

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

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	
October 1 2022	296.27600	1.83180	1.80224	1.66916	1.57178	
October 2 2022	296.27261	1.83178	1.80222	1.66914	1.57176	
October 3 2022	296.26923	1.83176	1.80220	1.66912	1.57175	
October 4 2022	296.26584	1.83174	1.80218	1.66910	1.57173	
October 5 2022	296.26245	1.83172	1.80216	1.66908	1.57171	
October 6 2022	296.25906	1.83170	1.80214	1.66907	1.57169	
October 7 2022	296.25568	1.83168	1.80211	1.66905	1.57168	
October 8 2022	296.25229	1.83166	1.80209	1.66903	1.57166	
October 9 2022	296.24890	1.83164	1.80207	1.66901	1.57164	
October 10 2022	296.24552	1.83162	1.80205	1.66899	1.57162	
October 11 2022	296.24213	1.83159	1.80203	1.66897	1.57160	
October 12 2022	296.23874	1.83157	1.80201	1.66895	1.57159	
October 13 2022	296.23535	1.83155	1.80199	1.66893	1.57157	
October 14 2022	296.23197	1.83153	1.80197	1.66891	1.57155	
October 15 2022	296.22858	1.83151	1.80195	1.66889	1.57153	
October 16 2022	296.22519	1.83149	1.80193	1.66887	1.57151	
October 17 2022	296.22181	1.83147	1.80191	1.66886	1.57150	
October 18 2022	296.21842	1.83145	1.80189	1.66884	1.57148	
October 19 2022	296.21503	1.83143	1.80187	1.66882	1.57146	
October 20 2022	296.21165	1.83141	1.80185	1.66880	1.57144	
October 21 2022	296.20826	1.83139	1.80183	1.66878	1.57142	
October 22 2022	296.20487	1.83136	1.80181	1.66876	1.57141	
October 23 2022	296.20148	1.83134	1.80179	1.66874	1.57139	
October 24 2022	296.19810	1.83132	1.80176	1.66872	1.57137	
October 25 2022	296.19471	1.83130	1.80174	1.66870	1.57135	
October 26 2022	296.19132	1.83128	1.80172	1.66868	1.57133	
October 27 2022	296.18794	1.83126	1.80170	1.66866	1.57132	
October 28 2022	296.18455	1.83124	1.80168	1.66865	1.57130	
October 29 2022	296.18116	1.83122	1.80166	1.66863	1.57128	
October 30 2022	296.17777	1.83120	1.80164	1.66861	1.57126	
October 31 2022	296.17439	1.83118	1.80162	1.66859	1.57124	
CPI-U (NSA) for:			June 2022 296.311	July 2022 296.276	August 2022 296.171	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

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	2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 198.47742	January 15, 2027 201.66452	January 15, 2028 209.49645	January 15, 2029 214.69971
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.49274	1.46915	1.41423	1.37996	
October 2 2022	296.27261	1.49273	1.46914	1.41421	1.37994	
October 3 2022	296.26923	1.49271	1.46912	1.41420	1.37992	
October 4 2022	296.26584	1.49269	1.46910	1.41418	1.37991	
October 5 2022	296.26245	1.49268	1.46909	1.41416	1.37989	
October 6 2022	296.25906	1.49266	1.46907	1.41415	1.37988	
October 7 2022	296.25568	1.49264	1.46905	1.41413	1.37986	
October 8 2022	296.25229	1.49262	1.46904	1.41412	1.37984	
October 9 2022	296.24890	1.49261	1.46902	1.41410	1.37983	
October 10 2022	296.24552	1.49259	1.46900	1.41408	1.37981	
October 11 2022	296.24213	1.49257	1.46898	1.41407	1.37980	
October 12 2022	296.23874	1.49256	1.46897	1.41405	1.37978	
October 13 2022	296.23535	1.49254	1.46895	1.41404	1.37977	
October 14 2022	296.23197	1.49252	1.46893	1.41402	1.37975	
October 15 2022	296.22858	1.49251	1.46892	1.41400	1.37973	
October 16 2022	296.22519	1.49249	1.46890	1.41399	1.37972	
October 17 2022	296.22181	1.49247	1.46888	1.41397	1.37970	
October 18 2022	296.21842	1.49245	1.46887	1.41395	1.37969	
October 19 2022	296.21503	1.49244	1.46885	1.41394	1.37967	
October 20 2022	296.21165	1.49242	1.46883	1.41392	1.37966	
October 21 2022	296.20826	1.49240	1.46882	1.41391	1.37964	
October 22 2022	296.20487	1.49239	1.46880	1.41389	1.37962	
October 23 2022	296.20148	1.49237	1.46878	1.41387	1.37961	
October 24 2022	296.19810	1.49235	1.46877	1.41386	1.37959	
October 25 2022	296.19471	1.49233	1.46875	1.41384	1.37958	
