

DTCC DATA SERVICES MARKET INTELLIGENCE: CDS KINETICS, CREDIT DEFAULT SWAPS DATA

On a weekly rotating basis, credit default swaps (CDS) contracts for the top 15 sovereign reference entities or the top 15 corporate reference entities by net notional amount – both with their respective top 10 volume movers by percentage change based on the net notional amount registered in DTCC's Trade Information Warehouse (TIW) - will be available on www.dtccdata.com.

The tables will continue to be provided to you free of charge. To access more comprehensive data on the total size of the global CDS market and other items, please contact us at www.dtccdata.com/contact-us-sales. To learn more about additional product details and the entire DTCC Data Services suite of offerings visit www.dtccdata.com/contact-us-sales. To learn more about additional product details and the entire DTCC Data Services suite of offerings visit www.dtccdata.com/contact-us-sales.

DTCC's Trade Information Warehouse contains approximately 98% of all CDS trades executed globally.

| | 1 | | 1 | 1 | | | |
|-------------------------------|------|--------------------------|-------------------------------|--------------------------------|---------------------------------|----------------------------|-----------|
| Reference Entity | Туре | Net Notional (USD EQ) | Net % Change vs 1 Week Ago | Net % Change vs 4 Weeks Ago | Net % Change vs 52 Weeks Ago | Gross Notional (USD EQ) | Contracts |
| REPUBLIC OF ITALY | SOV | 12,155,448,702 | -0.88% | 2.32% | 15.55% | 197,070,046,729 | 6,994 |
| PEOPLE'S REPUBLIC OF CHINA | SOV | 9,087,205,658 | 0.50% | -1.40% | -13.28% | 83,451,810,141 | 4,797 |
| UNITED MEXICAN STATES | SOV | 8,954,129,450 | -0.01% | 2.37% | -16.31% | 71,006,420,085 | 6,841 |
| REPUBLIC OF KOREA | SOV | 8,828,224,433 | -0.69% | -1.76% | -19.75% | 101,152,384,931 | 3,642 |
| FEDERATIVE REPUBLIC OF BRAZIL | SOV | 7,070,335,333 | 1.11% | 0.46% | -34.80% | 64,832,868,584 | 5,569 |
| REPUBLIC OF SOUTH AFRICA | SOV | 6,299,597,504 | 0.84% | -1.65% | 5.45% | 54,690,817,744 | 5,828 |
| FRENCH REPUBLIC | SOV | 5,535,126,511 | 0.49% | -0.94% | 1.97% | 43,914,678,058 | 1,525 |
| RUSSIAN FEDERATION | SOV | 4,874,156,059 | 1.56% | 1.90% | -14.04% | 45,930,754,491 | 4,049 |
| REPUBLIC OF TURKEY | SOV | 4,785,292,367 | 1.66% | 2.52% | -28.73% | 80,675,251,459 | 6,331 |
| REPUBLIC OF INDONESIA | SOV | 3,562,516,407 | 3.32% | 12.35% | -32.66% | 45,132,425,244 | 3,815 |
| JAPAN | SOV | 3,389,740,522 | -0.01% | -0.22% | -20.03% | 18,810,329,167 | 2,010 |
| KINGDOM OF SPAIN | SOV | 3,230,611,729 | -0.09% | 1.08% | -15.28% | 33,299,873,727 | 1,550 |
| COMMONWEALTH OF AUSTRALIA | SOV | 2,981,796,369 | -0.38% | 1.84% | -18.02% | 18,355,736,339 | 617 |
| KINGDOM OF SAUDI ARABIA | SOV | 2,943,326,951 | -0.59% | -2.66% | -9.29% | 20,814,276,912 | 2,448 |
| HELLENIC REPUBLIC | SOV | 2,827,407,800 | 0.35% | -2.58% | 8.60% | 13,248,125,300 | 1,912 |

