

NZPork Monthly Imports and Exports Report

IW Barugh and EJ Neumann Report run date: May 31, 2022

1 Data summary for April 2022

Data from January 2000 through April 2022 was downloaded from the Statistics NZ website http://www.stats.govt.nz/. To generate this report, the data was subsequently filtered to only include data from **January 2000 through April 2022**.

Table 5 in the Exports section of the report provides a detailed report of import and export activity for last 12m; the data for April 2022 is highlighted in red.

1.1 Volume

Monthly Pork Imports (NZPork Fiscal Year, 2018 to Current) 9,000 8,500 7,500 7,000 6,500 5,500 NZPork fiscal year (October - September) Fiscal year (FY) FY2018 FY2019 FY2020 FY2021 FY2022

Figure 1: Monthly pork imports into New Zealand, stratified by NZPork fiscal year (FY2018 to current).

The total volume of pork imported to New Zealand in April 2022 was **5,783 tonne** (7,987 tonne CWE), **up 34.26%** from last month and **up by 14.06%** from the same month last year. For this month, **70.4%** of pork consumption was met by imported products (Figure 1).

1.2 Prices

The value of pork imported to New Zealand in April 2022 was \$28.09 million NZD CIF which equated to \$4.86/kg. The average value of imports this month on a per kg basis was 1.16% lower than last month and 4.76% lower than the same month last year.

Table 1: Relative supply and price of imported pork by pork form, April 2022

Pork form	CIF (NZD)	KGs imported	NZD per KG	Percent of total volume
FROZEN	23,907,028	5,437,685	\$4.40	94%
PROCESSED	2,468,127	162,986	\$15.14	3%
CURED	1,713,756	182,606	\$9.38	3%
TOTAL	28,088,911	5,783,277	\$4.86	100%

1.3 Form

In April 2022, FROZEN pork valued at \$4.4/kg accounted for 94.02% of the total volume of pork imports (Figure 2 and Table 1).

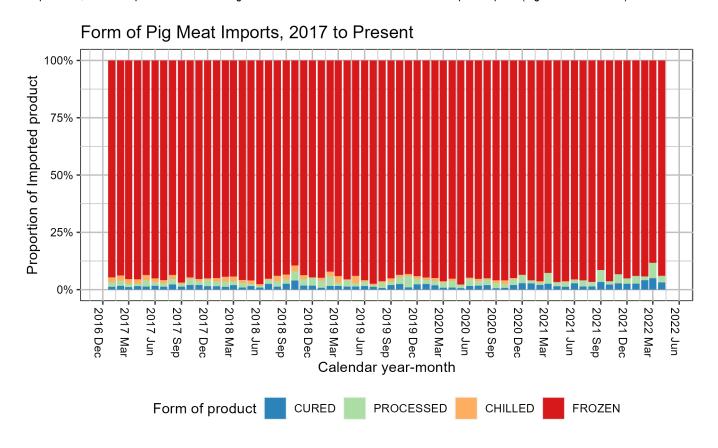


Figure 2: Form of pork imported into New Zealand, by month (2017 to current).

1.4 Countries

Table 2 shows the weight of pork (actual, not CWE) imported into New Zealand during April 2022. Product during this period was imported from 21 different countries. Figure 3 shows the import pattern of "key exporter" countries responsible for 95% of New Zealand's pork imports during April 2022.

Table 2: Relative supply of imported pork, by country, April 2022

Country	Total	Percent	Cumulative
Germany	1,539,392	26.6%	26.6%

Country	Total	Percent	Cumulative
Spain	1,186,220	20.5%	47.1%
Poland	847,525	14.7%	61.8%
Sweden	449,568	7.8%	69.6%
USA	409,092	7.1%	76.6%
Finland	383,349	6.6%	83.3%
Denmark	337,011	5.8%	89.1%
Australia	298,414	5.2%	94.2%
Canada	190,921	3.3%	97.5%
Netherlands	47,612	0.8%	98.4%
Belgium	47,238	0.8%	99.2%
Ireland	24,001	0.4%	99.6%
Italy	17,672	0.3%	99.9%
Philippines	2,243	0.0%	99.9%
Singapore	1,224	0.0%	100.0%
United Kingdom	715	0.0%	100.0%
S.Korea	684	0.0%	100.0%
Taiwan	300	0.0%	100.0%
China	47	0.0%	100.0%
France	44	0.0%	100.0%
Malaysia	5	0.0%	100.0%

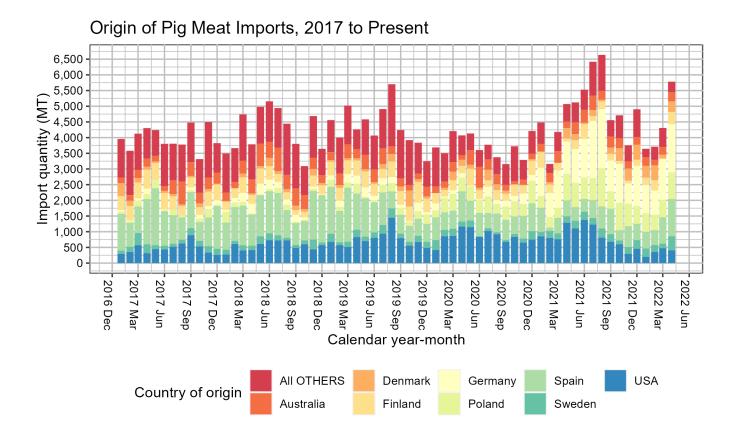


Figure 3: Origin of pork into New Zealand from key exporting countries, by month (2014 to current).

1.5 Chilled product

The amount of chilled product (weight in actual kgs) that entered New Zealand during April 2022 is shown in Figure 4 below. The black line on the graph represents the linear trend of chilled import volumes (95% confidence limit shown by the pale red shading). Figure 5 shows the same data stratified by country of origin.

