



Supplemental Operational Performance Data

Set forth below are tables that provide supplemental information regarding the operational performance results for the three months ended June 30, 2021, 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	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	\$477	\$488	\$517	\$470	\$405	\$481	\$528	\$515	\$527	\$1,939	\$1,884
Canada	46	47	49	41	39	45	49	44	54	181	173
Europe	478	508	532	467	397	519	534	502	594	1,947	1,917
Latin America	110	113	123	107	73	88	108	103	111	451	376
Worldwide less United States	1,111	1,157	1,220	1,084	914	1,133	1,219	1,165	1,286	4,517	4,350
United States	486	493	507	479	463	513	528	544	619	1,938	1,982
Worldwide	1,598	1,650	1,728	1,563	1,377	1,646	1,747	1,708	1,904	6,455	6,333
Mastercard Credit and Charge Programs											
Worldwide less United States	559	576	601	528	435	523	560	531	583	2,266	2,045
United States	237	244	254	227	183	214	237	226	274	947	861
Worldwide	796	821	854	755	618	737	797	757	857	3,213	2,906
Mastercard Debit and Prepaid Programs											
Worldwide less United States	552	580	620	557	479	610	659	634	703	2,252	2,305
United States	249	249	254	252	280	299	291	318	345	990	1,122
Worldwide	802	829	874	808	759	909	950	952	1,047	3,242	3,427

GDV Local Growth											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	12.2%	12.5%	11.9%	5.8%	-11.8%	-1.4%	-0.4%	5.0%	21.9%	12.0%	-2.0%
Canada	7.7%	8.8%	5.1%	4.1%	-12.5%	-2.9%	-0.6%	2.5%	23.5%	6.9%	-3.1%
Europe	18.5%	19.8%	17.4%	12.4%	-12.7%	2.8%	1.4%	4.8%	42.1%	18.3%	0.8%
Latin America	15.8%	18.2%	14.6%	12.5%	-16.9%	-6.7%	0.3%	5.6%	42.6%	15.4%	-2.4%
Worldwide less United States	15.0%	16.0%	14.2%	9.1%	-12.7%	-0.1%	0.5%	4.9%	32.3%	14.7%	-0.8%
United States	9.9%	11.6%	9.0%	6.3%	-4.9%	4.0%	4.0%	13.5%	33.8%	9.5%	2.3%
Worldwide	13.4%	14.6%	12.6%	8.2%	-10.2%	1.2%	1.5%	7.5%	32.8%	13.1%	0.1%
Mastercard Credit and Charge Programs											
Worldwide less United States	9.6%	11.0%	9.2%	3.8%	-17.5%	-7.5%	-6.8%	-2.5%	25.5%	9.7%	-7.1%
United States	12.3%	14.7%	11.4%	7.0%	-22.8%	-12.3%	-6.7%	-0.5%	50.0%	12.0%	-9.1%
Worldwide	10.4%	12.0%	9.8%	4.8%	-19.1%	-9.0%	-6.8%	-1.9%	32.4%	10.4%	-7.7%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	21.1%	21.4%	19.5%	14.7%	-7.8%	7.4%	7.6%	11.9%	38.6%	20.3%	5.4%
United States	7.7%	8.8%	6.7%	5.6%	12.1%	20.1%	14.8%	26.3%	23.2%	7.3%	13.3%
Worldwide	16.6%	17.3%	15.5%	11.7%	-1.3%	11.2%	9.7%	16.3%	33.1%	16.0%	7.9%

