

Appendix E

Econometric Results

Conditional Claim Rates		All Mortgages																													
		by Credit Subsidy Endorsement Cohort																													
Book\Policy		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	1979	0.02	0.34	0.74	0.72	0.84	0.80	0.83	0.84	0.99	1.23	1.10	0.96	0.81	0.71	0.59	0.57	0.54	0.39	0.33	0.25	0.19	0.20	0.17	0.13	0.12	0.12	0.10	0.04	0.06	0.04
	1980	0.03	0.67	1.18	1.56	1.49	1.62	1.64	2.02	2.48	2.14	1.70	1.43	1.30	1.24	1.20	1.10	0.71	0.66	0.59	0.40	0.39	0.34	0.23	0.18	0.23	0.14	0.14	0.06	0.05	0.08
	1981	0.10	1.38	3.21	3.24	3.59	3.56	4.66	5.34	3.96	3.09	2.54	2.12	2.03	1.94	1.83	1.33	1.23	1.13	0.87	0.79	0.64	0.55	0.49	0.34	0.36	0.31	0.24	0.12	0.10	0.09
	1982	0.15	2.25	4.60	5.88	6.90	8.98	9.99	7.12	4.76	3.74	3.49	2.75	2.93	2.84	1.79	1.97	2.03	1.40	1.29	0.97	1.26	1.15	1.07	1.06	0.49	0.30	0.05	0.12	0.11	0.09
	1983	0.03	0.57	1.69	2.36	3.60	5.21	4.57	3.29	2.74	2.53	2.27	2.37	2.14	1.54	1.55	1.50	1.41	1.17	1.08	0.71	0.79	0.77	0.53	0.48	0.36	0.36	0.14	0.12	0.10	0.09
	1984	0.07	1.17	2.89	4.73	6.84	5.99	4.25	3.30	2.95	2.58	2.58	2.28	1.83	1.67	1.32	1.23	1.19	0.89	0.65	0.54	0.40	0.25	0.29	0.23	0.19	0.18	0.16	0.13	0.11	0.09
	1985	0.05	1.15	3.66	6.26	5.57	4.16	3.48	3.10	2.97	2.78	2.58	1.90	1.80	1.58	1.10	1.22	0.85	0.67	0.51	0.40	0.32	0.26	0.17	0.23	0.21	0.19	0.16	0.13	0.11	0.09
	1986	0.04	0.74	2.21	2.53	2.28	2.05	1.84	1.72	1.83	1.84	1.46	1.38	1.20	1.07	0.85	0.68	0.58	0.50	0.46	0.32	0.23	0.24	0.20	0.16	0.14	0.11	0.09	0.08	0.06	0.05
	1987	0.04	0.53	1.21	1.38	1.39	1.35	1.24	1.35	1.33	1.13	1.12	1.00	0.90	0.82	0.49	0.44	0.46	0.46	0.33	0.24	0.19	0.17	0.16	0.13	0.10	0.08	0.06	0.05	0.05	0.04
	1988	0.04	0.53	1.20	1.51	1.70	1.67	1.92	1.98	1.61	1.56	1.43	1.33	1.11	0.74	0.66	0.63	0.63	0.48	0.39	0.26	0.28	0.19	0.16	0.13	0.10	0.09	0.07	0.06	0.05	0.04
	1989	0.03	0.51	1.41	1.85	2.09	2.55	2.73	2.32	2.16	1.86	1.64	1.47	0.97	0.84	0.77	0.74	0.64	0.51	0.41	0.36	0.23	0.20	0.16	0.12	0.10	0.09	0.07	0.06	0.05	0.04
	1990	0.02	0.42	1.22	1.69	2.23	2.37	1.95	1.97	1.72	1.55	1.36	0.92	0.75	0.79	0.75	0.56	0.55	0.51	0.46	0.27	0.23	0.18	0.14	0.11	0.10	0.08	0.07	0.06	0.05	0.04
	1991	0.03	0.44	1.26	1.93	2.31	1.94	1.97	1.76	1.56	1.45	0.93	0.81	0.75	0.77	0.71	0.54	0.44	0.51	0.33	0.27	0.20	0.16	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.04
	1992	0.02	0.33	0.91	1.31	1.34	1.60	1.52	1.37	1.23	0.86	0.72	0.64	0.65	0.55	0.48	0.37	0.47	0.30	0.24	0.18	0.13	0.10	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03
	1993	0.01	0.24	0.66	0.92	1.24	1.23	1.12	0.99	0.65	0.55	0.54	0.57	0.46	0.37	0.31	0.33	0.27	0.25	0.17	0.13	0.10	0.09	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.03
	1994	0.01	0.26	0.70	1.14	1.29	1.18	0.97	0.63	0.53	0.50	0.51	0.43	0.33	0.29	0.30	0.26	0.26	0.17	0.13	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03
	1995	0.03	0.41	1.43	2.21	2.36	2.15	1.55	1.35	1.51	1.43	1.12	0.97	0.81	0.75	0.43	0.36	0.27	0.20	0.15	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.02
	1996	0.01	0.40	1.42	2.14	2.17	1.63	1.44	1.67	1.66	1.42	1.14	0.97	0.98	0.74	0.65	0.46	0.35	0.27	0.23	0.19	0.16	0.14	0.11	0.10	0.08	0.07	0.06	0.05	0.04	0.03
	1997	0.02	0.54	1.68	2.30	1.97	1.94	2.21	2.15	1.84	1.50	1.25	1.33	0.96	0.79	0.56	0.40	0.32	0.27	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03
	1998	0.03	0.48	1.33	1.44	1.56	1.85	2.01	1.79	1.53	1.29	1.27	0.89	0.81	0.53	0.37	0.30	0.26	0.22	0.18	0.15	0.13	0.11	0.09	0.08	0.06	0.05	0.05	0.04	0.03	0.03
	1999	0.01	0.39	0.92	1.32	1.88	2.14	1.99	1.59	1.34	1.34	0.97	0.90	0.58	0.40	0.32	0.27	0.24	0.20	0.17	0.14	0.12	0.10	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03
	2000	0.03	0.59	2.06	3.87	4.46	3.85	3.12	2.68	2.81	2.52	2.14	1.52	1.00	0.72	0.57	0.47	0.39	0.33	0.27	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.05	0.05	0.04
	2001	0.02	0.64	2.30	3.93	3.93	3.34	2.82	2.66	2.22	2.17	1.41	0.90	0.64	0.48	0.38	0.32	0.27	0.23	0.19	0.16	0.13	0.11	0.10	0.08	0.07	0.06	0.05	0.04	0.04	0.03
	2002	0.02	0.65	2.32	2.91	2.69	2.41	2.38	2.29	2.16	1.44	0.99	0.71	0.52	0.40	0.33	0.28	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.06	0.05	0.05	0.04	0.03	0.03
	2003	0.02	0.68	1.56	1.73	1.64	1.86	2.14	1.76	1.27	1.01	0.73	0.54	0.40	0.32	0.27	0.23	0.21	0.18	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.03
	2004	0.07	0.78	1.50	1.86	2.35	2.88	2.25	1.60	1.25	0.92	0.66	0.49	0.37	0.31	0.26	0.23	0.20	0.17	0.15	0.13	0.11	0.10	0.08	0.07	0.06	0.05	0.05	0.04	0.04	0.03
	2005	0.05	0.70	1.84	3.10	6.19	5.02	3.53	2.58	1.86	1.38	0.98	0.69	0.52	0.41	0.35	0.29	0.25	0.21	0.18	0.15	0.13	0.11	0.10	0.08	0.07	0.06	0.05	0.05	0.04	0.03
	2006	0.03	0.74	2.53	6.29	6.13	4.58	3.39	2.26	1.64	1.24	0.89	0.63	0.44	0.35	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02
	2007	0.03	0.93	5.63	7.27	6.02	5.10	3.68	2.39	1.77	1.35	1.00	0.67	0.48	0.38	0.31	0.26	0.22	0.18	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02
