

PERIOD: October – December 2022		Adverse to client slippage as % of overall adverse slippage											As a % of overall trades			Beneficial to client slippage as % of overall beneficial slippage										
INSTRUMENT	Round used to control extent of adverse slippage as % of overall adverse slippage	Adverse to client slippage as % of overall adverse slippage											As a % of overall trades			Beneficial to client slippage as % of overall beneficial slippage										
		> 10 PIPS	10 - 9 PIPS	9 - 8 PIPS	8 - 7 PIPS	7 - 6 PIPS	6 - 5 PIPS	5 - 4 PIPS	4 - 3 PIPS	3 - 2 PIPS	2 - 1 PIPS	1 - 0 PIPS	Adverse to client slippage	No slippage	Beneficial to client slippage	0 - 1 PIPS	1 - 2 PIPS	2 - 3 PIPS	3 - 4 PIPS	4 - 5 PIPS	5 - 6 PIPS	6 - 7 PIPS	7 - 8 PIPS	8 - 9 PIPS	9 - 10 PIPS	> 10 PIPS
AU200/AUD	0.00%	0.00%	0.00%	1.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.85%	94.23%	6.63%	98.14%	5.23%	95.12%	4.88%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
AUD/CAD	0.03%	2.63%	0.54%	0.09%	0.41%	0.36%	0.73%	0.27%	0.36%	0.54%	4.35%	89.71%	21.69%	56.88%	21.43%	93.30%	3.85%	1.33%	0.37%	0.41%	0.28%	0.05%	0.00%	0.09%	0.00%	0.32%
AUD/CHF	0.01%	2.79%	0.00%	0.00%	0.07%	0.40%	0.13%	0.40%	0.13%	0.20%	1.86%	94.03%	21.58%	58.12%	20.30%	97.25%	1.55%	0.14%	0.85%	0.07%	0.14%	0.00%	0.00%	0.00%	0.00%	0.00%
AUD/JPY	0.12%	2.46%	0.10%	0.49%	0.36%	0.07%	0.26%	0.30%	0.59%	1.35%	5.09%	88.83%	26.86%	49.97%	25.17%	92.29%	4.87%	0.74%	0.35%	0.21%	0.46%	0.25%	0.18%	0.00%	0.11%	0.56%
AUD/NZD	0.10%	5.29%	1.29%	0.24%	0.12%	0.94%	0.71%	2.00%	1.18%	0.82%	3.17%	84.25%	16.26%	69.11%	14.63%	94.26%	3.52%	0.65%	0.78%	0.13%	0.26%	0.00%	0.00%	0.00%	0.13%	0.26%
AUD/SGD	0.00%	6.04%	0.67%	2.01%	0.00%	4.03%	0.00%	0.67%	1.34%	0.00%	14.09%	71.14%	17.05%	58.70%	24.26%	92.92%	1.42%	2.36%	0.94%	0.47%	1.89%	0.00%	0.00%	0.00%	0.00%	0.00%
AUD/USD	0.06%	1.26%	0.22%	0.04%	0.30%	0.26%	0.26%	0.30%	0.26%	0.69%	3.51%	92.89%	19.99%	60.67%	19.34%	94.23%	2.96%	0.85%	0.58%	0.23%	0.21%	0.21%	0.25%	0.04%	0.14%	0.29%
BCO/USD	0.05%	0.48%	0.14%	0.19%	0.30%	0.45%	0.69%	1.42%	3.62%	6.43%	36.62%	49.68%	20.48%	59.27%	20.25%	48.67%	37.20%	6.70%	3.99%	1.50%	0.54%	0.31%	0.18%	0.10%	0.11%	0.48%
