

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
May 2018

Security:			3-5/8% 30-Year TIPS	3-7/8% 30-Year TIPS	3-3/8% 30-1/2-Year TIPS	2-3/8% 20-1/2-Year TIPS
Description:			TIPS of April 2028	TIPS of April 2029	TIPS of April 2032	TIPS of January 2025
CUSIP Number:			912810FD5	912810FH6	912810FQ6	912810FR4
Dated Date:			April 15, 1998	April 15, 1999	October 15, 2001	July 15, 2004
Original Issue Date:			April 15, 1998	April 15, 1999	October 15, 2001	July 30, 2004
Additional Issue Date(s):			July 15, 1998	October 15, 1999 October 16, 2000		January 31, 2005 July 29, 2005
Maturity Date:			April 15, 2028	April 15, 2029	April 15, 2032	January 15, 2025
Ref CPI on Dated Date:			161.74000	164.39333	177.50000	188.49677
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.53945	1.51461	1.40277	1.32093	
May 2 2018	249.00916	1.53956	1.51472	1.40287	1.32103	
May 3 2018	249.02732	1.53968	1.51483	1.40297	1.32112	
May 4 2018	249.04548	1.53979	1.51494	1.40307	1.32122	
May 5 2018	249.06365	1.53990	1.51505	1.40318	1.32132	
May 6 2018	249.08181	1.54001	1.51516	1.40328	1.32141	
May 7 2018	249.09997	1.54013	1.51527	1.40338	1.32151	
May 8 2018	249.11813	1.54024	1.51538	1.40348	1.32160	
May 9 2018	249.13629	1.54035	1.51549	1.40358	1.32170	
May 10 2018	249.15445	1.54046	1.51560	1.40369	1.32180	
May 11 2018	249.17261	1.54058	1.51571	1.40379	1.32189	
May 12 2018	249.19077	1.54069	1.51582	1.40389	1.32199	
May 13 2018	249.20894	1.54080	1.51593	1.40399	1.32209	
May 14 2018	249.22710	1.54091	1.51604	1.40410	1.32218	
May 15 2018	249.24526	1.54102	1.51615	1.40420	1.32228	
May 16 2018	249.26342	1.54114	1.51626	1.40430	1.32238	
May 17 2018	249.28158	1.54125	1.51637	1.40440	1.32247	
May 18 2018	249.29974	1.54136	1.51648	1.40451	1.32257	
May 19 2018	249.31790	1.54147	1.51659	1.40461	1.32266	
May 20 2018	249.33606	1.54159	1.51670	1.40471	1.32276	
May 21 2018	249.35423	1.54170	1.51681	1.40481	1.32286	
May 22 2018	249.37239	1.54181	1.51693	1.40491	1.32295	
May 23 2018	249.39055	1.54192	1.51704	1.40502	1.32305	
May 24 2018	249.40871	1.54203	1.51715	1.40512	1.32315	
May 25 2018	249.42687	1.54215	1.51726	1.40522	1.32324	
May 26 2018	249.44503	1.54226	1.51737	1.40532	1.32334	
May 27 2018	249.46319	1.54237	1.51748	1.40543	1.32343	
May 28 2018	249.48135	1.54248	1.51759	1.40553	1.32353	
May 29 2018	249.49952	1.54260	1.51770	1.40563	1.32363	
May 30 2018	249.51768	1.54271	1.51781	1.40573	1.32372	
May 31 2018	249.53584	1.54282	1.51792	1.40584	1.32382	
CPI-U (NSA) for:			January 2018 247.867	February 2018 248.991	March 2018 249.554	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
May 2018