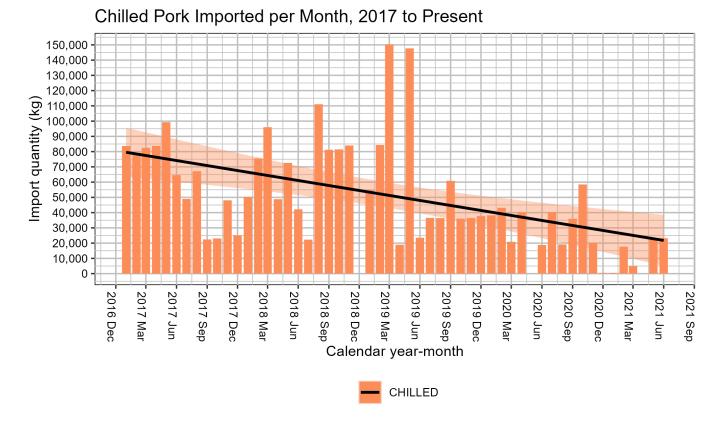


Figure 4: Chilled pork imported into New Zealand, by month.

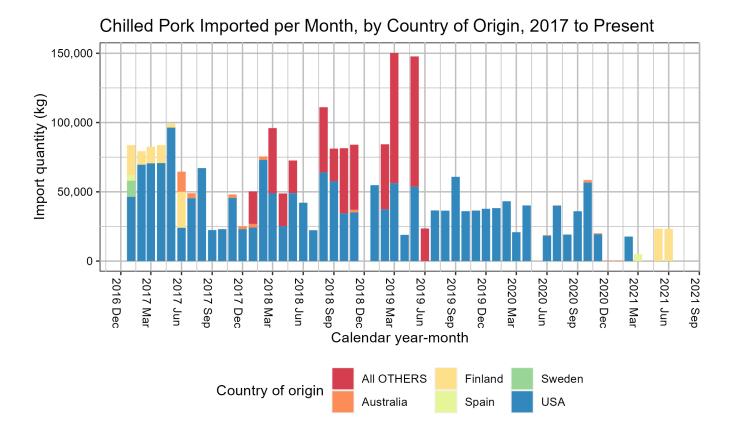


Figure 5: Chilled pork imported into New Zealand from key exporting countries, by month.

1.6 Volume and cost per kg of imported product (actual kgs, NZD)

The landed value (Figure 6) and kilograms (Figure 7) of pork imported into New Zealand during April 2022 are shown below.

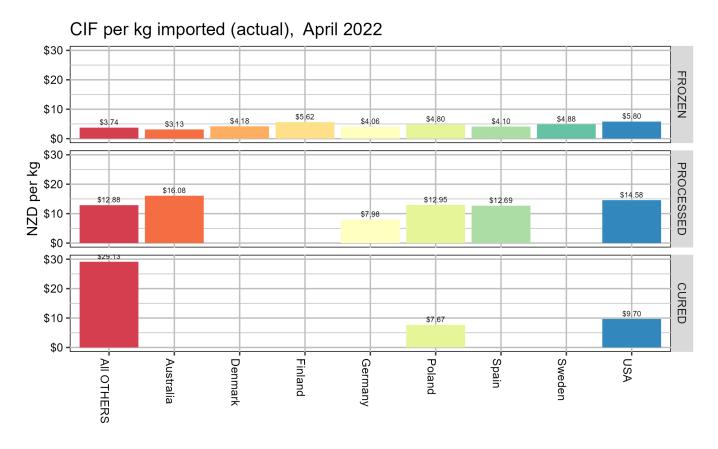


Figure 6: Value of pork imported in April 2022, on a Cost, Insurance and Freight (CIF) basis from key exporting countries.

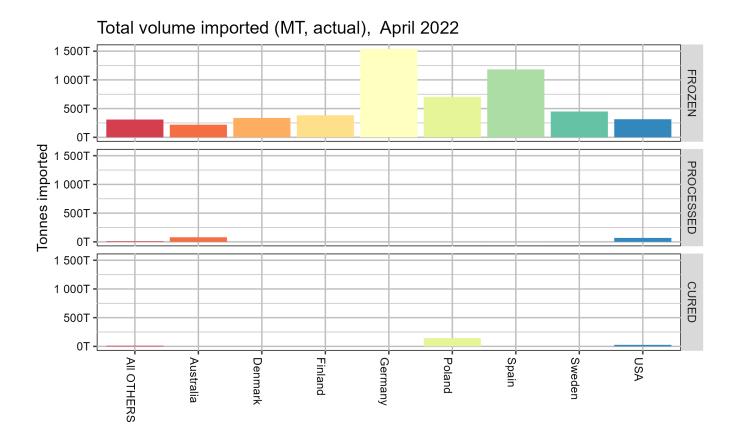


Figure 7: Volume (MT) of pork imported in April 2022, from key exporting countries.

Table 3 below shows the price per kg for imported CHILLED, CURED, FROZEN, and PROCESSED meat products in NZD for the key exporters to New Zealand during April 2022. The quantity of each is shown in kilograms. The last two columns represent the total total kilograms of imported pork for the period and the average price (total CIF in NZD/total kg imported).