October 26 2022	296.19132	1.49232	1.46873	1.41383	1.37956	
October 27 2022	296.18794	1.49230	1.46872	1.41381	1.37955	
October 28 2022	296.18455	1.49228	1.46870	1.41379	1.37953	
October 29 2022	296.18116	1.49227	1.46868	1.41378	1.37951	
October 30 2022	296.17777	1.49225	1.46867	1.41376	1.37950	
October 31 2022	296.17439	1.49223	1.46865	1.41374	1.37948	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

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	2-1/8% 30-Year TIPS TIPS of February 2041 912810QP6 February 15, 2011 February 28, 2011 June 30, 2011 October 31, 2011	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 A-2023 912828UH1 January 15, 2013 January 31, 2013 March 28, 2013 May 31, 2013
Maturity Date: Ref CPI on Dated Date:			February 15, 2040 216.13950	February 15, 2041 218.99100	February 15, 2042 225.96062	January 15, 2023 230.82203
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.37076	1.35291	1.31118	1.28357	
October 2 2022	296.27261	1.37075	1.35290	1.31117	1.28355	
October 3 2022	296.26923	1.37073	1.35288	1.31115	1.28354	
October 4 2022	296.26584	1.37072	1.35287	1.31114	1.28352	
October 5 2022	296.26245	1.37070	1.35285	1.31112	1.28351	
October 6 2022	296.25906	1.37068	1.35284	1.31111	1.28350	
October 7 2022	296.25568	1.37067	1.35282	1.31109	1.28348	
October 8 2022	296.25229	1.37065	1.35281	1.31108	1.28347	
October 9 2022	296.24890	1.37064	1.35279	1.31106	1.28345	
October 10 2022	296.24552	1.37062	1.35277	1.31105	1.28344	
October 11 2022	296.24213	1.37061	1.35276	1.31103	1.28342	
October 12 2022	296.23874	1.37059	1.35274	1.31102	1.28341	
October 13 2022	296.23535	1.37057	1.35273	1.31100	1.28339	
October 14 2022	296.23197	1.37056	1.35271	1.31099	1.28338	
October 15 2022	296.22858	1.37054	1.35270	1.31097	1.28336	
October 16 2022	296.22519	1.37053	1.35268	1.31096	1.28335	
October 17 2022	296.22181	1.37051	1.35267	1.31094	1.28333	
October 18 2022	296.21842	1.37050	1.35265	1.31093	1.28332	
October 19 2022	296.21503	1.37048	1.35264	1.31091	1.28330	
October 20 2022	296.21165	1.37047	1.35262	1.31090	1.28329	
October 21 2022	296.20826	1.37045	1.35260	1.31088	1.28328	
October 22 2022	296.20487	1.37043	1.35259	1.31087	1.28326	
October 23 2022	296.20148	1.37042	1.35257	1.31085	1.28325	
October 24 2022	296.19810	1.37040	1.35256	1.31084	1.28323	
October 25 2022	296.19471	1.37039	1.35254	1.31082	1.28322	
October 26 2022	296.19132	1.37037	1.35253	1.31081	1.28320	
October 27 2022	296.18794	1.37036	1.35251	1.31079	1.28319	
October 28 2022	296.18455	1.37034	1.35250	1.31078	1.28317	
October 29 2022	296.18116	1.37032	1.35248	1.31076	1.28316	
October 30 2022	296.17777	1.37031	1.35247	1.31075	1.28314	
October 31 2022	296.17439	1.37029	1.35245	1.31073	1.28313	
CPI-U (NSA) for:			June 2022 296.311	July 2022 296.276	August 2022 296.171	

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October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-5/8% 30-Year TIPS TIPS of February 2043 912810RA8 February 15, 2013 February 28, 2013 June 28, 2013 October 31, 2013	0-3/8% 10-Year TIPS Series D-2023 912828VM9 July 15, 2013 July 31, 2013 September 30, 2013 November 29, 2013	0-5/8% 10-Year TIPS Series A-2024 912828B25 January 15, 2014 January 31, 2014 March 31, 2014 May 30, 2014	1-3/8% 30-Year TIPS TIPS of February 2044 912810RF7 February 15, 2014 February 28, 2014 June 30, 2014 October 31, 2014
Maturity Date: Ref CPI on Dated Date:			February 15, 2043 229.91100	July 15, 2023 232.71797	January 15, 2024 233.33058	February 15, 2044 233.05900
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.28866	1.27311	1.26977	1.27125	
October 2 2022	296.27261	1.28864	1.27310	1.26975	1.27123	
October 3 2022	296.26923	1.28863	1.27308	1.26974	1.27122	