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2% 20-Year TIPS TIPS of January 2026 912810FS2 January 15, 2006 January 31, 2006 July 31, 2006	2-3/8% 20-Year TIPS TIPS of January 2027 912810PS1 January 15, 2007 January 31, 2007 July 31, 2007	1-3/4% 20-Year TIPS TIPS of January 2028 912810PV4 January 15, 2008 January 31, 2008 July 31, 2008	1-3/8% 10-Year TIPS Series D-2018 912828JE1 July 15, 2008 July 15, 2008 October 15, 2008		
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 198.47742	January 15, 2027 201.66452	January 15, 2028 209.49645	July 15, 2018 215.63997		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May	1	2018	248.99100	1.25451	1.23468	1.18852	1.15466	
May	2	2018	249.00916	1.25460	1.23477	1.18861	1.15474	
May	3	2018	249.02732	1.25469	1.23486	1.18869	1.15483	
May	4	2018	249.04548	1.25478	1.23495	1.18878	1.15491	
May	5	2018	249.06365	1.25487	1.23504	1.18887	1.15500	
May	6	2018	249.08181	1.25496	1.23513	1.18895	1.15508	
May	7	2018	249.09997	1.25505	1.23522	1.18904	1.15517	
May	8	2018	249.11813	1.25515	1.23531	1.18913	1.15525	
May	9	2018	249.13629	1.25524	1.23540	1.18921	1.15533	
May	10	2018	249.15445	1.25533	1.23549	1.18930	1.15542	
May	11	2018	249.17261	1.25542	1.23558	1.18939	1.15550	
May	12	2018	249.19077	1.25551	1.23567	1.18947	1.15559	
May	13	2018	249.20894	1.25560	1.23576	1.18956	1.15567	
May	14	2018	249.22710	1.25569	1.23585	1.18965	1.15576	
May	15	2018	249.24526	1.25579	1.23594	1.18974	1.15584	
May	16	2018	249.26342	1.25588	1.23603	1.18982	1.15592	
May	17	2018	249.28158	1.25597	1.23612	1.18991	1.15601	
May	18	2018	249.29974	1.25606	1.23621	1.19000	1.15609	
May	19	2018	249.31790	1.25615	1.23630	1.19008	1.15618	
May	20	2018	249.33606	1.25624	1.23639	1.19017	1.15626	
May	21	2018	249.35423	1.25634	1.23648	1.19026	1.15635	
May	22	2018	249.37239	1.25643	1.23657	1.19034	1.15643	
May	23	2018	249.39055	1.25652	1.23666	1.19043	1.15651	
May	24	2018	249.40871	1.25661	1.23675	1.19052	1.15660	
May	25	2018	249.42687	1.25670	1.23684	1.19060	1.15668	
May	26	2018	249.44503	1.25679	1.23693	1.19069	1.15677	
May	27	2018	249.46319	1.25688	1.23702	1.19078	1.15685	
May	28	2018	249.48135	1.25698	1.23711	1.19086	1.15693	
May	29	2018	249.49952	1.25707	1.23720	1.19095	1.15702	
May	30	2018	249.51768	1.25716	1.23729	1.19104	1.15710	
May	31	2018	249.53584	1.25725	1.23738	1.19112	1.15719	
CPI-U (NSA) for:			January 2018	247.867	February 2018	248.991	March 2018	249.554

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
May 2018

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2-1/8% 10-Year TIPS Series A-2019 912828JX9 January 15, 2009 January 15, 2009 April 15, 2009	2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009	1-7/8% 10-Year TIPS Series D-2019 912828LA6 July 15, 2009 July 15, 2009 October 15, 2009	1-3/8% 10-Year TIPS Series A-2020 912828MF4 January 15, 2010 January 15, 2010 April 15, 2010
Maturity Date: Ref CPI on Dated Date:			January 15, 2019 214.69971	January 15, 2029 214.69971	July 15, 2019 213.51819	January 15, 2020 216.24610
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.15972	1.15972	1.16613	1.15142	
May 2 2018	249.00916	1.15980	1.15980	1.16622	1.15151	
May 3 2018	249.02732	1.15989	1.15989	1.16630	1.15159	
May 4 2018	249.04548	1.15997	1.15997	1.16639	1.15168	
May 5 2018	249.06365	1.16006	1.16006	1.16648	1.15176	
May 6 2018	249.08181	1.16014	1.16014	1.16656	1.15184	
May 7 2018	249.09997	1.16022	1.16022	1.16665	1.15193	
May 8 2018	249.11813	1.16031	1.16031	1.16673	1.15201	
May 9 2018	249.13629	1.16039	1.16039	1.16682	1.15210	
May 10 2018	249.15445	1.16048	1.16048	1.16690	1.15218	
May 11 2018	249.17261	1.16056	1.16056	1.16699	1.15226	
May 12 2018	249.19077	1.16065	1.16065	1.16707	1.15235	
May 13 2018	249.20894	1.16073	1.16073	1.16716	1.15243	
May 14 2018	249.22710	1.16082	1.16082	1.16724	1.15252	
May 15 2018	249.24526	1.16090	1.16090	1.16733	1.15260	
May 16 2018	249.26342	1.16099	1.16099	1.16741	1.15268	
May 17 2018	249.28158	1.16107	1.16107	1.16750	1.15277	
May 18 2018	249.29974	1.16116	1.16116	1.16758	1.15285	
May 19 2018	249.31790	1.16124	1.16124	1.16767	1.15294	
May 20 2018	249.33606	1.16132	1.16132	1.16775	1.15302	
May 21 2018	249.35423	1.16141	1.16141	1.16784	1.15310	
May 22 2018	249.37239	1.16149	1.16149	1.16792	1.15319	
May 23 2018	249.39055	1.16158	1.16158	1.16801	1.15327	
May 24 2018	249.40871	1.16166	1.16166	1.16809	1.15336	
May 25 2018	249.42687	1.16175	1.16175	1.16818	1.15344	
May 26 2018	249.44503	1.16183	1.16183	1.16826	1.15352	
May 27 2018	249.46319	1.16192	1.16192	1.16835	1.15361	
May 28 2018	249.48135	1.16200	1.16200	1.16843	1.15369	
May 29 2018	249.49952	1.16209	1.16209	1.16852	1.15378	
May 30 2018	249.51768	1.16217	1.16217	1.16860	1.15386	
May 31 2018	249.53584	1.16226	1.16226	1.16869	1.15394	
CPI-U (NSA) for:	January 2018	247.867	February 2018	248.991	March 2018	249.554

