

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 2024

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
August	1	2024	314.06900	1.94181	1.91047	1.66618
August	2	2024	314.07242	1.94184	1.91049	1.66620
August	3	2024	314.07584	1.94186	1.91051	1.66621
August	4	2024	314.07926	1.94188	1.91054	1.66623
August	5	2024	314.08268	1.94190	1.91056	1.66625
August	6	2024	314.08610	1.94192	1.91058	1.66627
August	7	2024	314.08952	1.94194	1.91060	1.66629
August	8	2024	314.09294	1.94196	1.91062	1.66630
August	9	2024	314.09635	1.94198	1.91064	1.66632
August	10	2024	314.09977	1.94200	1.91066	1.66634
August	11	2024	314.10319	1.94203	1.91068	1.66636
August	12	2024	314.10661	1.94205	1.91070	1.66638
August	13	2024	314.11003	1.94207	1.91072	1.66639
August	14	2024	314.11345	1.94209	1.91074	1.66641
August	15	2024	314.11687	1.94211	1.91076	1.66643
August	16	2024	314.12029	1.94213	1.91078	1.66645
August	17	2024	314.12371	1.94215	1.91081	1.66647
August	18	2024	314.12713	1.94217	1.91083	1.66649
August	19	2024	314.13055	1.94219	1.91085	1.66650
August	20	2024	314.13397	1.94222	1.91087	1.66652
August	21	2024	314.13739	1.94224	1.91089	1.66654
August	22	2024	314.14081	1.94226	1.91091	1.66656
August	23	2024	314.14423	1.94228	1.91093	1.66658
August	24	2024	314.14765	1.94230	1.91095	1.66659
August	25	2024	314.15106	1.94232	1.91097	1.66661
August	26	2024	314.15448	1.94234	1.91099	1.66663
August	27	2024	314.15790	1.94236	1.91101	1.66665
August	28	2024	314.16132	1.94238	1.91103	1.66667
August	29	2024	314.16474	1.94241	1.91106	1.66669
August	30	2024	314.16816	1.94243	1.91108	1.66670
August	31	2024	314.17158	1.94245	1.91110	1.66672
CPI-U (NSA) for:			April 2024	313.548	May 2024	314.069
					June 2024	314.175

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s): Maturity Date: Ref CPI on Dated Date:				2% 20-Year TIPS TIPS of January 2026 912810FS2 January 15, 2006 January 31, 2006 July 31, 2006 January 15, 2026 198.47742	2-3/8% 20-Year TIPS TIPS of January 2027 912810PS1 January 15, 2007 January 31, 2007 July 31, 2007 January 15, 2027 201.66452	1-3/4% 20-Year TIPS TIPS of January 2028 912810PV4 January 15, 2008 January 31, 2008 July 31, 2008 January 15, 2028 209.49645	2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009 January 15, 2029 214.69971		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio		
August	1	2024	314.06900	1.58239	1.55738	1.49916	1.46283		
August	2	2024	314.07242	1.58241	1.55740	1.49918	1.46285		
August	3	2024	314.07584	1.58243	1.55742	1.49919	1.46286		
August	4	2024	314.07926	1.58244	1.55743	1.49921	1.46288		
August	5	2024	314.08268	1.58246	1.55745	1.49923	1.46289		
August	6	2024	314.08610	1.58248	1.55747	1.49924	1.46291		
August	7	2024	314.08952	1.58249	1.55749	1.49926	1.46292		
August	8	2024	314.09294	1.58251	1.55750	1.49928	1.46294		
August	9	2024	314.09635	1.58253	1.55752	1.49929	1.46296		
August	10	2024	314.09977	1.58255	1.55754	1.49931	1.46297		
August	11	2024	314.10319	1.58256	1.55755	1.49932	1.46299		
August	12	2024	314.10661	1.58258	1.55757	1.49934	1.46300		
August	13	2024	314.11003	1.58260	1.55759	1.49936	1.46302		
August	14	2024	314.11345	1.58262	1.55760	1.49937	1.46304		
August	15	2024	314.11687	1.58263	1.55762	1.49939	1.46305		
August	16	2024	314.12029	1.58265	1.55764	1.49941	1.46307		
August	17	2024	314.12371	1.58267	1.55765	1.49942	1.46308		
August	18	2024	314.12713	1.58268	1.55767	1.49944	1.46310		
August	19	2024	314.13055	1.58270	1.55769	1.49946	1.46312		
August	20	2024	314.13397	1.58272	1.55771	1.49947	1.46313		
August	21	2024	314.13739	1.58274	1.55772	1.49949	1.46315		
August	22	2024	314.14081	1.58275	1.55774	1.49950	1.46316		
August	23	2024	314.14423	1.58277	1.55776	1.49952	1.46318		
