

# NEW ZEALAND FINANCIAL MARKETS ASSOCIATION INC (“NZFMA”)

## NZTW – “Trade Weighted Index” Market

### Operating Rules and Principles for Contributors to Page NZTW (Refinitiv) and Page NZFMA Trade Weighted Index (Bloomberg)

#### Overview

NEW ZEALAND FINANCIAL MARKETS ASSOCIATION INC (“NZFMA”)  
OPERATING RULES AND PRINCIPLES FOR NZ TRADE-WEIGHTED INDEX – THE OFFICIAL TWI AND SANCTIONED BY THE RESERVE BANK OF NEW ZEALAND.

#### Definition

The TWI is based on the value of the New Zealand dollar (NZD) against the Australian, US, UK and Eurozone, etc. currencies (see “Input Process” section for complete list).

NZFMA will be responsible for providing the daily TWI calculation. This calculation will be based on data received at 2pm from The World Markets Company PLC (WM).

Each year the Trade-Weighted Indices are re-weighted. The Reserve Bank of New Zealand will publish the new weightings (an official announcement is made towards the end of December each year) and we will update our NZdata system to reflect those new weightings. These are available via Reuters page RBNZ20 (refer to Appendix for details on RBNZ20).

The TWI is 50:50 weighted according to:

1. each currency area’s share of New Zealand’s merchandise trade, normalised to 100%, and
2. each currency area’s share of the combined nominated GDP of those five currency areas.

## ***Input Process***

NZFMA currently collects from The World Markets Company PLC (WM) the Mid, Bid and Offer rates as at 2pm for all New Zealand FX cross rates.

The TWI daily fixings utilises these seventeen (17) cross rates (Mid value) in its index calculations each business day:

NZD/GBP (Great Britain Pound Sterling)  
NZD/EUR (Euro)  
NZD/USD (US Dollar Exchange Rate)  
NZD/CAD (Canadian Dollar)  
NZD/AUD (Australian Dollar)  
NZD/SGD (Singapore Dollar)  
NZD/MYR (Malaysian Ringgit)  
NZD/CNY (Chinese Yuan Renminbi)  
NZD/HKD (Hong Kong Dollar)  
NZD/TWD (Taiwan New Dollar)  
NZD/THB (Thai Bhat)  
NZD/PHP (Phillipino Peso)  
NZD/INR (Indian Rupee)  
NZD/JPY (Japanese Yen)  
NZD/KRW (South Korean Won)  
NZD/IDR (Indonesian Rupiah)  
NZD/VND (Vietnamese Dong)

The TWI Weights are sourced from the Reserve Bank of New Zealand and calculated once a year in the process detailed above. The official release date of the weighting changes will be made available on the RBNZ advance release calendar, which is on the RBNZ website. In June each year they will post the date for the next December release. This allows NZFMA 6 months to update its system to reflect the new weightings. The link to the calendar is: <https://www.rbnz.govt.nz/statistics/statistics-release-calendar>. These processes will be added to the NZFMA Helpdesk Documentation.

## ***System Process for collecting WM Refinitiv exchange rates***

The file is downloaded each day using Secure FTP via a script installed as a scheduled task on the server. It is scheduled to download the file at 2:20pm daily and will notify the helpdesk on failure or if the file is unavailable.

The file is then downloaded and imported from a CSV file into NZdata System Database. From here this is treated like any other NZdata Market.

Please also note that the file is also emailed to NZFMA so this can be used as a back-up and to validate the data integrity from time to time.

## Calculation Process

Once the file is downloaded and imported into the NZdata database a calculation agent is run at 14:45pm NZT based on the 2pm fixes. The market calculation delay is to accommodate for any unexpected delays in file delivery from The World Markets Company PLC (WM).

The NZTW Market is now ready to be calculated for the day.

The following formula is applied to the NZTW Market to calculate the TWI:

$$TWI = \left[ \frac{AUDNZD}{AUD\ base} \right] AUS\ weight \times \left[ \frac{JPYNZD}{JPY\ base} \right] JPY\ weight \times \left[ \frac{USDNZD}{USD\ base} \right] USD\ weight \times \left[ \frac{GBPNZD}{GBP\ base} \right] GBP\ weight \times \left[ \frac{EURNZD}{Euro\ base} \right] EUR\ weight \times Scale\ factor$$

The RBNZ announce the changes in the weightings annually. We are in the process of setting up a communications procedure between RBNZ and NZFMA for notification of these changes.

## Screen Display / Transition Process

We will provide on Refinitiv both “Page” (NZTW) based and “Record” (NZTWI-NZFA) based data for the daily TWI.

The currency data is a display of MID rates out to 5 decimal places and the TWI is displayed to one decimal place (rounded to one decimal place). It will be made available on Refinitiv, Bloomberg and Interactive Data.

The “Page” (NZTW) based record only displays the following five (5) cross rates (Mid value) due constraints on space allowed on Refinitiv’s screens.

NZD/AUD (Australian Dollar)  
 NZD/EUR (Euro)  
 NZD/GBP (Great Britain Pound Sterling)  
 NZD/JPY (Japanese Yen)  
 NZD/USD (US Dollar)

A rolling 5 days of business data is displayed therefore, the top line in the screen will always display the current day.