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## Warning in stri_detect_regex(string, pattern, negate = negate, opts_regex =
## opts(pattern)): argument is not an atomic vector; coercing
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Table 3: Import quantity and pricing by country.
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Country Group	CURE	D	FRO	FROZEN		SSED	ALL	
Country Group	NZD/kg	kg	NZD/kg	kg	NZD/kg	kg	NZD/kg	kg
All OTHERS	\$29.13	12,106	\$3.74	309,255	\$12.88	11,345.0	\$4.98	332,706
Australia			\$3.13	219,207	\$16.08	79,207.0	\$6.57	298,414
Denmark			\$4.18	337,011			\$4.18	337,011
Finland			\$5.62	383,349			\$5.62	383,349
Germany			\$4.06	1,539,350	\$7.98	42.0	\$4.06	1,539,392
Poland	\$7.67	144,375	\$4.80	703,112	\$12.95	38.0	\$5.29	847,525
Spain			\$4.10	1,182,270	\$12.69	3,950.0	\$4.13	1,186,220
Sweden			\$4.88	449,568			\$4.88	449,568
USA	\$9.70	26,125	\$5.80	314,563	\$14.58	68,404.0	\$7.52	409,092

1.7 Pork imports by PRRS status of country

Porcine reproductive and respiratory syndrome (PRRS) is an viral disease of pigs that is common in much of the world but is absent in New Zealand. The virus that causes PRRS has been shown to be transmitted through untreated pork. Figure 8 shows the trend in pork imports to New Zealand since the import health standard (IHS) that manages the risk was relaxed in 2014.

Pork Imports per Month, by Country PRRS Status, 2012 to Present

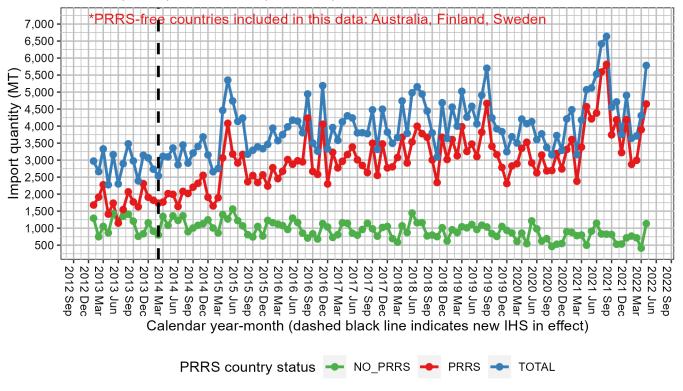


Figure 8: Pork imports per month stratified by PRRS status of exporting country, 2013 to present.

1.8 Consumption of imported and domestic pork

A substantial proportion of the pork supply in New Zealand is met from imported sources. Figure 9 shows the the steadily increasing amount of imported product arriving into the country while domestic supplies have remained steady or decreased slightly over the same period. Figure 10 provides a similar view of the data but based on 12-monthly totals, rather than monthly totals. To determine the potential influence of the increasing New Zealand population on pork supply, the same data from Figure 9 was related to monthly population estimates from Statistics NZ to determine the monthly per capita consumption of pork. Since 2000, the data suggests that per capita consumption of pork has increased, with imported sources supplying an increasing share of the consumption (Figure 11).

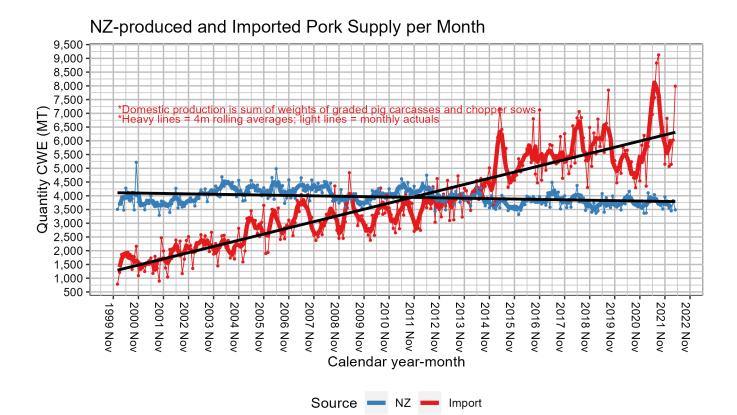


Figure 9: Monthly supply of pork in New Zealand based on domestic versus imported sources.

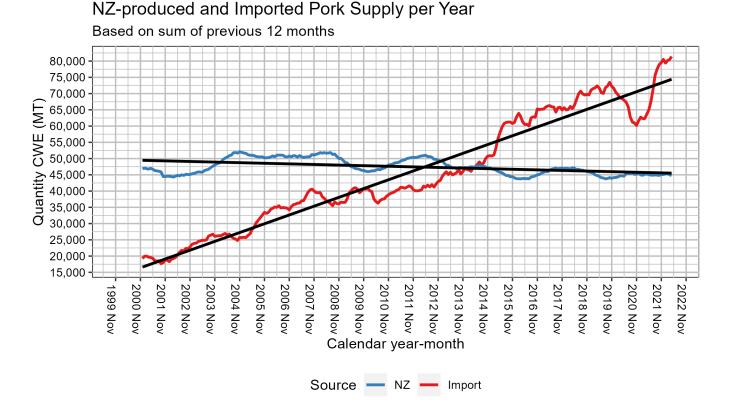


Figure 10: Annual pork supply in New Zealand (based on previous 12 month volume), comparing domestic versus imported sources.

NZ-produced and Imported Pork Consumption per person, by Month

'Imports' = import volume minus re-export volume; 'NZ' = domestic production minus export volum

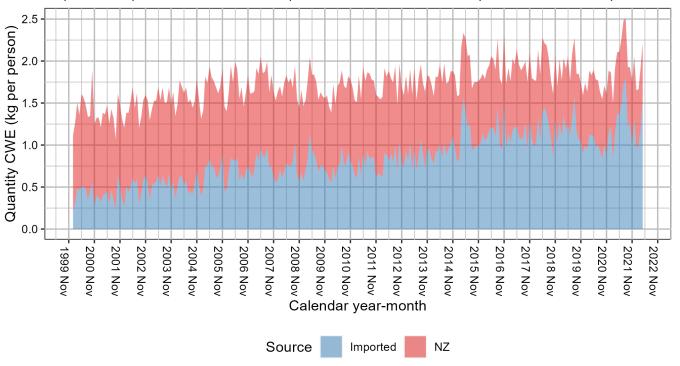


Figure 11: Monthly consumption of pork per capita in New Zealand based on domestic versus imported sources.