August	24	2024	314.14765	1.58279	1.55777	1.49954	1.46320		
August	25	2024	314.15106	1.58281	1.55779	1.49955	1.46321		
August	26	2024	314.15448	1.58282	1.55781	1.49957	1.46323		
August	27	2024	314.15790	1.58284	1.55782	1.49959	1.46324		
August	28	2024	314.16132	1.58286	1.55784	1.49960	1.46326		
August	29	2024	314.16474	1.58287	1.55786	1.49962	1.46328		
August	30	2024	314.16816	1.58289	1.55788	1.49963	1.46329		
August	31	2024	314.17158	1.58291	1.55789	1.49965	1.46331		
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

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		0-5/8% 30-Year TIPS TIPS of February 2043 912810RA8 February 15, 2013 February 28, 2013 June 28, 2013 October 31, 2013	
Maturity Date: Ref CPI on Dated Date:				February 15, 2040 216.13950		February 15, 2041 218.99100		February 15, 2042 225.96062		February 15, 2043 229.91100	
Date				Ref CPI		Index Ratio		Index Ratio		Index Ratio	
August	1	2024	314.06900	1.45308	1.43416	1.38993	1.36605				
August	2	2024	314.07242	1.45310	1.43418	1.38994	1.36606				
August	3	2024	314.07584	1.45312	1.43420	1.38996	1.36608				
August	4	2024	314.07926	1.45313	1.43421	1.38997	1.36609				
August	5	2024	314.08268	1.45315	1.43423	1.38999	1.36611				
August	6	2024	314.08610	1.45316	1.43424	1.39000	1.36612				
August	7	2024	314.08952	1.45318	1.43426	1.39002	1.36614				
August	8	2024	314.09294	1.45320	1.43427	1.39003	1.36615				
August	9	2024	314.09635	1.45321	1.43429	1.39005	1.36616				
August	10	2024	314.09977	1.45323	1.43430	1.39006	1.36618				
August	11	2024	314.10319	1.45324	1.43432	1.39008	1.36619				
August	12	2024	314.10661	1.45326	1.43434	1.39009	1.36621				
August	13	2024	314.11003	1.45327	1.43435	1.39011	1.36622				
August	14	2024	314.11345	1.45329	1.43437	1.39012	1.36624				
August	15	2024	314.11687	1.45331	1.43438	1.39014	1.36625				
August	16	2024	314.12029	1.45332	1.43440	1.39016	1.36627				
August	17	2024	314.12371	1.45334	1.43441	1.39017	1.36628				
August	18	2024	314.12713	1.45335	1.43443	1.39019	1.36630				
August	19	2024	314.13055	1.45337	1.43445	1.39020	1.36631				
August	20	2024	314.13397	1.45339	1.43446	1.39022	1.36633				
August	21	2024	314.13739	1.45340	1.43448	1.39023	1.36634				
August	22	2024	314.14081	1.45342	1.43449	1.39025	1.36636				
August	23	2024	314.14423	1.45343	1.43451	1.39026	1.36637				
August	24	2024	314.14765	1.45345	1.43452	1.39028	1.36639				
August	25	2024	314.15106	1.45346	1.43454	1.39029	1.36640				
August	26	2024	314.15448	1.45348	1.43455	1.39031	1.36642				
August	27	2024	314.15790	1.45350	1.43457	1.39032	1.36643				
August	28	2024	314.16132	1.45351	1.43459	1.39034	1.36645				
August	29	2024	314.16474	1.45353	1.43460	1.39035	1.36646				
August	30	2024	314.16816	1.45354	1.43462	1.39037	1.36648				
August	31	2024	314.17158	1.45356	1.43463	1.39038	1.36649				
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175		

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1-3/8% 30-Year TIPS TIPS of February 2044 912810RF7 February 15, 2014 February 28, 2014 June 30, 2014 October 31, 2014	0-1/4% 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:			February 15, 2044 233.05900	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	2024	314.06900	1.34759	1.32600	1.33373	1.32438	
August	2	2024	314.07242	1.34761	1.32602	1.33375	1.32440	
August	3	2024	314.07584	1.34762	1.32603	1.33376	1.32441	
August	4	2024	314.07926	1.34764	1.32605	1.33377	1.32443	
August	5	2024	314.08268	1.34765	1.32606	1.33379	1.32444	
August	6	2024	314.08610	1.34767	1.32607	1.33380	1.32446	
August	7	2024	314.08952	1.34768	1.32609	1.33382	1.32447	
August	8	2024	314.09294	1.34770	1.32610	1.33383	1.32448	