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Ref CPI and Index Ratios for
May 2018

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2-1/8% 30-Year TIPS TIPS of February 2040 912810QF8 February 15, 2010 February 26, 2010 August 31, 2010	1-1/4% 10-Year TIPS Series D-2020 912828NM8 July 15, 2010 July 15, 2010 September 15, 2010 November 15, 2010	1-1/8% 10-Year TIPS Series A-2021 912828PP9 January 15, 2011 January 31, 2011 March 31, 2011 May 31, 2011	2-1/8% 30-Year TIPS TIPS of February 2041 912810QP6 February 15, 2011 February 28, 2011 June 30, 2011 October 31, 2011
Maturity Date: Ref CPI on Dated Date:			February 15, 2040 216.13950	July 15, 2020 218.08532	January 15, 2021 218.75255	February 15, 2041 218.99100
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.15199	1.14171	1.13823	1.13699	
May 2 2018	249.00916	1.15208	1.14180	1.13831	1.13707	
May 3 2018	249.02732	1.15216	1.14188	1.13840	1.13716	
May 4 2018	249.04548	1.15224	1.14196	1.13848	1.13724	
May 5 2018	249.06365	1.15233	1.14205	1.13856	1.13732	
May 6 2018	249.08181	1.15241	1.14213	1.13865	1.13741	
May 7 2018	249.09997	1.15250	1.14221	1.13873	1.13749	
May 8 2018	249.11813	1.15258	1.14230	1.13881	1.13757	
May 9 2018	249.13629	1.15266	1.14238	1.13890	1.13766	
May 10 2018	249.15445	1.15275	1.14246	1.13898	1.13774	
May 11 2018	249.17261	1.15283	1.14255	1.13906	1.13782	
May 12 2018	249.19077	1.15292	1.14263	1.13914	1.13790	
May 13 2018	249.20894	1.15300	1.14271	1.13923	1.13799	
May 14 2018	249.22710	1.15308	1.14280	1.13931	1.13807	
May 15 2018	249.24526	1.15317	1.14288	1.13939	1.13815	
May 16 2018	249.26342	1.15325	1.14296	1.13948	1.13824	
May 17 2018	249.28158	1.15334	1.14305	1.13956	1.13832	
May 18 2018	249.29974	1.15342	1.14313	1.13964	1.13840	
May 19 2018	249.31790	1.15350	1.14321	1.13973	1.13848	
May 20 2018	249.33606	1.15359	1.14330	1.13981	1.13857	
May 21 2018	249.35423	1.15367	1.14338	1.13989	1.13865	
May 22 2018	249.37239	1.15376	1.14346	1.13997	1.13873	
May 23 2018	249.39055	1.15384	1.14355	1.14006	1.13882	
May 24 2018	249.40871	1.15392	1.14363	1.14014	1.13890	
May 25 2018	249.42687	1.15401	1.14371	1.14022	1.13898	
May 26 2018	249.44503	1.15409	1.14380	1.14031	1.13907	
May 27 2018	249.46319	1.15418	1.14388	1.14039	1.13915	
May 28 2018	249.48135	1.15426	1.14396	1.14047	1.13923	
May 29 2018	249.49952	1.15434	1.14405	1.14056	1.13931	
May 30 2018	249.51768	1.15443	1.14413	1.14064	1.13940	
May 31 2018	249.53584	1.15451	1.14421	1.14072	1.13948	
CPI-U (NSA) for:	January 2018	247.867	February 2018	248.991	March 2018	249.554

