



Supplemental Operational Performance Data

Set forth below are tables that provide supplemental information regarding the operational performance results for the three months ended September 30, 2020, as well as the prior eight quarterly reporting periods for the payment programs of Mastercard Incorporated and its consolidated subsidiaries, including our operating subsidiary, Mastercard International Incorporated (collectively, "Mastercard").

1. Branded Volume and Transactions

The tables below set forth the gross dollar volume ("GDV"), purchase volume, cash volume and the number of purchase transactions, cash transactions, and cards on a regional basis for Mastercard™-branded cards. Growth rates over prior periods are provided for volume-based data.

GDV (\$ Billions)											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	\$445	\$468	\$458	\$479	\$490	\$519	\$471	\$407	\$483	\$1,428	\$1,361
Canada	44	46	39	46	47	49	40	39	45	132	124
Europe	438	458	429	478	508	532	467	396	518	1,415	1,382
Latin America	99	111	105	110	113	123	107	73	88	328	268
Worldwide less United States	1,026	1,083	1,031	1,113	1,159	1,222	1,086	915	1,135	3,303	3,136
United States	442	465	450	486	493	507	478	463	513	1,430	1,454
Worldwide	1,468	1,548	1,481	1,600	1,652	1,730	1,564	1,378	1,648	4,733	4,589
Mastercard Credit and Charge Programs											
Worldwide less United States	535	560	530	559	577	601	528	435	523	1,666	1,486
United States	213	228	212	237	244	254	227	183	214	694	624
Worldwide	748	788	742	796	821	854	755	618	737	2,359	2,110
Mastercard Debit and Prepaid Programs											
Worldwide less United States	491	523	501	554	582	622	558	480	612	1,637	1,650
United States	229	238	238	249	249	254	251	280	299	737	830
Worldwide	720	760	739	803	831	875	809	760	911	2,373	2,480

GDV Local Growth											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	12.7%	13.0%	11.2%	12.1%	12.4%	11.7%	5.7%	-11.8%	-1.4%	11.9%	-2.6%
Canada	10.3%	11.6%	5.8%	7.7%	8.8%	5.1%	4.1%	-12.6%	-3.0%	7.5%	-4.1%
Europe	18.7%	19.7%	17.3%	18.5%	19.8%	17.4%	12.3%	-12.8%	2.7%	18.6%	0.5%
Latin America	16.2%	16.9%	13.3%	15.8%	18.2%	14.6%	12.5%	-16.9%	-6.8%	15.8%	-3.4%
Worldwide less United States	15.4%	16.1%	13.6%	14.9%	15.9%	14.1%	9.1%	-12.7%	-0.1%	14.9%	-1.4%
United States	8.7%	10.2%	7.5%	9.9%	11.6%	9.0%	6.1%	-4.9%	4.0%	9.7%	1.7%
Worldwide	13.3%	14.2%	11.7%	13.4%	14.6%	12.6%	8.1%	-10.2%	1.2%	13.2%	-0.4%
Mastercard Credit and Charge Programs											
Worldwide less United States	11.6%	12.8%	9.0%	9.6%	11.0%	9.1%	3.8%	-17.5%	-7.6%	9.9%	-7.2%
United States	7.7%	9.8%	9.3%	12.3%	14.6%	11.4%	7.0%	-22.8%	-12.4%	12.2%	-10.0%
Worldwide	10.5%	11.9%	9.0%	10.4%	12.0%	9.8%	4.7%	-19.1%	-9.0%	10.5%	-8.1%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	19.8%	19.8%	19.0%	20.9%	21.3%	19.4%	14.5%	-7.9%	7.3%	20.4%	4.5%
United States	9.6%	10.6%	5.9%	7.7%	8.8%	6.7%	5.4%	12.1%	20.2%	7.5%	12.7%
Worldwide	16.4%	16.8%	14.5%	16.4%	17.2%	15.4%	11.5%	-1.4%	11.2%	16.1%	7.1%