Total import volumes from all countries that have exported pork to New Zealand since 2008 are shown in Table 4. Total volume as well as the number of countries that export to New Zealand have increased steadily through the period. The import volumes shown below have been rounded up to the nearest MT; zeroes represent nil import volume.

Table 4: Historical pattern of pork import activity into New Zealand. Numbers represent the metric tonnes (MT) of pork that was imported from each country each year. Current year is 'year-to-date'. Values are rounded up to the nearest one MT.

Country	2014	2015	2016	2017	2018	2019	2020	2021	2022
Australia	4,164	3,337	2,336	3,874	5,363	3,903	3,245	3,795	993
Belgium	291	1,137	1,553	1,254	1,350	1,318	646	563	48
Brazil	3	2	0	4	0	0	7	0	0
Bulgaria	0	1	0	0	0	1	1	0	0
Canada	7,619	10,667	9,069	10,202	11,053	10,257	5,171	3,187	999
China	47	85	80	130	143	131	163	182	40
Croatia	1	1	1	1	1	1	1	1	1
Denmark	7,285	6,638	3,271	1,339	1,263	1,604	1,453	2,377	1,313
Estonia	0	0	24	635	280	165	0	0	0
Finland	6,153	7,501	7,975	5,333	3,715	5,444	3,739	2,863	963
France	1	2	267	3	3	2	1	2	1
Germany	768	1,726	2,009	791	2,189	2,182	1,878	14,043	4,524
Greece	0	0	0	0	0	1	0	2	0
Hong Kong	1	1	1	1	2	1	5	1	1
Iran	0	0	0	0	0	0	24	0	0

Country	2014	2015	2016	2017	2018	2019	2020	2021	2022
Ireland	171	297	613	849	915	788	1,148	996	49
Italy	69	97	99	153	148	183	152	221	56
Japan	1	1	0	0	0	0	1	1	0
Lithuania	0	0	0	0	0	0	0	2	0
Malaysia	0	0	0	0	0	0	0	1	1
Mexico	0	0	0	0	0	0	0	43	0
Netherlands	98	350	422	991	590	1,227	1,596	3,029	419
New Zealand	0	1	0	0	0	24	0	0	0
Peru	0	23	23	0	0	0	0	0	0
Philippines	0	1	2	6	10	7	7	7	4
Poland	0	178	457	1,472	1,206	2,342	5,372	7,965	2,474
Romania	0	0	0	0	1	0	1	1	0
Russia	0	0	0	0	1	0	1	0	0
S.Korea	9	6	27	11	24	16	26	22	6
Serbia	0	0	0	0	1	0	0	0	0
Singapore	2	1	0	2	3	2	3	3	3
Spain	1,277	6,109	12,223	12,782	13,462	11,345	8,088	6,328	3,038
Sweden	3,131	2,145	1,718	2,201	1,865	2,298	1,825	2,594	1,075
Taiwan	5	8	8	11	8	11	17	20	4
Thailand	3	2	2	3	3	4	7	5	2
Ukraine	0	0	24	0	0	0	0	0	0
United Kingdom	4	5	121	84	251	112	16	21	5
USA	6,410	4,689	5,284	5,583	6,590	8,991	10,145	10,264	1,442
Vanuatu	0	0	0	1	0	0	0	1	0
Viet Nam	0	0	1	1	1	0	1	1	0

2 Exports

We have now commenced routine reporting on Export and Re-exporting activity. Any feedback from users about the reports, or request for changes/additions, can be sent to Ian Barugh (i.w.barugh@massey.ac.nz) or Eric Neumann (e.neumann@epi-insight.com) by email or phone.

A summary of the Figures and tables follows:

- Figure 12 is a time series plot of pork exports, re-exports, and total exports per month since 2000.
- Table 5 provides a detailed report of import and export activity for last 12m.
- Table 6 provides shows the relative volumes of export versus re-export activities for the current month.
- Table 7 shows the relative volumes and values of exported pork product, by type of export activity, for the current month.
- Table 8 identifies the top destination countries for pork exports ranked by total FOB value, for the current month.
- Table 9 shows the relative volumes and values of exported pork product type, exported to each destination country, for the current month (a more detailed view than presented in Table 5.

Pork Exports, Re-exports, and Total per Month

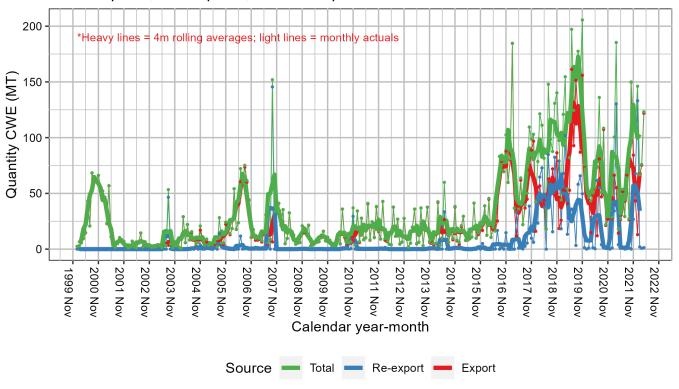


Figure 12: Pork Exports, Re-exports, and Total per Month.

Table 5: Detailed import and export activity for last 12m. Data is in MT, on a CWE basis.