CAD/CHF	0.02%	1.43%	0.00%	0.00%	0.00%	0.11%	0.06%	0.17%	0.17%	0.23%	1.48%	96.34%	20.61%	58.66%	20.73%	97.50%	1.53%	0.23%	0.23%	0.00%	0.17%	0.17%	0.17%	0.00%	0.00%	0.00%
CAD/JPY	0.01%	2.91%	0.42%	0.33%	0.19%	0.22%	0.52%	0.29%	0.59%	1.02%	4.85%	86.68%	31.33%	38.47%	30.20%	91.70%	5.22%	1.24%	0.46%	0.22%	0.13%	0.28%	0.18%	0.04%	0.03%	0.48%
CAD/SGD	0.00%	9.81%	0.00%	0.21%	1.71%	0.43%	0.00%	0.00%	1.71%	3.84%	4.48%	77.83%	31.95%	42.03%	26.02%	90.31%	3.40%	1.57%	0.00%	1.57%	1.05%	0.79%	1.31%	0.00%	0.00%	0.00%
CH20/CHF	0.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	15.00%	75.00%	12.58%	79.87%	7.55%	91.67%	8.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CHF/JPY	0.07%	21.14%	1.93%	1.04%	1.69%	1.27%	0.47%	1.74%	1.65%	4.52%	9.42%	55.13%	29.36%	48.68%	21.66%	72.37%	8.50%	3.27%	3.59%	2.20%	4.22%	1.07%	0.13%	1.64%	0.13%	2.89%
CHINA/HKD	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.03%	15.15%	81.82%	0.00%	3.59%	92.82%	3.59%	6.06%	69.70%	6.06%	15.15%	3.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CNO/USD	0.00%	0.66%	0.00%	0.00%	0.00%	0.00%	0.00%	0.66%	3.97%	6.62%	13.25%	74.83%	19.66%	57.94%	22.40%	60.47%	24.42%	9.88%	1.16%	2.33%	1.16%	0.00%	0.00%	0.58%	0.00%	0.00%
CORN/USD	0.20%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	2.56%	95.67%	1.77%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
DE10Y/EUR	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.08%	3.23%	6.45%	35.48%	53.76%	11.18%	79.57%	9.25%	58.44%	25.97%	14.29%	1.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
DE30/EUR	1.00%	0.37%	0.09%	0.09%	0.19%	0.28%	0.31%	0.74%	1.79%	4.82%	15.71%	75.62%	24.02%	55.79%	20.19%	79.65%	12.83%	3.87%	1.55%	0.77%	0.36%	0.22%	0.18%	0.11%	0.11%	0.35%
ESPIX/EUR	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	66.67%	33.33%	1.99%	97.35%	0.66%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EU50/EUR	0.00%	0.75%	0.38%	0.38%	0.00%	0.00%	0.00%	0.00%	0.75%	1.89%	9.81%	86.04%	6.71%	86.65%	6.64%	93.13%	6.11%	0.38%	0.00%	0.00%	0.00%	0.38%	0.00%	0.00%	0.00%	0.00%
EUR/AUD	1.59%	1.04%	0.08%	0.05%	0.01%	0.13%	0.22%	0.39%	0.61%	1.24%	5.72%	90.50%	35.17%	30.44%	34.39%	92.35%	5.80%	0.94%	0.55%	0.08%	0.04%	0.08%	0.05%	0.05%	0.01%	0.06%