	2008	0.03	1.59	4.32	4.78	4.46	3.27	2.12	1.60	1.25	0.96	0.65	0.48	0.38	0.32	0.27	0.23	0.19	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02
	2009	0.05	0.84	2.02	2.09	1.77	1.47	1.16	0.85	0.66	0.56	0.47	0.39	0.33	0.28	0.23	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02	0.02
	2010	0.05	0.66	1.72	1.96	1.81	1.52	1.12	0.89	0.76	0.68	0.57	0.48	0.40	0.34	0.28	0.24	0.21	0.17	0.14	0.12	0.10	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02
	2011	0.03	0.56	1.50	1.81	1.67	1.31	1.07	0.91	0.81	0.72	0.61	0.51	0.43	0.36	0.30	0.25	0.22	0.18	0.15	0.13	0.11	0.09	0.08	0.06	0.05	0.05	0.04	0.03	0.03	0.02
	2012	0.03	0.50	1.39	1.69	1.49	1.26	1.04	0.92	0.82	0.73	0.62	0.52	0.43	0.36	0.30	0.26	0.22	0.18	0.16	0.13	0.11	0.09	0.08	0.07	0.05	0.05	0.04	0.03	0.03	0.02
	2013	0.03	0.50	1.41	1.69	1.56	1.26	1.06	0.93	0.84	0.74	0.63	0.53	0.44	0.37	0.31	0.26	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02
	2014	0.03	0.50	1.40	1.72	1.50	1.26	1.06	0.93	0.84	0.74	0.63	0.53	0.44	0.37	0.31	0.26	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02
	2015	0.03	0.50	1.43	1.68	1.53	1.27	1.07	0.94	0.84	0.75	0.63	0.53	0.44	0.37	0.31	0.26	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02

Conditional Prepayment Rates			All Mortgages																												By Credit Subsidy Endorsement Cohort																											
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																												
1979	0.34	0.70	0.66	0.49	1.35	1.56	1.96	5.10	8.59	6.29	5.98	6.39	6.33	11.05	17.69	19.39	9.23	11.97	11.51	15.11	18.25	12.04	12.69	16.09	19.80	22.40	17.57	17.46	19.03	26.96																												
1980	0.36	0.76	0.32	1.72	2.00	2.74	10.87	16.54	8.37	6.90	7.89	9.03	16.98	20.61	21.94	10.41	12.75	12.00	15.51	17.85	13.67	12.49	15.75	18.81	19.00	19.44	15.83	15.78	18.47	14.68																												
1981	0.26	0.47	8.64	5.48	7.28	23.11	25.94	12.14	9.18	9.11	9.94	15.43	18.05	19.87	10.12	12.89	11.96	14.80	19.76	12.71	14.75	13.39	14.93	15.03	15.55	18.02	12.84	14.00	14.50	10.40																												
1982	0.40	20.00	10.54	14.28	33.03	32.23	16.62	13.06	11.05	11.05	14.26	16.01	17.78	10.27	11.72	16.04	15.93	22.77	13.36	13.17	17.10	12.32	15.21	12.86	16.54	18.01	11.34	14.69	10.50	9.37																												
1983	0.46	1.05	2.37	18.12	27.99	11.97	9.48	11.39	13.87	23.33	24.71	26.65	12.42	15.22	14.88	28.97	23.06	13.35	12.61	16.77	19.47	16.67	14.75	13.07	11.90	15.95	15.14	10.83	9.67	9.45																												
1984	0.28	1.58	19.36	26.57	12.14	9.89	10.92	11.79	18.51	20.28	22.13	9.95	11.48	10.92	14.71	22.70	8.34	7.96	8.94	9.70	11.53	6.55	8.64	4.00	7.95	15.27	10.92	9.77	9.54	9.31																												
1985	0.44	13.25	25.16	11.58	9.15	10.85	12.47	21.31	22.57	22.75	9.33	10.87	9.89	11.94	13.69	18.12	7.70	9.88	8.31	7.77	7.49	8.90	2.88	7.00	15.65	11.20	10.03	9.79	9.56	9.33																												
1986	1.10	6.03	3.65	4.01	5.53	6.87	16.28	26.44	25.60	8.35	12.20	10.65	16.26	17.65	11.57	19.74	15.57	17.03	13.50	10.00	13.86	5.79	8.29	15.12	11.09	10.26	10.04	9.81	9.55	9.30																												
1987	0.55	1.29	2.05	3.20	3.79	9.21	20.58	21.76	7.14	10.83	9.50	16.01	18.79	10.63	15.03	22.76	22.78	17.54	13.12	15.09	8.61	10.34	16.66	11.62	10.27	10.29	10.16	9.90	9.64	9.40																												
1988	0.56	1.69	3.33	4.76	13.61	25.46	24.88	8.00	11.92	10.18	15.61	17.82	10.72	12.75	17.79	22.47	15.69	11.64	13.95	7.06	10.25	15.87	11.39	9.95	9.81	9.61	9.34	9.07	8.81	8.56																												
1989	0.58	2.21	4.32	15.24	28.17	27.17	8.39	12.38	10.33	16.08	18.14	10.54	12.55	16.99	19.07	19.80	12.28	14.61	6.49	9.45	16.30	11.82	10.12	10.09	9.88	9.64	9.40	9.17	8.94	8.71																												
1990	0.60	2.37	9.91	28.82	28.81	8.41	12.81	10.42	16.83	19.15	10.72	13.20	18.41	21.16	18.26	16.59	16.96	7.59	10.03	16.86	12.11	10.68	10.67	10.46	10.21	10.00	9.77	9.53	9.30	9.06																												
1991	0.57	6.47	26.21	29.16	8.17	12.87	10.69	17.72	20.13	10.77	14.06	19.81	23.17	19.19	15.55	21.27	8.10	10.39	16.95	12.06	10.47	10.48	10.27	9.99	9.72	9.45	9.19	8.93	8.68	8.44																												
1992	1.06	10.87	17.98	6.96	11.79	10.35	18.58	21.72	11.38	16.26	22.81	29.35	23.17	17.73	16.37	15.91	14.10	22.84	15.00	11.99	12.01	11.75	11.34	10.94	10.55	10.16	9.80	9.42	9.06	8.70																												
1993	2.39	8.44	5.33	9.19	8.80	15.42	19.27	10.93	16.24	24.05	35.47	26.27	20.17	17.26	14.90	25.48	25.81	13.97	10.61	9.94	9.30	8.97	8.65	8.34	8.04	7.76	7.48	7.22	6.96	6.71																												
1994	1.61	3.42	7.24	7.63	12.88	15.86	10.07	14.94	21.29	34.39	25.92	20.32	16.95	13.65	19.21	23.91	13.27	10.27	8.43	7.68	7.38	7.09	6.82	6.56	6.32	6.09	5.87	5.65	5.44	5.24																												
1995	2.16	9.88	9.25	19.00	19.30	10.30	16.64	22.26	29.92	24.96	20.60	16.68	12.90	15.86	25.15	15.11	11.88	11.59	11.16	10.77	10.41	10.06	9.72	9.38	9.06	8.75	8.45	8.15	7.86	7.57																												