Month	Imported	Re-exported	Domestic	Exported	Total NZ consumption	Population (est)	Per capita consumption (kg)
2021 Apr	6,996.5	4.0	3,776.2	14.3	10,754.4	5,107,274	2.1
2021 May	6,957.5	0.8	3,837.8	26.6	10,767.9	5,108,779	2.1
2021 Jun	7,573.7	1.8	4,038.5	51.7	11,558.6	5,110,400	2.3
2021 Jul	8,829.6	0.1	3,891.3	29.2	12,691.6	5,112,015	2.5
2021 Aug	9,124.1	2.3	3,763.9	66.6	12,819.1	5,113,709	2.5
2021 Sep	6,243.5	1.0	3,647.3	26.4	9,863.4	5,115,400	1.9
2021 Oct	6,490.2	0.1	3,517.2	149.8	9,857.4	5,117,013	1.9
2021 Nov	5,149.7	26.8	3,956.9	84.3	8,995.5	5,118,649	1.8
2021 Dec	6,815.8	67.6	3,806.4	43.3	10,511.2	5,120,200	2.1
2022 Jan	5,069.4	133.1	3,547.2	13.0	8,470.5	5,121,769	1.7
2022 Feb	5,143.7	2.0	3,450.6	64.8	8,527.4	5,123,314	1.7
2022 Mar	6,029.3	0.8	3,820.4	75.3	9,773.7	5,124,700	1.9
2022 Apr	7,986.6	1.3	3,486.8	121.9	11,350.2	5,126,232	2.2

Table 6: Summary of export v. re-export volume, April 2022 .

Measure	Volume (MT)	Proportion
Exported	121.9	98.9%
Re-exported	1.3	1.1%
Total exported	123.2	100.0%

Table 7: Relative volume and value of exported pork product types, April 2022 .

Pork form	Exported (MT)	Total (NZD/kg)	Re-exported (MT)	Re-exported (NZD/kg)	Total (MT)	Exported (NZD/kg)
CHILLED	0.1	\$16.65	0.0		0.1	\$16.65
CURED	6.6	\$6.58	0.1	\$7.15	6.7	\$6.57
FROZEN	99.4	\$3.65	1.2	\$5.39	100.6	\$3.63
PROCESSED	15.8	\$3.56	0.0		15.8	\$3.56

Table 8: Top destination countries for pork exports ranked by total FOB value, $\mbox{\sc April}$ 2022 .

Country	Total (MT)	Total (NZD)	Total (NZD/kg)
Papua New Guinea	73.8	\$204 108	\$2.77
Fiji	27.2	\$166 149	\$6.10
Cook Islands	6.5	\$41 602	\$6.42
Australia	10.4	\$31 512	\$3.04
Samoa	3.2	\$15 796	\$4.92
Marshall Islands	0.5	\$4 119	\$7.75
Solomon Islands	0.5	\$3 676	\$7.38
Vanuatu	0.8	\$1 564	\$1.89
Norfolk Island	0.2	\$1 029	\$6.46
Niue	0.1	\$350	\$4.39

Table 9: Relative volume and value of pork product types exported to each destination country, April 2022 .

Pork form	Country	Exported (MT)	Total (NZD/kg)	Re-exported (MT)	Re-exported (NZD/kg)	Total (MT)	Exported (NZD/kg)
CHILLED	Cook Islands	0.1	\$18.16	0.0		0.1	\$18.16
CHILLED	Samoa	0.0	\$9.71	0.0		0.0	\$9.71
CURED	Cook Islands	3.1	\$6.93	0.1	\$7.15	3.2	\$6.92
CURED	Marshall Islands	0.5	\$7.75	0.0		0.5	\$7.75
CURED	Papua New Guinea	0.4	\$4.92	0.0		0.4	\$4.92

Pork form	Country	Exported (MT)	Total (NZD/kg)	Re-exported (MT)	Re-exported (NZD/kg)	Total (MT)	Exported (NZD/kg)
CURED	Samoa	1.9	\$6.02	0.0		1.9	\$6.02
CURED	Solomon Islands	0.5	\$7.38	0.0		0.5	\$7.38
CURED	Vanuatu	0.1	\$3.53	0.0		0.1	\$3.53
FROZEN	Fiji	26.0	\$6.10	1.2	\$5.39	27.2	\$6.13
FROZEN	Papua New Guinea	73.3	\$2.75	0.0		73.3	\$2.75
PROCESSED	Australia	10.4	\$3.04	0.0		10.4	\$3.04
PROCESSED	Cook Islands	3.2	\$5.52	0.0		3.2	\$5.52
PROCESSED	Niue	0.1	\$4.39	0.0		0.1	\$4.39
PROCESSED	Norfolk Island	0.2	\$6.46	0.0		0.2	\$6.46
PROCESSED	Papua New Guinea	0.1	\$11.25	0.0		0.1	\$11.25
PROCESSED	Samoa	1.3	\$3.18	0.0		1.3	\$3.18
PROCESSED	Vanuatu	0.7	\$1.58	0.0		0.7	\$1.58

3 Report generation and metrics

This report is generated in real-time from data that is (or has been) downloaded from official Statistic New Zealand. The report is built using 'R Foundation for Statistical Reporting' software in the RStudio environment. RMarkdown with the "bookdown" extension (with Latex) is used to create the PDF version of the report.

3.1 Date ranges included in this report

Data from January 2000 through April 2022 was downloaded from the Statistics New Zealand website (http://www.stats.govt.nz/).

To generate this report, the downloaded data has been filtered to only include data from January 2000 through April 2022.

3.2 Data on imported pork

3.2.1 Historic annual pork import data

<u>Annual</u> summary files of <u>historical</u> New Zealand import data (2000-2020) can be found on the Statistics New Zealand website and are downloadable as CSV files. These historical archived data files have already been downloaded and are stored locally to improve the speed in generating this report. However, in case they are required the specific online location of the historic data files is shown below:

http://archive.stats.govt.nz/browse_for_stats/industry_sectors/imports_and_exports/overseas-merchandise-trade/HS10-by-country.aspx

3.2.2 Current year pork import data (monthly summaries)

In addition to the historic annual data, Statistics New Zealand also archives current monthly summary files for the current year (2022) as CSV files. This report downloads these files directly rather than using InfoShare (Statistics New Zealand online query tool) to query the monthly information as the full monthly import data sets exceed the size limit for InfoShare.