EUR/CAD	0.12%	8.97%	0.61%	0.61%	0.93%	0.65%	0.77%	1.06%	1.42%	5.52%	77.88%	27.16%	49.08%	23.76%	91.05%	4.92%	1.16%	1.07%	0.42%	0.14%	0.09%	0.09%	0.23%	0.19%	0.65%	
EUR/CHF	0.03%	3.48%	0.19%	0.24%	0.34%	0.24%	0.39%	0.15%	0.24%	0.63%	1.84%	92.26%	21.44%	58.71%	19.85%	96.45%	2.14%	0.42%	0.31%	0.05%	0.42%	0.00%	0.16%	0.00%	0.00%	0.05%
EUR/DKK	0.00%	10.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.26%	0.00%	84.21%	6.33%	85.67%	8.00%	95.83%	0.00%	0.00%	0.00%	0.00%	4.17%	0.00%	0.00%	0.00%	0.00%	0.00%
EUR/GBP	0.04%	0.22%	0.10%	0.17%	0.15%	0.05%	0.12%	0.07%	0.12%	0.66%	2.54%	95.80%	20.34%	59.13%	20.53%	97.39%	1.82%	0.24%	0.07%	0.02%	0.02%	0.00%	0.00%	0.00%	0.00%	0.44%
EUR/JPY	0.10%	3.45%	0.54%	0.50%	0.23%	0.62%	0.50%	1.00%	1.33%	2.22%	6.22%	83.93%	26.45%	48.40%	25.15%	68.00%	6.30%	1.86%	1.53%	0.33%	0.48%	0.33%	0.28%	0.20%	0.07%	0.63%
EUR/NOK	0.00%	17.19%	1.40%	1.40%	3.86%	1.40%	9.47%	5.26%	14.04%	11.93%	19.30%	14.74%	28.79%	45.45%	25.76%	13.73%	21.57%	16.08%	9.80%	9.02%	6.67%	2.35%	2.35%	0.78%	0.78%	16.86%
EUR/NZD	0.03%	9.36%	3.56%	3.06%	1.50%	2.50%	0.87%	1.87%	1.93%	3.93%	16.34%	55.08%	22.72%	60.14%	17.14%	69.89%	14.23%	5.96%	2.48%	0.74%	0.83%	0.58%	0.99%	0.25%	1.32%	2.73%
EUR/PLN	0.22%	4.82%	0.00%	0.00%	0.00%	0.00%	0.00%	3.61%	6.02%	19.28%	66.27%	17.93%	62.42%	19.65%	91.32%	8.22%	4.12%	0.00%	1.03%	4.12%	4.12%	3.03%	3.03%	0.00%	0.00%	0.00%
EUR/SGD	0.00%	32.12%	2.55%	0.73%	0.73%	2.92%	7.66%	6.93%	3.65%	0.73%	4.01%	37.96%	29.62%	51.03%	19.35%	43.58%	18.44%	26.26%	0.56%	0.56%	2.23%	0.00%	0.56%	2.79%	0.56%	4.47%
EUR/USD	0.74%	0.52%	0.03%	0.06%	0.07%	0.06%	0.08%	0.09%	0.22%	0.75%	4.09%	94.04%	24.41%	52.07%	23.52%	94.13%	4.21%	0.82%	0.25%	0.12%	0.08%	0.04%	0.02%	0.05%	0.02%	0.27%
FR40/EUR	0.00%	5.45%	0.00%	0.00%	0.27%	0.00%	0.54%	0.27%	1.91%	4.09%	17.98%	69.48%	11.19%	81.07%	7.74%	82.68%	9.84%	1.18%	1.57%	0.39%	0.79%	0.00%	0.00%	0.39%	3.15%	0.00%
GBP/AUD	0.02%	12.91%	2.03%	1.62%	1.13%	0.96%	1.48%	1.04%	1.13%	4.35%	11.25%	62.09%	32.61%	42.88%	24.51%	80.63%	10.96%	3.01%	1.04%	0.93%	0.89%	0.81%	0.46%	0.08%	0.04%	1.16%
GBP/CAD	0.05%	11.47%	0.48%	0.62%	1.15%	0.84%	1.20%	0.92%	1.71%	2.91%	7.86%	70.84%	33.86%	36.09%	30.05%	85.25%	7.41%	2.43%	1.45%	0.91%	0.57%	0.28%	0.19%	0.35%	0.16%	1.01%
