

Shading Key:

%	52 week high (green = 1), low (red = 0) or shaded in-between
%	2 standard deviation move up (5%)
%	1 standard deviation move up (33%)
%	1 standard deviation move down (33%)
%	2 standard deviation move down (5%)

These estimates are based upon the last 256 daily moves of each instrument

	Closing prices 07-Dec-22	52 wk	Movement for the period				YTD	Q3 2022	Q2 2022	2021	2020	2019
			Day	Week	Month	YTD						
Interest Rates												
Central Bank Bills												
Change to today's price from closing prices of prior period												
28 days	1.95%		0.00%	0.00%	0.04%	0.66%	0.65%	-0.06%	1.29%	1.33%	1.39%	
60 days	2.45%		0.00%	0.01%	0.11%	0.46%	0.40%	-0.11%	1.99%	2.07%	2.30%	
90 days	2.70%	0.00	0.00%	0.01%	0.07%	0.75%	0.43%	-0.20%	1.95%	2.04%	2.50%	
182 days	4.55%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.55%	4.55%	4.55%	
Treasury Bills												
182 days	2.68%	0.48	0.08%	0.08%	0.68%	-1.61%	0.06%	-1.12%	4.29%	4.41%	4.68%	
273 days	2.95%	0.00	0.01%	0.01%	0.32%	-3.00%	0.54%	-1.78%	5.95%	6.04%	6.04%	
364 days	4.30%		0.00%	0.00%	0.04%	-2.74%	1.44%	-2.50%	7.04%	7.20%	7.08%	
Government Inscribed Stock												
For interest rates, rate at end of each respective year reported.												
GIS 2Y 2022-24	4.20%		0.00%	0.00%	0.00%	-4.30%	-0.85%	-3.28%	8.50%	8.04%	7.90%	
GIS 4Y 2022-26	5.16%		0.00%	0.00%	0.19%	-4.68%	-0.66%	-4.10%	9.84%	9.84%	-	
GIS 5Y 2022-27	5.24%		0.00%	0.00%	-0.20%	-4.46%	-1.12%	-3.32%	9.70%	9.86%	-	
GIS 7Y 2022-29	5.56%		0.00%	0.00%	-0.37%	-4.24%	-0.79%	-3.10%	9.80%	10.02%	-	
GIS 8Y 2022-30	5.44%		0.00%	0.00%	-0.74%	5.44%	-0.64%	0.00%	-	-	-	
GIS 9Y 2022-31	5.44%		0.00%	0.00%	-0.91%	-4.46%	-0.59%	-2.91%	9.90%	11.82%	10.55%	
GIS 10Y 2022-32	5.44%		0.00%	0.00%	-0.84%	-4.46%	-0.65%	-2.90%	9.90%	12.53%	-	
Kina Facility Rate												
	3.25%	1.00	0.00%	0.25%	0.25%	0.25%	0.00%	0.00%	3.00%	3.00%	5.50%	
Ten year Government Bond yields												
United States	3.42%	0.71	-0.11%	-0.19%	-0.68%	1.91%	0.82%	0.67%	1.51%	0.91%	1.92%	
United Kingdom	3.04%	0.62	-0.03%	-0.12%	-0.41%	2.07%	1.86%	0.62%	0.97%	0.20%	0.82%	
Australia	3.36%	0.68	-0.04%	-0.17%	-0.51%	1.69%	0.23%	0.82%	1.67%	0.97%	1.37%	
New Zealand	4.06%	0.73	0.05%	-0.02%	-0.53%	1.67%	0.44%	0.64%	2.39%	0.99%	1.65%	
France	2.24%	0.76	-0.02%	-0.16%	-0.45%	2.04%	0.80%	0.94%	0.20%	-0.34%	0.12%	
Japan	0.26%	0.98	0.00%	0.00%	0.00%	0.18%	0.01%	0.01%	0.07%	0.02%	-0.01%	
