

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.83202	1.80245	1.66936	1.57197	
September 2 2022	296.30983	1.83201	1.80244	1.66935	1.57196	
September 3 2022	296.30867	1.83201	1.80244	1.66934	1.57196	
September 4 2022	296.30750	1.83200	1.80243	1.66934	1.57195	
September 5 2022	296.30633	1.83199	1.80242	1.66933	1.57194	
September 6 2022	296.30517	1.83198	1.80242	1.66932	1.57194	
September 7 2022	296.30400	1.83198	1.80241	1.66932	1.57193	
September 8 2022	296.30283	1.83197	1.80240	1.66931	1.57193	
September 9 2022	296.30167	1.83196	1.80239	1.66931	1.57192	
September 10 2022	296.30050	1.83196	1.80239	1.66930	1.57191	
September 11 2022	296.29933	1.83195	1.80238	1.66929	1.57191	
September 12 2022	296.29817	1.83194	1.80237	1.66929	1.57190	
September 13 2022	296.29700	1.83193	1.80237	1.66928	1.57189	
September 14 2022	296.29583	1.83193	1.80236	1.66927	1.57189	
September 15 2022	296.29467	1.83192	1.80235	1.66927	1.57188	
September 16 2022	296.29350	1.83191	1.80235	1.66926	1.57188	
September 17 2022	296.29233	1.83191	1.80234	1.66925	1.57187	
September 18 2022	296.29117	1.83190	1.80233	1.66925	1.57186	
September 19 2022	296.29000	1.83189	1.80232	1.66924	1.57186	
September 20 2022	296.28883	1.83188	1.80232	1.66923	1.57185	
September 21 2022	296.28767	1.83188	1.80231	1.66923	1.57184	
September 22 2022	296.28650	1.83187	1.80230	1.66922	1.57184	
September 23 2022	296.28533	1.83186	1.80230	1.66921	1.57183	
September 24 2022	296.28417	1.83185	1.80229	1.66921	1.57183	
September 25 2022	296.28300	1.83185	1.80228	1.66920	1.57182	
September 26 2022	296.28183	1.83184	1.80227	1.66919	1.57181	
September 27 2022	296.28067	1.83183	1.80227	1.66919	1.57181	
September 28 2022	296.27950	1.83183	1.80226	1.66918	1.57180	
September 29 2022	296.27833	1.83182	1.80225	1.66917	1.57180	
September 30 2022	296.27717	1.83181	1.80225	1.66917	1.57179	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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 January 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	
September 1 2022	296.31100	1.49292	1.46933	1.41440	1.38012	
September 2 2022	296.30983	1.49291	1.46932	1.41439	1.38011	
September 3 2022	296.30867	1.49291	1.46931	1.41439	1.38011	
September 4 2022	296.30750	1.49290	1.46931	1.41438	1.38010	
September 5 2022	296.30633	1.49290	1.46930	1.41437	1.38010	
September 6 2022	296.30517	1.49289	1.46930	1.41437	1.38009	
September 7 2022	296.30400	1.49289	1.46929	1.41436	1.38009	
September 8 2022	296.30283	1.49288	1.46929	1.41436	1.38008	
September 9 2022	296.30167	1.49287	1.46928	1.41435	1.38007	
September 10 2022	296.30050	1.49287	1.46927	1.41435	1.38007	
September 11 2022	296.29933	1.49286	1.46927	1.41434	1.38006	
September 12 2022	296.29817	1.49286	1.46926	1.41434	1.38006	
September 13 2022	296.29700	1.49285	1.46926	1.41433	1.38005	
September 14 2022	296.29583	1.49284	1.46925	1.41432	1.38005	
September 15 2022	296.29467	1.49284	1.46925	1.41432	1.38004	
September 16 2022	296.29350	1.49283	1.46924	1.41431	1.38004	
September 17 2022	296.29233	1.49283	1.46923	1.41431	1.38003	