August	9	2024	314.09635	1.34771	1.32612	1.33385	1.32450	
August	10	2024	314.09977	1.34773	1.32613	1.33386	1.32451	
August	11	2024	314.10319	1.34774	1.32615	1.33388	1.32453	
August	12	2024	314.10661	1.34776	1.32616	1.33389	1.32454	
August	13	2024	314.11003	1.34777	1.32618	1.33391	1.32456	
August	14	2024	314.11345	1.34779	1.32619	1.33392	1.32457	
August	15	2024	314.11687	1.34780	1.32620	1.33393	1.32458	
August	16	2024	314.12029	1.34781	1.32622	1.33395	1.32460	
August	17	2024	314.12371	1.34783	1.32623	1.33396	1.32461	
August	18	2024	314.12713	1.34784	1.32625	1.33398	1.32463	
August	19	2024	314.13055	1.34786	1.32626	1.33399	1.32464	
August	20	2024	314.13397	1.34787	1.32628	1.33401	1.32466	
August	21	2024	314.13739	1.34789	1.32629	1.33402	1.32467	
August	22	2024	314.14081	1.34790	1.32631	1.33404	1.32469	
August	23	2024	314.14423	1.34792	1.32632	1.33405	1.32470	
August	24	2024	314.14765	1.34793	1.32633	1.33407	1.32471	
August	25	2024	314.15106	1.34795	1.32635	1.33408	1.32473	
August	26	2024	314.15448	1.34796	1.32636	1.33409	1.32474	
August	27	2024	314.15790	1.34798	1.32638	1.33411	1.32476	
August	28	2024	314.16132	1.34799	1.32639	1.33412	1.32477	
August	29	2024	314.16474	1.34801	1.32641	1.33414	1.32479	
August	30	2024	314.16816	1.34802	1.32642	1.33415	1.32480	
August	31	2024	314.17158	1.34803	1.32644	1.33417	1.32482	
CPI-U (NSA) for:			April 2024	313.548	May 2024	314.069	June 2024	314.175

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

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	2024	314.06900	1.32178	1.32550	1.31025	1.30017	
August	2	2024	314.07242	1.32179	1.32551	1.31027	1.30019	
August	3	2024	314.07584	1.32181	1.32553	1.31028	1.30020	
August	4	2024	314.07926	1.32182	1.32554	1.31029	1.30022	
August	5	2024	314.08268	1.32183	1.32555	1.31031	1.30023	
August	6	2024	314.08610	1.32185	1.32557	1.31032	1.30024	
August	7	2024	314.08952	1.32186	1.32558	1.31034	1.30026	
August	8	2024	314.09294	1.32188	1.32560	1.31035	1.30027	
August	9	2024	314.09635	1.32189	1.32561	1.31037	1.30029	
August	10	2024	314.09977	1.32191	1.32563	1.31038	1.30030	
August	11	2024	314.10319	1.32192	1.32564	1.31039	1.30032	
August	12	2024	314.10661	1.32193	1.32565	1.31041	1.30033	
August	13	2024	314.11003	1.32195	1.32567	1.31042	1.30034	
August	14	2024	314.11345	1.32196	1.32568	1.31044	1.30036	
August	15	2024	314.11687	1.32198	1.32570	1.31045	1.30037	
August	16	2024	314.12029	1.32199	1.32571	1.31047	1.30039	
August	17	2024	314.12371	1.32201	1.32573	1.31048	1.30040	
August	18	2024	314.12713	1.32202	1.32574	1.31049	1.30041	
August	19	2024	314.13055	1.32204	1.32576	1.31051	1.30043	
August	20	2024	314.13397	1.32205	1.32577	1.31052	1.30044	
August	21	2024	314.13739	1.32206	1.32578	1.31054	1.30046	
August	22	2024	314.14081	1.32208	1.32580	1.31055	1.30047	
August	23	2024	314.14423	1.32209	1.32581	1.31057	1.30049	
August	24	2024	314.14765	1.32211	1.32583	1.31058	1.30050	
August	25	2024	314.15106	1.32212	1.32584	1.31059	1.30051	
August	26	2024	314.15448	1.32214	1.32586	1.31061	1.30053	
August	27	2024	314.15790	1.32215	1.32587	1.31062	1.30054	
August	28	2024	314.16132	1.32216	1.32589	1.31064	1.30056	
August	29	2024	314.16474	1.32218	1.32590	1.31065	1.30057	
August	30	2024	314.16816	1.32219	1.32591	1.31067	1.30058	
August	31	2024	314.17158	1.32221	1.32593	1.31068	1.30060	
CPI-U (NSA) for:			April 2024	313.548	May 2024	314.069	June 2024	314.175

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

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	2024	314.06900	1.30107	1.28391	1.27326	1.27361				
August	2	2024	314.07242	1.30109	1.28393	1.27327	1.27363				
August	3	2024	314.07584	1.30110	1.28394	1.27329	1.27364				