1996	1.09	4.43	16.13	18.65	9.73	16.56	23.21	33.60	27.08	22.29	17.67	13.47	17.96	31.48	18.60	13.59	13.11	12.45	12.05	11.66	11.29	10.94	10.59	10.25	9.93	9.61	9.30	9.01	8.72	8.44																												
1997	1.50	14.76	21.20	9.90	18.22	23.20	31.89	26.28	21.94	17.54	13.27	17.82	31.00	19.03	14.47	13.64	13.18	12.76	12.34	11.95	11.57	11.20	10.84	10.49	10.15	9.82	9.49	9.18	8.87	8.57																												
1998	3.23	12.16	8.23	16.52	22.52	36.73	29.13	23.86	18.19	13.67	17.55	31.96	16.76	12.04	10.48	9.09	8.86	8.56	8.27	8.01	7.78	7.55	7.33	7.12	6.92	6.72	6.53	6.35	6.18	6.01																												
1999	1.56	3.84	11.72	20.26	36.49	29.20	24.42	18.06	13.18	16.79	29.87	15.70	11.35	9.60	8.62	7.94	7.72	7.44	7.13	6.89	6.68	6.47	6.28	6.09	5.90	5.73	5.56	5.40	5.24	5.09																												
2000	1.16	24.19	30.46	34.87	27.56	24.07	18.48	14.03	18.10	29.57	19.06	14.93	15.31	15.31	15.09	14.49	14.09	13.62	13.15	12.71	12.27	11.84	11.42	11.02	10.63	10.25	9.88	9.52	9.17	8.83																												
2001	7.66	22.23	41.24	30.57	25.14	18.54	13.12	17.83	30.70	15.85	11.30	10.15	9.76	9.86	9.71	9.22	8.96	8.70	8.43	8.17	7.90	7.66	7.43	7.21	7.00	6.80	6.60	6.41	6.23	6.05																												
2002	5.99	35.85	29.17	24.86	18.26	13.76	16.43	26.51	13.40	9.51	8.03	7.54	7.73	7.75	7.61	7.03	6.83	6.60	6.39	6.18	6.00	5.83	5.67	5.51	5.36	5.21	5.07	4.94	4.80	4.68																												
2003	9.90	17.97	21.77	16.43	12.25	11.65	16.71	9.11	7.63	6.35	6.39	6.57	6.71	6.63	6.49	6.06	5.93	5.72	5.33	5.12	4.98	4.84	4.70	4.56	4.43	4.30	4.18	4.06	3.94	3.83																												
2004	5.14	17.70	15.48	12.06	10.87	14.02	8.02	6.93	6.17	6.32	6.54	6.71	6.73	6.60	6.42	6.10	5.92	5.60	5.27	5.11	4.96	4.82	4.68	4.54	4.41	4.29	4.16	4.04	3.92	3.46																												
2005	4.22	9.67	9.78	11.57	16.26	8.90	7.48	6.62	6.97	7.39	7.82	8.22	8.34	8.24	8.02	7.57	7.37	7.16	6.92	6.72	6.53	6.36	6.18	6.01	5.84	5.68	5.53	5.37	5.23	4.84																												
2006	1.57	6.92	11.27	14.67	7.50	5.47	4.63	4.84	5.25	5.60	6.05	6.46	6.74	6.72	6.60	6.33	6.16	6.00	5.83	5.68	5.53	5.38	5.24	5.10	4.97	4.83	4.71	4.58	4.46	4.34																												
2007	1.52	11.39	15.62	7.95	5.81	4.43	4.36	4.87	5.28	5.61	6.01	6.62	6.86	6.85	6.71	6.47	6.31	6.15	5.98	5.83	5.68	5.53	5.39	5.25	5.12	4.98	4.85	4.73	4.61	4.49																												
2008	2.63	8.63	6.72	5.67	4.67	4.62	5.15	5.53	5.86	6.27	6.83	6.97	6.88	6.72	6.55	6.29	6.14	5.98	5.82	5.67	5.53	5.38	5.24	5.11	4.98	4.85	4.72	4.60	4.48	4.36																												
2009	2.58	5.43	6.31	6.08	6.29	6.25	6.61	7.18	7.33	7.23	7.06	6.90	6.74	6.58	6.42	6.08	5.97	5.81	5.66	5.51	5.37	5.23	5.10	4.97	4.84	4.72	4.59	4.48	4.36	4.25																												
2010	1.64	6.15	8.98	9.65	9.90	9.79	10.42	10.53	10.34	9.99	9.70	9.42	9.16	8.90	8.65	8.16	7.97	7.74	7.51	7.29	7.07	6.87	6.67	6.48	6.29	6.12	5.94	5.77	5.61	5.45																												
2011	1.93	7.69	11.32	12.10	12.39	12.40	12.34	12.04	11.56	11.10	10.73	10.39	10.06	9.74	9.44	8.87	8.64	8.36	8.09	7.84	7.60	7.36	7.14	6.92	6.71	6.51	6.32	6.13	5.95	5.78																												
2012	1.98	8.19	11.74	12.61	13.09	12.56	12.36	11.92	11.43	10.98	10.61	10.28	9.96	9.65	9.35	8.78	8.56	8.28	8.02	7.77	7.52	7.29	7.07	6.85	6.65	6.45	6.26	6.07	5.90	5.72																												
2013	2.04	8.12	11.61	12.56	12.75	12.48	12.21	11.79	11.31	10.86	10.50	10.17	9.85	9.54	9.25	8.68	8.46	8.19	7.92	7.67	7.43	7.21	6.99	6.78	6.57	6.37	6.18	6.00	5.83	5.66																												
2014	1.99	8.03	11.57	12.30	12.86	12.33	12.06	11.62	11.14	10.69	10.34	10.01	9.69	9.38	9.09	8.53	8.31	8.04	7.78	7.54	7.30	7.08	6.86	6.65	6.45	6.26	6.07	5.89	5.72	5.55																												
2015	2.00	8.07	11.43	12.47	12.70	12.29	12.04	11.61	11.14	10.69	10.34	10.02	9.70	9.40	9.11	8.55	8.33	8.06	7.81	7.56	7.33	7.10	6.88	6.67	6.47	6.28	6.09	5.91	5.74	5.57																												

Cumulative Claim Rates		All Mortgages by Credit Subsidy Endorsement Cohort																												
Book\Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1979	0.02	0.37	1.10	1.80	2.61	3.35	4.12	4.87	5.69	6.62	7.40	8.02	8.52	8.92	9.21	9.44	9.61	9.73	9.81	9.87	9.90	9.94	9.96	9.97	9.99	10.00	10.00	10.00	10.01	10.01
1980	0.03	0.70	1.86	3.37	4.76	6.23	7.65	9.17	10.70	11.87	12.72	13.36	13.89	14.30	14.61	14.82	14.95	15.05	15.13	15.17	15.21	15.23	15.25	15.26	15.27	15.28	15.28	15.28	15.28	15.28
1981	0.10	1.48	4.62	7.41	10.24	12.74	15.13	17.04	18.20	18.99	19.56	19.98	20.31	20.56	20.75	20.87	20.96	21.04	21.08	21.12	21.14	21.16	21.18	21.18	21.19	21.20	21.20	21.20	21.20	21.20
1982	0.15	2.40	5.95	9.81	13.42	16.25	18.10	19.07	19.58	19.92	20.19	20.37	20.52	20.64	20.70	20.76	20.82	20.84	20.86	20.88	20.89	20.90	20.91	20.92	20.92	20.92	20.92	20.92	20.92	20.92
1983	0.03	0.60	2.25	4.47	7.16	9.82	11.75	12.95	13.80	14.45	14.89	15.22	15.44	15.57	15.68	15.77	15.82	15.86	15.89	15.90	15.92	15.93	15.94	15.94	15.95	15.95	15.95	15.95	15.95	15.95