Purchase Volume (\$ Billions)											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	\$304	\$318	\$307	\$318	\$327	\$346	\$310	\$281	\$329	\$952	\$920
Canada	42	45	37	44	45	47	39	36	44	126	118
Europe	289	304	286	320	339	355	313	266	353	945	932
Latin America	62	71	68	71	74	79	70	48	59	213	177
Worldwide less United States	697	737	698	753	785	828	731	631	785	2,236	2,147
United States	385	408	392	427	433	449	419	404	451	1,252	1,274
Worldwide	1,082	1,145	1,090	1,180	1,219	1,276	1,151	1,035	1,236	3,488	3,421
Mastercard Credit and Charge Programs											
Worldwide less United States	495	520	492	520	536	558	488	404	489	1,548	1,381
United States	205	219	203	228	234	244	217	178	210	665	605
Worldwide	700	739	695	748	770	801	705	582	699	2,213	1,987
Mastercard Debit and Prepaid Programs											
Worldwide less United States	202	217	206	232	250	270	243	227	296	689	766
United States	180	189	188	199	199	205	202	226	240	587	668
Worldwide	382	406	395	432	449	475	446	452	537	1,275	1,435

Purchase Volume Local Growth											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	13.4%	13.6%	9.7%	9.9%	10.6%	10.5%	4.5%	-8.5%	0.0%	10.1%	-1.3%
Canada	10.4%	11.5%	5.7%	7.7%	9.3%	5.5%	4.2%	-15.5%	-1.8%	7.7%	-4.7%
Europe	22.2%	22.8%	18.3%	20.5%	21.7%	18.5%	12.6%	-12.9%	3.6%	20.2%	0.9%
Latin America	21.4%	21.7%	17.8%	20.2%	22.8%	19.3%	17.0%	-12.6%	-1.8%	20.3%	1.2%
Worldwide less United States	17.4%	17.9%	13.6%	15.0%	16.2%	14.3%	9.0%	-11.1%	1.3%	15.0%	-0.4%
United States	10.7%	11.4%	9.0%	11.2%	12.6%	10.0%	7.0%	-5.4%	4.0%	11.0%	1.7%
Worldwide	14.9%	15.5%	11.9%	13.6%	14.9%	12.8%	8.3%	-9.0%	2.3%	13.5%	0.4%
Mastercard Credit and Charge Programs											
Worldwide less United States	12.6%	13.5%	9.3%	10.0%	11.3%	9.2%	3.4%	-17.6%	-7.0%	10.2%	-7.2%
United States	9.0%	10.4%	10.0%	12.5%	14.4%	11.4%	6.6%	-21.7%	-10.1%	12.4%	-9.0%
Worldwide	11.5%	12.5%	9.5%	10.8%	12.2%	9.9%	4.4%	-18.9%	-8.0%	10.9%	-7.7%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	31.0%	29.9%	25.4%	27.8%	28.4%	26.4%	22.1%	3.4%	19.0%	27.3%	14.8%
United States	12.7%	12.6%	8.0%	9.6%	10.6%	8.4%	7.4%	13.1%	20.7%	9.4%	13.9%
Worldwide	21.7%	21.3%	16.4%	18.7%	19.9%	18.0%	15.0%	8.0%	19.7%	18.4%	14.4%

Purchase Transactions (Millions)											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	5,412	5,798	5,576	6,161	6,545	6,898	6,302	5,892	6,800	18,281	18,994
Canada	651	698	611	710	748	753	653	572	721	2,068	1,946
Europe	7,778	8,410	8,306	9,581	10,230	10,789	10,229	9,047	11,706	28,117	30,982
Latin America	2,300	2,530	2,474	2,720	2,923	3,084	2,914	2,340	2,753	8,117	8,007
Worldwide less United States	16,141	17,436	16,965	19,172	20,446	21,523	20,098	17,851	21,980	56,584	59,929
United States	6,931	7,242	6,894	7,569	7,745	7,898	7,342	6,942	7,829	22,209	22,113
Worldwide	23,072	24,678	23,860	26,742	28,191	29,421	27,441	24,792	29,809	78,793	82,042
Mastercard Credit and Charge Programs											
Worldwide less United States	8,427	9,012	8,615	9,563	10,140	10,534	9,688	8,423	10,030	28,319	28,142
United States	2,321	2,485	2,250	2,557	2,687	2,793	2,464	2,032	2,420	7,494	6,917
Worldwide	10,748	11,497	10,865	12,120	12,827	13,327	12,152	10,455	12,451	35,813	35,058
Mastercard Debit and Prepaid Programs											
Worldwide less United States	7,714	8,424	8,350	9,609	10,306	10,989	10,410	9,428	11,950	28,265	31,787
United States	4,610	4,758	4,644	5,012	5,058	5,105	4,878	4,909	5,409	14,714	15,197
Worldwide	12,324	13,181	12,994	14,621	15,364	16,094	15,288	14,337	17,359	42,980	46,984