August	4	2024	314.07926	1.30111	1.28396	1.27330	1.27366				
August	5	2024	314.08268	1.30113	1.28397	1.27331	1.27367				
August	6	2024	314.08610	1.30114	1.28398	1.27333	1.27368				
August	7	2024	314.08952	1.30116	1.28400	1.27334	1.27370				
August	8	2024	314.09294	1.30117	1.28401	1.27335	1.27371				
August	9	2024	314.09635	1.30119	1.28403	1.27337	1.27373				
August	10	2024	314.09977	1.30120	1.28404	1.27338	1.27374				
August	11	2024	314.10319	1.30121	1.28405	1.27340	1.27375				
August	12	2024	314.10661	1.30123	1.28407	1.27341	1.27377				
August	13	2024	314.11003	1.30124	1.28408	1.27342	1.27378				
August	14	2024	314.11345	1.30126	1.28410	1.27344	1.27380				
August	15	2024	314.11687	1.30127	1.28411	1.27345	1.27381				
August	16	2024	314.12029	1.30128	1.28412	1.27347	1.27382				
August	17	2024	314.12371	1.30130	1.28414	1.27348	1.27384				
August	18	2024	314.12713	1.30131	1.28415	1.27349	1.27385				
August	19	2024	314.13055	1.30133	1.28417	1.27351	1.27386				
August	20	2024	314.13397	1.30134	1.28418	1.27352	1.27388				
August	21	2024	314.13739	1.30136	1.28419	1.27353	1.27389				
August	22	2024	314.14081	1.30137	1.28421	1.27355	1.27391				
August	23	2024	314.14423	1.30138	1.28422	1.27356	1.27392				
August	24	2024	314.14765	1.30140	1.28424	1.27358	1.27393				
August	25	2024	314.15106	1.30141	1.28425	1.27359	1.27395				
August	26	2024	314.15448	1.30143	1.28426	1.27360	1.27396				
August	27	2024	314.15790	1.30144	1.28428	1.27362	1.27398				
August	28	2024	314.16132	1.30145	1.28429	1.27363	1.27399				
August	29	2024	314.16474	1.30147	1.28431	1.27365	1.27400				
August	30	2024	314.16816	1.30148	1.28432	1.27366	1.27402				
August	31	2024	314.17158	1.30150	1.28433	1.27367	1.27403				
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175		

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/4% 10-Year TIPS Series D-2029 9128287D6 July 15, 2019 July 31, 2019 September 30, 2019 November 29, 2019	
Maturity Date: Ref CPI on Dated Date:			July 15, 2028 251.01658	January 15, 2029 252.50248	February 15, 2049 251.63550	July 15, 2029 255.79368	
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio
August	1	2024	314.06900	1.25119	1.24383	1.24811	1.22782
August	2	2024	314.07242	1.25120	1.24384	1.24812	1.22783
August	3	2024	314.07584	1.25122	1.24385	1.24814	1.22785
August	4	2024	314.07926	1.25123	1.24387	1.24815	1.22786
August	5	2024	314.08268	1.25124	1.24388	1.24817	1.22788
August	6	2024	314.08610	1.25126	1.24389	1.24818	1.22789
August	7	2024	314.08952	1.25127	1.24391	1.24819	1.22790
August	8	2024	314.09294	1.25128	1.24392	1.24821	1.22792
August	9	2024	314.09635	1.25130	1.24393	1.24822	1.22793
August	10	2024	314.09977	1.25131	1.24395	1.24823	1.22794
August	11	2024	314.10319	1.25132	1.24396	1.24825	1.22796
August	12	2024	314.10661	1.25134	1.24397	1.24826	1.22797
August	13	2024	314.11003	1.25135	1.24399	1.24827	1.22798
August	14	2024	314.11345	1.25137	1.24400	1.24829	1.22800
August	15	2024	314.11687	1.25138	1.24401	1.24830	1.22801
August	16	2024	314.12029	1.25139	1.24403	1.24831	1.22802
August	17	2024	314.12371	1.25141	1.24404	1.24833	1.22804
August	18	2024	314.12713	1.25142	1.24406	1.24834	1.22805
August	19	2024	314.13055	1.25143	1.24407	1.24836	1.22806
August	20	2024	314.13397	1.25145	1.24408	1.24837	1.22808
August	21	2024	314.13739	1.25146	1.24410	1.24838	1.22809
August	22	2024	314.14081	1.25147	1.24411	1.24840	1.22810
August	23	2024	314.14423	1.25149	1.24412	1.24841	1.22812
August	24	2024	314.14765	1.25150	1.24414	1.24842	1.22813
August	25	2024	314.15106	1.25152	1.24415	1.24844	1.22814
August	26	2024	314.15448	1.25153	1.24416	1.24845	1.22816
August	27	2024	314.15790	1.25154	1.24418	1.24846	1.22817