September 18 2022	296.29117	1.49282	1.46923	1.41430	1.38003	
September 19 2022	296.29000	1.49281	1.46922	1.41430	1.38002	
September 20 2022	296.28883	1.49281	1.46922	1.41429	1.38002	
September 21 2022	296.28767	1.49280	1.46921	1.41428	1.38001	
September 22 2022	296.28650	1.49280	1.46920	1.41428	1.38000	
September 23 2022	296.28533	1.49279	1.46920	1.41427	1.38000	
September 24 2022	296.28417	1.49279	1.46919	1.41427	1.37999	
September 25 2022	296.28300	1.49278	1.46919	1.41426	1.37999	
September 26 2022	296.28183	1.49277	1.46918	1.41426	1.37998	
September 27 2022	296.28067	1.49277	1.46918	1.41425	1.37998	
September 28 2022	296.27950	1.49276	1.46917	1.41425	1.37997	
September 29 2022	296.27833	1.49276	1.46916	1.41424	1.37997	
September 30 2022	296.27717	1.49275	1.46916	1.41423	1.37996	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.37092	1.35307	1.31134	1.28372	
September 2 2022	296.30983	1.37092	1.35307	1.31133	1.28372	
September 3 2022	296.30867	1.37091	1.35306	1.31133	1.28371	
September 4 2022	296.30750	1.37091	1.35306	1.31132	1.28371	
September 5 2022	296.30633	1.37090	1.35305	1.31132	1.28370	
September 6 2022	296.30517	1.37090	1.35305	1.31131	1.28370	
September 7 2022	296.30400	1.37089	1.35304	1.31131	1.28369	
September 8 2022	296.30283	1.37089	1.35304	1.31130	1.28369	
September 9 2022	296.30167	1.37088	1.35303	1.31130	1.28368	
September 10 2022	296.30050	1.37088	1.35303	1.31129	1.28368	
September 11 2022	296.29933	1.37087	1.35302	1.31129	1.28367	
September 12 2022	296.29817	1.37087	1.35302	1.31128	1.28367	
September 13 2022	296.29700	1.37086	1.35301	1.31128	1.28366	
September 14 2022	296.29583	1.37085	1.35300	1.31127	1.28365	
September 15 2022	296.29467	1.37085	1.35300	1.31127	1.28365	
September 16 2022	296.29350	1.37084	1.35299	1.31126	1.28364	
September 17 2022	296.29233	1.37084	1.35299	1.31126	1.28364	
September 18 2022	296.29117	1.37083	1.35298	1.31125	1.28363	
September 19 2022	296.29000	1.37083	1.35298	1.31125	1.28363	
September 20 2022	296.28883	1.37082	1.35297	1.31124	1.28362	
September 21 2022	296.28767	1.37082	1.35297	1.31124	1.28362	
September 22 2022	296.28650	1.37081	1.35296	1.31123	1.28361	
September 23 2022	296.28533	1.37081	1.35296	1.31123	1.28361	
September 24 2022	296.28417	1.37080	1.35295	1.31122	1.28360	
September 25 2022	296.28300	1.37080	1.35295	1.31122	1.28360	
September 26 2022	296.28183	1.37079	1.35294	1.31121	1.28359	
September 27 2022	296.28067	1.37078	1.35294	1.31120	1.28359	
September 28 2022	296.27950	1.37078	1.35293	1.31120	1.28358	
September 29 2022	296.27833	1.37077	1.35292	1.31119	1.28358	
September 30 2022	296.27717	1.37077	1.35292	1.31119	1.28357	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.28881	1.27326	1.26992	1.27140	
September 2 2022	296.30983	1.28880	1.27326	1.26991	1.27139	
September 3 2022	296.30867	1.28880	1.27325	1.26991	1.27139	
September 4 2022	296.30750	1.28879	1.27325	1.26990	1.27138	
September 5 2022	296.30633	1.28879	1.27324	1.26990	1.27138	
September 6 2022	296.30517	1.28878	1.27324	1.26989	1.27137	
