

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 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	
August 1 2022	292.29600	1.80720	1.77803	1.64674	1.55067	
August 2 2022	292.42552	1.80800	1.77882	1.64747	1.55136	
August 3 2022	292.55503	1.80880	1.77960	1.64820	1.55204	
August 4 2022	292.68455	1.80960	1.78039	1.64893	1.55273	
August 5 2022	292.81406	1.81040	1.78118	1.64966	1.55342	
August 6 2022	292.94358	1.81120	1.78197	1.65039	1.55410	
August 7 2022	293.07310	1.81200	1.78276	1.65112	1.55479	
August 8 2022	293.20261	1.81280	1.78354	1.65185	1.55548	
August 9 2022	293.33213	1.81360	1.78433	1.65258	1.55617	
August 10 2022	293.46165	1.81440	1.78512	1.65331	1.55685	
August 11 2022	293.59116	1.81520	1.78591	1.65403	1.55754	
August 12 2022	293.72068	1.81601	1.78669	1.65476	1.55823	
August 13 2022	293.85019	1.81681	1.78748	1.65549	1.55891	
August 14 2022	293.97971	1.81761	1.78827	1.65622	1.55960	
August 15 2022	294.10923	1.81841	1.78906	1.65695	1.56029	
August 16 2022	294.23874	1.81921	1.78985	1.65768	1.56097	
August 17 2022	294.36826	1.82001	1.79063	1.65841	1.56166	
August 18 2022	294.49777	1.82081	1.79142	1.65914	1.56235	
August 19 2022	294.62729	1.82161	1.79221	1.65987	1.56304	
August 20 2022	294.75681	1.82241	1.79300	1.66060	1.56372	
August 21 2022	294.88632	1.82321	1.79379	1.66133	1.56441	
August 22 2022	295.01584	1.82401	1.79457	1.66206	1.56510	
August 23 2022	295.14535	1.82481	1.79536	1.66279	1.56578	
August 24 2022	295.27487	1.82561	1.79615	1.66352	1.56647	
August 25 2022	295.40439	1.82642	1.79694	1.66425	1.56716	
August 26 2022	295.53390	1.82722	1.79772	1.66498	1.56785	
August 27 2022	295.66342	1.82802	1.79851	1.66571	1.56853	
August 28 2022	295.79294	1.82882	1.79930	1.66644	1.56922	
August 29 2022	295.92245	1.82962	1.80009	1.66717	1.56991	
August 30 2022	296.05197	1.83042	1.80088	1.66790	1.57059	
August 31 2022	296.18148	1.83122	1.80166	1.66863	1.57128	
CPI-U (NSA) for:			April 2022 289.109	May 2022 292.296	June 2022 296.311	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 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	
August 1 2022	292.29600	1.47269	1.44942	1.39523	1.36142	
August 2 2022	292.42552	1.47334	1.45006	1.39585	1.36202	
August 3 2022	292.55503	1.47400	1.45070	1.39647	1.36262	
August 4 2022	292.68455	1.47465	1.45134	1.39709	1.36323	
August 5 2022	292.81406	1.47530	1.45199	1.39770	1.36383	
August 6 2022	292.94358	1.47595	1.45263	1.39832	1.36443	
August 7 2022	293.07310	1.47661	1.45327	1.39894	1.36504	
August 8 2022	293.20261	1.47726	1.45391	1.39956	1.36564	
August 9 2022	293.33213	1.47791	1.45455	1.40018	1.36624	
August 10 2022	293.46165	1.47856	1.45520	1.40080	1.36685	
August 11 2022	293.59116	1.47922	1.45584	1.40141	1.36745	
August 12 2022	293.72068	1.47987	1.45648	1.40203	1.36805	
August 13 2022	293.85019	1.48052	1.45712	1.40265	1.36866	
August 14 2022	293.97971	1.48117	1.45777	1.40327	1.36926	
