.00	paper napkins
4818.10	Toilet Papers
4818.90	baby wipes, huggies
4820.90	School Supplies
4901	Text books (documents)
4901.99	Educational materials
5303.00	Compost
5401.10	cotton thread
5408.24	pareu material, poplin,
5608.11	Fishing nets
5703.30	Carpet
5908.00	kerosene wick
6109	T-shirts
6116.10	cotton gloves
6210.10	Garments
6302.59	bath towels
6302.91	tea towels
6304.92	mosquito net
6306.12	Tarpaulins

HS6	Commodity
6306.22	Tents
6307.90	dust mask
6601.	umbrella
6702.10	Taro leaves (luau)
6802.23	Head stones
6804.22	Cutting disc
6805.20	Sand paper
6809.19	Gibboard Plasterboard
6809.19	Gib board/ plaster board
6810.11	Concrete Bricks/ Blocks
6810.91	Concrete post
6811.40	Cement board/ sheets
6811.82	Villaboards/ seratone sheets
6904.90	Ceremic Tiles & Grout
6910.90	ceramic bowls, urinals
7003.12	louvre glass
7007.11	Glass door
7019.59	Insect screen (mosquito/ flies)
7203.10	Steelo sponge
7210.20	Ridge cap (roofing)
7210.41	Zincalume roofing iron
7214.10	rebars, steel
7225.92	Roofing Iron Asst Sizes
7228.80	threaded rods
7304	Square pipes
7307.92	Galvanized Pipes
7307.92	Flag Posts
7308	1200ltrs petrol tanks
7308	stc;6 Tank Irons
7308.10	Barrier ramp
7308.90	Steel Post / trusses
7309	20' Container Reefer for use and Return
7309.00	petrol tank, jerry can
7312	Cables
7312	Mesh Wire
7314.39	Chain link fence
7314.41	chicken wire
7314.41	tie wire
7314.41	Fence wire set
7317.00	Nails Assorted Size
7318.12	wood screws
7318.15	Hinges & bolts
7321.11	kerosine stove/ Gas oven
732190	Barbecue grill
7323.10	sponges
7323.10	wired steelo
7324.90	toilet paper holder
7326.19	ABB Fuse Link & ECT Cooper
7326.90	rat trap (article of steel…)
7606.12	Aluminium sheets
7607.11	Aluminium foil
7610.10	Louvre Frames
7610.90	Flashing
7610.90	Aluminium door
8007.00	Tin cups & plates
8202.99	hack saws, blades
8203.20	clamp tool
8203.20	Crowbars/ pliers (hand tools)
8205.20	Hammers
8207	Tools
8207.90	rivet gun
8212.10	razor blades
8214.10	pencil sharpeners
8215.20	Cutlery (spoons/ folks/ knives)
8301.10	brass padlocks
8301.60	Door locks
8302	Tv brackets
8302.10	hinges
8302.41	Louvres
8306.10	Bells
8308.10	rivets
8404.10	Diesel bunger
8407.21	Outboard Motors
8413.20	Petrol pump, plastic
8413.49	Bobcat Machine
8413.70	Water pump
8414.30	Compressor
8414.40	compressor
8414.51	ceiling fan
8414.51	Standing Fans & Accessories
8414.80	water taps
8414.90	Blower
8418.99	F&P Fridge/ Freezer L/ Mortuary
8421.21	Desalination Plant
8421.99	Filter parts
8423.90	weighting scales
8424.90	Water mister unit
8426.41	crane
8427.20	FORKLIFT FOR USE & RETURN
8429.52	Excavators
8429.59	Backhoe Loader
8431.49	Excavator parts
8436.29	chicken nipple
8443.99	computer printer ink
845011	Washing machine
8406.39	Grinder blades
8465	Fiber cement jointer
8465.91	Drop saw/ Skill saw
8466	Machine parts
8467.11	Hand drill
8467.22	circular saw
8471.30	Laptops
847180	Computer equipment
8474.20	cement mixer, concrete mixer
8474.80	Concrete mixer Truck
847490	parts for machine, concrete mixers
8476.21	Cooler water bottles
8481.80	taps, cocks, valves
8483.50	pulleys and pulley rope
8487.10	ships' propellers
8501.31	Mobile generator
8502.13	POWER GENERATOR & ACCESSORIES
8504.40	Back-up converter/ electric inverter
8504.90	Transformer
8506	Batteries Solar
8506.10	batteries, alkaline
8511.10	spark plugs
8511.40	Starter motor
8516.10	electric jug
8516.79	URN c 8ltrs
8517.62	Telecommunication equipments
8517.62	Modems
8517.70	Telephones/ mobile phones
8518.30	Head set
8528.69	Projector
8529.10	Satelite dish
8529.90	Antenna
8535.21	Circuit breaker
8535.90	Cable joint
8536.90	Fuse box
8538.90	electric power board, adaptors
8539.31	fluorescent lights

