

## 2020 SPX & SPY Liquidity Dashboard

Cboe Exchanges SPY & SPX				National SPY & SPX			
		S&P 500 Index Options	SPY ETF Options			S&P 500 Index Options	SPY ETF Options
January 2020	Open Interest	\$5,688,031,632,128	\$604,814,081,957	January 2020	Open Interest	\$5,688,031,632,128	\$604,814,081,957
	Average	\$453,084,052,854	\$35,809,476,790		Average	\$453,084,052,854	\$106,654,240,164
	Median	\$462,726,697,632	\$32,181,901,262		Median	\$462,726,697,632	\$99,801,640,250
	Maximum	\$629,700,529,240	\$63,677,798,963		Maximum	\$629,700,529,240	\$179,175,458,625
	Minimum	\$319,100,486,448	\$19,524,680,905		Minimum	\$319,100,486,448	\$60,774,899,950
February 2020	Open Interest	\$6,055,995,017,184	\$628,460,574,518	February 2020	Open Interest	\$6,055,995,017,184	\$628,460,574,518
	Average	\$578,147,592,628	\$47,605,599,363		Average	\$578,147,592,628	\$141,317,082,440
	Median	\$492,254,544,375	\$38,212,342,612		Median	\$492,254,544,375	\$109,716,547,622
	Maximum	\$1,061,875,767,414	\$86,234,059,990		Maximum	\$1,061,875,767,414	\$263,445,886,888
	Minimum	\$393,601,574,136	\$27,760,150,416		Minimum	\$393,601,574,136	\$76,111,603,946
March 2020	Open Interest	\$4,846,833,812,085	\$689,297,036,075	March 2020	Open Interest	\$4,846,833,812,085	\$689,297,036,075
	Average	\$525,258,401,870	\$60,717,040,231		Average	\$525,258,401,870	\$173,695,810,121
	Median	\$466,296,967,966	\$57,535,390,986		Median	\$466,296,967,966	\$171,454,779,010
	Maximum	\$870,943,640,710	\$81,804,926,584		Maximum	\$870,943,640,710	\$215,089,724,800
	Minimum	\$344,518,505,955	\$49,234,196,832		Minimum	\$344,518,505,955	\$148,998,648,435
April 2020	Open Interest	\$5,197,050,181,854	\$716,728,667,216	April 2020	Open Interest	\$5,197,050,181,854	\$716,728,667,216
	Average	\$321,555,910,131	\$47,632,370,687		Average	\$321,555,910,131	\$140,037,205,168
	Median	\$325,795,778,277	\$44,558,925,824		Median	\$325,795,778,277	\$137,295,629,184
	Maximum	\$397,825,821,162	\$73,231,364,960		Maximum	\$397,825,821,162	\$203,814,077,220
	Minimum	\$236,442,357,780	\$36,476,320,373		Minimum	\$236,442,357,780	\$113,414,210,790
May 2020	Open Interest	\$5,481,782,161,719	\$752,109,746,784	May 2020	Open Interest	\$5,481,782,161,719	\$752,109,746,784
	Average	\$317,478,211,595	\$45,493,158,271		Average	\$317,478,211,595	\$144,847,045,071
	Median	\$322,353,276,850	\$43,402,189,139		Median	\$322,353,276,850	\$141,927,892,559
	Maximum	\$465,089,628,000	\$65,772,270,080		Maximum	\$465,089,628,000	\$209,054,264,320
	Minimum	\$207,215,680,631	\$31,675,092,704		Minimum	\$207,215,680,631	\$104,523,599,655
June 2020	Open Interest	\$4,593,654,118,737	\$666,646,074,224	June 2020	Open Interest	\$4,593,654,118,737	\$666,646,074,224
	Average	\$377,131,864,217	\$54,053,891,614		Average	\$377,131,864,217	\$172,176,677,302
	Median	\$354,179,369,435	\$48,289,387,997		Median	\$354,179,369,435	\$147,999,200,523
	Maximum	\$608,671,072,816	\$102,531,066,787		Maximum	\$608,671,072,816	\$303,033,102,773