September 7 2022	296.30400	1.28878	1.27323	1.26989	1.27137	
September 8 2022	296.30283	1.28877	1.27323	1.26988	1.27136	
September 9 2022	296.30167	1.28877	1.27322	1.26988	1.27136	
September 10 2022	296.30050	1.28876	1.27322	1.26987	1.27135	
September 11 2022	296.29933	1.28876	1.27321	1.26987	1.27135	
September 12 2022	296.29817	1.28875	1.27321	1.26986	1.27134	
September 13 2022	296.29700	1.28875	1.27320	1.26986	1.27134	
September 14 2022	296.29583	1.28874	1.27320	1.26985	1.27133	
September 15 2022	296.29467	1.28874	1.27319	1.26985	1.27133	
September 16 2022	296.29350	1.28873	1.27319	1.26984	1.27132	
September 17 2022	296.29233	1.28873	1.27318	1.26984	1.27132	
September 18 2022	296.29117	1.28872	1.27318	1.26983	1.27131	
September 19 2022	296.29000	1.28872	1.27317	1.26983	1.27131	
September 20 2022	296.28883	1.28871	1.27317	1.26982	1.27130	
September 21 2022	296.28767	1.28871	1.27316	1.26982	1.27130	
September 22 2022	296.28650	1.28870	1.27316	1.26981	1.27129	
September 23 2022	296.28533	1.28870	1.27315	1.26981	1.27129	
September 24 2022	296.28417	1.28869	1.27315	1.26980	1.27128	
September 25 2022	296.28300	1.28869	1.27314	1.26980	1.27128	
September 26 2022	296.28183	1.28868	1.27314	1.26979	1.27127	
September 27 2022	296.28067	1.28868	1.27313	1.26979	1.27127	
September 28 2022	296.27950	1.28867	1.27313	1.26978	1.27126	
September 29 2022	296.27833	1.28867	1.27312	1.26978	1.27126	
September 30 2022	296.27717	1.28866	1.27312	1.26977	1.27125	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.24791	1.25103	1.25832	1.24950	
September 2 2022	296.30983	1.24790	1.25102	1.25831	1.24950	
September 3 2022	296.30867	1.24790	1.25102	1.25831	1.24949	
September 4 2022	296.30750	1.24789	1.25101	1.25830	1.24949	
September 5 2022	296.30633	1.24789	1.25101	1.25830	1.24948	
September 6 2022	296.30517	1.24788	1.25100	1.25829	1.24948	
September 7 2022	296.30400	1.24788	1.25100	1.25829	1.24947	
September 8 2022	296.30283	1.24787	1.25099	1.25828	1.24947	
September 9 2022	296.30167	1.24787	1.25099	1.25828	1.24946	
September 10 2022	296.30050	1.24787	1.25098	1.25828	1.24946	
September 11 2022	296.29933	1.24786	1.25098	1.25827	1.24945	
September 12 2022	296.29817	1.24786	1.25097	1.25827	1.24945	
September 13 2022	296.29700	1.24785	1.25097	1.25826	1.24944	
September 14 2022	296.29583	1.24785	1.25096	1.25826	1.24944	
September 15 2022	296.29467	1.24784	1.25096	1.25825	1.24943	
September 16 2022	296.29350	1.24784	1.25095	1.25825	1.24943	
September 17 2022	296.29233	1.24783	1.25095	1.25824	1.24942	
September 18 2022	296.29117	1.24783	1.25094	1.25824	1.24942	
September 19 2022	296.29000	1.24782	1.25094	1.25823	1.24941	
September 20 2022	296.28883	1.24782	1.25093	1.25823	1.24941	
September 21 2022	296.28767	1.24781	1.25093	1.25822	1.24940	
September 22 2022	296.28650	1.24781	1.25092	1.25822	1.24940	
September 23 2022	296.28533	1.24780	1.25092	1.25821	1.24939	
September 24 2022	296.28417	1.24780	1.25091	1.25821	1.24939	
September 25 2022	296.28300	1.24779	1.25091	1.25820	1.24938	
September 26 2022	296.28183	1.24779	1.25090	1.25820	1.24938	