Purchase Transactions Growth											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	19.9%	21.9%	18.4%	19.4%	20.9%	19.0%	13.0%	-4.4%	3.9%	19.6%	3.9%
Canada	11.8%	16.6%	10.2%	11.8%	14.9%	7.8%	7.0%	-19.5%	-3.5%	12.4%	-5.9%
Europe	29.2%	30.2%	28.6%	30.7%	31.5%	28.3%	23.2%	-5.6%	14.4%	30.4%	10.2%
Latin America	19.2%	21.2%	20.0%	24.5%	27.1%	21.9%	17.8%	-14.0%	-5.8%	24.0%	-1.4%
Worldwide less United States	23.7%	25.4%	23.1%	25.2%	26.7%	23.4%	18.5%	-6.9%	7.5%	25.1%	5.9%
United States	9.8%	11.2%	8.4%	10.2%	11.7%	9.1%	6.5%	-8.3%	1.1%	10.2%	-0.4%
Worldwide	19.2%	20.9%	18.4%	20.6%	22.2%	19.2%	15.0%	-7.3%	5.7%	20.5%	4.1%
Mastercard Credit and Charge Programs											
Worldwide less United States	15.3%	18.0%	15.7%	18.2%	20.3%	16.9%	12.5%	-11.9%	-1.1%	18.2%	-0.6%
United States	8.6%	11.9%	11.4%	13.8%	15.8%	12.4%	9.5%	-20.5%	-9.9%	13.7%	-7.7%
Worldwide	13.8%	16.6%	14.8%	17.2%	19.3%	15.9%	11.8%	-13.7%	-2.9%	17.2%	-2.1%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	34.4%	34.5%	31.7%	33.1%	33.6%	30.5%	24.7%	-1.9%	16.0%	32.9%	12.5%
United States	10.3%	10.9%	7.0%	8.5%	9.7%	7.3%	5.0%	-2.0%	6.9%	8.5%	3.3%
Worldwide	24.3%	24.9%	21.7%	23.5%	24.7%	22.1%	17.7%	-1.9%	13.0%	23.4%	9.3%

Cash Volume (\$ Billions)											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	\$141	\$149	\$151	\$161	\$163	\$173	\$161	\$126	\$154	\$476	\$441
Canada	2	2	2	2	2	2	2	3	1	5	6
Europe	149	154	142	159	169	177	154	131	165	470	450
Latin America	37	40	37	39	39	43	37	25	30	115	92
Worldwide less United States	329	346	332	361	373	395	354	284	350	1,066	988
United States	57	57	59	59	60	59	59	59	62	178	180
Worldwide	386	403	391	420	433	453	413	343	412	1,244	1,168
Mastercard Credit and Charge Programs											
Worldwide less United States	39	40	38	39	41	43	40	31	34	118	104
United States	8	9	9	9	10	10	10	5	4	28	19
Worldwide	48	49	47	48	51	53	50	35	37	146	123
Mastercard Debit and Prepaid Programs											
Worldwide less United States	289	305	294	322	332	352	314	254	316	948	884
United States	49	49	50	50	50	48	49	54	59	150	162
Worldwide	338	354	344	372	382	400	363	308	375	1,098	1,045

Cash Volume Local Growth											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	11.3%	11.8%	14.2%	16.6%	16.0%	14.2%	8.1%	-18.5%	-4.2%	15.6%	-5.0%
Canada	9.3%	13.8%	8.7%	7.4%	-2.8%	-3.8%	0.5%	58.6%	-30.6%	4.2%	8.8%
Europe	12.3%	14.0%	15.2%	14.9%	16.1%	15.2%	11.7%	-12.6%	0.9%	15.4%	-0.3%
Latin America	8.3%	9.4%	5.8%	8.5%	10.4%	6.8%	4.9%	-24.1%	-15.4%	8.3%	-11.2%
Worldwide less United States	11.4%	12.5%	13.6%	14.9%	15.3%	13.7%	9.2%	-16.1%	-3.1%	14.6%	-3.5%
United States	-3.2%	2.1%	-1.9%	1.7%	4.8%	2.0%	0.3%	-0.7%	3.9%	1.5%	1.2%
Worldwide	9.0%	10.9%	11.0%	12.8%	13.7%	12.0%	7.8%	-13.8%	-2.1%	12.5%	-2.8%
Mastercard Credit and Charge Programs											
Worldwide less United States	0.4%	5.0%	4.3%	4.2%	7.1%	7.9%	8.9%	-16.7%	-14.6%	5.2%	-7.6%
United States	-16.9%	-3.3%	-5.2%	8.1%	19.9%	13.4%	14.2%	-49.4%	-65.0%	7.1%	-34.8%
Worldwide	-3.1%	3.4%	2.3%	5.0%	9.4%	8.9%	9.9%	-23.3%	-24.8%	5.6%	-13.1%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	13.1%	13.6%	14.9%	16.3%	16.4%	14.4%	9.3%	-16.0%	-1.7%	15.9%	-3.0%
United States	-0.4%	3.1%	-1.3%	0.6%	2.2%	-0.1%	-2.2%	8.3%	17.8%	0.5%	8.0%
Worldwide	10.9%	12.0%	12.3%	13.9%	14.3%	12.5%	7.6%	-12.5%	0.9%	13.5%	-1.4%