1984	0.07	1.24	4.03	7.60	11.14	13.65	15.15	16.14	16.89	17.40	17.80	18.06	18.25	18.40	18.50	18.58	18.64	18.68	18.70	18.72	18.74	18.74	18.75	18.76	18.76	18.77	18.77	18.77	18.77	18.77
1985	0.05	1.19	4.31	8.11	10.88	12.65	13.91	14.85	15.53	16.00	16.33	16.54	16.72	16.86	16.94	17.02	17.06	17.09	17.11	17.13	17.14	17.15	17.15	17.16	17.16	17.17	17.17	17.17	17.17	17.18
1986	0.04	0.77	2.81	5.00	6.85	8.38	9.63	10.59	11.32	11.86	12.24	12.55	12.79	12.96	13.08	13.15	13.21	13.25	13.28	13.29	13.31	13.32	13.32	13.33	13.33	13.34	13.34	13.34	13.34	13.34
1987	0.04	0.56	1.75	3.05	4.30	5.45	6.40	7.21	7.82	8.29	8.71	9.04	9.28	9.46	9.56	9.63	9.69	9.73	9.76	9.78	9.79	9.80	9.80	9.81	9.81	9.81	9.82	9.82	9.82	9.82
1988	0.04	0.57	1.73	3.13	4.61	5.84	6.87	7.65	8.22	8.70	9.08	9.38	9.58	9.70	9.79	9.86	9.91	9.95	9.97	9.99	10.00	10.01	10.02	10.02	10.02	10.03	10.03	10.03	10.03	10.03
1989	0.03	0.54	1.91	3.59	5.18	6.52	7.53	8.29	8.90	9.36	9.69	9.93	10.07	10.17	10.25	10.31	10.35	10.38	10.40	10.41	10.42	10.43	10.43	10.44	10.44	10.44	10.44	10.44	10.44	10.44
1990	0.02	0.44	1.61	3.06	4.40	5.37	6.08	6.70	7.17	7.52	7.76	7.90	8.00	8.09	8.15	8.19	8.22	8.24	8.26	8.27	8.28	8.29	8.29	8.29	8.29	8.30	8.30	8.30	8.30	8.30
1991	0.03	0.46	1.63	2.92	3.99	4.79	5.49	6.03	6.42	6.70	6.86	6.98	7.06	7.13	7.18	7.21	7.23	7.25	7.26	7.27	7.28	7.28	7.28	7.29	7.29	7.29	7.29	7.29	7.29	7.29
1992	0.02	0.34	1.14	2.08	2.95	3.86	4.63	5.17	5.55	5.78	5.94	6.05	6.13	6.18	6.21	6.24	6.26	6.27	6.28	6.29	6.29	6.29	6.29	6.30	6.30	6.30	6.30	6.30	6.30	6.30
1993	0.01	0.24	0.83	1.61	2.54	3.37	4.01	4.45	4.71	4.89	5.03	5.12	5.17	5.21	5.23	5.25	5.26	5.27	5.28	5.28	5.28	5.28	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29
1994	0.01	0.27	0.93	1.93	2.95	3.75	4.30	4.62	4.85	5.01	5.12	5.19	5.23	5.26	5.29	5.31	5.32	5.33	5.34	5.34	5.34	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.36	5.36
1995	0.03	0.43	1.68	3.42	4.87	5.91	6.57	7.04	7.44	7.69	7.84	7.95	8.02	8.07	8.10	8.11	8.12	8.13	8.14	8.14	8.14	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15	8.15
1996	0.01	0.41	1.75	3.41	4.74	5.63	6.26	6.82	7.18	7.40	7.53	7.62	7.70	7.75	7.78	7.80	7.81	7.81	7.82	7.82	7.83	7.83	7.83	7.83	7.83	7.83	7.83	7.83	7.83	7.84
1997	0.02	0.56	1.96	3.44	4.55	5.42	6.17	6.65	6.94	7.12	7.24	7.36	7.42	7.46	7.48	7.49	7.50	7.51	7.51	7.51	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52
1998	0.03	0.49	1.61	2.71	3.70	4.58	5.17	5.53	5.75	5.91	6.04	6.11	6.16	6.18	6.20	6.21	6.22	6.22	6.23	6.23	6.23	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24	6.24
1999	0.01	0.40	1.27	2.36	3.57	4.42	4.97	5.29	5.50	5.69	5.80	5.87	5.91	5.93	5.95	5.96	5.97	5.98	5.98	5.99	5.99	5.99	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
2000	0.03	0.61	2.15	4.09	5.46	6.26	6.73	7.05	7.32	7.52	7.63	7.70	7.73	7.75	7.76	7.77	7.78	7.79	7.79	7.79	7.79	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80
2001	0.02	0.61	2.25	3.82	4.86	5.48	5.90	6.22	6.44	6.58	6.65	6.70	6.72	6.74	6.75	6.76	6.77	6.78	6.78	6.78	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79
2002	0.02	0.63	2.01	3.20	4.00	4.56	5.02	5.39	5.63	5.77	5.85	5.91	5.95	5.97	5.99	6.01	6.02	6.03	6.04	6.04	6.05	6.05	6.05	6.06	6.06	6.06	6.06	6.06	6.06	6.06
2003	0.02	0.63	1.77	2.74	3.50	4.24	4.97	5.46	5.77	6.00	6.15	6.26	6.33	6.38	6.43	6.46	6.49	6.51	6.53	6.55	6.56	6.57	6.58	6.58	6.59	6.59	6.60	6.60	6.60	6.61
2004	0.07	0.81	1.96	3.16	4.45	5.84	6.73	7.30	7.71	7.99	8.18	8.30	8.39	8.46	8.52	8.56	8.60	8.63	8.65	8.67	8.69	8.70	8.71	8.72	8.73	8.73	8.74	8.74	8.75	8.75
2005	0.05	0.72	2.29	4.64	8.65	11.17	12.70	13.69	14.34	14.78	15.06	15.25	15.37	15.46	15.53	15.59	15.63	15.66	15.69	15.71	15.73	15.74	15.75	15.76	15.76	15.77	15.77	15.78	15.78	15.78
2006	0.03	0.76	3.06	7.99	11.78	14.23	15.86	16.86	17.53	18.01	18.32	18.53	18.67	18.77	18.84	18.90	18.95	18.98	19.01	19.04	19.06	19.07	19.08	19.09	19.10	19.10	19.11	19.11	19.12	19.12
2007	0.03	0.94	5.79	10.74	14.21	16.80	18.49	19.50	20.19	20.69	21.02	21.24	21.38	21.48	21.56	21.62	21.67	21.70	21.73	21.76	21.77	21.79	21.80	21.81	21.82	21.82	21.83	21.83	21.84	21.84
2008	0.03	1.57	5.35	9.06	12.17	14.24	15.47	16.34	16.97	17.41	17.69	17.88	18.03	18.14	18.22	18.29	18.35	18.39	18.42	18.45	18.47	18.49	18.50	18.51	18.52	18.53	18.53	18.54	18.54	18.54
2009	0.05	0.87	2.72	4.46	5.82	6.86	7.61	8.12	8.48	8.77	8.99	9.16	9.29	9.39	9.47	9.54	9.59	9.63	9.66	9.69	9.71	9.72	9.74	9.75	9.76	9.76	9.77	9.77	9.78	9.78
2010	0.05	0.69	2.27	3.87	5.18	6.15	6.78	7.23	7.57	7.84	8.04	8.19	8.30	8.39	8.46	8.51	8.55	8.58	8.60	8.62	8.63	8.65	8.65	8.66	8.67	8.67	8.68	8.68	8.68	8.68
2011	0.03	0.58	1.93	3.35	4.48	5.24	5.78	6.17	6.47	6.71	6.89	7.02	7.12	7.20	7.25	7.29	7.33	7.35	7.37	7.39	7.40	7.41	7.41	7.42	7.42	7.43	7.43	7.43	7.43	7.44
2012	0.03	0.52	1.77	3.08	4.07	4.79	5.30	5.69	5.99	6.23	6.40	6.54	6.63	6.71	6.76	6.81	6.84	6.87	6.88	6.90	6.91	6.92	6.93	6.93	6.94	6.94	6.95	6.95	6.95	6.95