August 15 2022	294.10923	1.48183	1.45841	1.40389	1.36986	
August 16 2022	294.23874	1.48248	1.45905	1.40450	1.37047	
August 17 2022	294.36826	1.48313	1.45969	1.40512	1.37107	
August 18 2022	294.49777	1.48378	1.46034	1.40574	1.37167	
August 19 2022	294.62729	1.48444	1.46098	1.40636	1.37228	
August 20 2022	294.75681	1.48509	1.46162	1.40698	1.37288	
August 21 2022	294.88632	1.48574	1.46226	1.40760	1.37348	
August 22 2022	295.01584	1.48639	1.46290	1.40821	1.37409	
August 23 2022	295.14535	1.48705	1.46355	1.40883	1.37469	
August 24 2022	295.27487	1.48770	1.46419	1.40945	1.37529	
August 25 2022	295.40439	1.48835	1.46483	1.41007	1.37590	
August 26 2022	295.53390	1.48901	1.46547	1.41069	1.37650	
August 27 2022	295.66342	1.48966	1.46612	1.41131	1.37710	
August 28 2022	295.79294	1.49031	1.46676	1.41192	1.37771	
August 29 2022	295.92245	1.49096	1.46740	1.41254	1.37831	
August 30 2022	296.05197	1.49162	1.46804	1.41316	1.37891	
August 31 2022	296.18148	1.49227	1.46868	1.41378	1.37952	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 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	
August 1 2022	292.29600	1.35235	1.33474	1.29357	1.26633	
August 2 2022	292.42552	1.35295	1.33533	1.29414	1.26689	
August 3 2022	292.55503	1.35355	1.33592	1.29472	1.26745	
August 4 2022	292.68455	1.35415	1.33651	1.29529	1.26801	
August 5 2022	292.81406	1.35475	1.33711	1.29586	1.26857	
August 6 2022	292.94358	1.35534	1.33770	1.29644	1.26913	
August 7 2022	293.07310	1.35594	1.33829	1.29701	1.26969	
August 8 2022	293.20261	1.35654	1.33888	1.29758	1.27025	
August 9 2022	293.33213	1.35714	1.33947	1.29816	1.27082	
August 10 2022	293.46165	1.35774	1.34006	1.29873	1.27138	
August 11 2022	293.59116	1.35834	1.34065	1.29930	1.27194	
August 12 2022	293.72068	1.35894	1.34125	1.29988	1.27250	
August 13 2022	293.85019	1.35954	1.34184	1.30045	1.27306	
August 14 2022	293.97971	1.36014	1.34243	1.30102	1.27362	
August 15 2022	294.10923	1.36074	1.34302	1.30160	1.27418	
August 16 2022	294.23874	1.36134	1.34361	1.30217	1.27474	
August 17 2022	294.36826	1.36194	1.34420	1.30274	1.27530	
August 18 2022	294.49777	1.36254	1.34479	1.30331	1.27587	
August 19 2022	294.62729	1.36313	1.34539	1.30389	1.27643	
August 20 2022	294.75681	1.36373	1.34598	1.30446	1.27699	
August 21 2022	294.88632	1.36433	1.34657	1.30503	1.27755	
August 22 2022	295.01584	1.36493	1.34716	1.30561	1.27811	
August 23 2022	295.14535	1.36553	1.34775	1.30618	1.27867	
August 24 2022	295.27487	1.36613	1.34834	1.30675	1.27923	
August 25 2022	295.40439	1.36673	1.34893	1.30733	1.27979	
August 26 2022	295.53390	1.36733	1.34953	1.30790	1.28035	
August 27 2022	295.66342	1.36793	1.35012	1.30847	1.28092	
August 28 2022	295.79294	1.36853	1.35071	1.30905	1.28148	
August 29 2022	295.92245	1.36913	1.35130	1.30962	1.28204	
August 30 2022	296.05197	1.36973	1.35189	1.31019	1.28260	
August 31 2022	296.18148	1.37033	1.35248	1.31077	1.28316	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