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
May 2018

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-5/8% 10-Year TIPS Series D-2021 912828QV5 July 15, 2011 July 29, 2011 September 30, 2011 November 30, 2011	0-1/8% 10-Year TIPS Series A-2022 912828SA9 January 15, 2012 January 31, 2012 March 30, 2012 May 31, 2012	0-3/4% 30-Year TIPS TIPS of February 2042 912810QV3 February 15, 2012 February 29, 2012 June 29, 2012 October 31, 2012	0-1/8% 10-Year TIPS Series D-2022 912828TE0 July 15, 2012 July 31, 2012 September 28, 2012 November 30, 2012
Maturity Date: Ref CPI on Dated Date:			July 15, 2021 225.38381	January 15, 2022 226.33474	February 15, 2042 225.96062	July 15, 2022 229.96306
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.10474	1.10010	1.10192	1.08274	
May 2 2018	249.00916	1.10482	1.10018	1.10200	1.08282	
May 3 2018	249.02732	1.10490	1.10026	1.10208	1.08290	
May 4 2018	249.04548	1.10498	1.10034	1.10216	1.08298	
May 5 2018	249.06365	1.10506	1.10042	1.10224	1.08306	
May 6 2018	249.08181	1.10515	1.10050	1.10232	1.08314	
May 7 2018	249.09997	1.10523	1.10058	1.10240	1.08322	
May 8 2018	249.11813	1.10531	1.10066	1.10248	1.08330	
May 9 2018	249.13629	1.10539	1.10074	1.10257	1.08338	
May 10 2018	249.15445	1.10547	1.10082	1.10265	1.08345	
May 11 2018	249.17261	1.10555	1.10090	1.10273	1.08353	
May 12 2018	249.19077	1.10563	1.10098	1.10281	1.08361	
May 13 2018	249.20894	1.10571	1.10106	1.10289	1.08369	
May 14 2018	249.22710	1.10579	1.10114	1.10297	1.08377	
May 15 2018	249.24526	1.10587	1.10122	1.10305	1.08385	
May 16 2018	249.26342	1.10595	1.10130	1.10313	1.08393	
May 17 2018	249.28158	1.10603	1.10138	1.10321	1.08401	
May 18 2018	249.29974	1.10611	1.10146	1.10329	1.08409	
May 19 2018	249.31790	1.10619	1.10154	1.10337	1.08416	
May 20 2018	249.33606	1.10627	1.10163	1.10345	1.08424	
May 21 2018	249.35423	1.10635	1.10171	1.10353	1.08432	
May 22 2018	249.37239	1.10643	1.10179	1.10361	1.08440	
May 23 2018	249.39055	1.10651	1.10187	1.10369	1.08448	
May 24 2018	249.40871	1.10660	1.10195	1.10377	1.08456	
May 25 2018	249.42687	1.10668	1.10203	1.10385	1.08464	
May 26 2018	249.44503	1.10676	1.10211	1.10393	1.08472	
May 27 2018	249.46319	1.10684	1.10219	1.10401	1.08480	
May 28 2018	249.48135	1.10692	1.10227	1.10409	1.08488	
May 29 2018	249.49952	1.10700	1.10235	1.10417	1.08495	
May 30 2018	249.51768	1.10708	1.10243	1.10425	1.08503	
May 31 2018	249.53584	1.10716	1.10251	1.10433	1.08511	
CPI-U (NSA) for:	January 2018	247.867	February 2018	248.991	March 2018	249.554