2013	0.03	0.52	1.78	3.10	4.14	4.86	5.38	5.78	6.09	6.34	6.52	6.66	6.76	6.84	6.89	6.94	6.97	7.00	7.02	7.04	7.05	7.06	7.07	7.07	7.08	7.08	7.08	7.09	7.09	7.09
2014	0.03	0.52	1.78	3.12	4.12	4.85	5.37	5.77	6.09	6.34	6.52	6.66	6.76	6.84	6.90	6.94	6.98	7.01	7.03	7.04	7.06	7.07	7.07	7.08	7.08	7.09	7.09	7.09	7.09	7.10
2015	0.03	0.52	1.80	3.11	4.14	4.87	5.40	5.81	6.12	6.37	6.56	6.70	6.80	6.88	6.94	6.99	7.02	7.05	7.07	7.08	7.10	7.11	7.11	7.12	7.13	7.13	7.13	7.13	7.14	7.14

Cumulative Prepayment Rates All Mortgages by Credit Subsidy Endorsement Cohort																														
Book\Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1979	0.34	1.03	1.68	2.16	3.46	4.92	6.72	11.27	18.47	23.24	27.43	31.60	35.42	41.61	50.36	58.20	61.19	64.69	67.63	71.04	74.52	76.40	78.13	80.05	82.02	83.81	84.90	85.79	86.59	87.51
1980	0.36	1.12	1.44	3.10	4.97	7.44	16.83	29.32	34.47	38.25	42.19	46.26	53.11	59.92	65.57	67.64	69.87	71.70	73.75	75.74	76.98	77.96	79.03	80.10	80.99	81.71	82.19	82.59	82.98	83.24
1981	0.26	0.73	9.18	13.91	19.64	35.85	49.18	53.52	56.22	58.55	60.78	63.81	66.74	69.31	70.34	71.49	72.40	73.38	74.49	75.05	75.61	76.05	76.47	76.82	77.13	77.43	77.61	77.78	77.92	78.02
1982	0.40	20.29	28.44	37.81	55.11	65.25	68.33	70.10	71.30	72.30	73.41	74.44	75.36	75.78	76.20	76.70	77.10	77.58	77.79	77.97	78.16	78.28	78.40	78.49	78.59	78.68	78.72	78.77	78.81	78.83
1983	0.46	1.51	3.83	20.85	41.75	47.87	51.88	56.02	60.33	66.36	71.10	74.84	76.07	77.36	78.42	80.13	81.07	81.49	81.82	82.21	82.57	82.83	83.01	83.15	83.26	83.38	83.48	83.55	83.59	83.64
1984	0.28	1.85	20.61	40.64	46.92	51.07	54.92	58.45	63.16	67.20	70.61	71.76	72.93	73.89	75.03	76.50	76.91	77.26	77.63	77.98	78.36	78.55	78.79	78.88	79.07	79.40	79.60	79.76	79.90	80.02
1985	0.44	13.63	35.06	42.08	46.63	51.24	55.74	62.21	67.39	71.27	72.46	73.68	74.65	75.68	76.70	77.85	78.25	78.71	79.06	79.36	79.62	79.91	79.99	80.19	80.61	80.86	81.06	81.23	81.38	81.52
1986	1.10	7.06	10.43	13.91	18.39	23.53	34.61	49.35	59.61	62.04	65.22	67.62	70.85	73.73	75.27	77.57	79.02	80.34	81.21	81.76	82.44	82.69	83.02	83.57	83.92	84.20	84.45	84.66	84.85	85.02
1987	0.55	1.84	3.83	6.86	10.27	18.14	33.86	46.86	50.14	54.69	58.21	63.51	68.67	71.01	73.95	77.70	80.59	82.29	83.34	84.38	84.88	85.43	86.23	86.69	87.05	87.37	87.66	87.91	88.13	88.32
1988	0.56	2.24	5.48	9.89	21.72	40.48	53.83	56.98	61.19	64.31	68.52	72.51	74.45	76.49	78.95	81.48	82.84	83.68	84.57	84.95	85.47	86.19	86.62	86.96	87.25	87.52	87.75	87.95	88.13	88.28
1989	0.58	2.77	6.96	20.84	42.13	56.44	59.55	63.63	66.53	70.48	74.14	75.84	77.63	79.72	81.65	83.25	84.04	84.86	85.17	85.59	86.24	86.64	86.93	87.20	87.43	87.64	87.82	87.98	88.12	88.24
1990	0.60	2.96	12.53	37.28	54.47	57.93	62.63	65.89	70.50	74.78	76.68	78.73	81.19	83.48	85.02	86.15	87.11	87.47	87.90	88.54	88.93	89.23	89.49	89.72	89.93	90.10	90.26	90.40	90.52	90.63
1991	0.57	7.01	31.26	50.83	54.61	59.94	63.71	69.17	74.16	76.25	78.65	81.52	84.18	85.86	86.95	88.20	88.57	89.01	89.64	90.02	90.30	90.55	90.78	90.97	91.14	91.29	91.42	91.53	91.64	91.73
1992	1.06	11.82	27.61	32.57	40.28	46.15	55.44	64.11	67.61	71.98	77.05	82.04	84.80	86.41	87.62	88.60	89.33	90.34	90.85	91.19	91.49	91.75	91.98	92.16	92.33	92.47	92.59	92.69	92.78	92.86
1993	2.39	10.63	15.38	23.08	29.71	40.16	51.04	55.95	62.38	70.30	79.10	83.27	85.61	87.20	88.33	89.97	91.21	91.70	92.02	92.29	92.52	92.71	92.89	93.04	93.17	93.29	93.40	93.49	93.58	93.65
1994	1.61	4.97	11.83	18.49	28.74	39.57	45.28	52.81	61.87	73.32	78.94	82.17	84.32	85.74	87.47	89.20	89.93	90.42	90.78	91.07	91.34	91.57	91.78	91.97	92.14	92.29	92.43	92.56	92.67	92.77
1995	2.16	11.82	19.94	34.83	46.74	51.73	58.78	66.49	74.41	78.94	81.70	83.44	84.55	85.73	87.29	87.99	88.45	88.85	89.18	89.47	89.72	89.94	90.12	90.28	90.43	90.55	90.66	90.76	90.84	90.92
1996	1.09	5.48	20.66	35.12	41.10	50.07	60.35	71.57	77.42	80.85	82.93	84.22	85.68	87.76	88.60	89.09	89.50	89.83	90.12	90.36	90.56	90.74	90.89	91.02	91.14	91.24	91.32	91.40	91.46	91.52
1997	1.50	16.03	33.72	40.09	50.38	60.84	71.60	77.44	80.93	83.06	84.36	85.86	87.96	88.84	89.38	89.80	90.16	90.46	90.71	90.92	91.10	91.26	91.39	91.51	91.60	91.69	91.76	91.83	91.89	91.94
1998	3.23	15.00	21.96	34.59	48.71	66.19	74.71	79.51	82.23	83.87	85.67	88.32	89.25	89.80	90.22	90.55	90.84	91.09	91.31	91.51	91.68	91.84	91.98	92.11	92.22	92.33	92.42	92.51	92.58	92.65
1999	1.56	5.34	16.39	33.07	56.63	68.25	74.92	78.56	80.68	83.00	86.38	87.61	88.35	88.90	89.35	89.72	90.05	90.35	90.61	90.85	91.06	91.25	91.42	91.58	91.72	91.85	91.97	92.08	92.18	92.27
2000	1.16	25.07	47.71	65.19	73.66	78.69	81.47	83.12	84.90	87.20	88.21	88.83	89.36	89.81	90.18	90.47	90.72	90.92	91.09	91.24	91.36	91.46	91.54	91.61	91.68	91.73	91.78	91.82	91.85	91.88
2001	7.66	28.19	57.55	69.84	76.46	79.93	81.84	84.03	87.02	88.06	88.66	89.14	89.55	89.91	90.24	90.52	90.76	90.97	91.16	91.33	91.48	91.61	91.73	91.84	91.93	92.02	92.10	92.17	92.23	92.29
2002	5.99	39.69	57.10	67.26	72.66	75.87	79.09	83.30	84.81	85.72	86.41	86.99	87.54	88.04	88.50	88.89	89.23	89.55	89.83	90.09	90.32	90.53	90.72	90.90	91.06	91.21	91.35	91.48	91.60	91.71