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August 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	
August 1 2022	292.29600	1.27134	1.25601	1.25271	1.25417	
August 2 2022	292.42552	1.27191	1.25657	1.25327	1.25473	
August 3 2022	292.55503	1.27247	1.25712	1.25382	1.25528	
August 4 2022	292.68455	1.27303	1.25768	1.25438	1.25584	
August 5 2022	292.81406	1.27360	1.25824	1.25493	1.25639	
August 6 2022	292.94358	1.27416	1.25879	1.25549	1.25695	
August 7 2022	293.07310	1.27472	1.25935	1.25604	1.25751	
August 8 2022	293.20261	1.27529	1.25991	1.25660	1.25806	
August 9 2022	293.33213	1.27585	1.26046	1.25715	1.25862	
August 10 2022	293.46165	1.27641	1.26102	1.25771	1.25917	
August 11 2022	293.59116	1.27698	1.26157	1.25826	1.25973	
August 12 2022	293.72068	1.27754	1.26213	1.25882	1.26028	
August 13 2022	293.85019	1.27810	1.26269	1.25937	1.26084	
August 14 2022	293.97971	1.27867	1.26324	1.25993	1.26140	
August 15 2022	294.10923	1.27923	1.26380	1.26048	1.26195	
August 16 2022	294.23874	1.27979	1.26436	1.26104	1.26251	
August 17 2022	294.36826	1.28036	1.26491	1.26159	1.26306	
August 18 2022	294.49777	1.28092	1.26547	1.26215	1.26362	
August 19 2022	294.62729	1.28148	1.26603	1.26270	1.26417	
August 20 2022	294.75681	1.28205	1.26658	1.26326	1.26473	
August 21 2022	294.88632	1.28261	1.26714	1.26381	1.26529	
August 22 2022	295.01584	1.28317	1.26770	1.26437	1.26584	
August 23 2022	295.14535	1.28374	1.26825	1.26492	1.26640	
August 24 2022	295.27487	1.28430	1.26881	1.26548	1.26695	
August 25 2022	295.40439	1.28486	1.26937	1.26603	1.26751	
August 26 2022	295.53390	1.28543	1.26992	1.26659	1.26806	
August 27 2022	295.66342	1.28599	1.27048	1.26714	1.26862	
August 28 2022	295.79294	1.28655	1.27104	1.26770	1.26918	
August 29 2022	295.92245	1.28712	1.27159	1.26825	1.26973	
August 30 2022	296.05197	1.28768	1.27215	1.26881	1.27029	
August 31 2022	296.18148	1.28824	1.27271	1.26936	1.27084	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 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	
August 1 2022	292.29600	1.23100	1.23408	1.24127	1.23257	
August 2 2022	292.42552	1.23155	1.23462	1.24182	1.23312	
August 3 2022	292.55503	1.23209	1.23517	1.24237	1.23366	
August 4 2022	292.68455	1.23264	1.23572	1.24292	1.23421	
August 5 2022	292.81406	1.23318	1.23626	1.24347	1.23475	
August 6 2022	292.94358	1.23373	1.23681	1.24402	1.23530	
August 7 2022	293.07310	1.23427	1.23736	1.24457	1.23585	
August 8 2022	293.20261	1.23482	1.23790	1.24512	1.23639	
August 9 2022	293.33213	1.23536	1.23845	1.24567	1.23694	
August 10 2022	293.46165	1.23591	1.23900	1.24622	1.23748	
August 11 2022	293.59116	1.23645	1.23954	1.24677	1.23803	
August 12 2022	293.72068	1.23700	1.24009	1.24732	1.23858	
August 13 2022	293.85019	1.23755	1.24064	1.24787	1.23912	
August 14 2022	293.97971	1.23809	1.24119	1.24842	1.23967	
August 15 2022	294.10923	1.23864	1.24173	1.24897	1.24022	
August 16 2022	294.23874	1.23918	1.24228	1.24952	1.24076	