September 27 2022	296.28067	1.24778	1.25090	1.25819	1.24937	
September 28 2022	296.27950	1.24778	1.25089	1.25819	1.24937	
September 29 2022	296.27833	1.24777	1.25089	1.25818	1.24936	
September 30 2022	296.27717	1.24777	1.25089	1.25818	1.24936	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.24704	1.25055	1.23617	1.22666	
September 2 2022	296.30983	1.24704	1.25055	1.23616	1.22666	
September 3 2022	296.30867	1.24703	1.25054	1.23616	1.22665	
September 4 2022	296.30750	1.24703	1.25054	1.23615	1.22665	
September 5 2022	296.30633	1.24702	1.25053	1.23615	1.22664	
September 6 2022	296.30517	1.24702	1.25053	1.23614	1.22664	
September 7 2022	296.30400	1.24701	1.25052	1.23614	1.22663	
September 8 2022	296.30283	1.24701	1.25052	1.23613	1.22663	
September 9 2022	296.30167	1.24700	1.25051	1.23613	1.22662	
September 10 2022	296.30050	1.24700	1.25051	1.23612	1.22662	
September 11 2022	296.29933	1.24699	1.25050	1.23612	1.22661	
September 12 2022	296.29817	1.24699	1.25050	1.23611	1.22661	
September 13 2022	296.29700	1.24698	1.25049	1.23611	1.22660	
September 14 2022	296.29583	1.24698	1.25049	1.23610	1.22660	
September 15 2022	296.29467	1.24697	1.25048	1.23610	1.22659	
September 16 2022	296.29350	1.24697	1.25048	1.23609	1.22659	
September 17 2022	296.29233	1.24696	1.25047	1.23609	1.22658	
September 18 2022	296.29117	1.24696	1.25047	1.23608	1.22658	
September 19 2022	296.29000	1.24695	1.25046	1.23608	1.22657	
September 20 2022	296.28883	1.24695	1.25046	1.23608	1.22657	
September 21 2022	296.28767	1.24694	1.25045	1.23607	1.22656	
September 22 2022	296.28650	1.24694	1.25045	1.23607	1.22656	
September 23 2022	296.28533	1.24693	1.25044	1.23606	1.22655	
September 24 2022	296.28417	1.24693	1.25044	1.23606	1.22655	
September 25 2022	296.28300	1.24692	1.25043	1.23605	1.22654	
September 26 2022	296.28183	1.24692	1.25043	1.23605	1.22654	
September 27 2022	296.28067	1.24691	1.25042	1.23604	1.22653	
September 28 2022	296.27950	1.24691	1.25042	1.23604	1.22653	
September 29 2022	296.27833	1.24690	1.25041	1.23603	1.22652	
September 30 2022	296.27717	1.24690	1.25041	1.23603	1.22652	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.22751	1.21132	1.20127	1.20160	
September 2 2022	296.30983	1.22750	1.21131	1.20126	1.20160	
September 3 2022	296.30867	1.22750	1.21131	1.20126	1.20159	
September 4 2022	296.30750	1.22749	1.21131	1.20125	1.20159	
September 5 2022	296.30633	1.22749	1.21130	1.20125	1.20158	
September 6 2022	296.30517	1.22748	1.21130	1.20124	1.20158	
September 7 2022	296.30400	1.22748	1.21129	1.20124	1.20157	
September 8 2022	296.30283	1.22747	1.21129	1.20123	1.20157	
September 9 2022	296.30167	1.22747	1.21128	1.20123	1.20156	
September 10 2022	296.30050	1.22746	1.21128	1.20122	1.20156	
September 11 2022	296.29933	1.22746	1.21127	1.20122	1.20156	
September 12 2022	296.29817	1.22745	1.21127	1.20121	1.20155	
September 13 2022	296.29700	1.22745	1.21126	1.20121	1.20155	
September 14 2022	296.29583	1.22744	1.21126	1.20120	1.20154	
September 15 2022	296.29467	1.22744	1.21125	1.20120	1.20154	
September 16 2022	296.29350	1.22743	1.21125	1.20119	1.20153	