Australia RBA Cash Rate	3.10%		0.00%	0.25%	0.25%	3.00%	1.50%	0.75%	0.10%	0.10%	0.75%	
PNG CPI Index Latest 12 mth % change	5.50%								4.60%	3.10%	4.00%	
Currencies												
Percentage changes												
PGK/USD	0.2840	0.00	0.00%	0.00%	0.00%	-0.35%	0.00%	0.00%	0.00%	-2.90%	-1.18%	
PGK/AUD	0.4222	0.60	0.00%	-0.45%	-3.50%	7.48%	5.99%	8.56%	6.19%	-11.68%	-0.48%	
PGK/GBP	0.2332	0.34	0.00%	-1.64%	-5.28%	10.42%	9.20%	8.09%	1.00%	-6.57%	-4.40%	
PGK/NZD	0.4497	0.41	0.00%	-1.47%	-6.00%	7.74%	8.54%	11.85%	5.78%	-9.52%	-1.45%	
PGK/JPY	38.920	0.64	0.00%	-1.04%	-5.97%	18.62%	5.96%	11.97%	11.64%	-7.87%	-2.68%	
USD/AUD	0.6727	0.35	0.00%	0.45%	3.62%	-7.30%	-5.64%	-7.89%	-5.83%	9.94%	-0.71%	
USD/JPY	137.030	0.64	0.00%	-1.04%	-5.98%	19.03%	5.98%	11.96%	11.63%	-5.12%	-1.53%	
USD/EUR	1.0486	0.48	0.00%	1.34%	4.18%	-7.28%	-6.04%	-6.38%	-8.00%	9.68%	-1.94%	
USD/GBP	1.2178	0.50	0.00%	1.68%	5.57%	-9.75%	-8.40%	-7.49%	-0.98%	3.90%	3.37%	
Equity Indices												
Papua New Guinea												
Percentage changes												
KSI Index	6,242.78	0.91	0.00%	-0.01%	-0.60%	6.50%	0.25%	1.51%	-3.09%	-3.42%	21.05%	
KSI Home Index	15,584.73	0.84	-0.05%	-0.05%	-0.05%	8.29%	-0.29%	10.08%	8.11%	1.50%	14.95%	
Australia												
All Ordinaries	7,423.16	0.62	-0.86%	-0.77%	3.28%	-4.58%	-1.01%	-13.39%	13.55%	0.71%	19.14%	
S&P/ASX 100	6,068.67	0.73	-0.83%	-0.73%	3.31%	-1.30%	-1.32%	-11.65%	13.28%	-2.06%	18.88%	
S&P/ASX 20	4,086.10	0.75	-0.87%	-0.70%	3.48%	0.69%	-1.83%	-11.32%	12.14%	-1.49%	15.34%	
S&P/ASX 50	7,061.80	0.71	-0.78%	-0.59%	3.60%	-0.44%	-2.10%	-11.12%	12.37%	-4.86%	19.07%	
S&P/ASX 50 Accumulation	87,912.70	0.90	-0.78%	-0.59%	3.91%	4.44%	-0.12%	-10.55%	17.00%	-1.94%	24.43%	
S&P/ASX Midcap 50	9,193.30	0.61	-1.15%	-1.59%	1.58%	-5.86%	3.88%	-14.95%	18.46%	14.48%	17.68%	
S&P/ASX Small Ordinaries	2,866.70	0.28	-1.17%	-1.63%	1.93%	-18.78%	-1.45%	-20.79%	14.24%	6.62%	17.88%	
S&P/ASX 200	7,229.39	0.69	-0.85%	-0.75%	3.29%	-2.89%	-1.43%	-12.42%	13.02%	-1.45%	18.38%	
S&P/ASX 200 Accumulation	87,362.53	0.87	-0.85%	-0.73%	3.57%	1.45%	0.39%	-11.90%	17.23%	1.40%	23.40%	
S&P/ASX 300	7,193.39	0.66	-0.87%	-0.83%	3.17%	-3.50%	-1.34%	-12.73%	13.38%	-1.10%	18.77%	
S&P/ASX 200 Energy	11,085.70	0.79	-2.02%	-3.66%	-5.23%	40.32%	2.29%	1.45%	-1.97%	-29.93%	18.24%	
S&P/ASX 200 Materials	18,226.90	0.78	0.22%	2.96%	10.12%	8.88%	-2.85%	-16.19%	6.84%	13.37%	22.09%	
S&P/ASX 200 Industrials	6,450.80	0.69	-1.08%	-2.23%	2.23%	-2.93%	-6.34%	-2.18%	11.24%	-14.10%	22.62%	