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
May 2018

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May	1	2018	248.99100	1.07871	1.08299	1.06993	1.06712	
May	2	2018	249.00916	1.07879	1.08307	1.07000	1.06719	
May	3	2018	249.02732	1.07887	1.08315	1.07008	1.06727	
May	4	2018	249.04548	1.07895	1.08323	1.07016	1.06735	
May	5	2018	249.06365	1.07903	1.08330	1.07024	1.06743	
May	6	2018	249.08181	1.07911	1.08338	1.07032	1.06751	
May	7	2018	249.09997	1.07919	1.08346	1.07039	1.06758	
May	8	2018	249.11813	1.07926	1.08354	1.07047	1.06766	
May	9	2018	249.13629	1.07934	1.08362	1.07055	1.06774	
May	10	2018	249.15445	1.07942	1.08370	1.07063	1.06782	
May	11	2018	249.17261	1.07950	1.08378	1.07071	1.06790	
May	12	2018	249.19077	1.07958	1.08386	1.07078	1.06797	
May	13	2018	249.20894	1.07966	1.08394	1.07086	1.06805	
May	14	2018	249.22710	1.07974	1.08402	1.07094	1.06813	
May	15	2018	249.24526	1.07982	1.08409	1.07102	1.06821	
May	16	2018	249.26342	1.07989	1.08417	1.07110	1.06828	
May	17	2018	249.28158	1.07997	1.08425	1.07117	1.06836	
May	18	2018	249.29974	1.08005	1.08433	1.07125	1.06844	
May	19	2018	249.31790	1.08013	1.08441	1.07133	1.06852	
May	20	2018	249.33606	1.08021	1.08449	1.07141	1.06860	
May	21	2018	249.35423	1.08029	1.08457	1.07149	1.06867	
May	22	2018	249.37239	1.08037	1.08465	1.07156	1.06875	
May	23	2018	249.39055	1.08045	1.08473	1.07164	1.06883	
May	24	2018	249.40871	1.08052	1.08481	1.07172	1.06891	
May	25	2018	249.42687	1.08060	1.08488	1.07180	1.06898	
May	26	2018	249.44503	1.08068	1.08496	1.07188	1.06906	
May	27	2018	249.46319	1.08076	1.08504	1.07195	1.06914	
May	28	2018	249.48135	1.08084	1.08512	1.07203	1.06922	
May	29	2018	249.49952	1.08092	1.08520	1.07211	1.06930	
May	30	2018	249.51768	1.08100	1.08528	1.07219	1.06937	
May	31	2018	249.53584	1.08107	1.08536	1.07227	1.06945	
CPI-U (NSA) for:			January 2018	247.867	February 2018	248.991	March 2018	249.554

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Ref CPI and Index Ratios for
May 2018

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1-3/8% 30-Year TIPS TIPS of February 2044 912810RF7 February 15, 2014 February 28, 2014 June 30, 2014 October 31, 2014	0-1/8% 5-Year TIPS Series X-2019 912828C99 April 15, 2014 April 30, 2014 August 29, 2014 December 31, 2014	0-1/8% 10-Year TIPS Series D-2024 912828WU0 July 15, 2014 July 31, 2014 September 30, 2014 November 28, 2014	0-1/4% 10-Year TIPS Series A-2025 912828H45 January 15, 2015 January 30, 2015 March 31, 2015 May 29, 2015
Maturity Date: Ref CPI on Dated Date:			February 15, 2044 233.05900	April 15, 2019 234.31967	July 15, 2024 237.44594	January 15, 2025 236.85403
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.06836	1.06261	1.04862	1.05124	
May 2 2018	249.00916	1.06844	1.06269	1.04870	1.05132	
May 3 2018	249.02732	1.06852	1.06277	1.04877	1.05140	
May 4 2018	249.04548	1.06859	1.06284	1.04885	1.05147	
May 5 2018	249.06365	1.06867	1.06292	1.04893	1.05155	
May 6 2018	249.08181	1.06875	1.06300	1.04900	1.05163	
May 7 2018	249.09997	1.06883	1.06308	1.04908	1.05170	
May 8 2018	249.11813	1.06891	1.06316	1.04916	1.05178	
May 9 2018	249.13629	1.06898	1.06323	1.04923	1.05186	
May 10 2018	249.15445	1.06906	1.06331	1.04931	1.05193	
May 11 2018	249.17261	1.06914	1.06339	1.04939	1.05201	
May 12 2018	249.19077	1.06922	1.06347	1.04946	1.05209	
May 13 2018	249.20894	1.06930	1.06354	1.04954	1.05216	
May 14 2018	249.22710	1.06937	1.06362	1.04962	1.05224	
May 15 2018	249.24526	1.06945	1.06370	1.04969	1.05232	
May 16 2018	249.26342	1.06953	1.06378	1.04977	1.05239	
May 17 2018	249.28158	1.06961	1.06385	1.04985	1.05247	
May 18 2018	249.29974	1.06969	1.06393	1.04992	1.05255	
May 19 2018	249.31790	1.06976	1.06401	1.05000	1.05262	
May 20 2018	249.33606	1.06984	1.06409	1.05008	1.05270	
May 21 2018	249.35423	1.06992	1.06416	1.05015	1.05278	
May 22 2018	249.37239	1.07000	1.06424	1.05023	1.05285	
May 23 2018	249.39055	1.07007	1.06432	1.05030	1.05293	
May 24 2018	249.40871	1.07015	1.06440	1.05038	1.05301	
May 25 2018	249.42687	1.07023	1.06447	1.05046	1.05308	
May 26 2018	249.44503	1.07031	1.06455	1.05053	1.05316	
May 27 2018	249.46319	1.07039	1.06463	1.05061	1.05324	
May 28 2018	249.48135	1.07046	1.06471	1.05069	1.05331	
May 29 2018	249.49952	1.07054	1.06478	1.05076	1.05339	
May 30 2018	249.51768	1.07062	1.06486	1.05084	1.05347	
May 31 2018	249.53584	1.07070	1.06494	1.05092	1.05354	
CPI-U (NSA) for:	January 2018	247.867	February 2018	248.991	March 2018	249.554