October 4 2022	296.26584	1.28861	1.27307	1.26973	1.27121	
October 5 2022	296.26245	1.28860	1.27305	1.26971	1.27119	
October 6 2022	296.25906	1.28858	1.27304	1.26970	1.27118	
October 7 2022	296.25568	1.28857	1.27302	1.26968	1.27116	
October 8 2022	296.25229	1.28855	1.27301	1.26967	1.27115	
October 9 2022	296.24890	1.28854	1.27300	1.26965	1.27113	
October 10 2022	296.24552	1.28852	1.27298	1.26964	1.27112	
October 11 2022	296.24213	1.28851	1.27297	1.26962	1.27110	
October 12 2022	296.23874	1.28849	1.27295	1.26961	1.27109	
October 13 2022	296.23535	1.28848	1.27294	1.26960	1.27107	
October 14 2022	296.23197	1.28846	1.27292	1.26958	1.27106	
October 15 2022	296.22858	1.28845	1.27291	1.26957	1.27105	
October 16 2022	296.22519	1.28843	1.27289	1.26955	1.27103	
October 17 2022	296.22181	1.28842	1.27288	1.26954	1.27102	
October 18 2022	296.21842	1.28840	1.27286	1.26952	1.27100	
October 19 2022	296.21503	1.28839	1.27285	1.26951	1.27099	
October 20 2022	296.21165	1.28838	1.27284	1.26949	1.27097	
October 21 2022	296.20826	1.28836	1.27282	1.26948	1.27096	
October 22 2022	296.20487	1.28835	1.27281	1.26946	1.27094	
October 23 2022	296.20148	1.28833	1.27279	1.26945	1.27093	
October 24 2022	296.19810	1.28832	1.27278	1.26944	1.27091	
October 25 2022	296.19471	1.28830	1.27276	1.26942	1.27090	
October 26 2022	296.19132	1.28829	1.27275	1.26941	1.27089	
October 27 2022	296.18794	1.28827	1.27273	1.26939	1.27087	
October 28 2022	296.18455	1.28826	1.27272	1.26938	1.27086	
October 29 2022	296.18116	1.28824	1.27270	1.26936	1.27084	
October 30 2022	296.17777	1.28823	1.27269	1.26935	1.27083	
October 31 2022	296.17439	1.28821	1.27268	1.26933	1.27081	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-3/4% 30-Year TIPS TIPS of February 2045 912810RL4 February 15, 2015 February 27, 2015 June 30, 2015 October 30, 2015	0-3/8% 10-Year TIPS Series D-2025 912828XL9 July 15, 2015 July 31, 2015 September 30, 2015 November 30, 2015
Maturity Date: Ref CPI on Dated Date:			July 15, 2024 237.44594	January 15, 2025 236.85403	February 15, 2045 235.48150	July 15, 2025 237.14365
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.24776	1.25088	1.25817	1.24935	
October 2 2022	296.27261	1.24775	1.25087	1.25816	1.24934	
October 3 2022	296.26923	1.24773	1.25085	1.25814	1.24932	
October 4 2022	296.26584	1.24772	1.25084	1.25813	1.24931	
October 5 2022	296.26245	1.24770	1.25082	1.25811	1.24930	
October 6 2022	296.25906	1.24769	1.25081	1.25810	1.24928	
October 7 2022	296.25568	1.24768	1.25079	1.25808	1.24927	
October 8 2022	296.25229	1.24766	1.25078	1.25807	1.24925	
October 9 2022	296.24890	1.24765	1.25077	1.25806	1.24924	
October 10 2022	296.24552	1.24763	1.25075	1.25804	1.24922	
October 11 2022	296.24213	1.24762	1.25074	1.25803	1.24921	
October 12 2022	296.23874	1.24760	1.25072	1.25801	1.24920	
October 13 2022	296.23535	1.24759	1.25071	1.25800	1.24918	
October 14 2022	296.23197	1.24758	1.25069	1.25798	1.24917	
October 15 2022	296.22858	1.24756	1.25068	1.25797	1.24915	
October 16 2022	296.22519	1.24755	1.25067	1.25796	1.24914	
October 17 2022	296.22181	1.24753	1.25065	1.25794	1.24912	
October 18 2022	296.21842	1.24752	1.25064	1.25793	1.24911	
October 19 2022	296.21503	1.24751	1.25062	1.25791	1.24910	
October 20 2022	296.21165	1.24749	1.25061	1.25790	1.24908	
October 21 2022	296.20826	1.24748	1.25059	1.25788	1.24907	
October 22 2022	296.20487	1.24746	1.25058	1.25787	1.24905	
October 23 2022	296.20148	1.24745	1.25057	1.25785	1.24904	
October 24 2022	296.19810	1.24743	1.25055	1.25784	1.24902	
October 25 2022	296.19471	1.24742	1.25054	1.25783	1.24901	
October 26 2022	296.19132	1.24741	1.25052	1.25781	1.24900	
October 27 2022	296.18794	1.24739	1.25051	1.25780	1.24898	
October 28 2022	296.18455	1.24738	1.25049	1.25778	1.24897	