GBP/CHF	0.08%	5.67%	1.42%	0.39%	0.54%	0.39%	0.54%	0.49%	0.49%	1.42%	4.79%	83.87%	25.64%	50.46%	23.91%	91.93%	4.98%	1.21%	0.47%	0.21%	0.26%	0.21%	0.16%	0.16%	0.05%	0.37%
GBP/JPY	0.06%	2.98%	0.21%	0.19%	0.18%	0.69%	0.73%	0.44%	1.00%	2.17%	7.44%	83.98%	30.24%	40.40%	29.36%	86.22%	7.56%	2.23%	0.96%	0.55%	0.53%	0.38%	0.28%	0.10%	0.08%	1.12%
GBP/NZD	0.00%	16.62%	1.66%	0.69%	0.49%	0.36%	0.89%	0.93%	1.95%	3.00%	13.70%	59.71%	35.14%	39.75%	25.11%	82.02%	10.61%	2.04%	1.36%	0.34%	0.91%	0.06%	0.34%	0.06%	0.28%	1.99%
GBP/PLN	0.00%	3.80%	0.00%	0.84%	0.84%	2.53%	2.53%	2.11%	3.38%	9.28%	27.43%	47.26%	28.66%	41.96%	29.38%	47.33%	30.04%	9.05%	4.94%	2.47%	1.65%	2.06%	0.82%	0.00%	0.00%	1.65%
GBP/SGD	0.00%	23.32%	1.01%	0.17%	1.01%	0.84%	1.01%	3.02%	4.87%	6.88%	6.21%	51.68%	46.17%	29.28%	24.55%	73.50%	11.67%	3.15%	3.15%	3.47%	0.00%	1.58%	0.00%	0.32%	0.00%	3.15%
GBP/USD	0.02%	0.62%	0.07%	0.07%	0.09%	0.14%	0.16%	0.23%	0.41%	1.28%	6.16%	90.78%	26.34%	47.48%	26.18%	91.76%	5.96%	1.18%	0.38%	0.20%	0.12%	0.08%	0.05%	0.05%	0.04%	0.18%
HKD/JPY	0.00%	39.36%	0.53%	2.13%	2.66%	4.26%	7.45%	0.53%	6.91%	12.77%	13.83%	9.57%	27.49%	45.91%	26.61%	10.44%	23.08%	12.64%	6.59%	2.20%	3.30%	4.95%	2.20%	2.75%	1.10%	30.77%
JP225/USD	0.00%	0.75%	0.75%	0.00%	0.00%	0.00%	0.00%	18.66%	0.00%	42.54%	37.31%	0.00%	9.07%	81.12%	9.81%	0.00%	37.93%	41.38%	0.00%	15.17%	0.00%	2.07%	0.00%	0.69%	0.69%	0.00%
JP225/JPY	0.00%	0.00%	0.00%	0.00%	0.00%	1.54%	0.00%	15.38%	0.00%	47.69%	35.38%	0.00%	10.37%	82.30%	7.34%	0.00%	39.13%	28.26%	0.00%	23.91%	0.00%	8.70%	0.00%	0.00%	0.00%	0.00%
NAS100/USD	0.03%	0.43%	0.13%	0.14%	0.23%	0.36%	0.55%	1.01%	2.12%	5.30%	17.16%	72.56%	31.64%	35.84%	32.52%	70.71%	16.78%	5.50%	2.43%	1.23%	0.80%	0.59%	0.29%	0.31%	0.23%	1.14%
NATGAS/USD	0.07%	0.47%	0.02%	0.00%	0.02%	0.25%	0.04%	0.08%	0.10%	0.39%	1.68%	96.96%	10.07%	79.66%	10.27%	96.56%	1.80%	0.27%	0.31%	0.46%	0.17%	0.15%	0.00%	0.00%	0.00%	0.29%
NL25/EUR	0.09%	15.97%	1.68%	4.20%	3.36%	5.04%	13.45%	10.92%	13.45%	2.52%	26.89%	2.52%	10.64%	76.65%	12.70%	1.41%	2.13%	2.11%	12.68%	13.38%	10.56%	7.04%	0.70%	7.75%	2.11%	21.13%
NZD/CAD	0.03%	7.61%	1.67%	0.36%	1.01%	0.65%	0.65%	2.10%	1.16%	1.38%	2.97%	80.43%	22.74%	58.37%	18.89%	89.88%	2.53%	1.57%	0.87%	0.52%	1.57%	0.87%	0.26%	1.75%	0.09%	0.