August	28	2024	314.16132	1.25156	1.24419	1.24848	1.22818
August	29	2024	314.16474	1.25157	1.24420	1.24849	1.22820
August	30	2024	314.16816	1.25158	1.24422	1.24850	1.22821
August	31	2024	314.17158	1.25160	1.24423	1.24852	1.22822
CPI-U (NSA) for:			April 2024 313.548	May 2024 314.069	June 2024 314.175		

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				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	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		
Maturity Date: Ref CPI on Dated Date:				October 15, 2024 256.56513	January 15, 2030 257.28368	February 15, 2050 257.09503	April 15, 2025 258.30093		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
August	1	2024	314.06900	1.22413	1.22071	1.22161	1.21590		
August	2	2024	314.07242	1.22414	1.22072	1.22162	1.21592		
August	3	2024	314.07584	1.22416	1.22074	1.22163	1.21593		
August	4	2024	314.07926	1.22417	1.22075	1.22165	1.21594		
August	5	2024	314.08268	1.22418	1.22076	1.22166	1.21596		
August	6	2024	314.08610	1.22420	1.22078	1.22167	1.21597		
August	7	2024	314.08952	1.22421	1.22079	1.22169	1.21598		
August	8	2024	314.09294	1.22422	1.22080	1.22170	1.21600		
August	9	2024	314.09635	1.22424	1.22082	1.22171	1.21601		
August	10	2024	314.09977	1.22425	1.22083	1.22173	1.21602		
August	11	2024	314.10319	1.22426	1.22084	1.22174	1.21604		
August	12	2024	314.10661	1.22428	1.22086	1.22175	1.21605		
August	13	2024	314.11003	1.22429	1.22087	1.22177	1.21606		
August	14	2024	314.11345	1.22430	1.22088	1.22178	1.21608		
August	15	2024	314.11687	1.22432	1.22090	1.22179	1.21609		
August	16	2024	314.12029	1.22433	1.22091	1.22181	1.21610		
August	17	2024	314.12371	1.22434	1.22092	1.22182	1.21612		
August	18	2024	314.12713	1.22436	1.22094	1.22183	1.21613		
August	19	2024	314.13055	1.22437	1.22095	1.22185	1.21614		
August	20	2024	314.13397	1.22438	1.22096	1.22186	1.21616		
August	21	2024	314.13739	1.22440	1.22098	1.22187	1.21617		
August	22	2024	314.14081	1.22441	1.22099	1.22189	1.21618		
August	23	2024	314.14423	1.22442	1.22100	1.22190	1.21619		
August	24	2024	314.14765	1.22444	1.22102	1.22191	1.21621		
August	25	2024	314.15106	1.22445	1.22103	1.22193	1.21622		
August	26	2024	314.15448	1.22446	1.22104	1.22194	1.21623		
August	27	2024	314.15790	1.22448	1.22106	1.22195	1.21625		
August	28	2024	314.16132	1.22449	1.22107	1.22197	1.21626		
August	29	2024	314.16474	1.22450	1.22108	1.22198	1.21627		
August	30	2024	314.16816	1.22452	1.22110	1.22199	1.21629		
August	31	2024	314.17158	1.22453	1.22111	1.22201	1.21630		
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				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		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	
Maturity Date: Ref CPI on Dated Date:				July 15, 2030 256.39126		October 15, 2025 259.46997		January 15, 2031 260.31619		February 15, 2051 260.35150	
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
August	1	2024	314.06900	1.22496	1.21043	1.20649	1.20633				
August	2	2024	314.07242	1.22497	1.21044	1.20650	1.20634				
August	3	2024	314.07584	1.22499	1.21045	1.20652	1.20635				
August	4	2024	314.07926	1.22500	1.21046	1.20653	1.20637				
August	5	2024	314.08268	1.22501	1.21048	1.20654	1.20638				
August	6	2024	314.08610	1.22503	1.21049	1.20656	1.20639				
August	7	2024	314.08952	1.22504	1.21050	1.20657	1.20641				
August	8	2024	314.09294	1.22505	1.21052	1.20658	1.20642				
August	9	2024	314.09635	1.22507	1.21053	1.20660	1.20643				
August	10	2024	314.09977	1.22508	1.21054	1.20661	1.20645				
August	11	2024	314.10319	1.22509	1.21056	1.20662	1.20646				
August	12	2024	314.10661	1.22511	1.21057	1.20663	1.20647				
August	13	2024	314.11003	1.22512	1.21058	1.20665	1.20648				