October 29 2022	296.18116	1.24736	1.25048	1.25777	1.24895	
October 30 2022	296.17777	1.24735	1.25047	1.25775	1.24894	
October 31 2022	296.17439	1.24733	1.25045	1.25774	1.24892	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-5/8% 10-Year TIPS Series A-2026 912828N71 January 15, 2016 January 29, 2016 March 31, 2016 May 31, 2016	1% 30-Year TIPS TIPS of February 2046 912810RR1 February 15, 2016 February 29, 2016 June 30, 2016 October 31, 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:			January 15, 2026 237.61129	February 15, 2046 236.94448	July 15, 2026 239.70132	January 15, 2027 241.55919
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.24689	1.25040	1.23602	1.22652	
October 2 2022	296.27261	1.24688	1.25039	1.23601	1.22650	
October 3 2022	296.26923	1.24687	1.25037	1.23599	1.22649	
October 4 2022	296.26584	1.24685	1.25036	1.23598	1.22647	
October 5 2022	296.26245	1.24684	1.25035	1.23597	1.22646	
October 6 2022	296.25906	1.24682	1.25033	1.23595	1.22644	
October 7 2022	296.25568	1.24681	1.25032	1.23594	1.22643	
October 8 2022	296.25229	1.24679	1.25030	1.23592	1.22642	
October 9 2022	296.24890	1.24678	1.25029	1.23591	1.22640	
October 10 2022	296.24552	1.24677	1.25027	1.23589	1.22639	
October 11 2022	296.24213	1.24675	1.25026	1.23588	1.22637	
October 12 2022	296.23874	1.24674	1.25025	1.23587	1.22636	
October 13 2022	296.23535	1.24672	1.25023	1.23585	1.22635	
October 14 2022	296.23197	1.24671	1.25022	1.23584	1.22633	
October 15 2022	296.22858	1.24669	1.25020	1.23582	1.22632	
October 16 2022	296.22519	1.24668	1.25019	1.23581	1.22630	
October 17 2022	296.22181	1.24667	1.25017	1.23580	1.22629	
October 18 2022	296.21842	1.24665	1.25016	1.23578	1.22628	
October 19 2022	296.21503	1.24664	1.25015	1.23577	1.22626	
October 20 2022	296.21165	1.24662	1.25013	1.23575	1.22625	
October 21 2022	296.20826	1.24661	1.25012	1.23574	1.22623	
October 22 2022	296.20487	1.24659	1.25010	1.23572	1.22622	
October 23 2022	296.20148	1.24658	1.25009	1.23571	1.22621	
October 24 2022	296.19810	1.24657	1.25007	1.23570	1.22619	
October 25 2022	296.19471	1.24655	1.25006	1.23568	1.22618	
October 26 2022	296.19132	1.24654	1.25005	1.23567	1.22616	
October 27 2022	296.18794	1.24652	1.25003	1.23565	1.22615	
October 28 2022	296.18455	1.24651	1.25002	1.23564	1.22614	
October 29 2022	296.18116	1.24649	1.25000	1.23563	1.22612	
October 30 2022	296.17777	1.24648	1.24999	1.23561	1.22611	
October 31 2022	296.17439	1.24647	1.24997	1.23560	1.22609	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

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	0-3/8% 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 May 31, 2018	1% 30-Year TIPS TIPS of February 2048 912810SB5 February 15, 2018 February 28, 2018 June 29, 2018 October 31, 2018
Maturity Date: Ref CPI on Dated Date:			February 15, 2047 241.39250	July 15, 2027 244.61839	January 15, 2028 246.66571	February 15, 2048 246.59650
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.22736	1.21118	1.20112	1.20146	
October 2 2022	296.27261	1.22735	1.21116	1.20111	1.20145	
October 3 2022	296.26923	1.22733	1.21115	1.20110	1.20143	
October 4 2022	296.26584	1.22732	1.21113	1.20108	1.20142	
October 5 2022	296.26245	1.22731	1.21112	1.20107	1.20141	
October 6 2022	296.25906	1.22729	1.21111	1.20105	1.20139	
October 7 2022	296.25568	1.22728	1.21109	1.20104	1.20138	
October 8 2022	296.25229	1.22726	1.21108	1.20103	1.20136	
October 9 2022	296.24890	1.22725	1.21107	1.20101	1.20135	
October 10 2022	296.24552	1.22724	1.21105	1.20100	1.20134	
October 11 2022	296.24213	1.22722	1.21104	1.20099	1.20132	
October 12 2022	296.23874	1.22721	1.21102	1.20097	1.20131	
October 13 2022	296.23535	1.22719	1.21101	1.20096	1.20130	
October 14 2022	296.23197	1.22718	1.21100	1.20095	1.20128	