Cash Transactions (Millions)											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	1,529	1,654	1,627	1,691	1,739	1,822	1,726	1,317	1,577	5,056	4,620
Canada	6	6	6	6	6	6	5	4	5	17	14
Europe	1,067	1,099	1,044	1,173	1,195	1,225	1,059	845	1,061	3,411	2,965
Latin America	273	297	275	295	302	320	288	219	246	872	753
Worldwide less United States	2,875	3,056	2,952	3,164	3,241	3,372	3,078	2,385	2,889	9,357	8,352
United States	337	328	321	336	339	322	306	285	323	995	914
Worldwide	3,212	3,385	3,272	3,500	3,579	3,694	3,384	2,670	3,212	10,352	9,266
Mastercard Credit and Charge Programs											
Worldwide less United States	182	187	173	185	189	197	179	131	158	547	468
United States	9	9	8	9	9	9	9	4	6	27	19
Worldwide	191	196	181	194	198	206	187	135	163	574	486
Mastercard Debit and Prepaid Programs											
Worldwide less United States	2,693	2,869	2,778	2,979	3,052	3,175	2,900	2,254	2,731	8,810	7,885
United States	328	319	313	327	329	313	297	280	318	969	895
Worldwide	3,021	3,189	3,091	3,306	3,381	3,488	3,197	2,534	3,049	9,778	8,780

Cash Transactions Growth											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	11.3%	12.7%	12.1%	12.1%	13.7%	10.2%	6.1%	-22.1%	-9.3%	12.7%	-8.6%
Canada	8.8%	15.2%	-3.5%	-11.2%	-6.8%	-11.3%	-1.0%	-33.7%	-18.8%	-7.3%	-17.9%
Europe	9.2%	9.7%	11.3%	11.3%	12.0%	11.5%	1.5%	-27.9%	-11.2%	11.6%	-13.1%
Latin America	4.4%	6.6%	4.3%	8.5%	10.6%	7.5%	4.6%	-25.8%	-18.5%	7.9%	-13.7%
Worldwide less United States	9.8%	11.0%	11.0%	11.4%	12.7%	10.3%	4.3%	-24.6%	-10.9%	11.7%	-10.7%
United States	-2.4%	0.8%	-2.1%	-1.3%	0.4%	-1.9%	-4.6%	-15.2%	-4.5%	-1.0%	-8.2%
Worldwide	8.4%	9.9%	9.6%	10.1%	11.4%	9.1%	3.4%	-23.7%	-10.3%	10.4%	-10.5%
Mastercard Credit and Charge Programs											
Worldwide less United States	-1.8%	2.2%	2.2%	2.6%	3.7%	5.2%	3.1%	-29.2%	-16.3%	2.8%	-14.5%
United States	-6.8%	0.4%	-1.4%	4.7%	7.2%	4.8%	5.2%	-50.1%	-40.3%	3.6%	-29.7%
Worldwide	-2.0%	2.1%	2.0%	2.7%	3.8%	5.2%	3.2%	-30.2%	-17.5%	2.9%	-15.2%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	10.7%	11.6%	11.6%	12.0%	13.3%	10.7%	4.4%	-24.3%	-10.5%	12.4%	-10.5%
United States	-2.3%	0.8%	-2.1%	-1.4%	0.2%	-2.1%	-4.9%	-14.3%	-3.5%	-1.1%	-7.6%
Worldwide	9.1%	10.4%	10.1%	10.5%	11.9%	9.4%	3.4%	-23.3%	-9.8%	10.9%	-10.2%

