15 U.S. DOLLAR RATES OF SELECTED CURRENCIES

end of period

Period	Philippine Peso	Japanese Yen	EURO	Pound Sterling	Canadian Dollar	Swiss Franc	Brunei Dollar	Australian Dollar	Hongkong Dollar	N T Dollar	S. Korean Won	Singapore Dollar	Malaysian Ringgit	Thai Baht	Indonesian Rupiah	Saudi Rial	Chinese Yuan	UAE Dirham	SDR
1997	0.025016	0.007669	n.a.	1.678600	0.696718	0.697837	0.597372	0.655500	0.129057	0.030769	0.000667	0.599161	0.260722	0.022272	0.000196	0.266624	n.a.	0.273300	1.355420
1998	0.025602	0.008624	n.a.	1.675500	0.644621	0.730887	0.601685	0.606502	0.129104	0.031046	0.000828	0.603500	0.263165	0.027248	0.000127	0.266631	n.a.	0.273300	1.402580
1999	0.024806	0.009768	1.007000	1.615000	0.689655	0.627431	0.598982	0.645286	0.128655	0.031847	0.000875	0.600781	0.263165	0.026667	0.000141	0.266667	n.a.	0.272302	1.372350
2000	0.020001	0.008737	0.929900	1.495000	0.666578	0.611770	0.576037	0.552212	0.128230	0.030211	0.000799	0.577701	0.263193	0.023170	0.000104	0.266667	n.a.	0.272295	1.302340
2001	0.019454	0.007595	0.883100	1.453400	0.626135	0.595628	0.539520	0.507099	0.128251	0.028547	0.000758	0.539520	0.263158	0.022604	0.000096	0.266660	n.a.	0.272331	1.254470
2002	0.018834	0.008339	1.038000	1.601100	0.641931	0.713114	0.573625	0.562303	0.128230	0.028802	0.000833	0.575275	0.263193	0.023256	0.000113	0.266667	n.a.	0.272287	1.350400
2003	0.017996	0.009336	1.248500	1.772900	0.763009	0.800128	0.585892	0.742005	0.128828	0.029446	0.000835	0.587613	0.263193	0.025265	0.000118	0.266667	n.a.	0.272279	1.480300
2004	0.017772	0.009704	1.361400	1.928000	0.821423	0.882379	0.609682	0.778392	0.128649	0.031226	0.000960	0.611546	0.263193	0.025611	0.000107	0.266660	n.a.	0.272301	1.550890
2005	0.018844	0.008485	1.183800	1.716400	0.858295	0.759417	0.598408	0.730674	0.128994	0.030248	0.000987	0.600204	0.264599	0.024420	0.000102	0.266638	n.a.	0.272272	1.434720
2006	0.020353	0.008408	1.314900	1.963200	0.861846	0.818532	0.649646	0.787774	0.128669	0.030626	0.001076	0.651763	0.283206	0.027910	0.000111	0.266667	0.127974	0.272287	1.503160
2007	0.024154	0.008796	1.462700	1.996100	1.019680	0.877578	0.687521	0.876885	0.128205	0.030747	0.001064	0.689893	0.300120	0.033557	0.000106	0.266809	0.136659	0.272287	1.567270
2008	0.021059	0.010996	1.395100	1.476000	0.822504	0.919540	0.686908	0.678518	0.129037	0.030291	0.000751	0.689275	0.288351	0.028918	0.000092	0.266517	0.146017	0.272294	1.543270
2009	0.021572	0.010913	1.438100	1.600400	0.959417	0.966651	0.709320	0.887469	0.128942	0.030979	0.000856	0.711845	0.291758	0.029958	0.000106	0.266610	0.146413	0.272257	1.567440
2010	0.022787	0.012246	1.322400	1.550100	0.999700	1.057082	0.770535	1.017200	0.128505	0.034151	0.000875	0.773515	0.323834	0.033167	0.000111	0.266660	0.151030	0.272272	1.533190
2011	0.022765	0.012835	1.294000	1.545300	0.976467	1.060895	0.767519	1.009000	0.128649	0.032949	0.000864	0.770475	0.316056	0.031726	0.000110	0.266667	0.158198	0.272264	1.542570
2012	0.024277	0.011621	1.323800	1.610100	1.004924	1.095170	0.814863	1.035947	0.129016	0.034448	0.000933	0.818197	0.326904	0.032637	0.000104	0.266667	0.160359	0.272279	1.541480
2013	0.022515	0.009545	1.369300	1.641300	0.939408	1.115573	0.784929	0.888415	0.128949	0.033340	0.000944	0.788022	0.303398	0.030460	0.000082	0.266645	0.164620	0.272287	1.536950
2014	0.022413	0.008306	1.217900	1.555600	0.860585	1.012761	0.752389	0.811491	0.128849	0.031537	0.000910	0.755230	0.286615	0.030404	0.000080	0.266489	0.160955	0.272264	1.449060
2015	0.021202	0.008311	1.097000	1.487900	0.719424	1.012863	0.708115	0.726480	0.129027	0.030481	0.000856	0.710631	0.232829	0.027678	0.000073	0.266645	0.154131	0.272301	1.390340
2016	0.020075	0.008533	1.040700	1.222000	0.737790	0.972479	0.687285	0.718200	0.128906	0.030845	0.000825	0.689655	0.223214	0.027781	0.000074	0.266610	0.143761	0.272287	1.337550