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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-3/4% 30-Year TIPS TIPS of February 2045 912810RL4 February 15, 2015 February 27, 2015 June 30, 2015 October 30, 2015	0-1/8% 5-Year TIPS Series X-2020 912828K33 April 15, 2015 April 30, 2015 August 31, 2015 December 31, 2015	0-3/8% 10-Year TIPS Series D-2025 912828XL9 July 15, 2015 July 31, 2015 September 30, 2015 November 30, 2015	0-5/8% 10-Year TIPS Series A-2026 912828N71 January 15, 2016 January 29, 2016 March 31, 2016 May 31, 2016
Maturity Date: Ref CPI on Dated Date:			February 15, 2045 235.48150	April 15, 2020 234.18067	July 15, 2025 237.14365	January 15, 2026 237.61129
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.05737	1.06324	1.04996	1.04789	
May 2 2018	249.00916	1.05745	1.06332	1.05004	1.04797	
May 3 2018	249.02732	1.05752	1.06340	1.05011	1.04804	
May 4 2018	249.04548	1.05760	1.06348	1.05019	1.04812	
May 5 2018	249.06365	1.05768	1.06355	1.05026	1.04820	
May 6 2018	249.08181	1.05776	1.06363	1.05034	1.04827	
May 7 2018	249.09997	1.05783	1.06371	1.05042	1.04835	
May 8 2018	249.11813	1.05791	1.06379	1.05049	1.04843	
May 9 2018	249.13629	1.05799	1.06386	1.05057	1.04850	
May 10 2018	249.15445	1.05806	1.06394	1.05065	1.04858	
May 11 2018	249.17261	1.05814	1.06402	1.05072	1.04866	
May 12 2018	249.19077	1.05822	1.06410	1.05080	1.04873	
May 13 2018	249.20894	1.05830	1.06417	1.05088	1.04881	
May 14 2018	249.22710	1.05837	1.06425	1.05095	1.04889	
May 15 2018	249.24526	1.05845	1.06433	1.05103	1.04896	
May 16 2018	249.26342	1.05853	1.06441	1.05111	1.04904	
May 17 2018	249.28158	1.05860	1.06448	1.05118	1.04912	
May 18 2018	249.29974	1.05868	1.06456	1.05126	1.04919	
May 19 2018	249.31790	1.05876	1.06464	1.05134	1.04927	
May 20 2018	249.33606	1.05884	1.06472	1.05141	1.04934	
May 21 2018	249.35423	1.05891	1.06479	1.05149	1.04942	
May 22 2018	249.37239	1.05899	1.06487	1.05157	1.04950	
May 23 2018	249.39055	1.05907	1.06495	1.05164	1.04957	
May 24 2018	249.40871	1.05914	1.06503	1.05172	1.04965	
May 25 2018	249.42687	1.05922	1.06510	1.05180	1.04973	
May 26 2018	249.44503	1.05930	1.06518	1.05187	1.04980	
May 27 2018	249.46319	1.05937	1.06526	1.05195	1.04988	
May 28 2018	249.48135	1.05945	1.06534	1.05203	1.04996	
May 29 2018	249.49952	1.05953	1.06541	1.05210	1.05003	
May 30 2018	249.51768	1.05961	1.06549	1.05218	1.05011	
May 31 2018	249.53584	1.05968	1.06557	1.05226	1.05019	
CPI-U (NSA) for:	January 2018	247.867	February 2018	248.991	March 2018	249.554