At the end of each year (January through December), the current year's data should be download as an 'annual historic summary' as described above and stored locally, then added to the R script as a new local download file. The R report script that generates this report will also need to be modified to include the new historic annual file and to change the 'web scraping grep command' to reflect the monthly summary files from the 'new' year. The links currently being used in this report to download the current year, monthly summaries are listed below; approximately the most recent three months are classed by Statistics New Zealand as Provisional:

http://archive.stats.govt.nz/browse_for_stats/industry_sectors/imports_and_exports/overseas-merchandise-trade/HS10-by-country.aspx

3.2.3 Harmonized System Codes associated with import data

The data that describe the specific Harmonized System Codes (HS codes) that relate to imported pork and NZPork's method for converting the imported volumes (kg) into Carcass Weight Equivalents (CWE) are not available for download and must be directly maintained in a local CSV file. Because the NZ pig slaughter volume (kgs) is reported based on a head-on carcass weight and imported pork data is reported based on actual kgs (the proportion of which is bone versus lean varies by HS Code), the import volumes need to be converted to a 'CWE equivalent' basis so they can be more accurately compared to the NZ domestic production/consumption. This file only needs updated if the HS code list or the CWE conversion method changes. The CSV file can be found at:

D:/Dropbox/Documents/NZPIB/PRRS meat sampling/imports/cwe.csv

Harmonized System Codes used to filter the data downloaded from Statistics New Zealand are shown in Table 10 below (not all HS codes may be used every month).

Table 10: List of Harmonized System Codes used to query Statistics NZ database; CWE multiplier factor and pork form mapping are shown.

Form	CWE multiplier	ised Harmonised System Description Code
CHILLED	1.22	0009 Meat; of swine (other than wild pork), hams, shoulders and cuts thereof, with bone in, fresh or chilled
FROZEN	1.00	2008 Meat; of swine, carcasses and half-carcasses, (other than wild pork), frozen
FROZEN	1.22	2009 Meat; of swine (other than wild pork), hams, shoulders and cuts thereof, with bone in, frozen
FROZEN	1.00	0011 Meat; of swine n.e.c. in item no. 0203.2, frozen, meat bones and hocks
FROZEN	1.40	0019 Meat; of swine n.e.c. in item no. 0203.2, frozen, other than meat bones and hocks
CURED	1.66	0009 Meat; of swine, hams, shoulders and cuts thereof, with bone in, salted, in brine or dried
CURED	1.66	0000 Meat; of swine, bellies (streaky) and cuts thereof, salted, in brine, dried or smoked
CURED	1.66	0001 Meat; of swine, bacon, salted, in brine, dried or smoked
CURED	1.66	0011 Meat; of swine, pork n.e.c. in heading 0210, salted or pickled
CURED	1.66	0029 Meat; of swine, n.e.c. in heading 0210, dried
PROCESSED	1.66	1900 Meat preparations; of swine, hams and cuts thereof, prepared or preserved, packed other than in airtight cans or jars (excluding homogenised preparations)
PROCESSED	1.66	O900 Meat preparations; of swine, meat or meat offal (including mixtures), prepared without other food substances, preserved in airtight cans or jars, n.e.c. in heading no. 1602
PROCESSED	1.66	1900 Meat preparations; of swine, meat or meat offal (including mixtures), prepared or preserved, packed other than in airtight cans or jars, n.e.c. in heading no. 1602
CHILLED	1.40	2009 Meat; of swine (other than wild pork), fresh or chilled, (excluding carcasses, half-carcasses, and hams, shoulders and cuts thereof, with bone in)
PROCESSED	1.66	O900 Meat preparations; of swine, hams and cuts thereof, prepared without other food substances, preserved in airtight cans or jars (excluding homogenised preparations)
PROCESSED	1.66	1900 Meat preparations; of swine, shoulders and cuts thereof, prepared or preserved, packed other than in airtight cans or jars (excluding homogenised preparations)
CURED	1.66	0001 Meat; of swine, hams, shoulders and cuts thereof, with bone in, smoked
CURED	1.66	0019 Meat; of swine, n.e.c. in heading 0210, smoked
CURED	1.66	0019 Meat, preserved; of swine, n.e.c. in heading no. 0210, smoked
PROCESSED	1.66	O900 Meat preparations; of swine, shoulders and cuts thereof, prepared without other food substances, preserved in airtight cans or jars (excluding homogenised preparations)
CURED	1.66	0000 Meat, preserved; of swine, bellies (streaky) and cuts thereof, salted, in brine, dried or smoked

Harmonised Harmonised System Description System Code	CWE multiplier	Form
210190029 Meat, preserved; of swine, n.e.c. in heading no. 0210, dried	1.66	CURED
210190001 Meat, preserved; of swine, bacon, salted, in brine, dried or smoked	1.66	CURED
210190011 Meat, preserved; of swine, pork n.e.c. in heading no. 0210, salted or pickled	1.66	CURED
210110009 Meat, preserved; of swine, hams, shoulders and cuts thereof, with bone in, salted, in brine or dried	1.66	CURED
203110008 Meat; of swine, carcasses and half-carcasses, (other than wild pork), fresh or chilled	1.00	CHILLED

3.3 Domestic pork slaughter data

Data is collected by Statistics New Zealand that describes the volume of pork (number of pigs and weight, by pig class) processed by commercial abattoirs as 'Graded pigs'. This report includes data from pigs of all weights, including chopper sows. This data is not made available by Statistics New Zealand as an archived CSV file, making it necessary to be retrieved from their website using InfoShare. To ensure the same data is retrieved each month, each time time the report is run 'R' sends a pre-formed ".tqx query file" to the InfoShare website which sends the data back to the local computer as a CSV file which can then be used in the report. The .tgx and CSV files can be found at:

D:/Dropbox/Documents/NZPIB/PRRS meat sampling/imports/infoshare/nz_kill.tqx

D:/Dropbox/Documents/NZPIB/PRRS meat sampling/imports/infoshare/nz_kill.csv

3.4 NZ human population estimates

Similar to the NZ domestic pork slaughter data, Statistics New Zealand also holds data describing the size of the New Zealand human population. The data is only reported on a quarterly basis but is automatically downloaded each month from InfoShare using a .tqx query file (as described for the pork slaughter data above) which is then sent back to the local computer as a CSV file which can then be used in the report. The R script uses linear regression to impute values for the missing months, allowing the human population data to be merged with the monthly data on pork that is imported or domestically produced. The .tqx and CSV files can be found at:

D:/Dropbox/Documents/NZPIB/PRRS meat sampling/imports/infoshare/nz_population.tqx

D:/Dropbox/Documents/NZPIB/PRRS meat sampling/imports/infoshare/nz population.csv

3.5 Output of main CSV files

Much of the R work for this report involves collection and manipulation of large datasets that can then be used for development of summary tables and plots. However, there are occasional needs for subsequent **ad hoc** analyses so the three main data sets (data frames in 'R' speak) have been saved as CSV files so the entire report doesn't need to be regenerated just to get a specific data point for further analysis. The three CSV files can be found at:

3.6 Data quality from Statistics New Zealand

Most data collected and held by Statistics New Zealand are released monthly on a 'Provisional' basis. After approximately 3 months, the data are re-released with 'Final' status. Table 11 below shows the status of any data retrieved from Statistics New Zealand that does not have a 'Final' status.

Table 11: Status of monthly import data from Statistics NZ.

Status	Date released
Provisional	2022 Apr
Provisional	2022 Mar
Provisional	2022 Feb

ASF special reports

Table 12 shows total import volume (MT; metric tonnes) of pork of all forms (chilled, frozen, processed, and cured) based on the ASF status of the origin country. Not all forms have the same risk of carrying infectious ASF virus. A few notes about the table:

- · Around 95% of imports are frozen; chilled and frozen product have the highest risk of carrying virus as compared to processed or cured.
- ASF status changes for countries over time, though only one country (Czech Republic) involved in the current Eurasian outbreak has managed to eradicate the disease from their country. Data in Table 12 shown in red represents pork exports from countries during a month in which that country was known to have ASF present within its borders. The country ASF status is based on the date of that country's official report of the disease to the World Organisation for Animal Health (OIE) - the actual first clinical signs may have occurred several days to several months earlier.
 - The data in Table 12 represents the month in which an export landed in NZ, and this may be a different month from which the pork left the exporting country.
- · NZ does not permit import of untreated pork (chilled or frozen) from countries known to have ASF. Typically, when a country becomes infected with a trade-limiting disease such as ASF, the country responds by establishing 'disease-positive regions' which allows the official country-status to return to an 'ASF free, but with infected regions' status. NZ government assesses the effectiveness of the regionalization scheme and then usually resumes trade in the risk commodity (pork in this case), but sourced only from the disease-free regions of that country.

Table 12: Volume (MT) of pork imported into New Zealand over the previous 24 months, by ASF status in country of origin. Data in red indicates months when ASF was known to have occurred in that country.

Apr 2022	298.4	47.2	0.0	0.0	190.9	0.0	0.0	337.0	383.3	0.0	1,539.4	0.0	0.0	0.0	24.0
Mar 2022	245.8	0.0	0.0	0.0	497.8	36.8	0.0	119.8	24.0	0.0	1,304.0	0.0	0.4	0.0	0.0
Feb 2022	173.3	0.0	0.0	0.0	167.1	2.1	0.0	475.0	326.3	0.0	7.77.7	0.0	0.0	0.0	0.0
Jan 2022	274.6	0.0	0.0	0.0	142.6	0.0	0.0	380.3	228.5	0.1	905.6	0.0	0.0	0.0	24.0
Dec 2021	243.8	0.0	0.0	0.0	261.5	3.9	0.0	477.8	196.8	0.0	1,284.4	0.0	0.4	0.0	98.0
Nov 2021	229.0	0.0	0.0	0.0	165.6	40.6	0.0	382.7	91.4	0.0	644.9	0.0	0.0	0.0	0.0
Oct 2021	313.6	71.5	0.0	0.0	213.6	2.2	0.0	407.3	6:96	1.0	1,242.1	0.8	0.0	0.0	71.8
Sep 2021	354.6	24.2	0.0	0.0	262.6	25.4	0.0	192.3	218.8	0.0	980.9	0.0	0.2	0.0	118.1
Aug 2021	286.8	48.6	0.0	0:0	571.0	21.8	0.1	48.1	246.8	0.0	1,886.3	0.0	0.0	0:0	117.3
Jul 2021	463.0	0.0	0.0	0:0	378.0	19.8	0.0	192.5	156.6	0.1	1,812.3	0.3	0.2	0:0	71.1
Jun 2021	413.1	72.1	0.0	0.0	284.3	11.8	0.0	47.7	468.4	0.0	1,228.9	0.0	0.0	0.0	117.1
May 2021	381.3	70.6	0.0	0.0	191.5	18.0	0.0	192.5	286.1	0.2	1,069.9	0.0	0.0	0.0	142.7
Apr 2021	204.6	47.2	0.0	0.0	167.1	0.0	0.0	336.3	95.4	0.0	1,025.0	0.0	0.0	0.0	117.0
Mar 2021	370.3	78.4	0.0	0.0	142.5	24.5	0.0	0.0	239.2	0.0	1,197.7	0.0	0.0	0.0	22.5
Feb 2021	295.7	31.7	0.0	0.0	213.8	0.0	0.0	75.1	267.0	0.0	768.6	0.0	0:0	0.0	0.0
Jan 2021	238.3	118.0	0.0	0.0	335.0	13.3	0.0	24.6	498.8	0.0	901.2	9.0	0.0	0.0	119.6
Dec 2020	171.7	142.4	0.0	0.0	262.9	31.7	0.0	47.7	456.8	0.0	188.4	0.0	0.0	0.0	70.4
Nov 2020	160.1	0.0	0.0	0.0	258.8	0.0	0.0	23.6	259.1	0.0	332.1	0.0	0.3	0.0	94.9
Oct 2020	87.1	124.2	0.0	0.0	308.2	0.0	0.0	23.5	352.4	0.1	165.8	0.0	0.0	0.0	237.0
Sep 2020	185.3	4.0	0.0	0.0	332.2	0.1	0.0	96.2	220.3	0.1	191.9	0.0	0.5	0.0	167.4
Aug 2020	315.7	26.6	6.5	0.0	309.7	0.5	0.0	193.0	315.7	0.1	120.1	0.0	0.0	0.0	193.4
Jul 2020	322.7	96.4	0.0	0.0	168.1	0.0	0.0	337.3	209.8	0.3	311.0	0.0	0.0	0.0	170.7
Jun 2020	671.3	0.0	0.0	0.0	334.8	75.5	0.0	71.4	283.2	0.1	23.7	0.0	0.4	23.9	71.5
May 2020	462.3	50.6	0.0	0.0	430.2	34.5	0.0	122.0	542.9	0.0	24.0	0.0	0.0	0.0	0.0
Country	Australia	Belgium	Brazil	Bulgaria	Canada	China	Croatia	Denmark	Finland	France	Germany	Greece	Hong Kong	Iran	Ireland