Purchase Volume (\$ Billions)											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	\$318	\$326	\$346	\$309	\$280	\$328	\$362	\$355	\$367	\$1,296	\$1,280
Canada	44	45	47	39	36	44	47	42	52	173	166
Europe	320	339	355	313	266	353	368	349	420	1,300	1,300
Latin America	71	74	79	70	48	59	71	69	76	292	248
Worldwide less United States	752	785	827	731	630	784	849	816	915	3,061	2,995
United States	427	433	449	420	404	451	471	478	550	1,701	1,746
Worldwide	1,179	1,218	1,276	1,151	1,034	1,235	1,321	1,294	1,466	4,762	4,741
Mastercard Credit and Charge Programs											
Worldwide less United States	520	536	558	488	405	489	524	496	546	2,105	1,906
United States	228	234	244	217	178	211	232	220	267	909	837
Worldwide	748	770	801	705	583	700	756	716	814	3,014	2,743
Mastercard Debit and Prepaid Programs											
Worldwide less United States	232	249	269	243	226	295	325	320	369	956	1,089
United States	199	199	205	203	226	240	240	258	283	792	909
Worldwide	431	448	475	446	451	535	565	578	652	1,748	1,997

Purchase Volume Local Growth											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	10.1%	10.9%	10.7%	4.6%	-8.5%	-0.1%	0.7%	7.9%	21.0%	10.4%	-0.8%
Canada	7.7%	9.3%	5.5%	4.5%	-15.2%	-1.6%	-0.3%	3.2%	28.9%	7.1%	-3.3%
Europe	20.5%	21.7%	18.5%	12.6%	-12.8%	3.6%	3.2%	7.4%	48.2%	19.8%	1.5%
Latin America	20.2%	22.8%	19.3%	16.9%	-12.6%	-1.7%	6.9%	11.8%	52.0%	20.0%	2.8%
Worldwide less United States	15.1%	16.3%	14.4%	9.0%	-11.1%	1.3%	2.2%	7.7%	35.2%	14.9%	0.3%
United States	11.2%	12.6%	10.0%	7.2%	-5.5%	4.1%	5.0%	13.8%	36.3%	10.7%	2.6%
Worldwide	13.6%	15.0%	12.8%	8.3%	-9.0%	2.3%	3.2%	9.9%	35.6%	13.4%	1.2%
Mastercard Credit and Charge Programs											
Worldwide less United States	10.0%	11.3%	9.3%	3.5%	-17.5%	-7.0%	-6.2%	-1.5%	26.3%	10.0%	-6.9%
United States	12.5%	14.4%	11.4%	6.6%	-21.7%	-10.1%	-4.9%	1.4%	50.1%	12.1%	-7.9%
Worldwide	10.8%	12.2%	9.9%	4.4%	-18.8%	-7.9%	-5.8%	-0.7%	33.2%	10.6%	-7.2%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	28.2%	28.8%	26.8%	22.1%	3.3%	18.8%	19.6%	26.2%	50.8%	27.4%	16.1%
United States	9.6%	10.6%	8.5%	7.7%	13.1%	20.7%	16.8%	27.1%	25.5%	9.2%	14.7%
Worldwide	18.9%	20.0%	18.2%	15.1%	8.0%	19.7%	18.4%	26.6%	38.7%	18.5%	15.5%

Purchase Transactions (Millions)												
All Mastercard Credit,												
Charge, Debit and Prepaid Programs	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020	
APMEA	6,158	6,542	6,898	6,300	5,883	6,789	7,335	7,082	7,632	25,165	26,307	
Canada	710	748	753	654	572	722	729	648	751	2,821	2,677	
Europe	9,581	10,230	10,789	10,231	9,053	11,708	11,731	11,307	13,489	38,906	42,724	
Latin America	2,720	2,923	3,084	2,914	2,340	2,754	3,176	3,154	3,430	11,201	11,183	
Worldwide less United States	19,169	20,443	21,524	20,099	17,848	21,973	22,970	22,192	25,302	78,092	82,890	
United States	7,569	7,745	7,902	7,357	6,940	7,835	7,986	7,867	8,819	30,111	30,118	
Worldwide	26,739	28,188	29,426	27,457	24,789	29,807	30,956	30,059	34,121	108,204	113,009	
Mastercard Credit and Charge Programs												
Worldwide less United States	9,564	10,141	10,535	9,699	8,434	10,043	10,604	10,111	11,270	38,856	38,780	
United States	2,557	2,687	2,793	2,464	2,031	2,422	2,622	2,414	2,893	10,287	9,540	
Worldwide	12,121	12,828	13,328	12,163	10,465	12,465	13,227	12,525	14,162	49,143	48,320	
Mastercard Debit and Prepaid Programs												
Worldwide less United States	9,606	10,302	10,989	10,401	9,414	11,929	12,366	12,080	14,032	39,237	44,110	
United States	5,012	5,058	5,109	4,893	4,909	5,413	5,364	5,453	5,926	19,824	20,579	
Worldwide	14,617	15,360	16,098	15,293	14,324	17,342	17,730	17,534	19,958	59,061	64,689	