	Minimum	\$229,079,226,949	\$33,052,140,758		Minimum	\$229,079,226,949	\$110,388,737,340
July 2020	Open Interest	\$4,925,664,926,256	\$676,236,176,712	July 2020	Open Interest	\$4,925,664,926,256	\$676,236,176,712
	Average	\$301,437,035,406	\$41,726,210,611		Average	\$301,437,035,406	\$127,356,039,152
	Median	\$298,938,565,514	\$40,300,660,946		Median	\$298,938,565,514	\$128,056,264,603
	Maximum	\$458,244,905,958	\$66,703,482,148		Maximum	\$458,244,905,958	\$194,716,292,724
	Minimum	\$185,063,518,440	\$24,483,784,727		Minimum	\$185,063,518,440	\$78,736,720,403
August 2020	Open Interest	\$5,518,536,241,350	\$795,625,902,032	August 2020	Open Interest	\$5,518,536,241,350	\$795,625,902,032
	Average	\$332,025,894,258	\$43,033,110,898		Average	\$332,025,894,258	\$122,488,420,644
	Median	\$338,785,918,250	\$42,232,207,758		Median	\$338,785,918,250	\$120,176,005,372
	Maximum	\$499,122,614,432	\$60,365,957,600		Maximum	\$499,122,614,432	\$163,966,460,313
	Minimum	\$246,390,941,741	\$27,901,938,311		Minimum	\$246,390,941,741	\$82,609,296,983
September 2020	Open Interest	\$4,918,888,250,700	\$711,931,968,009	September 2020	Open Interest	\$4,918,888,250,700	\$711,931,968,009
	Average	\$396,483,218,063	\$56,746,507,576		Average	\$396,483,218,063	\$156,524,180,926
	Median	\$403,431,399,696	\$56,203,115,184		Median	\$403,431,399,696	\$156,099,184,352
	Maximum	\$594,488,116,344	\$95,013,922,263		Maximum	\$594,488,116,344	\$258,468,530,898
	Minimum	\$215,811,246,393	\$31,182,056,001		Minimum	\$215,811,246,393	\$86,061,887,439
October 2020	Open Interest	\$4,949,806,794,164	\$736,266,195,616	October 2020	Open Interest	\$4,949,806,794,164	\$736,266,195,616
	Average	\$354,422,332,649	\$48,034,750,658		Average	\$354,422,332,649	\$135,414,163,454
	Median	\$332,821,315,257	\$44,192,907,115		Median	\$332,821,315,257	\$129,083,728,875
	Maximum	\$561,644,028,575	\$77,265,673,784		Maximum	\$561,644,028,575	\$221,266,776,926
	Minimum	\$226,716,368,144	\$30,623,554,926		Minimum	\$226,716,368,144	\$97,095,825,558
November 2020	Open Interest	\$5,496,537,710,436	\$787,622,065,460	November 2020	Open Interest	\$5,496,537,710,436	\$787,622,065,460
	Average	\$373,725,168,166	\$53,291,936,239		Average	\$373,725,168,166	\$136,201,627,644
	Median	\$365,442,504,318	\$52,461,920,079		Median	\$365,442,504,318	\$135,145,530,432
	Maximum	\$560,438,968,950	\$77,061,665,920		Maximum	\$560,438,968,950	\$213,010,287,616
	Minimum	\$245,022,861,575	\$27,758,785,632		Minimum	\$245,022,861,575	\$67,186,286,884
December 2020	Open Interest	\$4,717,335,078,217	\$681,726,622,980	December 2020	Open Interest	\$4,717,335,078,217	\$681,726,622,980
	Average	\$397,213,179,810	\$50,399,277,130		Average	\$397,213,179,810	\$128,339,007,736
	Median	\$369,428,044,632	\$46,596,678,846		Median	\$369,428,044,632	\$125,304,693,845
	Maximum	\$606,538,446,954	\$77,736,285,385		Maximum	\$606,538,446,954	\$188,051,198,610
	Minimum	\$241,415,071,804	\$29,639,592,900		Minimum	\$241,415,071,804	\$70,719,588,000