September 17 2022	296.29233	1.22743	1.21124	1.20119	1.20153	
September 18 2022	296.29117	1.22742	1.21124	1.20119	1.20152	
September 19 2022	296.29000	1.22742	1.21123	1.20118	1.20152	
September 20 2022	296.28883	1.22742	1.21123	1.20118	1.20151	
September 21 2022	296.28767	1.22741	1.21122	1.20117	1.20151	
September 22 2022	296.28650	1.22741	1.21122	1.20117	1.20150	
September 23 2022	296.28533	1.22740	1.21121	1.20116	1.20150	
September 24 2022	296.28417	1.22740	1.21121	1.20116	1.20149	
September 25 2022	296.28300	1.22739	1.21120	1.20115	1.20149	
September 26 2022	296.28183	1.22739	1.21120	1.20115	1.20148	
September 27 2022	296.28067	1.22738	1.21120	1.20114	1.20148	
September 28 2022	296.27950	1.22738	1.21119	1.20114	1.20147	
September 29 2022	296.27833	1.22737	1.21119	1.20113	1.20147	
September 30 2022	296.27717	1.22737	1.21118	1.20113	1.20147	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.19292	1.18044	1.17350	1.17754	
September 2 2022	296.30983	1.19291	1.18044	1.17349	1.17754	
September 3 2022	296.30867	1.19291	1.18043	1.17349	1.17753	
September 4 2022	296.30750	1.19291	1.18043	1.17348	1.17753	
September 5 2022	296.30633	1.19290	1.18043	1.17348	1.17752	
September 6 2022	296.30517	1.19290	1.18042	1.17347	1.17752	
September 7 2022	296.30400	1.19289	1.18042	1.17347	1.17751	
September 8 2022	296.30283	1.19289	1.18041	1.17347	1.17751	
September 9 2022	296.30167	1.19288	1.18041	1.17346	1.17750	
September 10 2022	296.30050	1.19288	1.18040	1.17346	1.17750	
September 11 2022	296.29933	1.19287	1.18040	1.17345	1.17749	
September 12 2022	296.29817	1.19287	1.18039	1.17345	1.17749	
September 13 2022	296.29700	1.19286	1.18039	1.17344	1.17748	
September 14 2022	296.29583	1.19286	1.18038	1.17344	1.17748	
September 15 2022	296.29467	1.19285	1.18038	1.17343	1.17748	
September 16 2022	296.29350	1.19285	1.18037	1.17343	1.17747	
September 17 2022	296.29233	1.19284	1.18037	1.17342	1.17747	
September 18 2022	296.29117	1.19284	1.18036	1.17342	1.17746	
September 19 2022	296.29000	1.19283	1.18036	1.17341	1.17746	
September 20 2022	296.28883	1.19283	1.18036	1.17341	1.17745	
September 21 2022	296.28767	1.19283	1.18035	1.17340	1.17745	
September 22 2022	296.28650	1.19282	1.18035	1.17340	1.17744	
September 23 2022	296.28533	1.19282	1.18034	1.17340	1.17744	
September 24 2022	296.28417	1.19281	1.18034	1.17339	1.17743	
September 25 2022	296.28300	1.19281	1.18033	1.17339	1.17743	
September 26 2022	296.28183	1.19280	1.18033	1.17338	1.17742	
September 27 2022	296.28067	1.19280	1.18032	1.17338	1.17742	
September 28 2022	296.27950	1.19279	1.18032	1.17337	1.17742	
September 29 2022	296.27833	1.19279	1.18031	1.17337	1.17741	
September 30 2022	296.27717	1.19278	1.18031	1.17336	1.17741	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>



**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.17487	1.15840	1.15492	1.15169	
September 2 2022	296.30983	1.17486	1.15839	1.15491	1.15169	
September 3 2022	296.30867	1.17486	1.15839	1.15491	1.15168	
September 4 2022	296.30750	1.17485	1.15838	1.15490	1.15168	