S&P/ASX 200 Consumer Discretionary	2,870.80	0.28	-1.80%	-2.26%	-0.11%	-18.67%	-1.96%	-15.08%	21.31%	8.63%	27.23%	
S&P/ASX 200 Consumer Staples	12,702.60	0.33	-1.29%	-0.62%	2.70%	-6.21%	-4.33%	-3.40%	7.13%	3.57%	17.98%	
S&P/ASX 200 Healthcare	42,943.10	0.64	-0.74%	-0.85%	5.71%	-4.96%	2.64%	-1.93%	7.98%	2.97%	41.23%	
S&P/ASX 200 Financials	6,466.70	0.66	-0.80%	-1.84%	-0.13%	-1.07%	0.66%	-14.87%	20.20%	-9.00%	7.39%	
S&P/ASX 200 Information Technology	1,423.50	0.17	-3.29%	-4.28%	1.04%	-33.41%	2.53%	-27.19%	-2.79%	56.35%	31.81%	
S&P/ASX 200 Telecommunication Services	1,451.90	0.37	-1.33%	0.21%	3.83%	-10.93%	-0.87%	-10.12%	28.46%	0.91%	22.31%	
S&P/ASX 200 Utilities	8,393.90	0.89	-1.37%	-1.20%	14.37%	25.41%	-13.62%	0.61%	4.56%	-21.52%	10.09%	
S&P/ASX 200 A-REIT	1,365.90	0.27	-1.37%	-3.31%	2.46%	-22.15%	-7.53%	-18.85%	21.61%	-7.99%	14.01%	
S&P/ASX 200 Financial-x-A-REIT	7,212.60	0.66	-0.80%	-1.83%	-0.13%	-1.07%	0.66%	-14.87%	20.20%	-8.99%	7.39%	
North American												
DJIA	33,597.92	0.60	0.00%	-2.87%	3.33%	-7.54%	-6.66%	-11.25%	18.73%	7.25%	22.34%	
S&P 500	3,933.92	0.29	-0.19%	-3.58%	4.94%	-17.46%	-5.28%	-16.45%	26.89%	16.26%	28.88%	
NASDAQ	10,958.55	0.12	-0.51%	-4.44%	5.85%	-29.95%	-4.11%	-22.44%	21.39%	43.64%	35.23%	
Toronto S&P/TSX	19,973.22	0.46	-0.08%	-2.35%	3.25%	-5.89%	-2.21%	-13.84%	21.74%	2.17%	19.13%	
Europe												
FTSE	7,489.19	0.78	-0.43%	-1.11%	2.64%	1.42%	-3.84%	-4.61%	14.30%	-14.34%	12.10%	
DAX	14,261.19	0.53	-0.57%	-0.94%	4.35%	-10.22%	-5.24%	-11.31%	15.79%	3.55%	25.48%	
CAC 40	6,660.59	0.58	-0.41%	-1.16%	3.58%	-6.88%	-2.71%	-11.07%	28.85%	-7.14%	26.37%	
Asia												
Nikkei	27,686.40	0.64	-0.72%	-1.01%	-0.11%	-3.84%	-1.73%	-5.13%	4.91%	16.01%	18.20%	
Hang Seng	18,814.82	0.40	-3.22%	1.17%	15.02%	-19.59%	-21.21%	-0.62%	-14.08%	-3.40%	9.07%	
Shanghai	3,199.62	0.39	-0.40%	1.53%	4.97%	-12.09%	-11.01%	4.50%	4.80%	13.87%	22.30%	
Sensex	62,410.68	0.93	-0.34%	-1.09%	2.26%	7.14%	8.31%	-9.48%	21.99%	15.75%	14.38%	

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Shading Key:

	52 week high (green = 1), low (red = 0) or shaded in-between
	2 standard deviation move up (5%)
	1 standard deviation move up (33%)
	1 standard deviation move down (33%)
	2 standard deviation move down (5%)

These estimates are based upon the last 256 daily moves of each instrument

		07-Dec-22	52 wk	Movement for the period				Q3 2022	Q2 2022	2021	2020	2019		
				Day	Week	Month	YTD							