August	14	2024	314.11345	1.22513	1.21060	1.20666	1.20650				
August	15	2024	314.11687	1.22515	1.21061	1.20667	1.20651				
August	16	2024	314.12029	1.22516	1.21062	1.20669	1.20652				
August	17	2024	314.12371	1.22517	1.21064	1.20670	1.20654				
August	18	2024	314.12713	1.22519	1.21065	1.20671	1.20655				
August	19	2024	314.13055	1.22520	1.21066	1.20673	1.20656				
August	20	2024	314.13397	1.22521	1.21068	1.20674	1.20658				
August	21	2024	314.13739	1.22523	1.21069	1.20675	1.20659				
August	22	2024	314.14081	1.22524	1.21070	1.20677	1.20660				
August	23	2024	314.14423	1.22525	1.21072	1.20678	1.20662				
August	24	2024	314.14765	1.22527	1.21073	1.20679	1.20663				
August	25	2024	314.15106	1.22528	1.21074	1.20681	1.20664				
August	26	2024	314.15448	1.22529	1.21075	1.20682	1.20666				
August	27	2024	314.15790	1.22531	1.21077	1.20683	1.20667				
August	28	2024	314.16132	1.22532	1.21078	1.20685	1.20668				
August	29	2024	314.16474	1.22533	1.21079	1.20686	1.20669				
August	30	2024	314.16816	1.22535	1.21081	1.20687	1.20671				
August	31	2024	314.17158	1.22536	1.21082	1.20688	1.20672				
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175		

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				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	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		
Maturity Date: Ref CPI on Dated Date:				April 15, 2026 262.25027	July 15, 2031 268.02090	October 15, 2026 273.25771	January 15, 2032 277.20274		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
August	1	2024	314.06900	1.19759	1.17181	1.14935	1.13299		
August	2	2024	314.07242	1.19761	1.17182	1.14936	1.13301		
August	3	2024	314.07584	1.19762	1.17183	1.14938	1.13302		
August	4	2024	314.07926	1.19763	1.17185	1.14939	1.13303		
August	5	2024	314.08268	1.19764	1.17186	1.14940	1.13304		
August	6	2024	314.08610	1.19766	1.17187	1.14941	1.13306		
August	7	2024	314.08952	1.19767	1.17188	1.14943	1.13307		
August	8	2024	314.09294	1.19768	1.17190	1.14944	1.13308		
August	9	2024	314.09635	1.19770	1.17191	1.14945	1.13309		
August	10	2024	314.09977	1.19771	1.17192	1.14946	1.13310		
August	11	2024	314.10319	1.19772	1.17194	1.14948	1.13312		
August	12	2024	314.10661	1.19774	1.17195	1.14949	1.13313		
August	13	2024	314.11003	1.19775	1.17196	1.14950	1.13314		
August	14	2024	314.11345	1.19776	1.17197	1.14951	1.13315		
August	15	2024	314.11687	1.19778	1.17199	1.14953	1.13317		
August	16	2024	314.12029	1.19779	1.17200	1.14954	1.13318		
August	17	2024	314.12371	1.19780	1.17201	1.14955	1.13319		
August	18	2024	314.12713	1.19781	1.17202	1.14956	1.13320		
August	19	2024	314.13055	1.19783	1.17204	1.14958	1.13322		
August	20	2024	314.13397	1.19784	1.17205	1.14959	1.13323		
August	21	2024	314.13739	1.19785	1.17206	1.14960	1.13324		
August	22	2024	314.14081	1.19787	1.17208	1.14961	1.13325		
August	23	2024	314.14423	1.19788	1.17209	1.14963	1.13327		
August	24	2024	314.14765	1.19789	1.17210	1.14964	1.13328		
August	25	2024	314.15106	1.19791	1.17211	1.14965	1.13329		
August	26	2024	314.15448	1.19792	1.17213	1.14966	1.13330		
August	27	2024	314.15790	1.19793	1.17214	1.14968	1.13331		
August	28	2024	314.16132	1.19794	1.17215	1.14969	1.13333		
August	29	2024	314.16474	1.19796	1.17217	1.14970	1.13334		
August	30	2024	314.16816	1.19797	1.17218	1.14971	1.13335		
August	31	2024	314.17158	1.19798	1.17219	1.14973	1.13336		
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				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		0-5/8% 10-Year TIPS Series D-2032 91282CEZ0 July 15, 2022 July 29, 2022 September 30, 2022 November 30, 2022		1-5/8% 5-Year TIPS Series AE-2027 91282CFR7 October 15, 2022 October 31, 2022 December 30, 2022	