HS6	Commodity
8539.90	fluorescent liight starters
8541.29	PA system
8541.40	solar power components
8541.40	Solar modules
8544	Electrical supplies
8544.11	electrical cables
8544.49	Electrical Home Appliances
8547.90	Conduit PVC pipes
8609.00	Reefer container
8703.10	Golf Cart
8703.21	Quad Bikes/ Motor Cycle 4W
8703.33	Vehicle
8704.10	Tip Truck
8704.21	Delivery vehicle
8708	parts n accessories of vehicles under heading
8701-8705	
8708.94	Steering assembly/ parts
8708.95	Vehicle parts
8709	Tractor
8711.20	Motor Cycles/ scooter
8712.00	Bicycle
8716.80	Wheelbarrows
8716.90	Trailer, Pallet Jack (Parts)
8902.00	Aluminium Boat
8903.99	PaoPao
8907.10	Life Raft
9015.30	Spirit level
9017.80	Measuring tape/ Rods
9018.49	Dental goods
9018.90	Medical equipments
9030.33	
9209.30	Musical instrument strings
9401	Sofa set
9402.99	beach jandals
9403	Chairs & Tables
9403	School Furnitures
9403.10	Shelf/ Cabinets (Office use only)
9403.40	Kitchen benchtop (wooden)
9403.70	Plastic Chairs / containers & Folding Tables
9404.21	Mattresses
9405.30	christmas lights/ LED lights
9405.40	lamps/ Light bulbs /LED lights
9406	Prefabricated housing
9504.40	Spectrum analyzer
9506.29	Diving equipment
9506.91	Gymnasium Equipments
9507.90	Commercial Fishing Gears
9603.21	tooth brushes
9603.40	paint brush & accessories
9603.90	sponge mop
9603.90	toilet brushes, cleaning brushes
9604.00	Tauaga (Coconut Cream Strainer)
9608.10	pens, ball point
9608.99	marker pens
9609.10	pencils
9609.90	chalk line refill
9619.00	disposable nappies, huggies, sanitary pads
9805.00	Personal Cargo/ Goods/ Effects
9805.00	Household effects
Assorted	Medical Suplies
Assorted	Steel Product Bundles
Assorted	Building Materials
Assorted	Safety Gears
Assorted	Assorted Goods
Assorted	Assorted Hardware
Assorted	Asst Food Stuff
Assorted	Asst Goods
Assorted	Asst Hardware
Assorted	Asst Hardware Materials
Assorted	Asst Hardware Products
Assorted	Equipments
Assorted	Homeware
Assorted	Packages stc;General Good

Appendix 6: Technical note / 3rd Tokelau mission report by SPC's Trade expert, Mrs Nilima Lal

(following 6 pages)

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Technical Note on Work in-progress at the Tokelau National Statistics Office on International Merchandise Trade Statistics Compilation

Background

1. The Tokelau National Statistics Office (TNSO) resides in the Office of the Council for the Ongoing Government of Tokelau. Based in Apia, TNSO is in the process of compiling Tokelau's International Merchandise Trade Statistics (IMTS).

2. This Mission is the 3rd.

    a. A one-week scoping Mission was done in January 2017, the purpose of which was to decide on the source of the data, since sourcing the data from the traditional source, i.e. Customs was not possible. The outcome of this Mission was to –
        i. source data from the shipping manifests. These contain a complete list of all goods entering and leaving Tokelau, in capacity and in volume, but not in value. The value data were to be obtained from different sources, namely:
            - Stores invoices from the 3 stores in Tokelau, this being the main one.
            - Tokelau Department of Transport and Support Services (TSS) or their recommended agents.
            - Petroleum Product Supplies (PPS) for fuel.
            - Other – informed estimates with guidance from the TSS.
        ii. compile Tokelau IMTS annually as opposed to monthly (IMTS recommended best practice) or quarterly in light of the amount of work involved in compiling it, and the smallness of the Office.

    b. A one-week follow-up Mission took place in October-November 2017. The main purpose of the mission was to collaborate with Dr Jaap Jasperse on finalising the IMTS Tables. Data for 2014 was available, while work was in progress for other years. The amount of manual work involved and the unavailability of value data in the shipping manifests and that which had to be sourced from the stores were slowing down work. The outcome of this Mission was to –
        i. Exclude personal goods/shuttle trade due to issues in obtaining value data on them, but add a footnote at the bottom of the table.
        ii. Look into the possibility of compiling exports.
        iii. New Zealand's engagement in setting up PCTrade-Green for the compilation.