Cards (Millions)											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	756	791	812	822	831	831	849	860	873	831	873
Canada	59	61	61	61	62	62	62	63	62	62	62
Europe	512	528	540	558	579	595	606	613	632	579	632
Latin America	176	183	188	195	200	210	216	217	223	200	223
Worldwide less United States	1,502	1,563	1,601	1,637	1,673	1,698	1,734	1,753	1,790	1,673	1,790
United States	429	437	448	457	467	475	478	477	485	467	485
Worldwide	1,931	2,000	2,049	2,093	2,139	2,172	2,212	2,230	2,275	2,139	2,275
Mastercard Credit and Charge Programs											
Worldwide less United States	627	641	652	665	682	697	705	703	709	682	709
United States	218	227	230	234	238	242	243	237	234	238	234
Worldwide	845	868	882	899	920	939	948	939	943	920	943
Mastercard Debit and Prepaid Programs											
Worldwide less United States	875	922	949	971	991	1,001	1,028	1,050	1,081	991	1,081
United States	211	210	218	223	229	233	235	241	250	229	250
Worldwide	1,086	1,132	1,166	1,194	1,219	1,234	1,263	1,291	1,331	1,219	1,331

Cards Growth											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q3'18	Q4'18	Q1'19	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q3'19 YTD	Q3'20 YTD
APMEA	11.3%	13.8%	14.0%	12.6%	10.0%	5.0%	4.7%	4.6%	5.0%	10.0%	5.0%
Canada	17.0%	15.7%	9.6%	6.4%	5.9%	2.9%	2.3%	2.0%	-0.3%	5.9%	-0.3%
Europe	10.1%	11.2%	11.2%	11.7%	13.1%	12.5%	12.3%	9.9%	9.2%	13.1%	9.2%
Latin America	2.5%	3.8%	11.8%	13.7%	13.9%	14.9%	14.6%	11.3%	11.5%	13.9%	11.5%
Worldwide less United States	10.0%	11.8%	12.6%	12.2%	11.3%	8.6%	8.3%	7.1%	7.0%	11.3%	7.0%
United States	7.5%	6.5%	7.9%	9.1%	8.8%	8.7%	6.7%	4.5%	3.8%	8.8%	3.8%
Worldwide	9.4%	10.6%	11.5%	11.5%	10.8%	8.6%	8.0%	6.5%	6.3%	10.8%	6.3%
Mastercard Credit and Charge Programs											
Worldwide less United States	6.3%	6.8%	8.2%	8.2%	8.8%	8.6%	8.2%	5.6%	4.0%	8.8%	4.0%
United States	5.5%	7.6%	9.4%	10.8%	9.2%	6.6%	5.5%	1.2%	-1.6%	9.2%	-1.6%
Worldwide	6.1%	7.0%	8.5%	8.9%	8.9%	8.1%	7.5%	4.5%	2.5%	8.9%	2.5%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	12.8%	15.5%	15.9%	15.0%	13.2%	8.6%	8.4%	8.1%	9.1%	13.2%	9.1%
United States	9.7%	5.3%	6.2%	7.2%	8.3%	10.9%	8.1%	8.0%	9.5%	8.3%	9.5%
Worldwide	12.2%	13.5%	14.0%	13.5%	12.2%	9.0%	8.3%	8.1%	9.2%	12.2%	9.2%

Note that the figures in the preceding tables may not sum due to rounding; growth represents change from the comparable year-ago period.

Footnote

The tables set forth the gross dollar volume (“GDV”), purchase volume, cash volume and the number of purchase transactions, cash transactions, and cards on a regional and global basis for Mastercard™-branded cards. Growth rates over prior periods are provided for volume-based data.

Debit transactions on Maestro® and Cirrus®-branded cards and transactions involving brands other than Mastercard are not included in the preceding tables.

For purposes of the table: GDV represents purchase volume plus cash volume and includes the impact of balance transfers and convenience checks; “purchase volume” means the aggregate dollar amount of purchases made with Mastercard-branded cards for the relevant period; and “cash volume” means the aggregate dollar amount of cash disbursements obtained with Mastercard-branded cards for the relevant period. The number of cards includes virtual cards, which are Mastercard-branded payment accounts that do not generally have physical cards associated with them.

The Mastercard payment product is comprised of credit, charge, debit and prepaid programs, and data relating to each type of program is included in the tables. The tables include information with respect to transactions involving Mastercard-branded cards that are not switched by Mastercard and transactions for which Mastercard does not earn significant revenues.