Maturity Date: Ref CPI on Dated Date:				February 15, 2052 278.37500		April 15, 2027 282.34640		July 15, 2032 290.54829		October 15, 2027 296.22858	
Date				Ref CPI	Index Ratio		Index Ratio		Index Ratio		Index Ratio
August	1	2024	314.06900	1.12822	1.11235	1.08095	1.06023				
August	2	2024	314.07242	1.12824	1.11237	1.08096	1.06024				
August	3	2024	314.07584	1.12825	1.11238	1.08098	1.06025				
August	4	2024	314.07926	1.12826	1.11239	1.08099	1.06026				
August	5	2024	314.08268	1.12827	1.11240	1.08100	1.06027				
August	6	2024	314.08610	1.12828	1.11241	1.08101	1.06028				
August	7	2024	314.08952	1.12830	1.11243	1.08102	1.06029				
August	8	2024	314.09294	1.12831	1.11244	1.08104	1.06031				
August	9	2024	314.09635	1.12832	1.11245	1.08105	1.06032				
August	10	2024	314.09977	1.12833	1.11246	1.08106	1.06033				
August	11	2024	314.10319	1.12835	1.11247	1.08107	1.06034				
August	12	2024	314.10661	1.12836	1.11249	1.08108	1.06035				
August	13	2024	314.11003	1.12837	1.11250	1.08109	1.06036				
August	14	2024	314.11345	1.12838	1.11251	1.08111	1.06038				
August	15	2024	314.11687	1.12839	1.11252	1.08112	1.06039				
August	16	2024	314.12029	1.12841	1.11254	1.08113	1.06040				
August	17	2024	314.12371	1.12842	1.11255	1.08114	1.06041				
August	18	2024	314.12713	1.12843	1.11256	1.08115	1.06042				
August	19	2024	314.13055	1.12844	1.11257	1.08116	1.06043				
August	20	2024	314.13397	1.12846	1.11258	1.08118	1.06044				
August	21	2024	314.13739	1.12847	1.11260	1.08119	1.06046				
August	22	2024	314.14081	1.12848	1.11261	1.08120	1.06047				
August	23	2024	314.14423	1.12849	1.11262	1.08121	1.06048				
August	24	2024	314.14765	1.12851	1.11263	1.08122	1.06049				
August	25	2024	314.15106	1.12852	1.11264	1.08124	1.06050				
August	26	2024	314.15448	1.12853	1.11266	1.08125	1.06051				
August	27	2024	314.15790	1.12854	1.11267	1.08126	1.06053				
August	28	2024	314.16132	1.12855	1.11268	1.08127	1.06054				
August	29	2024	314.16474	1.12857	1.11269	1.08128	1.06055				
August	30	2024	314.16816	1.12858	1.11270	1.08129	1.06056				
August	31	2024	314.17158	1.12859	1.11272	1.08131	1.06057				
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175		

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				1-1/8% 10-Year TIPS Series A-2033 91282CGK1 January 15, 2023 January 31, 2023 March 31, 2023 May 31, 2023	1-1/2% 30-Year TIPS TIPS of February 2053 912810TP3 February 15, 2023 February 28, 2023 August 31, 2023	1-1/4% 5-Year TIPS Series X-2028 91282CGW5 April 15, 2023 April 28, 2023 June 30, 2023	1-3/8% 10-Year TIPS Series D-2033 91282CHP9 July 15, 2023 July 31, 2023 September 29, 2023 November 30, 2023		
Maturity Date: Ref CPI on Dated Date:				January 15, 2033 297.87606	February 15, 2053 297.25400	April 15, 2028 299.94933	July 15, 2033 303.70803		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
August	1	2024	314.06900	1.05436	1.05657	1.04707	1.03411		
August	2	2024	314.07242	1.05437	1.05658	1.04708	1.03413		
August	3	2024	314.07584	1.05438	1.05659	1.04710	1.03414		
August	4	2024	314.07926	1.05440	1.05660	1.04711	1.03415		
August	5	2024	314.08268	1.05441	1.05661	1.04712	1.03416		
August	6	2024	314.08610	1.05442	1.05663	1.04713	1.03417		
August	7	2024	314.08952	1.05443	1.05664	1.04714	1.03418		
August	8	2024	314.09294	1.05444	1.05665	1.04715	1.03419		
August	9	2024	314.09635	1.05445	1.05666	1.04716	1.03420		
August	10	2024	314.09977	1.05446	1.05667	1.04718	1.03422		
August	11	2024	314.10319	1.05448	1.05668	1.04719	1.03423		
August	12	2024	314.10661	1.05449	1.05669	1.04720	1.03424		
August	13	2024	314.11003	1.05450	1.05671	1.04721	1.03425		