October 15 2022	296.22858	1.22717	1.21098	1.20093	1.20127	
October 16 2022	296.22519	1.22715	1.21097	1.20092	1.20125	
October 17 2022	296.22181	1.22714	1.21095	1.20090	1.20124	
October 18 2022	296.21842	1.22712	1.21094	1.20089	1.20123	
October 19 2022	296.21503	1.22711	1.21093	1.20088	1.20121	
October 20 2022	296.21165	1.22710	1.21091	1.20086	1.20120	
October 21 2022	296.20826	1.22708	1.21090	1.20085	1.20119	
October 22 2022	296.20487	1.22707	1.21089	1.20084	1.20117	
October 23 2022	296.20148	1.22705	1.21087	1.20082	1.20116	
October 24 2022	296.19810	1.22704	1.21086	1.20081	1.20114	
October 25 2022	296.19471	1.22703	1.21084	1.20079	1.20113	
October 26 2022	296.19132	1.22701	1.21083	1.20078	1.20112	
October 27 2022	296.18794	1.22700	1.21082	1.20077	1.20110	
October 28 2022	296.18455	1.22698	1.21080	1.20075	1.20109	
October 29 2022	296.18116	1.22697	1.21079	1.20074	1.20108	
October 30 2022	296.17777	1.22696	1.21077	1.20073	1.20106	
October 31 2022	296.17439	1.22694	1.21076	1.20071	1.20105	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-5/8% 5-Year TIPS Series X-2023 9128284H0 April 15, 2018 April 30, 2018 August 31, 2018 December 31, 2018	0-3/4% 10-Year TIPS Series D-2028 912828Y38 July 15, 2018 July 31, 2018 September 28, 2018 November 30, 2018	0-7/8% 10-Year TIPS Series A-2029 9128285W6 January 15, 2019 January 31, 2019 March 29, 2019 May 31, 2019	1% 30-Year TIPS TIPS of February 2049 912810SG4 February 15, 2019 February 28, 2019 August 30, 2019
Maturity Date: Ref CPI on Dated Date:			April 15, 2023 248.39153	July 15, 2028 251.01658	January 15, 2029 252.50248	February 15, 2049 251.63550
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.19278	1.18030	1.17336	1.17740	
October 2 2022	296.27261	1.19276	1.18029	1.17335	1.17739	
October 3 2022	296.26923	1.19275	1.18028	1.17333	1.17737	
October 4 2022	296.26584	1.19274	1.18026	1.17332	1.17736	
October 5 2022	296.26245	1.19272	1.18025	1.17331	1.17735	
October 6 2022	296.25906	1.19271	1.18024	1.17329	1.17733	
October 7 2022	296.25568	1.19270	1.18022	1.17328	1.17732	
October 8 2022	296.25229	1.19268	1.18021	1.17326	1.17731	
October 9 2022	296.24890	1.19267	1.18020	1.17325	1.17729	
October 10 2022	296.24552	1.19266	1.18018	1.17324	1.17728	
October 11 2022	296.24213	1.19264	1.18017	1.17322	1.17727	
October 12 2022	296.23874	1.19263	1.18016	1.17321	1.17725	
October 13 2022	296.23535	1.19261	1.18014	1.17320	1.17724	
October 14 2022	296.23197	1.19260	1.18013	1.17318	1.17723	
October 15 2022	296.22858	1.19259	1.18012	1.17317	1.17721	
October 16 2022	296.22519	1.19257	1.18010	1.17316	1.17720	
October 17 2022	296.22181	1.19256	1.18009	1.17314	1.17719	
October 18 2022	296.21842	1.19255	1.18008	1.17313	1.17717	
October 19 2022	296.21503	1.19253	1.18006	1.17312	1.17716	
October 20 2022	296.21165	1.19252	1.18005	1.17310	1.17715	
October 21 2022	296.20826	1.19251	1.18003	1.17309	1.17713	
October 22 2022	296.20487	1.19249	1.18002	1.17308	1.17712	
October 23 2022	296.20148	1.19248	1.18001	1.17306	1.17711	
October 24 2022	296.19810	1.19246	1.17999	1.17305	1.17709	
October 25 2022	296.19471	1.19245	1.17998	1.17304	1.17708	
October 26 2022	296.19132	1.19244	1.17997	1.17302	1.17706	
October 27 2022	296.18794	1.19242	1.17995	1.17301	1.17705	
October 28 2022	296.18455	1.19241	1.17994	1.17300	1.17704	
October 29 2022	296.18116	1.19240	1.17993	1.17298	1.17702	
October 30 2022	296.17777	1.19238	1.17991	1.17297	1.17701	
October 31 2022	296.17439	1.19237	1.17990	1.17296	1.17700	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/2% 5-Year TIPS Series X-2024 9128286N5 April 15, 2019 April 30, 2019 June 28, 2019	0-1/4% 10-Year TIPS Series D-2029 9128287D6 July 15, 2019 July 31, 2019 September 30, 2019 November 29, 2019	0-1/8% 5-Year TIPS Series AE-2024 912828YL8 October 15, 2019 October 31, 2019 December 31, 2019	0-1/8% 10-Year TIPS Series A-2030 912828Z37 January 15, 2020 January 31, 2020 March 31, 2020 May 29, 2020