2003	9.90	26.08	42.03	51.27	56.90	61.51	67.24	69.77	71.66	73.09	74.43	75.70	76.91	78.02	79.04	79.92	80.73	81.46	82.10	82.68	83.22	83.71	84.17	84.59	84.98	85.34	85.68	85.99	86.29	86.56
2004	5.14	21.92	33.88	41.61	47.62	54.34	57.53	60.01	62.02	63.94	65.77	67.52	69.15	70.63	71.97	73.16	74.24	75.20	76.06	76.84	77.56	78.22	78.83	79.40	79.92	80.41	80.86	81.28	81.67	82.00
2005	4.22	13.48	21.87	30.64	41.16	45.63	48.86	51.41	53.84	56.19	58.46	60.63	62.65	64.46	66.07	67.46	68.71	69.83	70.83	71.74	72.56	73.30	73.98	74.60	75.16	75.68	76.15	76.58	76.98	77.33
2006	1.57	8.38	18.62	30.11	34.75	37.67	39.90	42.04	44.20	46.34	48.50	50.64	52.72	54.64	56.40	57.96	59.39	60.69	61.87	62.96	63.95	64.87	65.71	66.49	67.20	67.86	68.48	69.05	69.57	70.06
2007	1.52	12.73	26.22	31.62	34.97	37.22	39.23	41.29	43.36	45.40	47.44	49.53	51.53	53.39	55.08	56.59	57.96	59.22	60.36	61.40	62.36	63.24	64.04	64.79	65.47	66.10	66.69	67.23	67.74	68.21
2008	2.63	11.03	16.90	21.31	24.56	27.48	30.49	33.48	36.42	39.34	42.29	45.08	47.63	49.94	52.03	53.90	55.61	57.17	58.59	59.89	61.09	62.19	63.20	64.14	65.00	65.80	66.54	67.23	67.86	68.46
2009	2.58	7.86	13.63	18.71	23.54	27.96	32.27	36.58	40.64	44.32	47.63	50.62	53.33	55.79	58.03	60.00	61.82	63.48	65.01	66.40	67.69	68.87	69.96	70.97	71.90	72.77	73.57	74.32	75.01	75.66
2010	1.64	7.69	15.92	23.81	30.97	37.22	43.12	48.40	52.99	56.93	60.34	63.32	65.93	68.23	70.25	71.99	73.54													

Conditional Claim Rates			Fixed Rate 30 Year Mortgages										by Credit Subsidy Endorsement Cohort																										
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1979	0.02	0.34	0.74	0.72	0.83	0.80	0.83	0.84	0.99	1.23	1.10	0.96	0.81	0.71	0.60	0.57	0.54	0.39	0.33	0.25	0.19	0.20	0.17	0.13	0.12	0.12	0.10	0.04	0.06	0.04									
1980	0.03	0.67	1.18	1.56	1.49	1.62	1.64	2.02	2.48	2.14	1.70	1.44	1.30	1.24	1.20	1.11	0.71	0.66	0.59	0.40	0.39	0.34	0.23	0.18	0.23	0.14	0.14	0.06	0.05	0.08									
1981	0.10	1.38	3.20	3.24	3.59	3.57	4.67	5.36	3.97	3.10	2.55	2.12	2.04	1.94	1.85	1.34	1.23	1.13	0.87	0.79	0.64	0.55	0.49	0.34	0.36	0.31	0.24	0.12	0.10	0.09									
1982	0.15	2.26	4.61	5.91	6.94	9.06	10.10	7.21	4.86	3.81	3.56	2.82	3.02	2.95	1.86	2.06	2.01	1.40	1.24	0.97	1.26	1.15	1.07	1.06	0.49	0.30	0.05	0.12	0.11	0.09									
1983	0.03	0.61	1.78	2.47	3.81	5.61	4.95	3.61	3.03	2.81	2.54	2.68	2.48	1.80	1.81	1.76	1.41	1.16	1.07	0.71	0.79	0.77	0.53	0.48	0.36	0.36	0.14	0.12	0.10	0.09									
1984	0.07	1.23	3.02	4.98	7.23	6.41	4.58	3.59	3.23	2.84	2.86	2.54	2.04	1.90	1.49	1.35	1.19	0.89	0.65	0.54	0.40	0.25	0.29	0.23	0.19	0.18	0.16	0.13	0.11	0.09									
1985	0.05	1.23	3.89	6.68	6.01	4.51	3.81	3.40	3.28	3.09	2.92	2.14	2.08	1.82	1.27	1.40	0.87	0.68	0.52	0.39	0.31	0.26	0.17	0.23	0.21	0.19	0.16	0.13	0.11	0.09									
1986	0.04	0.80	2.39	2.72	2.46	2.20	1.98	1.87	2.01	2.04	1.63	1.54	1.35	1.21	0.96	0.76	0.59	0.50	0.47	0.32	0.24	0.25	0.20	0.16	0.14	0.11	0.09	0.08	0.06	0.05									
1987	0.04	0.57	1.29	1.45	1.46	1.42	1.33	1.46	1.46	1.24	1.24	1.11	1.01	0.92	0.55	0.49	0.49	0.49	0.34	0.24	0.20	0.17	0.15	0.12	0.09	0.07	0.06	0.05	0.04	0.03									
1988	0.04	0.51	1.18	1.51	1.72	1.72	2.04	2.13	1.73	1.71	1.55	1.46	1.24	0.82	0.74	0.69	0.67	0.52	0.40	0.28	0.29	0.19	0.17	0.13	0.11	0.09	0.07	0.06	0.05	0.04									
1989	0.03	0.48	1.37	1.85	2.11	2.61	2.82	2.38	2.24	1.92	1.72	1.53	1.02	0.89	0.83	0.78	0.66	0.53	0.41	0.37	0.24	0.20	0.16	0.13	0.10	0.09	0.07	0.06	0.05	0.04									
1990	0.02	0.41	1.22	1.72	2.29	2.42	1.99	2.04	1.78	1.61	1.42	0.97	0.79	0.83	0.79	0.58	0.56	0.52	0.46	0.27	0.23	0.18	0.14	0.11	0.09	0.08	0.07	0.06	0.05	0.04									
1991	0.02	0.45	1.31	2.04	2.45	2.04	2.06	1.84	1.64	1.52	1.00	0.88	0.81	0.84	0.78	0.59	0.45	0.52	0.33	0.28	0.21	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04									
1992	0.02	0.36	1.00	1.47	1.40	1.63	1.53	1.44	1.32	0.96	0.83	0.74	0.77	0.69	0.58	0.47	0.54	0.30	0.26	0.19	0.13	0.10	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03									
1993	0.01	0.26	0.71	0.97	1.24	1.29	1.23	1.13	0.79	0.70	0.69	0.80	0.70	0.57	0.42	0.41	0.26	0.25	0.16	0.11	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.02									
1994	0.01	0.26	0.71	1.16	1.38	1.37	1.18	0.82	0.72	0.72	0.82	0.72	0.58	0.51	0.46	0.28	0.26	0.17	0.12	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01									
1995	0.02	0.37	1.29	2.04	2.23	2.18	1.65	1.42	1.60	1.61	1.37	1.15	1.04	0.91	0.45	0.40	0.28	0.20	0.16	0.13	0.11	0.09	0.08	0.07	0.05	0.05	0.04	0.03	0.03	0.02									
1996	0.01	0.38	1.34	1.97	2.05	1.63	1.43	1.67	1.82	1.60	1.28	1.12	1.06	0.77	0.71	0.49	0.34	0.27	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03									
1997	0.02	0.50	1.50	2.08	1.81	1.79	2.11	2.22	2.01	1.62	1.39	1.38	0.96	0.85	0.60	0.41	0.32	0.26	0.22	0.18	0.15	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03									