August 17 2022	294.36826	1.23973	1.24283	1.25007	1.24131	
August 18 2022	294.49777	1.24027	1.24337	1.25062	1.24185	
August 19 2022	294.62729	1.24082	1.24392	1.25117	1.24240	
August 20 2022	294.75681	1.24136	1.24447	1.25172	1.24295	
August 21 2022	294.88632	1.24191	1.24501	1.25227	1.24349	
August 22 2022	295.01584	1.24245	1.24556	1.25282	1.24404	
August 23 2022	295.14535	1.24300	1.24611	1.25337	1.24458	
August 24 2022	295.27487	1.24355	1.24665	1.25392	1.24513	
August 25 2022	295.40439	1.24409	1.24720	1.25447	1.24568	
August 26 2022	295.53390	1.24464	1.24775	1.25502	1.24622	
August 27 2022	295.66342	1.24518	1.24829	1.25557	1.24677	
August 28 2022	295.79294	1.24573	1.24884	1.25612	1.24732	
August 29 2022	295.92245	1.24627	1.24939	1.25667	1.24786	
August 30 2022	296.05197	1.24682	1.24993	1.25722	1.24841	
August 31 2022	296.18148	1.24736	1.25048	1.25777	1.24895	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

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August 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	
August 1 2022	292.29600	1.23014	1.23361	1.21942	1.21004	
August 2 2022	292.42552	1.23069	1.23415	1.21996	1.21058	
August 3 2022	292.55503	1.23123	1.23470	1.22050	1.21111	
August 4 2022	292.68455	1.23178	1.23525	1.22104	1.21165	
August 5 2022	292.81406	1.23232	1.23579	1.22158	1.21218	
August 6 2022	292.94358	1.23287	1.23634	1.22212	1.21272	
August 7 2022	293.07310	1.23341	1.23689	1.22266	1.21326	
August 8 2022	293.20261	1.23396	1.23743	1.22320	1.21379	
August 9 2022	293.33213	1.23450	1.23798	1.22374	1.21433	
August 10 2022	293.46165	1.23505	1.23852	1.22428	1.21486	
August 11 2022	293.59116	1.23559	1.23907	1.22482	1.21540	
August 12 2022	293.72068	1.23614	1.23962	1.22536	1.21594	
August 13 2022	293.85019	1.23668	1.24016	1.22590	1.21647	
August 14 2022	293.97971	1.23723	1.24071	1.22644	1.21701	
August 15 2022	294.10923	1.23777	1.24126	1.22698	1.21755	
August 16 2022	294.23874	1.23832	1.24180	1.22752	1.21808	
August 17 2022	294.36826	1.23886	1.24235	1.22806	1.21862	
August 18 2022	294.49777	1.23941	1.24290	1.22860	1.21915	
August 19 2022	294.62729	1.23995	1.24344	1.22914	1.21969	
August 20 2022	294.75681	1.24050	1.24399	1.22968	1.22023	
August 21 2022	294.88632	1.24105	1.24454	1.23022	1.22076	
August 22 2022	295.01584	1.24159	1.24508	1.23076	1.22130	
August 23 2022	295.14535	1.24214	1.24563	1.23130	1.22183	
August 24 2022	295.27487	1.24268	1.24618	1.23184	1.22237	
August 25 2022	295.40439	1.24323	1.24672	1.23239	1.22291	
August 26 2022	295.53390	1.24377	1.24727	1.23293	1.22344	
August 27 2022	295.66342	1.24432	1.24782	1.23347	1.22398	
August 28 2022	295.79294	1.24486	1.24836	1.23401	1.22452	
August 29 2022	295.92245	1.24541	1.24891	1.23455	1.22505	
August 30 2022	296.05197	1.24595	1.24946	1.23509	1.22559	
August 31 2022	296.18148	1.24650	1.25000	1.23563	1.22612	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 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	