September 5 2022	296.30633	1.17485	1.15838	1.15490	1.15167	
September 6 2022	296.30517	1.17484	1.15838	1.15489	1.15167	
September 7 2022	296.30400	1.17484	1.15837	1.15489	1.15166	
September 8 2022	296.30283	1.17483	1.15837	1.15488	1.15166	
September 9 2022	296.30167	1.17483	1.15836	1.15488	1.15165	
September 10 2022	296.30050	1.17482	1.15836	1.15487	1.15165	
September 11 2022	296.29933	1.17482	1.15835	1.15487	1.15164	
September 12 2022	296.29817	1.17481	1.15835	1.15487	1.15164	
September 13 2022	296.29700	1.17481	1.15834	1.15486	1.15164	
September 14 2022	296.29583	1.17480	1.15834	1.15486	1.15163	
September 15 2022	296.29467	1.17480	1.15833	1.15485	1.15163	
September 16 2022	296.29350	1.17480	1.15833	1.15485	1.15162	
September 17 2022	296.29233	1.17479	1.15833	1.15484	1.15162	
September 18 2022	296.29117	1.17479	1.15832	1.15484	1.15161	
September 19 2022	296.29000	1.17478	1.15832	1.15483	1.15161	
September 20 2022	296.28883	1.17478	1.15831	1.15483	1.15160	
September 21 2022	296.28767	1.17477	1.15831	1.15482	1.15160	
September 22 2022	296.28650	1.17477	1.15830	1.15482	1.15159	
September 23 2022	296.28533	1.17476	1.15830	1.15482	1.15159	
September 24 2022	296.28417	1.17476	1.15829	1.15481	1.15159	
September 25 2022	296.28300	1.17475	1.15829	1.15481	1.15158	
September 26 2022	296.28183	1.17475	1.15828	1.15480	1.15158	
September 27 2022	296.28067	1.17474	1.15828	1.15480	1.15157	
September 28 2022	296.27950	1.17474	1.15828	1.15479	1.15157	
September 29 2022	296.27833	1.17474	1.15827	1.15479	1.15156	
September 30 2022	296.27717	1.17473	1.15827	1.15478	1.15156	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.15253	1.14715	1.15570	1.14199	
September 2 2022	296.30983	1.15253	1.14715	1.15569	1.14198	
September 3 2022	296.30867	1.15253	1.14715	1.15569	1.14198	
September 4 2022	296.30750	1.15252	1.14714	1.15568	1.14197	
September 5 2022	296.30633	1.15252	1.14714	1.15568	1.14197	
September 6 2022	296.30517	1.15251	1.14713	1.15568	1.14196	
September 7 2022	296.30400	1.15251	1.14713	1.15567	1.14196	
September 8 2022	296.30283	1.15250	1.14712	1.15567	1.14195	
September 9 2022	296.30167	1.15250	1.14712	1.15566	1.14195	
September 10 2022	296.30050	1.15249	1.14711	1.15566	1.14195	
September 11 2022	296.29933	1.15249	1.14711	1.15565	1.14194	
September 12 2022	296.29817	1.15249	1.14710	1.15565	1.14194	
September 13 2022	296.29700	1.15248	1.14710	1.15564	1.14193	
September 14 2022	296.29583	1.15248	1.14710	1.15564	1.14193	
September 15 2022	296.29467	1.15247	1.14709	1.15563	1.14192	
September 16 2022	296.29350	1.15247	1.14709	1.15563	1.14192	
September 17 2022	296.29233	1.15246	1.14708	1.15563	1.14191	
September 18 2022	296.29117	1.15246	1.14708	1.15562	1.14191	
September 19 2022	296.29000	1.15245	1.14707	1.15562	1.14190	
September 20 2022	296.28883	1.15245	1.14707	1.15561	1.14190	
September 21 2022	296.28767	1.15244	1.14706	1.15561	1.14190	
September 22 2022	296.28650	1.15244	1.14706	1.15560	1.14189	
September 23 2022	296.28533	1.15244	1.14705	1.15560	1.14189	
September 24 2022	296.28417	1.15243	1.14705	1.15559	1.14188	
