Federal Reserve Timeline of Response to COVID-19

Date	Announcement	FFR (%)	Fed Balance Sheet (mln)	SPX	10yr UST (%)	IG OAS (bps)	Number of Confirmed Cases in the US		Relies on 13.3 (Exigent Clause) / Uses Treasury Capital / Works through an SPV	Treasury Capital Used** (bln)	Bank Regulatory Relief
3/3/2020	50bps rate cut	1.25	4,158,637	3003	1.00	133	106		N		N
3/15/2020	100bps rate cut	0.25	4,311,911	2386	0.72	240	3,487		N		N
	Asset Purchase Program (500bln UST / 200bln Agency MBS)							Original Size: 700	N		N
	US Dollar Swap Lines with Foreign Central Banks (Lowered Cost and Increased Term)								N		N
	Cut Required Reserve ratio requirement								N		Y
	Narrowed Discount Window rate by 50bps versus FFR								N N		N
3/17/2020	Commercial Paper Funding Facility (CPFF)	0.25	4,311,911	2529	1.08	256	5,837	100	Y	10	N
3/18/2020	Primary Dealer Credit Facility (PDCF) Money Markey Liquidity Facility (MMLF)	0.25	4.668.212	2398	1.19	287	8.287	100	Y	10	N Y
3/19/2020	money markey Liquidity Facility (miniLP) Increased Foreign Central Bank participation in US Dollar Swap Lines	0.25	4,668,212	2409	1.19	325	12,241	100	N N	10	N N
3/20/2020	Increased Prequency of US Dollar Swap Lines operations with Foreign Central Banks	0.25	4,668,212	2305	0.85	351	17,589		N N		N N
3/20/2020	MMLF expands to short-dated municipals	0.23	4,000,212	2505	0.03	551	17,505		V		V
3/23/2020	Size of Asset Purchase Program Amended to be open-ended	0.25	4,668,212	2237	0.79	357	43,847	Unlimited	N		N
"""	Expand Asset Purchase Program to include Agency CMBS	0.20	.,000,2.2		00		.0,0		N		N N
	Primary Market Corporate Credit Facility (PMCCF)							Original Size: 100	Ÿ	10	N N
	Secondary Market Corporate Credit Facility (SMCCF)							Original Size: 100	Y	10	N
	Term Asset-Backed Loan Facility (TALF)							100	Υ	10	N
	Expand eligibility of MMLF to Bank CDs and VRDNs								N		N
	Reduce Pricing on CPFF								N		N
	Announced Main Street Lending Program (MSLP)										
3/31/2020	Foreign and International Monetary Authorities (FIMA) Repo Facility	0.25	5,254,278	2585	0.67	271	188,172		N		N
4/1/2020	Exclusion of Treasuries & Reserves within Supplementary Leverage Ratio (SLR)	0.25	5,811,607	2471	0.58	279	216,515		N		Υ
4/6/2020	Financing Facility backed by PPP Loans (PPPLF) – Updated on 4/9/2020 for favorable regulatory treatment	0.25	5,811,607	2664	0.67	256	368,196	350	Y		Υ
4/9/2020	Municipal Liquidity Facility (MLF)	0.25	6,083,141	2815	0.75	228	432,438	500	Y	35	N
	Increase the Size of the PMCCF and SMCCF and expand eligibility to fallen angles (IG as of 3/22/20) and HY ETFs							750 total for 2 programs	Y	75	N
	Established Main Street New Loan and Expanded Loan Facility (MSNLF & MSELF) under previously announced MSLP on March 23rd Expand eligibility of TALF to non-Agency AAA CMBS and AAA CLOs							600	Y	75	N
4/27/2020	Expand the Scope and Duration of the MLF	0.25	6,573,136	2878	0.66	197	983,848	500 (unchanged)	Y	35 (unchanged)	N
4/30/2020	Expand Scope and Eligibility of MSLPs (Main Street New Loan, Priority Loan and Expanded Loan Facilities)	0.25	6,655,929	2927	0.60	194	1,040,608	600 (unchanged)	Y	75 (unchanged)	N
	Expand Access to PPPLF to additional lenders and collateral							650 (upsized post legislation)	Y		Y
5/5/2020	Relief on LCR for MMLF and PPPLF Bank Participants	0.25	6,655,929	2879	0.64	197	1,194,494	() "	.,		Y
5/12/2020	First ETF purchases in the SMCCF	0.25	6,934,227	2870	0.67	205	1,369,574	750 (unchanged)	Y	75 (unchanged)	N
6/3/2020	Expansion of the Scope of the MLF	0.25	7,097,316	3114	0.76	161	1,835,681	500 (unchanged)	Y	35 (unchanged)	N
6/8/2020	Adjust Lending Terms to Expand Use of the Main Street Lending Programs	0.25	7,165,217	3232	0.88	144	1,954,236	600 (unchanged)	Y	75 (unchanged)	N
6/10/2020	Maintain Open-Ended QE at Pace of 80bln Treasuries per Month / 40bln Net (-90bln gross) Agency MBS per month	0.25	7,168,936	3190	0.73	150	2,000,464	Unlimited (unchanged)	,	75 / 1 1	N
6/15/2020	Expand SMCCF to Purchases of Broad and Diversified Portfolio of IG Corporate Bonds	0.25	7,168,936	3069	0.71	158	2,102,765	750bln (unchanged)	Y	75 (unchanged)	N N
6/29/2020	New Term Sheet Released for PMCCF indicating Operational Readiness	0.25	7,082,302	3045	0.64	153	2,562,921	750bln (unchanged)	Y	75 (unchanged)	N
7/17/2020	Modification to MSLP eligibility for nonprofits	0.25	6,958,604	3225	0.63	135	3,647,237	600 (unchanged)	Y	75 (unchanged)	N
7/28/2020	Lending Facility Extension through December 31 (PDCF, MMMLF, PMCCF, SMCCF, TALF, PPPLF, MSLF, MLF, CPFF)	0.25	6,964,755	3236	0.58	132	4,296,461				
8/27/2020	Introduction of Flexible Average Inflation Targeting within Statement on Longer Run Goals and Monetary Policy Strategy	0.25	6,990,418	3485	0.75	130	5,866,053				
9/16/2020	Introduction of new forward guidance (three criteria) to maintain the FFR at the ZLB	0/25	7,064,475	3385	0.70	128	6,629,880	COO (unahana1)	Y	75 (N.
10/30/2020	Term adjustment to MSLP by reducing minimum loan size	0.25	7,146,306	3247	0.85	127	8,950,742	600 (unchanged)	Y	75 (unchanged)	N
11/30/2020	Extend Select Facilities Through March 31st 2021: CPFF, MMLF, PDCF, PPPLF	0.25	7,216,480	3612	0.85	107	13,389,786				
12/31/2020	Expected Expiration of Select Facilities on December 31st, 2020: PMCCF, SMCCF, TALF, MSLF, MLF							<u> </u>			

Source: Bloomberg, Federal Reserve, JPM Asset Management; As of 11/30/2020