## Market Timing

Description	Times (NZT)
Market Clear down	N/A
Input times for WM file	13:50 – 14:45
Calculation / Publishing	14:46
Override Times	14:47 – 15:30
Market Reset Time	17:00

Note: Times may vary subject to market requirements

## Record Breakdown

Instrument	Market	Description	
AUDNZD	NZTW	Australian Dollar Exchange Rate	
EURNZD	NZTW	Euro Exchange Rate	
GBPNZD	NZTW	Great Britain Pound Sterling Exchange Rate	
JPYNZD	NZTW	Japanese Yen Exchange Rate	
USDNZD	NZTW	US Dollar Exchange Rate	
AUDBASE	NZTW	AUD Base Rate (Never Changes)	
EURBASE	NZTW	EUR Base Rate (Never Changes)	
GBPBASE	NZTW	GBP Base Rate (Never Changes)	
JPYBASE	NZTW	JPY Base Rate (Never Changes)	
USDBASE	NZTW	USD Base Rate (Never Changes)	
AUDWEIGHT	NZTW	AUD Weighting (Changes once a year)	
EURWEIGHT	NZTW	EUR Weighting (Changes once a year)	
GBPWEIGHT	NZTW	GBP Weighting (Changes once a year)	
JPYWEIGHT	NZTW	JPY Weighting (Changes once a year)	
USDWEIGHT	NZTW	USD Weighting (Changes once a year)	
SCALAR	NZTW	SCALAR (Changes once a year)	
TWI	NZTW	TWI	
Market	Field	Description	FID
NZTW	CALC_DATE	Calculation Date	73
NZTW	CONTRIB1_MID	Mid Value for currency pairing	346
NZTW	TWI_CALC	TWI Calculation	500
NZTW	TWI	TWI Base Rate	501
NZTW	WEIGHT:1	Currency Weighting	502
NZTW	BASE:1	Currency Base Rate	503
NZTW	SCALAR	Scalar	504
NZTW	(static)	TWI Base Rate Setting Date	505

## Permissions Structure

		NFMA Members & NZdata Subscribers	ZFMA Non-Members & NZdata Subscribers
MARKET CODE	DESCRIPTION		
<b>NZTW</b>	<b>NZ Trade-Weight Index (NZTW)</b>	<b>x</b>	<b>x</b>

Note: Free to Air.

# Appendix

NZTW & NZTWI=NZFA Pages:

DATE	TWI	USD	AUD	JPY	GBP	EUR		
07-Sep-2022	70.3	0.60150	0.89580	86.15885	0.52390	0.60830		
06-Sep-2022	71.0	0.61240	0.89715	85.98710	0.52840	0.61465		
05-Sep-2022	70.7	0.60885	0.89720	85.33640	0.53015	0.61375		
02-Sep-2022	70.3	0.60690	0.89385	85.06005	0.52565	0.60940		
01-Sep-2022	70.5	0.60960	0.89505	85.04530	0.52640	0.60805		
TWI WEIGHTS		(13.57)	(17.29)	(05.68)	(03.22)	(10.05)	SCALAR 77.1060	
BASE RATES		0.78320	0.88800	85.60220	0.48960	0.62130		
TWI = 76.40		31 October 2014						

The exchange rates shown are provided by The World Markets PLC (WM) in conjunction with Refinitiv. WM Refinitiv shall not be liable for any errors in o delays in providing or making available the WM/Refinitiv exchange rates, nor for any actions taken in reliance on the same.

For definitions & calculation details see:<NZTWINF001> <NZTWINF002> <NZTWINF003>  
For the full TWI listing please go to <NZTWI=NZFA> and <NZDFIX=NZFA>

NZTWI=NZFA Quote			
NZTWI=NZFA			
NZFMA DEALING			
WEL			
NZTW			
NZDTWI	70.3000		14:46
USD	13.5700		14:46
AUD	17.2900		14:46
JPY	5.6800		14:46
GBP	3.2200		14:46
EUR	10.0500		14:46
CAD	1.2700		14:46
SGD	4.4700		14:46
KRW	3.5300		14:46
TWD	1.8100		14:46
PHP	0.7300		14:46
VND	1.6400		14:46
MYR	2.0500		14:46
THB	2.8400		14:46
IDR	1.8500		14:46
INR	1.7400		14:46
HKD	1.2200		14:46
CNY	27.0400		14:46
USD	0.78320		14:46
AUD	0.88800		14:46
JPY	85.60220		14:46
GBP	0.48960		14:46
EUR	0.62130		14:46
CAD	0.87710		14:46
SGD	1.00070		14:46
KRW	826.09410		14:46
TWD	23.79020		14:46
PHP	35.16340		14:46
VND	16657.60670		14:46
MYR	2.57110		14:46
THB	25.47190		14:46
IDR	9495.69500		14:46
INR	48.13630		14:46
HKD	6.07350		14:46
CNY	4.78970		14:46
TWI SF	77.1060		14:46