September 25 2022	296.28300	1.15243	1.14705	1.15559	1.14188	
September 26 2022	296.28183	1.15242	1.14704	1.15558	1.14187	
September 27 2022	296.28067	1.15242	1.14704	1.15558	1.14187	
September 28 2022	296.27950	1.15241	1.14703	1.15558	1.14186	
September 29 2022	296.27833	1.15241	1.14703	1.15557	1.14186	
September 30 2022	296.27717	1.15240	1.14702	1.15557	1.14186	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	
September 1 2022	296.31100	1.13827	1.13812	1.12988	1.10555	
September 2 2022	296.30983	1.13827	1.13811	1.12987	1.10555	
September 3 2022	296.30867	1.13826	1.13811	1.12987	1.10554	
September 4 2022	296.30750	1.13826	1.13811	1.12987	1.10554	
September 5 2022	296.30633	1.13826	1.13810	1.12986	1.10553	
September 6 2022	296.30517	1.13825	1.13810	1.12986	1.10553	
September 7 2022	296.30400	1.13825	1.13809	1.12985	1.10553	
September 8 2022	296.30283	1.13824	1.13809	1.12985	1.10552	
September 9 2022	296.30167	1.13824	1.13808	1.12984	1.10552	
September 10 2022	296.30050	1.13823	1.13808	1.12984	1.10551	
September 11 2022	296.29933	1.13823	1.13807	1.12983	1.10551	
September 12 2022	296.29817	1.13822	1.13807	1.12983	1.10550	
September 13 2022	296.29700	1.13822	1.13807	1.12983	1.10550	
September 14 2022	296.29583	1.13822	1.13806	1.12982	1.10550	
September 15 2022	296.29467	1.13821	1.13806	1.12982	1.10549	
September 16 2022	296.29350	1.13821	1.13805	1.12981	1.10549	
September 17 2022	296.29233	1.13820	1.13805	1.12981	1.10548	
September 18 2022	296.29117	1.13820	1.13804	1.12980	1.10548	
September 19 2022	296.29000	1.13819	1.13804	1.12980	1.10547	
September 20 2022	296.28883	1.13819	1.13803	1.12979	1.10547	
September 21 2022	296.28767	1.13818	1.13803	1.12979	1.10546	
September 22 2022	296.28650	1.13818	1.13802	1.12979	1.10546	
September 23 2022	296.28533	1.13817	1.13802	1.12978	1.10546	
September 24 2022	296.28417	1.13817	1.13802	1.12978	1.10545	
September 25 2022	296.28300	1.13817	1.13801	1.12977	1.10545	
September 26 2022	296.28183	1.13816	1.13801	1.12977	1.10544	
September 27 2022	296.28067	1.13816	1.13800	1.12976	1.10544	
September 28 2022	296.27950	1.13815	1.13800	1.12976	1.10543	
September 29 2022	296.27833	1.13815	1.13799	1.12975	1.10543	
September 30 2022	296.27717	1.13814	1.13799	1.12975	1.10543	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**September 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	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	
September 1 2022	296.31100	1.08436	1.06893	1.06443	1.04946	
September 2 2022	296.30983	1.08436	1.06893	1.06443	1.04945	
September 3 2022	296.30867	1.08436	1.06892	1.06442	1.04945	
September 4 2022	296.30750	1.08435	1.06892	1.06442	1.04945	
September 5 2022	296.30633	1.08435	1.06892	1.06441	1.04944	
September 6 2022	296.30517	1.08434	1.06891	1.06441	1.04944	
September 7 2022	296.30400	1.08434	1.06891	1.06441	1.04943	
September 8 2022	296.30283	1.08433	1.06890	1.06440	1.04943	
September 9 2022	296.30167	1.08433	1.06890	1.06440	1.04943	
September 10 2022	296.30050	1.08433	1.06889	1.06439	1.04942	