Purpose of the current TA Mission

3. The primary purpose of this mission was to discuss if we could release volume and weight under the ambit of Shipping Statistics whilst still trying to put IMTS together. That at least will take us a step closer to IMTS; and because this work is a precursor to compiling the value of IMTS, to continue releasing this information as it will give an indication of the coverage of the goods in IMTS, in volume and capacity.

4. A secondary purpose was to add the passenger component to shipping statistics, which later could be used for the purposes of Visitor statistics: arrival and departures and purpose of visit.

Mission Dates

5. Mission's in-country dates were 17 to 18 December 2018.

Scope of Work

6. The scope of work as per the Terms of Reference (TOR) included –

    a. Discussions on the possibility of releasing volumes and weights.

    b. PowerPoint presentation on PCTrade by TNSO.

    c. Talk about Tokelau's chapter on trade in the Region.

Counterparts

7. The work is continued to be carried out by the Statistics Advisor, Dr Jaap ("Iapi") Jasperse (iapi.jasperse@tokelau.org.nz).

8. Cooperation received from the National Statistician, Mr Kele Lui [kele.lui@tokelau.org.nz] and Dr Jasperse is much appreciated. Appreciation also goes to all the stakeholders I met, in particular the Mr Himona Mei [himona@tokelau.org.nz], Director TSS for accommodating a meeting at such short notice.

Status of work

9. Mission started off with an update by Dr Jasperse on work done thus far –

    a. Import and export data are available on volume and weight from 2014 to mid-November 2018 by Harmonized Commodity Description and Coding System 2017 (HS), Standard International Trade Classification Rev 4 (SITC) and Classification by Broad Economic Categories Rev 5 (BEC). The following are to be noted:
        i. The compilation of volume and weight data from the shipping manifests are easier and faster now with the use of PCTrade-Green.
        ii. The latest recommended classifications have been used by TNSO.

    b. Value data is only available for 2014.

    c. A seminar (refer to Appendix 1 for notes taken) was presented by Dr Jasperse on "PCTrade-Green analysis of shipping Jan 2014 to mid-Nov 2018". Dr Jasperse followed up the presentation with two research proposals:
        i. 'Research proposal A' to extend volume and weights of imports to financial data.
        ii. 'Research proposal B' to extend manifest analysis to passengers.

    Good discussions followed:

i. Mrs Margaret Sapolu, Manager Procurement, TSS confirmed that not all goods bound for Tokelau cross the border into Samoa, some are transhipped. Though not often, some goods are also shipped from New Zealand direct to Tokelau.
ii. Tokelau's IMTS will exclude goods carried by passengers as value data on them are not available. These goods classed as personal goods may entail shuttle trade, but this cannot be proved. As mentioned above in 2.b.i., a footnote will be included in the IMTS tables when they are released.

The meeting concluded on a positive note subject to support from the Director TSS.

d. Mission made a courtesy visit with Dr Jasperse to the Director TSS, Mr Himona Mei. This was a very good meeting. Mr Mei has assured TNSO of his support for the compilation of Statistics.

Work in progress -

10. Provisional data on imports of goods by volume and weight are being perused by the Mission.

Work yet to be done –

11. IMTS by value are yet to be compiled. Only on compilation of these will the 'Official IMTS Dissemination Tables', which are 14 in total, be completed. Refer to Appendix 2 for the Tables. TNSO will be able to populate all the tables, except for the split between exports and re-exports since there are no re-exports.

12. Once the Mission has perused data on imports by volume and weight, data will be prepared for release.

13. Mission is to send the Director TSS the Regional Table on Visitor arrivals.

Recommendations

14. Mission recommends that –

    a. IMTS by value be compiled for up to 2018 and released by September 2019.

    b. Mission to work with Dr Jasperse remotely to compile and release imports by volume and weight for up to 2018, if possible by March 2019.