1998	0.01	0.41	1.25	1.40	1.53	1.85	2.10	1.95	1.70	1.40	1.34	0.93	0.87	0.57	0.39	0.30	0.25	0.21	0.17	0.15	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02									
1999	0.01	0.44	1.06	1.51	2.16	2.47	2.30	1.85	1.56	1.54	1.07	1.00	0.65	0.44	0.35	0.28	0.23	0.20	0.16	0.14	0.11	0.09	0.08	0.07	0.05	0.05	0.04	0.03	0.03	0.02									
2000	0.03	0.61	2.15	4.05	4.79	4.19	3.41	2.86	2.91	2.62	2.29	1.62	1.05	0.75	0.59	0.48	0.40	0.33	0.27	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04									
2001	0.02	0.73	2.50	4.22	4.22	3.53	2.98	2.78	2.30	2.28	1.50	0.95	0.67	0.50	0.40	0.33	0.27	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03									
2002	0.02	0.74	2.60	3.32	3.04	2.67	2.51	2.34	2.32	1.59	1.08	0.77	0.57	0.43	0.35	0.29	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02									
2003	0.03	0.85	1.94	2.16	2.01	2.21	2.45	2.12	1.57	1.22	0.89	0.66	0.48	0.38	0.32	0.26	0.22	0.18	0.15	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02									
2004	0.07	0.87	1.68	2.08	2.60	3.23	2.66	1.93	1.50	1.12	0.82	0.60	0.45	0.37	0.30	0.25	0.21	0.17	0.15	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02									
2005	0.05	0.69	1.85	3.12	6.00	5.16	3.68	2.71	1.99	1.50	1.08	0.77	0.57	0.45	0.37	0.31	0.26	0.22	0.18	0.15	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.02									
2006	0.02	0.69	2.53	6.18	6.18	4.68	3.46	2.31	1.68	1.28	0.92	0.65	0.46	0.36	0.29	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02									
2007	0.02	0.91	5.54	7.22	6.04	5.10	3.71	2.41	1.79	1.37	1.02	0.69	0.49	0.38	0.31	0.26	0.22	0.18	0.15	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.02									
2008	0.03	1.51	4.27	4.75	4.42	3.29	2.16	1.63	1.28	0.99	0.68	0.50	0.40	0.33	0.28	0.23	0.19	0.16	0.14	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02									
2009	0.06	0.85	2.07	2.11	1.80	1.51	1.20	0.88	0.69	0.58	0.49	0.41	0.34	0.29	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.02									
2010	0.05	0.67	1.75	1.99	1.86	1.57	1.16	0.93	0.80	0.71	0.60	0.50	0.42	0.35	0.29	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02									
2011	0.03	0.57	1.54	1.86	1.73	1.37	1.11	0.95	0.85	0.76	0.64	0.53	0.45	0.37	0.31	0.26	0.22	0.18	0.15	0.13	0.10	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.02									
2012	0.03	0.51	1.44	1.74	1.55	1.31	1.09	0.96	0.86	0.77	0.65	0.54	0.45	0.38	0.31	0.26	0.22	0.18	0.15	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02									
2013	0.03	0.51	1.46	1.75	1.62	1.32	1.11	0.98	0.88	0.78	0.66	0.55	0.46	0.38	0.32	0.27	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.02									
2014	0.03	0.52	1.45	1.77	1.56	1.32	1.10	0.97	0.88	0.78	0.66	0.55	0.46	0.38	0.32	0.27	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.02									
2015	0.03	0.51	1.48	1.74	1.60	1.33	1.12	0.98	0.88	0.79	0.67	0.55	0.46	0.39	0.32	0.27	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.04	0.04	0.03	0.03	0.02									

Conditional Prepayment Rates				Fixed Rate 30 Year Mortgages										by Credit Subsidy Endorsement Cohort																									
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1979	0.34	0.70	0.66	0.49	1.35	1.55	1.95	5.10	8.59	6.29	5.97	6.38	6.32	11.05	17.69	19.32	9.23	11.96	11.51	15.11	18.25	12.03	12.69	16.09	19.80	22.40	17.57	17.46	19.03	26.96									
1980	0.36	0.76	0.32	1.71	2.00	2.73	10.88	16.55	8.37	6.90	7.87	9.03	16.99	20.63	21.93	10.20	12.75	12.00	15.51	17.85	13.67	12.49	15.75	18.81	19.00	19.44	15.83	15.78	18.47	14.68									
1981	0.26	0.47	8.65	5.49	7.29	23.15	25.99	12.17	9.18	9.11	9.95	15.49	18.11	19.93	10.07	12.23	11.94	14.80	19.76	12.71	14.75	13.39	14.93	15.03	15.55	18.02	12.84	14.00	14.50	10.40									
1982	0.40	20.06	10.56	14.33	33.15	32.45	16.79	13.17	11.12	11.17	14.15	16.25	18.19	10.40	11.75	12.73	15.82	22.75	13.36	13.17	17.10	12.32	15.21	12.86	16.54	18.01	11.34	14.69	10.50	9.37									
1983	0.48	1.04	2.38	18.74	28.65	12.19	9.59	11.54	14.15	23.63	25.07	27.61	12.40	15.09	14.03	17.19	22.82	13.36	12.60	16.77	19.47	16.67	14.75	13.07	11.90	15.95	15.14	10.83	9.67	9.45									
1984	0.28	1.58	19.85	26.98	12.38	10.10	11.11	11.92	18.43	20.39	22.63	9.98	11.49	10.46	12.58	13.96	8.29	7.73	8.93	9.70	11.52	6.55	8.64	3.99	7.94	15.27	10.92	9.77	9.54	9.32									
1985	0.45	13.44	25.44	11.85	9.37	11.12	12.71	21.44	22.88	23.57	9.46	11.16	9.80	11.81	12.65	7.17	6.87	7.86	8.07	7.73	7.45	8.90	2.89	7.00	15.65	11.22	10.05	9.82	9.59	9.37									
1986	1.11	6.04	3.55	3.89	5.42	6.73	16.22	26.87	26.14	8.24	12.17	10.49	16.43	17.85	9.81	11.37	15.52	16.83	13.52	10.02	13.88	5.73	8.23	15.15	11.14	10.36	10.15	9.93	9.69	9.44									
1987	0.51	1.13	1.89	3.04	3.62	9.14	20.76	21.87	6.96	10.73	9.32	16.01	18.70	9.94	12.82	18.14	22.54	17.36	13.09	15.00	8.44	10.22	16.52	11.67	10.36	10.39	10.30	10.06	9.83	9.61									
1988	0.41	1.39	3.03	4.48	13.71	26.21	25.64	8.00	12.08	10.17	15.87	18.21	10.43	12.07	16.30	18.71	15.59	11.42	13.99	6.93	10.29	16.16	11.65	10.42	10.30	10.15	9.92	9.69	9.47	9.25									