September 11 2022	296.29933	1.08432	1.06889	1.06439	1.04942	
September 12 2022	296.29817	1.08432	1.06889	1.06438	1.04941	
September 13 2022	296.29700	1.08431	1.06888	1.06438	1.04941	
September 14 2022	296.29583	1.08431	1.06888	1.06438	1.04941	
September 15 2022	296.29467	1.08430	1.06887	1.06437	1.04940	
September 16 2022	296.29350	1.08430	1.06887	1.06437	1.04940	
September 17 2022	296.29233	1.08430	1.06887	1.06436	1.04939	
September 18 2022	296.29117	1.08429	1.06886	1.06436	1.04939	
September 19 2022	296.29000	1.08429	1.06886	1.06436	1.04938	
September 20 2022	296.28883	1.08428	1.06885	1.06435	1.04938	
September 21 2022	296.28767	1.08428	1.06885	1.06435	1.04938	
September 22 2022	296.28650	1.08427	1.06884	1.06434	1.04937	
September 23 2022	296.28533	1.08427	1.06884	1.06434	1.04937	
September 24 2022	296.28417	1.08427	1.06884	1.06433	1.04936	
September 25 2022	296.28300	1.08426	1.06883	1.06433	1.04936	
September 26 2022	296.28183	1.08426	1.06883	1.06433	1.04936	
September 27 2022	296.28067	1.08425	1.06882	1.06432	1.04935	
September 28 2022	296.27950	1.08425	1.06882	1.06432	1.04935	
September 29 2022	296.27833	1.08425	1.06881	1.06431	1.04934	
September 30 2022	296.27717	1.08424	1.06881	1.06431	1.04934	
<b>CPI-U (NSA) for:</b>	<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>

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

<b>Security:</b> <b>Description:</b> <b>CUSIP Number:</b> <b>Dated Date:</b> <b>Original Issue Date:</b> <b>Additional Issue Date(s):</b>  <b>Maturity Date:</b> <b>Ref CPI on Dated Date:</b>			<b>0-5/8% 10-Year TIPS</b> <b>Series D-2032</b> <b>91282CEZ0</b> <b>July 15, 2022</b> <b>July 29, 2022</b>  <b>July 15, 2032</b> <b>290.54829</b>					
<b>Date</b>			<b>Ref CPI</b>		<b>Index Ratio</b>			
September	1	2022	296.31100	1.01983				
September	2	2022	296.30983	1.01983				
September	3	2022	296.30867	1.01983				
September	4	2022	296.30750	1.01982				
September	5	2022	296.30633	1.01982				
September	6	2022	296.30517	1.01981				
September	7	2022	296.30400	1.01981				
September	8	2022	296.30283	1.01981				
September	9	2022	296.30167	1.01980				
September	10	2022	296.30050	1.01980				
September	11	2022	296.29933	1.01979				
September	12	2022	296.29817	1.01979				
September	13	2022	296.29700	1.01979				
September	14	2022	296.29583	1.01978				
September	15	2022	296.29467	1.01978				
September	16	2022	296.29350	1.01977				
September	17	2022	296.29233	1.01977				
September	18	2022	296.29117	1.01977				
September	19	2022	296.29000	1.01976				
September	20	2022	296.28883	1.01976				
September	21	2022	296.28767	1.01975				
September	22	2022	296.28650	1.01975				
September	23	2022	296.28533	1.01975				
September	24	2022	296.28417	1.01974				
September	25	2022	296.28300	1.01974				
September	26	2022	296.28183	1.01973				
September	27	2022	296.28067	1.01973				
September	28	2022	296.27950	1.01973				
September	29	2022	296.27833	1.01972				
September	30	2022	296.27717	1.01972				
<b>CPI-U (NSA) for:</b>			<b>May 2022</b>	<b>292.296</b>	<b>June 2022</b>	<b>296.311</b>	<b>July 2022</b>	<b>296.276</b>