Indices														
MSCI World USD Index		2,662.07	0.33	0.00%	-0.04%	4.20%	-17.63%	-6.58%	-16.60%	20.14%	14.06%	25.19%		
MSCI World Net TR USD Index		8,161.71	0.36	0.00%	-2.14%	4.34%	-16.34%	-7.21%	-15.26%	21.82%	15.90%	27.67%		
MSCI ACWI-ex-Australia TR AUD Index		13,738.40	0.46	-0.57%	0.10%	1.61%	-9.54%	-0.72%	-7.44%	29.58%	5.73%	27.97%		
MSCI ACWI Net TR USD Index		324.35	0.36	0.00%	0.23%	4.77%	-16.63%	-7.85%	-14.72%	18.54%	16.25%	26.60%		
MSCI ACWI Minimum Volatility USD		2,136.46	0.42	-0.13%	-1.21%	4.05%	-11.24%	-6.69%	-9.77%	11.95%	0.56%	18.50%		
MSCI EM Asia Net TR USD Index		576.28	0.38	0.00%	0.86%	11.74%	-19.77%	-14.96%	-8.32%	-5.08%	28.38%	19.24%		
MSCI EM Net TR USD Index		493.41	0.34	0.00%	0.09%	8.29%	-18.88%	-12.65%	-10.36%	-2.54%	18.31%	18.42%		
VIX Volatility S&P500		22.68	0.31	2.30%	10.20%	-13.07%	31.71%	10.14%	39.64%	-24.31%	65.09%	-45.79%		
Commodities														
Light Crude WTI Futures		US\$/bbl	72.01	0.07	-3.02%	-10.60%	-16.10%	-4.80%	-24.84%	5.46%	55.89%	-20.54%	34.46%	
Brent Crude		US\$/bbl	77.38	0.10	-2.48%	-9.42%	-16.26%	-1.02%	-23.39%	6.39%	50.93%	-21.52%	22.68%	
Gold		US\$/oz	1,798.00	0.41	0.88%	2.16%	4.92%	-1.85%	-7.49%	-7.51%	-3.34%	24.42%	18.87%	
Silver		US\$/oz	22.92	0.57	2.63%	5.24%	7.48%	-2.11%	-6.45%	-19.02%	-11.35%	47.38%	15.32%	
Copper		US\$/lb	3.86	0.36	1.11%	3.28%	4.34%	-13.65%	-8.02%	-21.91%	27.05%	25.81%	6.31%	
Iron Ore		US\$/mt	101.76	0.34	1.33%	5.96%	19.99%	-9.67%	-18.16%	-16.56%	-27.05%	81.97%	20.45%	
Malaysian Palm Oil* RM/tn			3,911	0.14	-3.17%	-4.59%	-5.65%	-24.19%	-34.61%	-20.39%	32.59%	27.95%	51.75%	
LNG *Jap/Korea		US\$/mmBtu	33.35	0.27	1.54%	0.12%	20.27%	9.36%	0.17%	9.10%	113.25%	169.81%	-41.08%	
ICCO Cocoa		US\$/mt	2,442	0.41	0.21%	-0.37%	-3.55%	-3.10%	2.75%	-13.55%	-3.19%	2.48%	5.13%	
ICO Coffee		US cents/lb	158	0.06	-2.08%	-5.96%	-4.51%	-30.25%	-5.16%	3.18%	76.30%	-1.12%	27.34%	
Equities														
Domestic														
		PGK	Arbitrage	Percentage changes										
			PNGX											
Bank South Pacific			11.52	12.41	0.59	0.00%	0.00%	0.00%	1.31%	0.08%	2.90%	2.08%	1.87%	14.81%
Credit Corporation				1.90	1.00	0.00%	0.00%	0.00%	13.10%	0.00%	15.63%	-1.18%	6.25%	18.52%
City Pharmacy				0.95	0.06	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	90.00%	-38.27%	24.62%
Kina Asset Management Limited				0.95		0.00%	0.00%	0.00%	-4.04%	-5.00%	0.00%	10.00%	-5.26%	0.00%