n.a. - not available

Source: Reference Exchange Rate Bulletin, Bangko Sentral ng Pilipinas (BSP)

15.1 U.S. DOLLAR RATES OF SELECTED CURRENCIES

period averages

Period	Philippine Peso	Japanese Yen	EURO	Pound Sterling	Canadian Dollar	Swiss Franc	Brunei Dollar	Australian Dollar	Hongkong Dollar	N T Dollar	S. Korean Won	Singapore Dollar	Malaysian Ringgit	Thai Baht	Indonesian Rupiah	Saudi Rial	Chinese Yuan	UAE Dirham	SDR
1997	0.033932	0.008251	n.a.	1.635000	0.722744	0.690400	0.673774	0.744437	0.129200	0.035036	0.001080	0.675900	0.363600	0.033600	0.000366	0.266700	n.a.	0.272333	1.376600
1998	0.024454	0.007678	n.a.	1.657500	0.675261	0.691300	0.597533	0.628975	0.129100	0.029944	0.000721	0.599200	0.256100	0.024500	0.000108	0.266600	n.a.	0.271417	1.356260
1999	0.025583	0.008824	1.067799	1.618452	0.673513	0.667097	0.588749	0.645089	0.128891	0.031086	0.000843	0.590499	0.263189	0.026470	0.000129	0.266642	n.a.	0.272278	1.367640
2000	0.022628	0.009287	0.924699	1.516965	0.673901	0.593339	0.578586	0.582100	0.128341	0.032134	0.000886	0.580241	0.263147	0.024987	0.000120	0.266639	n.a.	0.272278	1.319373
2001	0.019611	0.008246	0.896402	1.441070	0.646159	0.593483	0.557191	0.517328	0.128261	0.029693	0.000779	0.558622	0.263191	0.022506	0.000098	0.266695	n.a.	0.272308	1.273467
2002	0.019379	0.007999	0.945271	1.502764	0.637224	0.644340	0.557038	0.543522	0.128236	0.029039	0.000807	0.558723	0.263183	0.023270	0.000108	0.266689	n.a.	0.272288	1.294735
2003	0.018449	0.008638	1.131561	1.634885	0.715971	0.744203	0.572528	0.651555	0.128421	0.029146	0.000840	0.574166	0.263192	0.024103	0.000117	0.266666	n.a.	0.272281	1.400548
2004	0.017844	0.009251	1.243462	1.832571	0.769682	0.805630	0.589978	0.738593	0.128402	0.030014	0.000874	0.591792	0.263190	0.024861	0.000112	0.266668	n.a.	0.272272	1.481040
2005	0.018154	0.009103	1.245568	1.820851	0.825939	0.804474	0.599262	0.762284	0.128578	0.031154	0.000976	0.601064	0.264091	0.024863	0.000103	0.266654	n.a.	0.272283	1.477569