Maturity Date: Ref CPI on Dated Date:			April 15, 2024 252.20853	July 15, 2029 255.79368	October 15, 2024 256.56513	January 15, 2030 257.28368
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.17473	1.15826	1.15478	1.15155	
October 2 2022	296.27261	1.17471	1.15825	1.15477	1.15154	
October 3 2022	296.26923	1.17470	1.15824	1.15475	1.15153	
October 4 2022	296.26584	1.17469	1.15822	1.15474	1.15151	
October 5 2022	296.26245	1.17467	1.15821	1.15473	1.15150	
October 6 2022	296.25906	1.17466	1.15820	1.15471	1.15149	
October 7 2022	296.25568	1.17465	1.15818	1.15470	1.15147	
October 8 2022	296.25229	1.17463	1.15817	1.15469	1.15146	
October 9 2022	296.24890	1.17462	1.15816	1.15467	1.15145	
October 10 2022	296.24552	1.17461	1.15814	1.15466	1.15144	
October 11 2022	296.24213	1.17459	1.15813	1.15465	1.15142	
October 12 2022	296.23874	1.17458	1.15812	1.15463	1.15141	
October 13 2022	296.23535	1.17457	1.15810	1.15462	1.15140	
October 14 2022	296.23197	1.17455	1.15809	1.15461	1.15138	
October 15 2022	296.22858	1.17454	1.15808	1.15459	1.15137	
October 16 2022	296.22519	1.17452	1.15806	1.15458	1.15136	
October 17 2022	296.22181	1.17451	1.15805	1.15457	1.15134	
October 18 2022	296.21842	1.17450	1.15804	1.15455	1.15133	
October 19 2022	296.21503	1.17448	1.15802	1.15454	1.15132	
October 20 2022	296.21165	1.17447	1.15801	1.15453	1.15130	
October 21 2022	296.20826	1.17446	1.15800	1.15451	1.15129	
October 22 2022	296.20487	1.17444	1.15798	1.15450	1.15128	
October 23 2022	296.20148	1.17443	1.15797	1.15449	1.15126	
October 24 2022	296.19810	1.17442	1.15796	1.15448	1.15125	
October 25 2022	296.19471	1.17440	1.15794	1.15446	1.15124	
October 26 2022	296.19132	1.17439	1.15793	1.15445	1.15122	
October 27 2022	296.18794	1.17438	1.15792	1.15444	1.15121	
October 28 2022	296.18455	1.17436	1.15790	1.15442	1.15120	
October 29 2022	296.18116	1.17435	1.15789	1.15441	1.15119	
October 30 2022	296.17777	1.17434	1.15788	1.15440	1.15117	
October 31 2022	296.17439	1.17432	1.15786	1.15438	1.15116	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/4% 30-Year TIPS TIPS of February 2050 912810SM1 February 15, 2020 February 28, 2020 August 31, 2020	0-1/8% 5-Year TIPS Series X-2025 912828ZJ2 April 15, 2020 April 30, 2020 June 30, 2020 July 13, 2020	0-1/8% 10-Year TIPS Series D-2030 912828ZZ6 July 15, 2020 July 31, 2020 September 30, 2020 November 30, 2020	0-1/8% 5-Year TIPS Series AE-2025 91282CAQ4 October 15, 2020 October 30, 2020 December 31, 2020
Maturity Date: Ref CPI on Dated Date:			February 15, 2050 257.09503	April 15, 2025 258.30093	July 15, 2030 256.39126	October 15, 2025 259.46997
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.15240	1.14702	1.15556	1.14185	
October 2 2022	296.27261	1.15239	1.14701	1.15555	1.14184	
October 3 2022	296.26923	1.15237	1.14699	1.15554	1.14182	
October 4 2022	296.26584	1.15236	1.14698	1.15552	1.14181	
October 5 2022	296.26245	1.15235	1.14697	1.15551	1.14180	
October 6 2022	296.25906	1.15233	1.14695	1.15550	1.14179	
October 7 2022	296.25568	1.15232	1.14694	1.15548	1.14177	
October 8 2022	296.25229	1.15231	1.14693	1.15547	1.14176	
October 9 2022	296.24890	1.15229	1.14691	1.15546	1.14175	
October 10 2022	296.24552	1.15228	1.14690	1.15544	1.14173	
October 11 2022	296.24213	1.15227	1.14689	1.15543	1.14172	
October 12 2022	296.23874	1.15225	1.14687	1.15542	1.14171	
October 13 2022	296.23535	1.15224	1.14686	1.15540	1.14169	
October 14 2022	296.23197	1.15223	1.14685	1.15539	1.14168	
October 15 2022	296.22858	1.15221	1.14684	1.15538	1.14167	
October 16 2022	296.22519	1.15220	1.14682	1.15536	1.14166	