August 1 2022	292.29600	1.21087	1.19491	1.18499	1.18532	
August 2 2022	292.42552	1.21141	1.19544	1.18551	1.18585	
August 3 2022	292.55503	1.21195	1.19596	1.18604	1.18637	
August 4 2022	292.68455	1.21248	1.19649	1.18656	1.18690	
August 5 2022	292.81406	1.21302	1.19702	1.18709	1.18742	
August 6 2022	292.94358	1.21356	1.19755	1.18761	1.18795	
August 7 2022	293.07310	1.21409	1.19808	1.18814	1.18847	
August 8 2022	293.20261	1.21463	1.19861	1.18866	1.18900	
August 9 2022	293.33213	1.21517	1.19914	1.18919	1.18952	
August 10 2022	293.46165	1.21570	1.19967	1.18971	1.19005	
August 11 2022	293.59116	1.21624	1.20020	1.19024	1.19057	
August 12 2022	293.72068	1.21678	1.20073	1.19076	1.19110	
August 13 2022	293.85019	1.21731	1.20126	1.19129	1.19162	
August 14 2022	293.97971	1.21785	1.20179	1.19181	1.19215	
August 15 2022	294.10923	1.21839	1.20232	1.19234	1.19267	
August 16 2022	294.23874	1.21892	1.20285	1.19286	1.19320	
August 17 2022	294.36826	1.21946	1.20338	1.19339	1.19372	
August 18 2022	294.49777	1.22000	1.20391	1.19391	1.19425	
August 19 2022	294.62729	1.22053	1.20444	1.19444	1.19477	
August 20 2022	294.75681	1.22107	1.20497	1.19496	1.19530	
August 21 2022	294.88632	1.22161	1.20550	1.19549	1.19583	
August 22 2022	295.01584	1.22214	1.20602	1.19601	1.19635	
August 23 2022	295.14535	1.22268	1.20655	1.19654	1.19688	
August 24 2022	295.27487	1.22321	1.20708	1.19706	1.19740	
August 25 2022	295.40439	1.22375	1.20761	1.19759	1.19793	
August 26 2022	295.53390	1.22429	1.20814	1.19812	1.19845	
August 27 2022	295.66342	1.22482	1.20867	1.19864	1.19898	
August 28 2022	295.79294	1.22536	1.20920	1.19917	1.19950	
August 29 2022	295.92245	1.22590	1.20973	1.19969	1.20003	
August 30 2022	296.05197	1.22643	1.21026	1.20022	1.20055	
August 31 2022	296.18148	1.22697	1.21079	1.20074	1.20108	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

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):			0-5/8% 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	
August 1 2022	292.29600	1.17676	1.16445	1.15760	1.16158	
August 2 2022	292.42552	1.17728	1.16496	1.15811	1.16210	
August 3 2022	292.55503	1.17780	1.16548	1.15862	1.16261	
August 4 2022	292.68455	1.17832	1.16600	1.15914	1.16313	
August 5 2022	292.81406	1.17884	1.16651	1.15965	1.16364	
August 6 2022	292.94358	1.17936	1.16703	1.16016	1.16416	
August 7 2022	293.07310	1.17988	1.16754	1.16067	1.16467	
August 8 2022	293.20261	1.18041	1.16806	1.16119	1.16519	
August 9 2022	293.33213	1.18093	1.16858	1.16170	1.16570	
August 10 2022	293.46165	1.18145	1.16909	1.16221	1.16622	
August 11 2022	293.59116	1.18197	1.16961	1.16273	1.16673	
August 12 2022	293.72068	1.18249	1.17012	1.16324	1.16725	
August 13 2022	293.85019	1.18301	1.17064	1.16375	1.16776	
August 14 2022	293.97971	1.18353	1.17116	1.16426	1.16828	
August 15 2022	294.10923	1.18405	1.17167	1.16478	1.16879	
August 16 2022	294.23874	1.18458	1.17219	1.16529	1.16931	