2006	0.019488	0.008600	1.256293	1.842655	0.881974	0.798562	0.627663	0.753117	0.128733	0.030773	0.001048	0.629640	0.272813	0.026403	0.000109	0.266663	n.a.	0.272286	1.472211
2007	0.021669	0.008500	1.370682	2.002526	0.934792	0.834251	0.661732	0.837957	0.128177	0.030447	0.001077	0.663930	0.291155	0.031101	0.000110	0.266936	0.131470	0.272339	1.530777
2008	0.022485	0.009695	1.470374	1.855338	0.943962	0.925253	0.705136	0.852242	0.128430	0.031756	0.000928	0.707634	0.300706	0.030215	0.000104	0.266686	0.143909	0.272294	1.580658
2009	0.020992	0.010708	1.393895	1.566189	0.879866	0.923187	0.686242	0.791381	0.129013	0.030290	0.000789	0.688608	0.284083	0.029159	0.000097	0.266656	0.146387	0.272301	1.541828
2010	0.022168	0.011413	1.327705	1.546907	0.970942	0.960951	0.731711	0.919307	0.128726	0.031747	0.000866	0.734400	0.310846	0.031577	0.000110	0.266672	0.147720	0.272291	1.525865
2011	0.023088	0.012551	1.392043	1.603748	1.011648	1.131208	0.792559	1.031877	0.128472	0.034049	0.000904	0.795714	0.327236	0.032833	0.000114	0.266663	0.154659	0.272274	1.578551
2012	0.023681	0.012546	1.286018	1.585088	1.000821	1.067064	0.797516	1.035595	0.128921	0.033826	0.000888	0.800710	0.324022	0.032198	0.000107	0.266660	0.158492	0.272267	1.531489
2013	0.023559	0.010270	1.328200	1.564075	0.971368	1.079186	0.796510	0.968126	0.128928	0.033705	0.000914	0.799695	0.317925	0.032621	0.000097	0.266653	0.162634	0.272268	1.519513
2014	0.022525	0.009481	1.330108	1.648552	0.906367	1.094889	0.786830	0.903479	0.128960	0.033022	0.000951	0.789939	0.306018	0.030799	0.000084	0.266612	0.162341	0.272264	1.520283
2015	0.021977	0.008265	1.110605	1.529313	0.784142	1.040410	0.725704	0.753212	0.128995	0.031530	0.000886	0.728348	0.258095	0.029275	0.000075	0.266613	0.159206	0.272274	1.399404
2016	0.021056	0.009215	1.107112	1.356921	0.755322	1.015642	0.722169	0.743663	0.128831	0.031037	0.000863	0.724787	0.241843	0.028347	0.000075	0.266677	0.150622	0.272286	1.390251

n.a. - not available

Source: Reference Exchange Rate Bulletin, Bangko Sentral ng Pilipinas (BSP)

15.2 U.S. DOLLAR RATES OF SELECTED CURRENCIES

annual % appreciation (+) / depreciation (-)