Purchase Transactions Growth												
All Mastercard Credit,												
Charge, Debit and Prepaid Programs	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020	
APMEA	20.0%	21.4%	19.5%	13.2%	-4.5%	3.8%	6.3%	12.4%	29.7%	20.0%	4.5%	
Canada	11.8%	14.9%	7.8%	7.1%	-19.4%	-3.5%	-3.2%	-0.8%	31.2%	11.1%	-5.1%	
Europe	30.7%	31.5%	28.3%	23.2%	-5.5%	14.5%	8.7%	10.5%	49.0%	29.8%	9.8%	
Latin America	24.5%	27.1%	21.9%	17.8%	-14.0%	-5.8%	3.0%	8.2%	46.6%	23.4%	-0.2%	
Worldwide less United States	25.4%	26.9%	23.6%	18.5%	-6.9%	7.5%	6.7%	10.4%	41.8%	24.8%	6.1%	
United States	10.2%	11.8%	9.1%	6.7%	-8.3%	1.2%	1.1%	6.9%	27.1%	9.9%	0.0%	
Worldwide	20.7%	22.3%	19.4%	15.1%	-7.3%	5.7%	5.2%	9.5%	37.6%	20.3%	4.4%	
Mastercard Credit and Charge Programs												
Worldwide less United States	18.2%	20.4%	16.9%	12.6%	-11.8%	-1.0%	0.7%	4.3%	33.6%	17.9%	-0.2%	
United States	13.8%	15.8%	12.4%	9.5%	-20.6%	-9.9%	-6.1%	-2.0%	42.4%	13.4%	-7.3%	
Worldwide	17.3%	19.4%	15.9%	11.9%	-13.7%	-2.8%	-0.8%	3.0%	35.3%	16.9%	-1.7%	
Mastercard Debit and Prepaid Programs												
Worldwide less United States	33.5%	34.0%	30.8%	24.7%	-2.0%	15.8%	12.5%	16.2%	49.1%	32.6%	12.4%	
United States	8.5%	9.7%	7.4%	5.4%	-2.0%	7.0%	5.0%	11.5%	20.7%	8.2%	3.8%	
Worldwide	23.8%	24.9%	22.4%	17.8%	-2.0%	12.9%	10.1%	14.6%	39.3%	23.2%	9.5%	

Cash Volume (\$ Billions)											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	\$160	\$162	\$171	\$161	\$125	\$153	\$166	\$160	\$160	\$643	\$604
Canada	2	2	2	2	3	1	2	2	2	7	7
Europe	159	169	177	154	131	165	166	153	174	647	617
Latin America	39	39	43	37	25	30	36	34	35	159	128
Worldwide less United States	359	372	393	354	284	349	369	349	370	1,456	1,356
United States	59	60	59	59	59	62	57	66	68	237	237
Worldwide	419	432	452	413	342	411	426	414	439	1,693	1,592
Mastercard Credit and Charge Programs											
Worldwide less United States	39	41	43	40	30	34	36	34	36	160	139
United States	9	10	10	10	5	4	5	6	7	38	24
Worldwide	48	51	53	50	35	37	41	41	43	199	163
Mastercard Debit and Prepaid Programs											
Worldwide less United States	321	331	350	314	253	315	334	314	334	1,296	1,216
United States	50	50	49	49	54	59	52	59	61	198	213
Worldwide	371	381	399	363	307	374	385	374	396	1,494	1,429