August	14	2024	314.11345	1.05451	1.05672	1.04722	1.03426		
August	15	2024	314.11687	1.05452	1.05673	1.04723	1.03427		
August	16	2024	314.12029	1.05453	1.05674	1.04724	1.03428		
August	17	2024	314.12371	1.05455	1.05675	1.04726	1.03430		
August	18	2024	314.12713	1.05456	1.05676	1.04727	1.03431		
August	19	2024	314.13055	1.05457	1.05677	1.04728	1.03432		
August	20	2024	314.13397	1.05458	1.05679	1.04729	1.03433		
August	21	2024	314.13739	1.05459	1.05680	1.04730	1.03434		
August	22	2024	314.14081	1.05460	1.05681	1.04731	1.03435		
August	23	2024	314.14423	1.05461	1.05682	1.04732	1.03436		
August	24	2024	314.14765	1.05463	1.05683	1.04734	1.03437		
August	25	2024	314.15106	1.05464	1.05684	1.04735	1.03439		
August	26	2024	314.15448	1.05465	1.05686	1.04736	1.03440		
August	27	2024	314.15790	1.05466	1.05687	1.04737	1.03441		
August	28	2024	314.16132	1.05467	1.05688	1.04738	1.03442		
August	29	2024	314.16474	1.05468	1.05689	1.04739	1.03443		
August	30	2024	314.16816	1.05469	1.05690	1.04740	1.03444		
August	31	2024	314.17158	1.05471	1.05691	1.04742	1.03445		
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
August 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				2-3/8% 5-Year TIPS Series AE-2028 91282CJH5 October 15, 2023 October 31, 2023 December 29, 2023	1-3/4% 10-Year TIPS Series A-2034 91282CJY8 January 15, 2024 January 31, 2024 March 28, 2024 May 31, 2024	2-1/8% 30-Year TIPS TIPS of February 2054 912810TY4 February 15, 2024 February 29, 2024	2-1/8% 5-Year TIPS Series X-2029 91282CKL4 April 15, 2024 April 30, 2024 June 28, 2024		
Maturity Date: Ref CPI on Dated Date:				October 15, 2028 306.29390	January 15, 2034 307.39100	February 15, 2054 306.90376	April 15, 2029 309.30787		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
August	1	2024	314.06900	1.02538	1.02172	1.02335	1.01539		
August	2	2024	314.07242	1.02540	1.02174	1.02336	1.01540		
August	3	2024	314.07584	1.02541	1.02175	1.02337	1.01541		
August	4	2024	314.07926	1.02542	1.02176	1.02338	1.01543		
August	5	2024	314.08268	1.02543	1.02177	1.02339	1.01544		
August	6	2024	314.08610	1.02544	1.02178	1.02340	1.01545		
August	7	2024	314.08952	1.02545	1.02179	1.02341	1.01546		
August	8	2024	314.09294	1.02546	1.02180	1.02342	1.01547		
August	9	2024	314.09635	1.02547	1.02181	1.02344	1.01548		
August	10	2024	314.09977	1.02548	1.02182	1.02345	1.01549		
August	11	2024	314.10319	1.02550	1.02184	1.02346	1.01550		
August	12	2024	314.10661	1.02551	1.02185	1.02347	1.01551		
August	13	2024	314.11003	1.02552	1.02186	1.02348	1.01553		
August	14	2024	314.11345	1.02553	1.02187	1.02349	1.01554		
August	15	2024	314.11687	1.02554	1.02188	1.02350	1.01555		
August	16	2024	314.12029	1.02555	1.02189	1.02351	1.01556		
August	17	2024	314.12371	1.02556	1.02190	1.02353	1.01557		
August	18	2024	314.12713	1.02557	1.02191	1.02354	1.01558		
August	19	2024	314.13055	1.02559	1.02193	1.02355	1.01559		
August	20	2024	314.13397	1.02560	1.02194	1.02356	1.01560		
August	21	2024	314.13739	1.02561	1.02195	1.02357	1.01561		
August	22	2024	314.14081	1.02562	1.02196	1.02358	1.01563		
August	23	2024	314.14423	1.02563	1.02197	1.02359	1.01564		
August	24	2024	314.14765	1.02564	1.02198	1.02360	1.01565		
August	25	2024	314.15106	1.02565	1.02199	1.02361	1.01566		
August	26	2024	314.15448	1.02566	1.02200	1.02363	1.01567		
August	27	2024	314.15790	1.02567	1.02201	1.02364	1.01568		
August	28	2024	314.16132	1.02569	1.02203	1.02365	1.01569		
August	29	2024	314.16474	1.02570	1.02204	1.02366	1.01570		
August	30	2024	314.16816	1.02571	1.02205	1.02367	1.01571		
August	31	2024	314.17158	1.02572	1.02206	1.02368	1.01572		
CPI-U (NSA) for:				April 2024	313.548	May 2024	314.069	June 2024	314.175