period averages

Period	Philippine Peso	Japanese Yen	EURO	Pound Sterling	Canadian Dollar	Swiss Franc	Brunei Dollar	Australian Dollar	Hongkong Dollar	N T Dollar	S. Korean Won	Singapore Dollar	Malaysian Ringgit	Thai Baht	Indonesian Rupiah	Saudi Rial	Chinese Yuan	UAE Dirham	SDR
1997	-11.04	-10.36	n.a.	4.68	-1.48	-14.82	-4.70	-4.91	-0.08	-4.72	-13.25	-4.74	-7.93	-14.94	-14.88	-0.22	n.a.	-0.22	-5.18
1998	-27.93	-6.94	n.a.	1.38	-6.57	0.13	-11.32	-15.51	-0.08	-14.53	-33.24	-11.35	-29.57	-27.08	-70.49	-0.04	n.a.	-0.34	-1.48
1999	4.62	14.92	n.a.	-2.36	-0.26	-3.50	-1.47	2.56	-0.16	3.81	16.87	-1.45	2.77	8.04	19.48	0.02	n.a.	0.32	0.84
2000	-11.55	5.25	-13.40	-6.27	0.06	-11.06	-1.73	-9.76	-0.43	3.37	5.12	-1.74	-0.02	-5.60	-6.81	0.00	n.a.	0.00	-3.53
2001	-13.33	-11.21	-3.06	-5.00	-4.12	0.02	-3.70	-11.13	-0.06	-7.60	-12.06	-3.73	0.02	-9.93	-18.16	0.02	n.a.	0.01	-3.48
2002	-1.18	-3.00	5.45	4.28	-1.38	8.57	-0.03	5.06	-0.02	-2.20	3.56	0.02	0.00	3.39	9.50	0.00	n.a.	-0.01	1.67
2003	-4.80	7.99	19.71	8.79	12.36	15.50	2.78	19.88	0.14	0.37	4.18	2.76	0.00	3.58	8.41	-0.01	n.a.	0.00	8.17
2004	-3.28	7.10	9.89	12.09	7.50	8.25	3.05	13.36	-0.01	2.98	3.97	3.07	0.00	3.14	-4.00	0.00	n.a.	0.00	5.75
2005	1.73	-1.60	0.17	-0.64	7.31	-0.14	1.57	3.21	0.14	3.80	11.76	1.57	0.34	0.01	-7.91	-0.01	n.a.	0.00	-0.23
2006	7.35	-5.53	0.86	1.20	6.78	-0.73	4.74	-1.20	0.12	-1.22	7.31	4.75	3.30	6.19	5.74	0.00	n.a.	0.00	-0.36
2007	11.19	-1.16	9.11	8.68	5.99	4.47	5.43	11.27	-0.43	-1.06	2.77	5.45	6.72	17.79	0.28	0.10	n.a.	0.02	3.98
2008	3.76	14.05	7.27	-7.35	0.98	10.91	6.56	1.70	0.20	4.30	-13.86	6.58	3.28	-2.85	-4.68	-0.09	9.46	-0.02	3.26
2009	-6.64	10.46	-5.20	-15.58	-6.79	-0.22	-2.68	-7.14	0.45	-4.62	-14.95	-2.69	-5.53	-3.49	-7.08	-0.01	1.72	0.00	-2.46
2010	5.60	6.59	-4.75	-1.23	10.35	4.09	6.63	16.16	-0.22	4.81	9.76	6.65	9.42	8.29	13.59	0.01	0.91	0.00	-1.04
2011	4.15	9.97	4.85	3.67	4.19	17.72	8.32	12.25	-0.20	7.25	4.38	8.35	5.27	3.98	3.65	0.00	4.70	-0.01	3.45
2012	2.57	-0.04	-7.62	-1.16	-1.07	-5.67	0.63	0.36	0.35	-0.65	-1.76	0.63	-0.98	-1.94	-6.33	0.00	2.48	0.00	-2.98
2013	-0.51	-18.14	3.28	-1.33	-2.94	1.14	-0.13	-6.51	0.01	-0.36	2.99	-0.13	-1.88	1.31	-9.76	0.00	2.61	0.00	-0.78
2014	-4.39	-7.69	0.14	5.40	-6.69	1.46	-1.22	-6.68	0.02	-2.03	3.97	-1.22	-3.74	-5.58	-12.55	-0.02	-0.18	0.00	0.05
2015	-2.43	-12.82	-16.50	-7.23	-13.49	-4.98	-7.77	-16.63	0.03	-4.52	-6.84	-7.80	-15.66	-4.95	-11.31	0.00	-1.93	0.00	-7.95
2016	-4.19	11.49	-0.31	-11.27	-3.68	-2.38	-0.49	-1.27	-0.13	-1.57	-2.55	-0.49	-6.30	-3.17	0.41	0.02	-5.39	0.00	-0.65

n.a. - not available

Source: Reference Exchange Rate Bulletin, Bangko Sentral ng Pilipinas (BSP)