Cash Volume Local Growth											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	16.8%	16.1%	14.2%	8.4%	-18.4%	-4.1%	-2.8%	-0.8%	24.0%	15.3%	-4.3%
Canada	7.4%	-2.8%	-3.8%	-3.4%	54.8%	-34.9%	-7.5%	-13.3%	-49.1%	2.1%	1.6%
Europe	14.9%	16.1%	15.2%	11.9%	-12.4%	1.1%	-2.3%	-0.8%	29.4%	15.4%	-0.7%
Latin America	8.5%	10.4%	6.8%	4.9%	-24.1%	-15.4%	-10.4%	-5.1%	25.5%	7.9%	-11.0%
Worldwide less United States	14.9%	15.3%	13.7%	9.4%	-16.0%	-3.0%	-3.4%	-1.3%	25.9%	14.4%	-3.4%
United States	1.7%	4.8%	2.0%	0.2%	-0.8%	3.8%	-3.4%	11.5%	16.3%	1.6%	0.0%
Worldwide	12.8%	13.7%	12.0%	8.0%	-13.7%	-2.0%	-3.4%	0.5%	24.3%	12.4%	-2.9%
Mastercard Credit and Charge Programs											
Worldwide less United States	4.3%	7.1%	7.9%	8.7%	-16.8%	-14.5%	-14.8%	-13.8%	14.4%	6.0%	-9.6%
United States	8.1%	19.9%	13.4%	14.2%	-49.4%	-65.0%	-50.0%	-41.0%	48.7%	8.7%	-38.8%
Worldwide	5.0%	9.4%	8.9%	9.8%	-23.5%	-24.8%	-21.6%	-19.4%	18.8%	6.5%	-15.5%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	16.4%	16.4%	14.4%	9.5%	-15.9%	-1.6%	-2.0%	0.3%	27.2%	15.5%	-2.6%
United States	0.6%	2.2%	0.0%	-2.3%	8.2%	17.7%	6.2%	22.6%	13.5%	0.4%	7.5%
Worldwide	14.0%	14.3%	12.4%	7.8%	-12.4%	1.0%	-1.0%	3.3%	24.9%	13.3%	-1.2%

Cash Transactions (Millions)											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	1,684	1,733	1,811	1,722	1,311	1,572	1,653	1,599	1,559	6,849	6,258
Canada	6	6	6	5	3	4	4	4	4	22	16
Europe	1,173	1,195	1,225	1,059	846	1,062	1,001	910	1,046	4,636	3,969
Latin America	295	302	320	288	219	245	280	268	275	1,192	1,033
Worldwide less United States	3,158	3,235	3,361	3,075	2,378	2,884	2,939	2,781	2,885	12,700	11,276
United States	336	339	322	306	284	321	295	314	332	1,318	1,206
Worldwide	3,494	3,574	3,684	3,381	2,662	3,205	3,234	3,095	3,217	14,018	12,482
Mastercard Credit and Charge Programs											
Worldwide less United States	184	187	195	177	130	157	155	144	156	739	619
United States	9	9	9	9	4	6	6	6	7	36	25
Worldwide	193	197	205	186	134	162	161	150	163	774	644
Mastercard Debit and Prepaid Programs											
Worldwide less United States	2,974	3,048	3,166	2,897	2,248	2,727	2,784	2,637	2,729	11,961	10,657
United States	327	329	313	298	279	315	289	308	325	1,282	1,181
Worldwide	3,301	3,377	3,479	3,195	2,528	3,043	3,073	2,945	3,054	13,243	11,838