August 17 2022	294.36826	1.18510	1.17270	1.16580	1.16982	
August 18 2022	294.49777	1.18562	1.17322	1.16632	1.17033	
August 19 2022	294.62729	1.18614	1.17374	1.16683	1.17085	
August 20 2022	294.75681	1.18666	1.17425	1.16734	1.17136	
August 21 2022	294.88632	1.18718	1.17477	1.16786	1.17188	
August 22 2022	295.01584	1.18770	1.17528	1.16837	1.17239	
August 23 2022	295.14535	1.18823	1.17580	1.16888	1.17291	
August 24 2022	295.27487	1.18875	1.17632	1.16939	1.17342	
August 25 2022	295.40439	1.18927	1.17683	1.16991	1.17394	
August 26 2022	295.53390	1.18979	1.17735	1.17042	1.17445	
August 27 2022	295.66342	1.19031	1.17786	1.17093	1.17497	
August 28 2022	295.79294	1.19083	1.17838	1.17145	1.17548	
August 29 2022	295.92245	1.19135	1.17890	1.17196	1.17600	
August 30 2022	296.05197	1.19188	1.17941	1.17247	1.17651	
August 31 2022	296.18148	1.19240	1.17993	1.17298	1.17703	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 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	
August 1 2022	292.29600	1.15895	1.14270	1.13927	1.13608	
August 2 2022	292.42552	1.15946	1.14321	1.13977	1.13659	
August 3 2022	292.55503	1.15997	1.14371	1.14028	1.13709	
August 4 2022	292.68455	1.16049	1.14422	1.14078	1.13759	
August 5 2022	292.81406	1.16100	1.14473	1.14129	1.13810	
August 6 2022	292.94358	1.16151	1.14523	1.14179	1.13860	
August 7 2022	293.07310	1.16203	1.14574	1.14230	1.13910	
August 8 2022	293.20261	1.16254	1.14625	1.14280	1.13961	
August 9 2022	293.33213	1.16305	1.14675	1.14330	1.14011	
August 10 2022	293.46165	1.16357	1.14726	1.14381	1.14062	
August 11 2022	293.59116	1.16408	1.14777	1.14431	1.14112	
August 12 2022	293.72068	1.16459	1.14827	1.14482	1.14162	
August 13 2022	293.85019	1.16511	1.14878	1.14532	1.14213	
August 14 2022	293.97971	1.16562	1.14928	1.14583	1.14263	
August 15 2022	294.10923	1.16614	1.14979	1.14633	1.14313	
August 16 2022	294.23874	1.16665	1.15030	1.14684	1.14364	
August 17 2022	294.36826	1.16716	1.15080	1.14734	1.14414	
August 18 2022	294.49777	1.16768	1.15131	1.14785	1.14464	
August 19 2022	294.62729	1.16819	1.15182	1.14835	1.14515	
August 20 2022	294.75681	1.16870	1.15232	1.14886	1.14565	
August 21 2022	294.88632	1.16922	1.15283	1.14936	1.14615	
August 22 2022	295.01584	1.16973	1.15334	1.14987	1.14666	
August 23 2022	295.14535	1.17024	1.15384	1.15037	1.14716	
August 24 2022	295.27487	1.17076	1.15435	1.15088	1.14766	
August 25 2022	295.40439	1.17127	1.15485	1.15138	1.14817	
August 26 2022	295.53390	1.17178	1.15536	1.15189	1.14867	
August 27 2022	295.66342	1.17230	1.15587	1.15239	1.14917	
August 28 2022	295.79294	1.17281	1.15637	1.15290	1.14968	
August 29 2022	295.92245	1.17332	1.15688	1.15340	1.15018	
August 30 2022	296.05197	1.17384	1.15739	1.15391	1.15068	
August 31 2022	296.18148	1.17435	1.15789	1.15441	1.15119	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

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):			0-1/4% 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	