October 17 2022	296.22181	1.15219	1.14681	1.15535	1.14164	
October 18 2022	296.21842	1.15217	1.14680	1.15534	1.14163	
October 19 2022	296.21503	1.15216	1.14678	1.15532	1.14162	
October 20 2022	296.21165	1.15215	1.14677	1.15531	1.14160	
October 21 2022	296.20826	1.15214	1.14676	1.15530	1.14159	
October 22 2022	296.20487	1.15212	1.14674	1.15528	1.14158	
October 23 2022	296.20148	1.15211	1.14673	1.15527	1.14156	
October 24 2022	296.19810	1.15210	1.14672	1.15526	1.14155	
October 25 2022	296.19471	1.15208	1.14670	1.15524	1.14154	
October 26 2022	296.19132	1.15207	1.14669	1.15523	1.14152	
October 27 2022	296.18794	1.15206	1.14668	1.15522	1.14151	
October 28 2022	296.18455	1.15204	1.14666	1.15521	1.14150	
October 29 2022	296.18116	1.15203	1.14665	1.15519	1.14149	
October 30 2022	296.17777	1.15202	1.14664	1.15518	1.14147	
October 31 2022	296.17439	1.15200	1.14663	1.15517	1.14146	
CPI-U (NSA) for:	June 2022	296.311	July 2022	296.276	August 2022	296.171

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 10-Year TIPS Series A-2031 91282CBF7 January 15, 2021 January 29, 2021 March 31, 2021 May 28, 2021	0-1/8% 30-Year TIPS TIPS of February 2051 912810SV1 February 15, 2021 February 26, 2021 August 31, 2021	0-1/8% 5-Year TIPS Series X-2026 91282CCA7 April 15, 2021 April 30, 2021 June 30, 2021	0-1/8% 10-Year TIPS Series D-2031 91282CCM1 July 15, 2021 July 30, 2021 September 30, 2021 November 30, 2021
Maturity Date: Ref CPI on Dated Date:			January 15, 2031 260.31619	February 15, 2051 260.35150	April 15, 2026 262.25027	July 15, 2031 268.02090
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.13814	1.13798	1.12975	1.10542	
October 2 2022	296.27261	1.13813	1.13797	1.12973	1.10541	
October 3 2022	296.26923	1.13811	1.13796	1.12972	1.10540	
October 4 2022	296.26584	1.13810	1.13795	1.12971	1.10538	
October 5 2022	296.26245	1.13809	1.13793	1.12969	1.10537	
October 6 2022	296.25906	1.13807	1.13792	1.12968	1.10536	
October 7 2022	296.25568	1.13806	1.13791	1.12967	1.10535	
October 8 2022	296.25229	1.13805	1.13789	1.12965	1.10533	
October 9 2022	296.24890	1.13803	1.13788	1.12964	1.10532	
October 10 2022	296.24552	1.13802	1.13787	1.12963	1.10531	
October 11 2022	296.24213	1.13801	1.13785	1.12962	1.10529	
October 12 2022	296.23874	1.13800	1.13784	1.12960	1.10528	
October 13 2022	296.23535	1.13798	1.13783	1.12959	1.10527	
October 14 2022	296.23197	1.13797	1.13782	1.12958	1.10526	
October 15 2022	296.22858	1.13796	1.13780	1.12956	1.10524	
October 16 2022	296.22519	1.13794	1.13779	1.12955	1.10523	
October 17 2022	296.22181	1.13793	1.13778	1.12954	1.10522	
October 18 2022	296.21842	1.13792	1.13776	1.12953	1.10521	
October 19 2022	296.21503	1.13790	1.13775	1.12951	1.10519	
October 20 2022	296.21165	1.13789	1.13774	1.12950	1.10518	
October 21 2022	296.20826	1.13788	1.13772	1.12949	1.10517	
October 22 2022	296.20487	1.13787	1.13771	1.12947	1.10516	
October 23 2022	296.20148	1.13785	1.13770	1.12946	1.10514	
October 24 2022	296.19810	1.13784	1.13769	1.12945	1.10513	
October 25 2022	296.19471	1.13783	1.13767	1.12944	1.10512	
October 26 2022	296.19132	1.13781	1.13766	1.12942	1.10511	
October 27 2022	296.18794	1.13780	1.13765	1.12941	1.10509	
October 28 2022	296.18455	1.13779	1.13763	1.12940	1.10508	
October 29 2022	296.18116	1.13777	1.13762	1.12938	1.10507	
October 30 2022	296.17777	1.13776	1.13761	1.12937	1.10505	
October 31 2022	296.17439	1.13775	1.13759	1.12936	1.10504	
CPI-U (NSA) for:			June 2022 296.311	July 2022 296.276	August 2022 296.171	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2022

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 5-Year TIPS Series AE-2026 91282CDC2 October 15, 2021 October 29, 2021 December 31, 2021	0-1/8% 10-Year TIPS Series A-2032 91282CDX6 January 15, 2022 January 31, 2022 March 31, 2022 May 31, 2022	0-1/8% 30-Year TIPS TIPS of February 2052 912810TE8 February 15, 2022 February 28, 2022 August 31, 2022	0-1/8% 5-Year TIPS Series X-2027 91282CEJ6 April 15, 2022 April 29, 2022 June 30, 2022