Kina Securities Limited			1.89	2.84	0.47	-0.35%	-1.39%	-2.07%	-3.73%	-3.33%	0.00%	-1.67%	-10.98%	27.17%
Steamship Trading Company			24.87	35.46		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Santos Limited			16.98	19.10	1.00	0.00%	0.00%	0.00%		0.53%	2.70%			
Australia														
A2 Milk Company Limited			6.36	0.90		-0.47%	2.58%	10.99%	16.48%	23.01%	-15.90%	-52.31%	-19.93%	38.57%
ANZ Banking Group Limited			24.03	0.38		-1.44%	-2.87%	-2.12%	-12.65%	3.50%	-20.18%	21.19%	-7.84%	0.70%
BSP Financial Group			4.87	0.43		2.42%	0.31%	3.51%	13.93%	1.01%	3.13%	-17.88%		
BHP Billiton Limited			46.60	0.62		0.09%	2.37%	13.16%	12.29%	-6.62%	-20.29%	-2.19%	9.02%	13.70%
Boral Limited			3.06	0.14		-1.29%	0.99%	9.68%	-49.84%	3.09%	-25.14%	23.23%	10.49%	-9.31%
Bougainville Copper Limited			0.28	0.22		-11.29%	-1.79%	-6.78%	-9.84%	-15.15%	-56.00%	5.17%	-10.77%	103.13%
Bank of Queensland			7.10	0.29		-0.70%	-1.11%	-2.61%	-12.24%	-2.40%	-23.16%	4.52%	6.76%	-25.26%
Brambles Limited			11.96	0.70		-1.40%	-1.24%	3.37%	12.51%	6.54%	8.07%	0.28%	-9.56%	15.47%
Commonwealth Bank of Australia			105.55	0.83		-0.84%	-2.14%	0.74%	4.50%	0.35%	-14.55%	23.01%	2.77%	10.37%
CSL			299.19	0.94		-0.53%	-0.31%	7.00%	2.91%	5.93%	0.34%	2.66%	2.69%	48.93%
Fortescue Mining			21.17	0.80		2.27%	9.24%	23.66%	10.20%	-4.05%	-15.15%	-18.01%	119.18%	155.13%
Horizon Oil Ltd			0.13	0.58		0.00%	-3.70%	-7.14%	41.30%	9.26%	8.00%	48.39%	-48.33%	20.00%
Kina Securities Ltd			0.80	0.20		0.00%	-6.43%	-6.98%	-6.43%	5.59%	-5.85%	-5.00%	-39.60%	56.84%
Kina Petroleum Ltd			0.06			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-1.72%
Macquarie Group Ltd			173.64	0.36		-1.75%	-2.84%	1.28%	-15.46%	-7.15%	-19.07%	48.32%	0.46%	26.88%
Mirvac Group			2.20	0.29		-0.45%	-1.35%	4.76%	-24.40%	-1.52%	-20.68%	10.23%	-16.98%	41.96%
National Australia Bank			30.65	0.62		-1.22%	-2.82%	-3.19%	6.28%	5.18%	-15.33%	27.61%	-8.24%	2.33%
Newcrest Mining Limited			20.80	0.39		1.12%	5.00%	7.16%	-15.03%	-19.00%	-21.88%	-5.04%	-14.78%	38.76%
Origin Energy Ltd			7.76	0.93		-1.15%	-1.27%	33.56%	48.09%	-9.77%	-8.03%	10.08%	-43.67%	30.60%
Pilbara Minerals Ltd			4.71	0.77		2.17%	1.07%	-14.36%	47.19%	99.13%	-28.44%	267.82%	210.71%	-55.20%
Qbe Insurance Group Ltd			13.24	1.00		1.92%	2.87%	2.48%	16.65%	-5.10%	5.65%	33.06%	-33.77%	27.52%
Rio Tinto Limited			115.50	0.69		-0.48%	5.36%	17.10%	15.37%	-9.07%	-13.78%	-12.05%	13.38%	27.95%
ResMed Inc			32.83	0.56		0.00%	-1.85%	0.67%	-8.24%	10.23%	-5.34%	31.40%	24.34%	37.56%