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1% 30-Year TIPS TIPS of February 2046 912810RR1 February 15, 2016 February 29, 2016 June 30, 2016 October 31, 2016	0-1/8% 5-Year TIPS Series X-2021 912828Q60 April 15, 2016 April 29, 2016 August 31, 2016 December 30, 2016	0-1/8% 10-Year TIPS Series D-2026 912828S50 July 15, 2016 July 29, 2016 September 30, 2016 November 30, 2016	0-3/8% 10-Year TIPS Series A-2027 912828V49 January 15, 2017 January 31, 2017 March 31, 2017 May 31, 2017
Maturity Date: Ref CPI on Dated Date:			February 15, 2046 236.94448	April 15, 2021 237.00700	July 15, 2026 239.70132	January 15, 2027 241.55919
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.05084	1.05056	1.03876	1.03077	
May 2 2018	249.00916	1.05092	1.05064	1.03883	1.03084	
May 3 2018	249.02732	1.05099	1.05072	1.03891	1.03092	
May 4 2018	249.04548	1.05107	1.05079	1.03898	1.03099	
May 5 2018	249.06365	1.05115	1.05087	1.03906	1.03107	
May 6 2018	249.08181	1.05122	1.05095	1.03913	1.03114	
May 7 2018	249.09997	1.05130	1.05102	1.03921	1.03122	
May 8 2018	249.11813	1.05138	1.05110	1.03929	1.03129	
May 9 2018	249.13629	1.05145	1.05118	1.03936	1.03137	
May 10 2018	249.15445	1.05153	1.05125	1.03944	1.03144	
May 11 2018	249.17261	1.05161	1.05133	1.03951	1.03152	
May 12 2018	249.19077	1.05168	1.05141	1.03959	1.03159	
May 13 2018	249.20894	1.05176	1.05148	1.03966	1.03167	
May 14 2018	249.22710	1.05184	1.05156	1.03974	1.03174	
May 15 2018	249.24526	1.05191	1.05164	1.03982	1.03182	
May 16 2018	249.26342	1.05199	1.05171	1.03989	1.03189	
May 17 2018	249.28158	1.05207	1.05179	1.03997	1.03197	
May 18 2018	249.29974	1.05214	1.05187	1.04004	1.03204	
May 19 2018	249.31790	1.05222	1.05194	1.04012	1.03212	
May 20 2018	249.33606	1.05230	1.05202	1.04019	1.03219	
May 21 2018	249.35423	1.05237	1.05210	1.04027	1.03227	
May 22 2018	249.37239	1.05245	1.05217	1.04035	1.03234	
May 23 2018	249.39055	1.05253	1.05225	1.04042	1.03242	
May 24 2018	249.40871	1.05260	1.05233	1.04050	1.03250	
May 25 2018	249.42687	1.05268	1.05240	1.04057	1.03257	
May 26 2018	249.44503	1.05276	1.05248	1.04065	1.03265	
May 27 2018	249.46319	1.05283	1.05256	1.04073	1.03272	
May 28 2018	249.48135	1.05291	1.05263	1.04080	1.03280	
May 29 2018	249.49952	1.05299	1.05271	1.04088	1.03287	
May 30 2018	249.51768	1.05306	1.05279	1.04095	1.03295	
May 31 2018	249.53584	1.05314	1.05286	1.04103	1.03302	
CPI-U (NSA) for:	January 2018	247.867	February 2018	248.991	March 2018	249.554