Maturity Date: Ref CPI on Dated Date:			October 15, 2026 273.25771	January 15, 2032 277.20274	February 15, 2052 278.37500	April 15, 2027 282.34640
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2022	296.27600	1.08424	1.06881	1.06431	1.04934	
October 2 2022	296.27261	1.08422	1.06879	1.06429	1.04932	
October 3 2022	296.26923	1.08421	1.06878	1.06428	1.04931	
October 4 2022	296.26584	1.08420	1.06877	1.06427	1.04930	
October 5 2022	296.26245	1.08419	1.06876	1.06426	1.04929	
October 6 2022	296.25906	1.08417	1.06875	1.06424	1.04928	
October 7 2022	296.25568	1.08416	1.06873	1.06423	1.04926	
October 8 2022	296.25229	1.08415	1.06872	1.06422	1.04925	
October 9 2022	296.24890	1.08414	1.06871	1.06421	1.04924	
October 10 2022	296.24552	1.08413	1.06870	1.06420	1.04923	
October 11 2022	296.24213	1.08411	1.06868	1.06418	1.04922	
October 12 2022	296.23874	1.08410	1.06867	1.06417	1.04920	
October 13 2022	296.23535	1.08409	1.06866	1.06416	1.04919	
October 14 2022	296.23197	1.08408	1.06865	1.06415	1.04918	
October 15 2022	296.22858	1.08406	1.06864	1.06413	1.04917	
October 16 2022	296.22519	1.08405	1.06862	1.06412	1.04916	
October 17 2022	296.22181	1.08404	1.06861	1.06411	1.04914	
October 18 2022	296.21842	1.08403	1.06860	1.06410	1.04913	
October 19 2022	296.21503	1.08401	1.06859	1.06409	1.04912	
October 20 2022	296.21165	1.08400	1.06857	1.06407	1.04911	
October 21 2022	296.20826	1.08399	1.06856	1.06406	1.04910	
October 22 2022	296.20487	1.08398	1.06855	1.06405	1.04908	
October 23 2022	296.20148	1.08396	1.06854	1.06404	1.04907	
October 24 2022	296.19810	1.08395	1.06853	1.06403	1.04906	
October 25 2022	296.19471	1.08394	1.06851	1.06401	1.04905	
October 26 2022	296.19132	1.08393	1.06850	1.06400	1.04904	
October 27 2022	296.18794	1.08391	1.06849	1.06399	1.04902	
October 28 2022	296.18455	1.08390	1.06848	1.06398	1.04901	
October 29 2022	296.18116	1.08389	1.06846	1.06396	1.04900	
October 30 2022	296.17777	1.08388	1.06845	1.06395	1.04899	
October 31 2022	296.17439	1.08386	1.06844	1.06394	1.04898	
CPI-U (NSA) for:			June 2022 296.311	July 2022 296.276	August 2022 296.171	

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:			0-5/8% 10-Year TIPS Series D-2032 91282CEZ0 July 15, 2022 July 29, 2022 July 15, 2032 290.54829					
Date			Ref CPI		Index Ratio			
October	1	2022	296.27600	1.01971				
October	2	2022	296.27261	1.01970				
October	3	2022	296.26923	1.01969				
October	4	2022	296.26584	1.01968				
October	5	2022	296.26245	1.01967				
October	6	2022	296.25906	1.01966				
October	7	2022	296.25568	1.01964				
October	8	2022	296.25229	1.01963				
October	9	2022	296.24890	1.01962				
October	10	2022	296.24552	1.01961				
October	11	2022	296.24213	1.01960				
October	12	2022	296.23874	1.01959				
October	13	2022	296.23535	1.01957				
October	14	2022	296.23197	1.01956				
October	15	2022	296.22858	1.01955				
October	16	2022	296.22519	1.01954				
October	17	2022	296.22181	1.01953				
October	18	2022	296.21842	1.01952				
October	19	2022	296.21503	1.01950				
October	20	2022	296.21165	1.01949				
October	21	2022	296.20826	1.01948				
October	22	2022	296.20487	1.01947				
October	23	2022	296.20148	1.01946				
October	24	2022	296.19810	1.01945				
October	25	2022	296.19471	1.01943				
October	26	2022	296.19132	1.01942				
October	27	2022	296.18794	1.01941				
October	28	2022	296.18455	1.01940				
October	29	2022	296.18116	1.01939				
October	30	2022	296.17777	1.01938				
October	31	2022	296.17439	1.01936				
CPI-U (NSA) for:			June 2022	296.311	July 2022	296.276	August 2022	296.171