August 1 2022	292.29600	1.13692	1.13161	1.14004	1.12651	
August 2 2022	292.42552	1.13742	1.13211	1.14054	1.12701	
August 3 2022	292.55503	1.13793	1.13261	1.14105	1.12751	
August 4 2022	292.68455	1.13843	1.13311	1.14155	1.12801	
August 5 2022	292.81406	1.13893	1.13362	1.14206	1.12851	
August 6 2022	292.94358	1.13944	1.13412	1.14256	1.12901	
August 7 2022	293.07310	1.13994	1.13462	1.14307	1.12951	
August 8 2022	293.20261	1.14044	1.13512	1.14357	1.13001	
August 9 2022	293.33213	1.14095	1.13562	1.14408	1.13051	
August 10 2022	293.46165	1.14145	1.13612	1.14459	1.13100	
August 11 2022	293.59116	1.14196	1.13662	1.14509	1.13150	
August 12 2022	293.72068	1.14246	1.13713	1.14560	1.13200	
August 13 2022	293.85019	1.14296	1.13763	1.14610	1.13250	
August 14 2022	293.97971	1.14347	1.13813	1.14661	1.13300	
August 15 2022	294.10923	1.14397	1.13863	1.14711	1.13350	
August 16 2022	294.23874	1.14447	1.13913	1.14762	1.13400	
August 17 2022	294.36826	1.14498	1.13963	1.14812	1.13450	
August 18 2022	294.49777	1.14548	1.14013	1.14863	1.13500	
August 19 2022	294.62729	1.14599	1.14064	1.14913	1.13550	
August 20 2022	294.75681	1.14649	1.14114	1.14964	1.13600	
August 21 2022	294.88632	1.14699	1.14164	1.15014	1.13649	
August 22 2022	295.01584	1.14750	1.14214	1.15065	1.13699	
August 23 2022	295.14535	1.14800	1.14264	1.15115	1.13749	
August 24 2022	295.27487	1.14850	1.14314	1.15166	1.13799	
August 25 2022	295.40439	1.14901	1.14364	1.15216	1.13849	
August 26 2022	295.53390	1.14951	1.14415	1.15267	1.13899	
August 27 2022	295.66342	1.15002	1.14465	1.15317	1.13949	
August 28 2022	295.79294	1.15052	1.14515	1.15368	1.13999	
August 29 2022	295.92245	1.15102	1.14565	1.15418	1.14049	
August 30 2022	296.05197	1.15153	1.14615	1.15469	1.14099	
August 31 2022	296.18148	1.15203	1.14665	1.15519	1.14149	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

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):			0-1/8% 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	
August 1 2022	292.29600	1.12285	1.12270	1.11457	1.09057	
August 2 2022	292.42552	1.12335	1.12320	1.11506	1.09105	
August 3 2022	292.55503	1.12384	1.12369	1.11556	1.09154	
August 4 2022	292.68455	1.12434	1.12419	1.11605	1.09202	
August 5 2022	292.81406	1.12484	1.12469	1.11654	1.09250	
August 6 2022	292.94358	1.12534	1.12518	1.11704	1.09299	
August 7 2022	293.07310	1.12584	1.12568	1.11753	1.09347	
August 8 2022	293.20261	1.12633	1.12618	1.11803	1.09395	
August 9 2022	293.33213	1.12683	1.12668	1.11852	1.09444	
August 10 2022	293.46165	1.12733	1.12717	1.11901	1.09492	
August 11 2022	293.59116	1.12783	1.12767	1.11951	1.09540	
August 12 2022	293.72068	1.12832	1.12817	1.12000	1.09589	
August 13 2022	293.85019	1.12882	1.12867	1.12050	1.09637	
August 14 2022	293.97971	1.12932	1.12916	1.12099	1.09685	
August 15 2022	294.10923	1.12982	1.12966	1.12148	1.09734	
August 16 2022	294.23874	1.13031	1.13016	1.12198	1.09782	