Country	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022	Apr 2022
Italy	12.2	19.8	4.0	2.5	4.5	15.8	4.2	22.6	20.2	11.1	29.0	12.9	11.0	13.6	23.2	25.0	11.3	20.9	39.4	2.7	3.7	17.0	16.7	17.7
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0
Lithuania	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0
Malaysia	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0:0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0
Mexico	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	17.7	24.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Netherlar	0.0	6.0	23.4	0.0	144.4	428.1	262.4	191.6	71.3	24.9	310.3	213.8	191.0	141.1	558.3	329.5	71.6	346.4	257.5	512.4	94.5	230.0	46.9	47.6
Philippines	0.0	0.0	0.4	0.3	0.0	1.0	2.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.2	0.1	1.8	6.0	1.6	0.0	0.0	1.3	0.4	2.2
Poland	461.3	420.1	527.3	307.5	419.6	491.0	382.7	717.4	374.5	337.6	316.6	846.8	774.7	685.4	705.6	1,218.9	554.6	866.1	719.2	564.4	595.3	484.2	546.1	847.5
Romania	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Russia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0:0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0
S.Korea	3.3	3.4	4.7	1.2	6.7	1.9	1.4	6.0	<u>†</u>	0.5	1.8	9.0	1.6	0.1	1.9	4.0	4.2	1.4	1.2	2.7	1.7	2.0	9.0	0.7
Singapor	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0:0	1.4	0.0	0.1	0.1	0.0	1.2	0.0	0.0	1.2
Spain (628.7	743.7	482.6	97.6	646.8	9:959	718.4	886.1	770.5	109.3	494.5	512.2	437.1	406.4	571.1	700.0	811.3	330.5	0.599	519.6	528.6	476.4	846.3 1	1,186.2
Sweden	208.0	23.5	89.0	60.1	92.0	90.1	128.0	268.7	138.3	217.4	189.1	198.9	243.0	263.7	208.7	289.3	240.2	116.3	213.0	275.5	264.9	216.1	143.4	449.6
Taiwan	1.5	0.9	2.3	1.5	6.0	6.0	1.2	0.5	2.5	2.6	1.6	2.9	1.4	9.0	1.8	6.0	1.4	6.0	1.7	1.8	9.0	0.2	1.9	0.3
Thailand	0.0	9.0	0.5	0.4	0.7	0.2	0.5	2.3	0.1	0.0	0.0	0.2	0.7	0.0	0.1	1.2	0.0	4.1	0.3	0.1	1.2	0.2	0.5	0.0
United King- dom	1.2	0.1	1.0	1.2	6.1	0.5	2.8	2 .	0.0	0.0	3.8	1.0	4:	0.0	2.8	0.3	4.	2.1	3.3	4.	0.0	2.8	4.	0.7
USA 1,	1,147.6	834.3	1,021.7	921.1	6.929	838.5	654.5	747.2	851.8	804.7	758.1	1,288.0	1,106.7	1,373.5	1,228.8	815.0	6.089	603.3	297.7	454.9	199.4	358.9	473.8	409.1
Vanuatu	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viet Nam	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0:0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0:0	0.0
NEGATIVE3,569.7		3,083.9	3,140.4	3,036.1	2,527.7	2,923.2	2,564.4	3,107.7	3,170.3	2,042.3	2,610.3	3,185.2	3,246.0	3,588.1	3,853.4 3	3,480.3 2	2,977.4 2,	2,576.8 2,3	2,307.2 3,	3,043.6 2	2,140.4 2	2,426.3 2,	2,402.4 3	3,375.7
POSITIVI	561.9	519.2	632.9	338.7	627.2	7.99.7	723.3	1,103.3	1,310.8	1,117.9	1,569.9	1,885.2	1,876.0	1,940.6	2,564.7 3	3,156.1	,578.5	2,134.5 1,4	1,446.9 1,	1,859.5 1,	,503.3	1,284.5 1,	1,905.1 2	2,407.6
TOTAL 4,	4,131.5	3,603.1	3,773.3	3,374.7	3,154.9	3,722.9	3,287.7	4,211.0	4,481.1	3,160.2	4,180.2	5,070.4	5,122.0	5,528.6	6,418.1 6	6,636.4 4	4,555.9 4	4,711.4 3,7	3,754.1 4,	4,903.0 3	3,643.7 3	3,710.7 4,	4,307.6 5	5,783.3
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