Santos Limited			7.17	0.40		-1.10%	-3.11%	-6.15%	13.63%	-4.45%	-4.13%	0.64%	-23.35%	49.27%
Steamship Trading Company			10.50	0.38		0.00%	0.00%	0.00%	5.00%	-15.83%	18.93%	1.52%	-21.20%	-33.16%
Suncorp Metway Limited			11.84	0.82		1.46%	-0.67%	-0.75%	6.96%	-8.65%	-1.26%	13.66%	-24.85%	2.61%
Sydney Airport			8.72	1.00		0.00%	0.00%	0.00%	0.46%	0.00%	0.00%	35.41%	-25.98%	28.68%
Transurban Group			13.77	0.62		-1.85%	-3.64%	1.03%	-0.36%	-14.19%	6.13%	1.17%	-8.38%	27.98%
Telstra Corporation Limited			4.01	0.54		-0.50%	0.75%	2.04%	-4.07%	0.00%	-2.78%	40.27%	-15.82%	24.21%
Treasury Wine Estates Limited			13.71	0.90		-1.72%	-0.65%	7.78%	10.74%	10.75%	-1.99%	31.70%	-42.12%	9.73%
Westpac Banking Corporation			23.57	0.80		-0.76%	-0.84%	-0.63%	10.40%	5.85%	-19.55%	10.22%	-20.06%	-3.23%
Worley Limited			14.33	0.78		-2.25%	-3.04%	-5.16%	34.81%	-10.60%	10.30%	-7.48%	-24.95%	34.06%
Woolworths Limited			34.17	0.25		-1.73%	-0.87%	2.92%	-10.10%	-4.63%	-4.46%	-3.31%	8.71%	22.91%
International														
iShare MSCI All Asia ex Japan		USD \$	65.84	0.35		-0.71%	-1.27%	11.76%	-20.40%	-15.24%	-7.81%	-7.74%	22.19%	15.56%
Blackrock Int Equity Fund*		AUD \$	19.40	0.31		-0.57%	0.11%	1.64%	-13.58%	-4.75%	-8.50%	24.76%	-0.61%	23.52%
Blackrock Australian Equity Fund*		AUD \$	1.79	0.55		-0.50%	0.56%	4.95%	-7.68%	-6.55%	-10.96%	11.82%	-2.28%	19.10%
Vanguard International Share*		AUD \$	2.68	0.35		-0.57%	0.11%	1.63%	-13.25%	-2.83%	-8.11%	23.54%	-0.10%	22.72%
Vanguard FTSE World exUS		USD \$	51.19	0.39		-0.14%	-1.37%	8.41%	-16.47%	-11.21%	-13.25%	5.00%	8.58%	17.92%
Vanguard FTSE Europe		USD \$	56.47	0.47		-0.09%	-0.56%	9.88%	-17.25%	-12.63%	-15.19%	13.28%	2.80%	20.53%
iShares Core MSCI Europe		USD \$	48.27	0.47		-0.02%	-0.60%	9.85%	-17.00%	-12.06%	-15.81%	13.42%	2.83%	20.66%
iShares Asia 50		USD \$	57.40	0.34		-1.12%	-1.37%	15.80%	-25.03%	-20.43%	-8.58%	-12.17%	32.08%	19.35%
iShares MSCI Japan		USD \$	54.75	0.32		0.29%	-1.88%	7.31%	-18.23%	-7.53%	-14.25%	-0.89%	14.04%	16.87%
Acadian Global Managed Volatility Equity Fund			1.59	0.48		0.01%	0.56%	1.40%	-7.09%	-6.92%	-2.24%	10.44%	-11.46%	8.12%
Lazard Global Managed Volatility Fund - Australia*			1.04	0.27		0.23%	0.33%	1.62%	-12.82%	-16.44%	-0.19%	19.66%	-22.67%	14.95%
Robeco Emerging Conservative Equity Fund - Australia			1.32	0.19		-0.13%	0.45%	0.74%	-9.91%	-5.34%	-2.96%	13.49%	-15.41%	10.42%

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