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-7/8% 30-Year TIPS TIPS of February 2047 912810RW0 February 15, 2017 February 28, 2017 June 30, 2017 October 31, 2017	0-1/8% 5-Year TIPS Series X-2022 912828X39 April 15, 2017 April 28, 2017 August 31, 2017 December 29, 2017	0-3/8% 10-Year TIPS Series D-2027 9128282L3 July 15, 2017 July 31, 2017 September 29, 2017 November 30, 2017	0-1/2% 10-Year TIPS Series A-2028 9128283R9 January 15, 2018 January 31, 2018 March 29, 2018
Maturity Date: Ref CPI on Dated Date:			February 15, 2047 241.39250	April 15, 2022 243.19553	July 15, 2027 244.61839	January 15, 2028 246.66571
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2018	248.99100	1.03148	1.02383	1.01788	1.00943	
May 2 2018	249.00916	1.03155	1.02391	1.01795	1.00950	
May 3 2018	249.02732	1.03163	1.02398	1.01802	1.00957	
May 4 2018	249.04548	1.03170	1.02405	1.01810	1.00965	
May 5 2018	249.06365	1.03178	1.02413	1.01817	1.00972	
May 6 2018	249.08181	1.03185	1.02420	1.01825	1.00980	
May 7 2018	249.09997	1.03193	1.02428	1.01832	1.00987	
May 8 2018	249.11813	1.03200	1.02435	1.01839	1.00994	
May 9 2018	249.13629	1.03208	1.02443	1.01847	1.01002	
May 10 2018	249.15445	1.03215	1.02450	1.01854	1.01009	
May 11 2018	249.17261	1.03223	1.02458	1.01862	1.01016	
May 12 2018	249.19077	1.03231	1.02465	1.01869	1.01024	
May 13 2018	249.20894	1.03238	1.02473	1.01877	1.01031	
May 14 2018	249.22710	1.03246	1.02480	1.01884	1.01038	
May 15 2018	249.24526	1.03253	1.02488	1.01891	1.01046	
May 16 2018	249.26342	1.03261	1.02495	1.01899	1.01053	
May 17 2018	249.28158	1.03268	1.02503	1.01906	1.01060	
May 18 2018	249.29974	1.03276	1.02510	1.01914	1.01068	
May 19 2018	249.31790	1.03283	1.02517	1.01921	1.01075	
May 20 2018	249.33606	1.03291	1.02525	1.01929	1.01083	
May 21 2018	249.35423	1.03298	1.02532	1.01936	1.01090	
May 22 2018	249.37239	1.03306	1.02540	1.01943	1.01097	
May 23 2018	249.39055	1.03313	1.02547	1.01951	1.01105	
May 24 2018	249.40871	1.03321	1.02555	1.01958	1.01112	
May 25 2018	249.42687	1.03328	1.02562	1.01966	1.01119	
May 26 2018	249.44503	1.03336	1.02570	1.01973	1.01127	
May 27 2018	249.46319	1.03343	1.02577	1.01981	1.01134	
May 28 2018	249.48135	1.03351	1.02585	1.01988	1.01141	
May 29 2018	249.49952	1.03358	1.02592	1.01995	1.01149	
May 30 2018	249.51768	1.03366	1.02600	1.02003	1.01156	
May 31 2018	249.53584	1.03373	1.02607	1.02010	1.01164	
CPI-U (NSA) for:	January 2018	247.867	February 2018	248.991	March 2018	249.554

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s): Maturity Date: Ref CPI on Dated Date:			1% 30-Year TIPS TIPS of February 2048 912810SB5 February 15, 2018 February 28, 2018 February 15, 2048 246.59650					
Date			Ref CPI		Index Ratio			
May	1	2018	248.99100		1.00971			
May	2	2018	249.00916		1.00978			
May	3	2018	249.02732		1.00986			
May	4	2018	249.04548		1.00993			
May	5	2018	249.06365		1.01000			
May	6	2018	249.08181		1.01008			
May	7	2018	249.09997		1.01015			
May	8	2018	249.11813		1.01023			
May	9	2018	249.13629		1.01030			
May	10	2018	249.15445		1.01037			
May	11	2018	249.17261		1.01045			
May	12	2018	249.19077		1.01052			
May	13	2018	249.20894		1.01059			
May	14	2018	249.22710		1.01067			
May	15	2018	249.24526		1.01074			
May	16	2018	249.26342		1.01081			
May	17	2018	249.28158		1.01089			
May	18	2018	249.29974		1.01096			
May	19	2018	249.31790		1.01104			
May	20	2018	249.33606		1.01111			
May	21	2018	249.35423		1.01118			
May	22	2018	249.37239		1.01126			
May	23	2018	249.39055		1.01133			
May	24	2018	249.40871		1.01140			
May	25	2018	249.42687		1.01148			
May	26	2018	249.44503		1.01155			
May	27	2018	249.46319		1.01163			
May	28	2018	249.48135		1.01170			
May	29	2018	249.49952		1.01177			
May	30	2018	249.51768		1.01185			
May	31	2018	249.53584		1.01192			
CPI-U (NSA) for:			January 2018	247.867	February 2018	248.991	March 2018	249.554