15. Mission will inform the Samoa Customs and the Samoa Bureau of Statistics that not all goods bound for Tokelau cross the border into Samoa, some are transhipped through Samoa and some are directly shipped to Tokelau, as such there is bound to be some difference between what Samoa exports/re-exports to Tokelau and what Tokelau imports.

Debrief

16. Mission briefed the National Statistician, Mr Kele Lui on the work done thus far and what is planned.

17. Dr Jasperse also attended the briefing.

Conclusion

18. It is very pleasing to see core statistics being compiled by TNSO, and which is supported by Mr Himona Mei, Director TSS and his staff; Mr Mika Perez [mika.perez@tokelau.org.nz], Director of Department of Economic Development Natural Resources and Environment; Mr Alan Shaw [alan.shaw@tokelau.org.nz], Acting Director of Finance and Mr Kele Lui, National Statistician.

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Appendix 6.1

Brief note and documentation of the meeting at SNPF Plaza in Apia on 17 December 2018.

Present:
Ms Nilima Lal, International trade expert, visiting from Pacific Community (SPC), Noumea
Mr Mika Perez, Director of Department of Economic Development Natural Resources and Environment
Mr Alan Shaw, Acting Director of Finance
Mrs Margaret Sapolu [margaret.sapolu@tokelau.org.nz], Manager Procurement, Department of Transport and Support Services (TSS)
Mrs Margaret Pedro [margaret.pedro@tokelau.org.nz], Manager Support Services, TSS
Mr Kele Lui, National Statistician
The undersigned
Apologies: Mrs Celine Iose Sapatu, Statistics Officer
Absent: Mr Himona Mei, Director TSS.

Thank you all for your interest in the presentation on PCTrade-Green analysis of shipping Jan 2014 to mid-Nov 2018, of which I attach a pdf for your records.

Also attached copies of research proposals A (to extend volume and weights of imports to financial data) and B (to extend manifest analysis to passengers), plus a copy of the Statistics Rules (2013), the Tokelau legislation under which our national statistics office operates.

Our requests are that from 1 January 2019 onwards, all shipping manifests of cargo and passengers are copied routinely to our generic statistics email address tnso@tokelau.org.nz. This could be done simply by adding us as a c.c. to the emails addressed to the transport and immigration officers in the three nuku with each shipment. We could then anonymise these records and use them for analysis as discussed.

We understand that personal approval from the Director of Transport and Support Services is required, and look forward to any opportunity to formalise that - in the interest of increasing our knowledge of Tokelau, to support departmental planning, and to help develop relevant strategy by the Taupulega and General Fono.

We would also appreciate receiving routinely the invoices to the nuku co-op and bulk stores, so we can put a financial value of the stores' annual imports (as was done for 2014).
Finally, the fuel transactions with Petrol Supplies Samoa and Origin Gas would allow us to continue analysing Tokelau Greenhouse Gas Emissions as we are doing with NZ Ministry for the Environment for the first time in 2018. Support received from Department of Finance to date is much appreciated.

Fakafetai lahi lele, iapi

P.S. Verification of the queried *raw* sugar data showed total imports in 2017 to be 52,150 kg, which fits with the 2014 calculation of Tokelauans' very high per capita *total* sugar consumption of 50 kg per annum - a major risk factor in non-communicable diseases such as diabetes and obesity.

dr J.A. ("iapi") Jasperse
Statistics Adviser, Tokelau National Statistics Office

Appendix 6.2

Official IMTS Release Tables for the Pacific Islands Countries and Territories

Table number	Table title	To be compiled for Tokelau	Status
1	Balance of Trade - All Items	Yes	Yet to be compiled
2	Imports by HS	Yes	Yet to be compiled
3	Domestic Exports by HS	No	Not to be compiled
4	Re-Exports by HS	No	Not to be compiled
5	Total Exports by HS	Yes	Yet to be compiled
6	Principal Domestic Exports	Yes	Yet to be compiled
7	Principal Imports	Yes	Yet to be compiled
8	Balance of Trade by Major Partner Countries	Yes	Yet to be compiled
9	Trade by Region	Yes	Yet to be compiled
10	Trade by Mode of Transport	Yes	Yet to be compiled
11	Trade by Trade Agreements	Yes	Yet to be compiled
12	Exports by SITC	Yes	Yet to be compiled
13	Imports by SITC	Yes	Yet to be compiled
14	Retained Imports Classified by BEC	Yes	Yet to be compiled