Information denominated in U.S. dollars is calculated by applying an established U.S. dollar/local currency exchange rate for each local currency in which Mastercard volumes are reported. These exchange rates are calculated on a quarterly basis using the average exchange rate for each quarter. Mastercard reports period-over-period rates of change in purchase volume and cash volume on the basis of local currency information, in order to eliminate the impact of changes in the value of foreign currencies against the U.S. dollar in calculating such rates of change.

The data set forth in the GDV, purchase volume, purchase transactions, cash volume and cash transactions columns is provided by Mastercard customers and is subject to verification by Mastercard and partial cross-checking against information provided by Mastercard’s transaction switching systems. The data set forth in the cards columns is provided by Mastercard customers and is subject to certain limited verification by Mastercard. A portion of the data set forth in the cards columns reflects the impact of routine portfolio changes among customers and other practices that may lead to over counting of the underlying data in certain circumstances. All data is subject to revision and amendment by Mastercard or Mastercard’s customers.

Effective Q1’18, our operational metrics reflect the impact of the Venezuela deconsolidation. Prior to Q1’18 all metrics include Venezuela. We are providing additional information regarding our Switched Transactions and Card growth rates. The adjusted growth rates eliminate Venezuelan Switched Transactions and Card counts from prior periods. This information is being provided so that you can better understand the underlying growth rates of our operating metrics.

2. Switched Transactions

The table below sets forth the total number of transactions switched by Mastercard and growth from the comparable year-ago period.

Period	Switched	
	Trans. (Mil.)	Growth ⁽¹⁾⁽²⁾
2020Q3	23,807	5%
2020Q2	19,369	-10%
2020Q1	22,132	13%
2019Q4	23,807	19%
2019Q3	22,891	19%
2019Q2	21,429	18%
2019Q1	19,205	17%
2018Q4	20,124	17%
2018Q3	18,825	17%
FY 2019	87,332	19%
FY 2018	73,791	17%

3. Cross Border Volume

The table below sets forth the Cross Border Volume Growth from the comparable year-ago period, on a local currency basis and U.S. dollar-converted basis, for all Mastercard-branded programs.

Period	Growth (Local) ⁽²⁾	Growth (USD) ⁽²⁾
2020Q3	-36%	-35%
2020Q2	-45%	-47%
2020Q1	-1%	-3%
2019Q4	16%	14%
2019Q3	16%	13%
2019Q2	16%	10%
2019Q1	14%	7%
2018Q4	16%	12%
2018Q3	18%	15%
FY 2019	16%	11%
FY 2018	18%	19%

Note:

- (1) Growth rates eliminate Venezuela transactions from current and past periods
- (2) The cross-border volume and switched transactions growth rates have been normalized to eliminate the effects of differing switching and carryover days between periods. Carryover days are those where transactions and volumes from days where the company does not clear and settle are processed.

4. Cards

The tables below set forth the number of Mastercard, Maestro and Total Cards with growth rates from the comparable year-ago period.

Mastercard Cards				Maestro Cards				Total WW Mastercard & Maestro Cards			
Period	Cards (Mil.)	Actual Growth	Growth Adj for Ven	Period	Cards (Mil.)	Actual Growth	Growth Adj for Ven	Period	Cards (Mil.)	Actual Growth	Growth Adj for Ven
2020Q3	2,275	6.3%	6%	2020Q3	418	-3.9%	-4%	2020Q3	2,692	4.6%	5%
2020Q2	2,230	6.5%	7%	2020Q2	419	-4.5%	-5%	2020Q2	2,649	4.6%	5%
2020Q1	2,212	8.0%	8%	2020Q1	424	-6.2%	-6%	2020Q1	2,636	5.4%	5%
2019Q4	2,172	8.6%	9%	2019Q4	428	-10.5%	-11%	2019Q4	2,600	4.9%	5%
2019Q3	2,139	10.8%	11%	2019Q3	435	-14.6%	-15%	2019Q3	2,574	5.5%	5%
2019Q2	2,093	11.5%	11%	2019Q2	439	-15.6%	-16%	2019Q2	2,532	5.6%	6%
2019Q1	2,049	11.5%	12%	2019Q1	452	-14.5%	-14%	2019Q1	2,501	5.7%	6%
2018Q4	2,000	10.6%	11%	2018Q4	478	-19.6%	-13%	2018Q4	2,478	3.1%	5%
2018Q3	1,931	9.4%	10%	2018Q3	509	-15.5%	-9%	2018Q3	2,440	3.1%	5%