Top 10 Sovereign Reference Entities by Net Notional Change vs 1 Week Ago

| Reference Entity | Туре | Net Notional (USD EQ) | Net % Change vs 1 Week Ago | Net % Change vs 4 Weeks Ago | Net % Change vs 52 Weeks Ago | Gross Notional (USD EQ) | Contracts |
|-----------------------------|------|--------------------------|-------------------------------|--------------------------------|---------------------------------|----------------------------|-----------|
| ARGENTINE REPUBLIC | SOV | 349,165,887 | 14.66% | 51.57% | -87.00% | 905,013,887 | 278 |
| ARAB REPUBLIC OF EGYPT | SOV | 213,659,789 | -12.34% | -12.32% | -34.16% | 538,307,211 | 152 |
| REPUBLIC OF POLAND | SOV | 370,194,547 | 5.26% | 4.79% | -19.44% | 1,952,594,769 | 279 |
| REPUBLIC OF CROATIA | SOV | 135,415,425 | -4.07% | 21.38% | -50.62% | 3,561,269,391 | 210 |
| REPUBLIC OF INDONESIA | SOV | 3,562,516,407 | 3.32% | 12.35% | -32.66% | 45,132,425,244 | 3,815 |
| STATE OF QATAR | SOV | 1,907,255,697 | -3.31% | -1.75% | 2.16% | 13,240,379,762 | 1,072 |
| REPUBLIC OF THE PHILIPPINES | SOV | 1,364,876,756 | 2.71% | 2.85% | -13.30% | 15,859,688,921 | 1,501 |
| UKRAINE | SOV | 356,910,000 | 2.35% | 3.07% | 61.86% | 1,481,776,000 | 402 |
| REPUBLIC OF PANAMA | SOV | 582,579,400 | 2.10% | 8.35% | -6.70% | 3,703,833,800 | 472 |
| KINGDOM OF THAILAND | SOV | 789,439,208 | -1.99% | 0.95% | 8.04% | 7,981,919,097 | 708 |

Top 10 Sovereign Reference Entities by Net Notional Change vs 4 Weeks Ago

| Reference Entity | Туре | Net Notional (USD EQ) | Net % Change vs 1 Week Ago | Net % Change vs 4 Weeks Ago | Net % Change vs 52 Weeks Ago | Gross Notional (USD EQ) | Contracts |
|-----------------------------|------|--------------------------|-------------------------------|--------------------------------|---------------------------------|----------------------------|-----------|
| ARGENTINE REPUBLIC | SOV | 349,165,887 | 14.66% | 51.57% | -87.00% | 905,013,887 | 278 |
| FEDERAL REPUBLIC OF GERMANY | SOV | 2,266,346,393 | 0.78% | 22.60% | -19.93% | 12,798,616,484 | 500 |
| REPUBLIC OF CROATIA | SOV | 135,415,425 | -4.07% | 21.38% | -50.62% | 3,561,269,391 | 210 |
| REPUBLIC OF INDONESIA | SOV | 3,562,516,407 | 3.32% | 12.35% | -32.66% | 45,132,425,244 | 3,815 |
| ARAB REPUBLIC OF EGYPT | SOV | 213,659,789 | -12.34% | -12.32% | -34.16% | 538,307,211 | 152 |
| CZECH REPUBLIC | SOV | 73,123,793 | 1.24% | 10.17% | -52.42% | 140,630,268 | 27 |
| STATE OF KUWAIT | SOV | 90,500,000 | 0.00% | -9.95% | -10.84% | 140,500,000 | 10 |
| REPUBLIC OF PANAMA | SOV | 582,579,400 | 2.10% | 8.35% | -6.70% | 3,703,833,800 | 472 |
| KINGDOM OF NORWAY | SOV | 321,000,000 | 0.00% | 6.64% | 1.52% | 497,843,400 | 40 |
| REPUBLIC OF FINLAND | SOV | 405,563,054 | 0.13% | 5.22% | -3.16% | 1,051,780,270 | 85 |