August 17 2022	294.36826	1.13081	1.13066	1.12247	1.09830	
August 18 2022	294.49777	1.13131	1.13115	1.12296	1.09879	
August 19 2022	294.62729	1.13181	1.13165	1.12346	1.09927	
August 20 2022	294.75681	1.13230	1.13215	1.12395	1.09975	
August 21 2022	294.88632	1.13280	1.13265	1.12445	1.10024	
August 22 2022	295.01584	1.13330	1.13314	1.12494	1.10072	
August 23 2022	295.14535	1.13380	1.13364	1.12543	1.10120	
August 24 2022	295.27487	1.13429	1.13414	1.12593	1.10169	
August 25 2022	295.40439	1.13479	1.13464	1.12642	1.10217	
August 26 2022	295.53390	1.13529	1.13513	1.12692	1.10265	
August 27 2022	295.66342	1.13579	1.13563	1.12741	1.10314	
August 28 2022	295.79294	1.13628	1.13613	1.12790	1.10362	
August 29 2022	295.92245	1.13678	1.13663	1.12840	1.10410	
August 30 2022	296.05197	1.13728	1.13712	1.12889	1.10459	
August 31 2022	296.18148	1.13778	1.13762	1.12938	1.10507	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311

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):			0-1/8% 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	
August 1 2022	292.29600	1.06967	1.05445	1.05001	1.03524	
August 2 2022	292.42552	1.07015	1.05492	1.05047	1.03570	
August 3 2022	292.55503	1.07062	1.05538	1.05094	1.03616	
August 4 2022	292.68455	1.07109	1.05585	1.05140	1.03662	
August 5 2022	292.81406	1.07157	1.05632	1.05187	1.03707	
August 6 2022	292.94358	1.07204	1.05678	1.05233	1.03753	
August 7 2022	293.07310	1.07252	1.05725	1.05280	1.03799	
August 8 2022	293.20261	1.07299	1.05772	1.05326	1.03845	
August 9 2022	293.33213	1.07346	1.05819	1.05373	1.03891	
August 10 2022	293.46165	1.07394	1.05865	1.05420	1.03937	
August 11 2022	293.59116	1.07441	1.05912	1.05466	1.03983	
August 12 2022	293.72068	1.07489	1.05959	1.05513	1.04028	
August 13 2022	293.85019	1.07536	1.06006	1.05559	1.04074	
August 14 2022	293.97971	1.07583	1.06052	1.05606	1.04120	
August 15 2022	294.10923	1.07631	1.06099	1.05652	1.04166	
August 16 2022	294.23874	1.07678	1.06146	1.05699	1.04212	
August 17 2022	294.36826	1.07726	1.06192	1.05745	1.04258	
August 18 2022	294.49777	1.07773	1.06239	1.05792	1.04304	
August 19 2022	294.62729	1.07820	1.06286	1.05838	1.04350	
August 20 2022	294.75681	1.07868	1.06333	1.05885	1.04395	
August 21 2022	294.88632	1.07915	1.06379	1.05931	1.04441	
August 22 2022	295.01584	1.07962	1.06426	1.05978	1.04487	
August 23 2022	295.14535	1.08010	1.06473	1.06024	1.04533	
August 24 2022	295.27487	1.08057	1.06519	1.06071	1.04579	
August 25 2022	295.40439	1.08105	1.06566	1.06117	1.04625	
August 26 2022	295.53390	1.08152	1.06613	1.06164	1.04671	
August 27 2022	295.66342	1.08199	1.06660	1.06210	1.04717	
August 28 2022	295.79294	1.08247	1.06706	1.06257	1.04762	
August 29 2022	295.92245	1.08294	1.06753	1.06304	1.04808	
August 30 2022	296.05197	1.08342	1.06800	1.06350	1.04854	
August 31 2022	296.18148	1.08389	1.06847	1.06397	1.04900	
CPI-U (NSA) for:	April 2022	289.109	May 2022	292.296	June 2022	296.311