Cash Transactions Growth											
All Mastercard Credit,											
Charge, Debit and Prepaid Programs	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	12.1%	13.8%	9.9%	6.3%	-22.2%	-9.3%	-8.7%	-7.1%	19.0%	12.0%	-8.6%
Canada	-11.2%	-6.8%	-11.3%	-8.8%	-43.2%	-27.5%	-27.0%	-22.2%	35.9%	-8.3%	-26.7%
Europe	11.3%	12.0%	11.5%	1.5%	-27.9%	-11.1%	-18.3%	-14.1%	23.7%	11.5%	-14.4%
Latin America	8.5%	10.6%	7.5%	4.6%	-25.9%	-18.7%	-12.3%	-7.0%	25.8%	7.8%	-13.4%
Worldwide less United States	11.4%	12.8%	10.2%	4.4%	-24.7%	-10.9%	-12.6%	-9.6%	21.3%	11.4%	-11.2%
United States	-1.3%	0.4%	-1.8%	-4.6%	-15.5%	-5.2%	-8.4%	2.4%	16.9%	-1.2%	-8.5%
Worldwide	10.1%	11.5%	9.0%	3.5%	-23.8%	-10.3%	-12.2%	-8.5%	20.8%	10.0%	-11.0%
Mastercard Credit and Charge Programs											
Worldwide less United States	2.6%	3.7%	5.2%	3.1%	-29.4%	-16.3%	-20.8%	-19.0%	20.2%	3.5%	-16.2%
United States	4.7%	7.2%	4.8%	5.2%	-50.5%	-40.3%	-33.5%	-30.2%	59.1%	3.9%	-30.8%
Worldwide	2.7%	3.8%	5.2%	3.2%	-30.4%	-17.5%	-21.3%	-19.5%	21.4%	3.5%	-16.9%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	12.0%	13.4%	10.5%	4.5%	-24.4%	-10.5%	-12.1%	-9.0%	21.4%	11.9%	-10.9%
United States	-1.4%	0.2%	-2.0%	-4.8%	-14.5%	-4.2%	-7.7%	3.4%	16.2%	-1.3%	-7.8%
Worldwide	10.5%	11.9%	9.3%	3.5%	-23.4%	-9.9%	-11.7%	-7.8%	20.8%	10.5%	-10.6%

Cards (Millions)											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	823	832	831	849	860	873	882	890	898	831	882
Canada	61	62	61	62	62	61	62	64	64	61	62
Europe	558	579	595	607	614	631	652	672	689	595	652
Latin America	195	200	210	215	216	222	235	245	261	210	235
Worldwide less United States	1,637	1,673	1,697	1,733	1,752	1,786	1,831	1,870	1,912	1,697	1,831
United States	457	466	474	478	476	484	503	516	538	474	503
Worldwide	2,094	2,140	2,172	2,211	2,229	2,271	2,334	2,386	2,449	2,172	2,334
Mastercard Credit and Charge Programs											
Worldwide less United States	666	682	697	705	701	707	716	723	736	697	716
United States	234	238	242	243	236	234	245	249	257	242	245
Worldwide	900	920	938	948	938	941	961	972	993	938	961
Mastercard Debit and Prepaid Programs											
Worldwide less United States	971	991	1,001	1,028	1,051	1,079	1,115	1,147	1,176	1,001	1,115
United States	223	229	233	235	240	251	258	267	281	233	258
Worldwide	1,194	1,220	1,233	1,263	1,291	1,330	1,373	1,414	1,456	1,233	1,373

Cards Growth											
All Mastercard Credit, Charge, Debit and Prepaid Programs											
	Q2'19	Q3'19	Q4'19	Q1'20	Q2'20	Q3'20	Q4'20	Q1'21	Q2'21	FY 2019	FY 2020
APMEA	12.7%	10.0%	5.0%	4.6%	4.6%	4.9%	6.1%	4.8%	4.4%	5.0%	6.1%
Canada	6.4%	5.9%	1.4%	1.2%	1.0%	-1.4%	1.7%	3.1%	3.8%	1.4%	1.7%
Europe	11.7%	13.2%	12.6%	12.4%	10.0%	9.0%	9.7%	10.7%	12.2%	12.6%	9.7%
Latin America	13.7%	13.9%	14.9%	14.1%	10.7%	10.6%	11.6%	14.1%	20.7%	14.9%	11.6%
Worldwide less United States	12.2%	11.4%	8.6%	8.2%	7.0%	6.8%	7.9%	7.9%	9.1%	8.6%	7.9%
United States	9.1%	8.7%	8.6%	6.7%	4.3%	3.8%	6.0%	7.9%	12.9%	8.6%	6.0%
Worldwide	11.5%	10.8%	8.6%	7.9%	6.4%	6.1%	7.5%	7.9%	9.9%	8.6%	7.5%
Mastercard Credit and Charge Programs											
Worldwide less United States	8.3%	8.9%	8.6%	8.0%	5.3%	3.6%	2.8%	2.6%	5.0%	8.6%	2.8%
United States	10.8%	9.1%	6.6%	5.4%	1.1%	-1.8%	1.4%	2.4%	8.7%	6.6%	1.4%
Worldwide	9.0%	8.9%	8.1%	7.3%	4.2%	2.2%	2.4%	2.6%	5.9%	8.1%	2.4%
Mastercard Debit and Prepaid Programs											
Worldwide less United States	15.0%	13.2%	8.6%	8.3%	8.2%	8.9%	11.4%	11.6%	11.9%	8.6%	11.4%
United States	7.2%	8.3%	10.9%	8.1%	7.7%	9.6%	10.8%	13.5%	17.0%	10.9%	10.8%
Worldwide	13.5%	12.3%	9.0%	8.3%	8.1%	9.0%	11.3%	11.9%	12.8%	9.0%	11.3%

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 and includes the impact of balance transfers and convenience checks 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 exclude Venezuelan data as a result of the deconsolidation of our Venezuelan subsidiaries at that time.

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⁾
2021Q2	27,228	41%
2021Q1	23,772	9%
2020Q4	24,756	4%
2020Q3	23,807	5%
2020Q2	19,369	-10%
2020Q1	22,132	13%
2019Q4	23,807	19%
2019Q3	22,891	19%
2019Q2	21,429	18%
FY 2020	90,064	3%
FY 2019	87,332	19%

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	Growth
	(Local) ⁽¹⁾	(USD) ⁽¹⁾
2021Q2	58%	70%
2021Q1	-17%	-13%
2020Q4	-29%	-27%
2020Q3	-36%	-35%
2020Q2	-45%	-47%
2020Q1	-1%	-3%
2019Q4	16%	14%
2019Q3	16%	13%
2019Q2	16%	10%
FY 2020	-29%	-29%
FY 2019	16%	11%

Note:

- (1) 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	Period	Cards (Mil.)	Actual Growth	Period	Cards (Mil.)	Actual Growth
2021Q2	2,449	9.9%	2021Q2	404	-2.6%	2021Q2	2,854	7.9%
2021Q1	2,386	7.9%	2021Q1	409	-3.3%	2021Q1	2,794	6.1%
2020Q4	2,334	7.5%	2020Q4	412	-3.7%	2020Q4	2,746	5.6%
2020Q3	2,271	6.1%	2020Q3	413	-4.7%	2020Q3	2,684	4.3%
2020Q2	2,229	6.4%	2020Q2	415	-5.3%	2020Q2	2,644	4.4%
2020Q1	2,211	7.9%	2020Q1	423	-6.4%	2020Q1	2,633	5.3%
2019Q4	2,172	8.6%	2019Q4	427	-10.6%	2019Q4	2,599	4.9%
2019Q3	2,140	10.8%	2019Q3	434	-14.7%	2019Q3	2,574	5.5%
2019Q2	2,094	11.5%	2019Q2	438	-15.7%	2019Q2	2,532	5.6%