1989	0.35	1.83	4.11	15.28	28.66	27.61	8.35	12.45	10.35	16.26	18.41	10.48	12.43	16.95	18.69	16.28	12.28	14.40	6.40	9.39	16.36	11.88	10.23	10.22	10.03	9.80	9.58	9.36	9.15	8.93									
1990	0.39	1.83	9.40	29.02	29.06	8.30	12.73	10.34	16.90	19.35	10.62	13.12	18.49	21.18	17.44	13.14	16.88	7.34	10.00	16.84	12.11	10.71	10.72	10.51	10.27	10.06	9.84	9.61	9.39	9.16									
1991	0.44	5.66	26.71	30.07	8.09	12.87	10.52	17.84	20.35	10.52	13.74	19.81	23.38	19.16	14.28	16.99	7.70	10.18	17.04	12.16	10.72	10.74	10.56	10.31	10.07	9.82	9.58	9.35	9.13	8.91									
1992	0.73	10.01	18.96	6.58	11.15	9.74	18.36	22.15	10.84	15.47	22.94	30.37	23.91	17.63	14.57	10.24	13.88	24.06	15.70	12.96	13.06	12.92	12.59	12.28	11.97	11.67	11.39	11.10	10.82	10.54									
1993	1.36	5.84	4.46	7.92	8.00	14.25	18.56	10.33	15.26	23.59	36.47	27.36	20.64	15.66	11.51	15.27	27.18	13.73	10.52	9.78	9.05	8.78	8.52	8.26	8.02	7.80	7.57	7.35	7.14	6.93									
1994	0.64	2.20	5.90	6.38	11.58	14.95	9.45	13.90	21.05	35.86	27.28	21.33	15.99	11.72	14.41	24.56	12.42	8.91	7.84	7.05	6.83	6.61	6.40	6.20	6.01	5.83	5.67	5.50	5.33	5.18									
1995	2.07	9.51	7.40	16.97	19.12	9.58	15.15	22.17	31.42	26.03	21.20	16.54	11.93	14.83	25.91	15.40	12.41	12.05	11.68	11.37	11.05	10.75	10.46	10.17	9.89	9.64	9.38	9.12	8.88	8.64									
1996	0.75	3.01	11.07	15.74	8.57	14.67	22.71	34.23	27.43	22.56	17.25	12.71	16.90	31.17	17.45	13.52	12.83	12.23	11.90	11.57	11.26	10.95	10.66	10.37	10.08	9.81	9.54	9.28	9.02	8.78									
1997	1.03	10.70	17.10	7.83	14.81	22.82	33.17	26.98	22.31	16.98	12.08	16.93	31.05	18.11	14.00	13.62	13.14	12.80	12.46	12.14	11.82	11.51	11.21	10.91	10.62	10.34	10.06	9.79	9.52	9.27									
1998	1.62	6.93	5.99	12.46	20.54	36.14	28.89	23.66	17.62	12.74	16.54	31.62	15.67	10.96	9.42	8.59	8.38	8.17	7.95	7.74	7.55	7.35	7.16	6.97	6.79	6.62	6.45	6.28	6.12	5.97									
1999	0.92	3.09	10.52	19.20	35.18	28.56	24.20	17.73	12.84	16.08	29.15	14.67	10.27	8.70	7.84	7.64	7.43	7.21	7.00	6.79	6.60	6.40	6.22	6.04	5.87	5.71	5.55	5.40	5.25	5.10									
2000	1.02	23.60	30.86	35.68	28.02	23.93	17.61	12.61	17.24	29.31	18.45	14.53	14.91	14.98	14.80	14.46	14.07	13.67	13.25	12.83	12.42	12.01	11.62	11.24	10.87	10.51	10.16	9.81	9.48	9.16									
2001	7.54	20.18	39.92	29.83	24.36	17.89	12.43	17.28	30.35	15.39	10.78	9.69	9.36	9.48	9.33	9.09	8.84	8.59	8.34	8.10	7.84	7.61	7.39	7.18	6.98	6.79	6.60	6.42	6.24	6.07									
2002	4.20	33.82	28.97	24.02	16.94	12.28	15.56	26.20	12.46	8.43	7.02	6.60	6.82	6.89	6.78	6.64	6.49	6.34	6.18	6.03	5.88	5.73	5.59	5.45	5.32	5.19	5.06	4.93	4.81	4.69									
2003	6.99	15.84	20.42	15.00	11.03	10.54	15.42	8.40	6.90	5.66	5.71	5.92	6.08	6.02	5.89	5.76	5.63	5.50	5.36	5.23	5.10	4.98	4.86	4.74	4.63	4.51	4.40	4.30	4.19	4.09									
2004	3.99	16.21	13.67	10.33	9.69	12.94	7.46	6.29	5.40	5.55	5.79	6.00	6.07	5.97	5.84	5.71	5.58	5.44	5.31	5.18	5.05	4.93	4.81	4.69	4.58	4.46	4.35	4.25	4.14	3.71									
2005	3.26	7.89	8.19	10.21	16.24	8.69	7.34	6.30	6.59	7.02	7.48	7.93	8.10	8.04	7.89	7.72	7.54	7.36	7.19	7.01	6.85	6.68	6.53	6.37	6.22	6.07	5.92	5.78	5.64	5.22									
2006	1.25	6.45	11.04	15.02	7.60	5.43	4.53	4.69	5.09	5.42	5.87	6.30	6.60	6.59	6.49	6.34	6.18	6.03	5.88	5.73	5.59	5.45	5.31	5.18	5.05	4.92	4.80	4.68	4.56	4.45									
2007	1.35	11.00	15.95	8.11	5.90	4.44	4.30	4.77	5.16	5.50	5.89	6.50	6.76	6.76	6.62	6.46	6.31	6.15	6.00	5.85	5.71	5.56	5.43	5.29	5.16	5.03	4.91	4.78	4.66	4.55									
2008	2.55	8.62	6.85	5.81	4.74	4.59	5.07	5.44	5.78	6.18	6.74	6.89	6.80	6.64	6.47	6.32	6.16	6.01	5.86	5.72	5.57	5.43	5.30	5.17	5.04	4.91	4.79	4.67	4.55	4.44									
2009	2.50	5.34	6.27	5.99	6.16	6.10	6.46	7.02	7.17	7.06	6.89	6.72	6.56	6.40	6.24	6.08	5.93	5.79	5.64	5.50	5.36	5.23	5.10	4.97	4.85	4.73	4.61	4.49	4.38	4.27									
2010	1.57	6.00	8.87	9.57	9.83	9.67	10.30	10.39	10.19	9.82	9.51	9.23	8.96	8.70	8.45	8.21	7.97	7.74	7.52	7.31	7.10	6.90	6.70	6.52	6.34	6.16	5.99	5.82	5.67	5.51									
2011	1.84	7.50	11.22	12.08	12.36	12.31	12.22	11.91	11.40	10.91	10.52	10.17	9.84	9.51	9.21	8.91	8.63	8.36	8.10	7.86	7.62	7.39	7.17	6.95	6.75	6.55	6.36	6.18	6.00	5.83									
2012	1.88	7.99	11.65	12.59	13.07	12.46	12.25	11.78	11.26	10.78	10.40	10.06	9.73	9.41	9.11	8.82	8.54	8.28	8.02	7.78	7.54	7.31	7.09	6.88	6.68	6.48	6.30	6.12	5.94	5.77									
2013	1.93	7.92	11.51	12.53	12.71	12.37	12.10	11.64	11.13	10.65	10.28	9.94	9.61	9.30	9.00	8.71	8.44	8.18	7.92	7.68	7.45	7.22	7.01	6.80	6.60	6.40	6.22	6.04	5.87	5.70									
2014	1.89	7.83	11.46	12.27	12.82	12.21	11.93	11.47	10.96	10.48	10.11	9.77	9.44	9.14	8.84	8.56	8.28	8.02	7.77	7.54	7.31	7.09	6.87	6.67	6.47	6.28	6.10	5.92	5.75	5.59									
2015	1.90	7.86	11.31	12.44	12.66	12.17	11.91	11.46	10.96	10.49	10.12	9.78	9.46	9.16	8.86	8.58	8.31	8.05	7.80	7.56	7.33	7.11	6.90	6.69	6.50	6.30	6.12	5.94	5.77	5.61									

Cumulative Claim Rates			Fixed Rate 30 Year Mortgages																														by Credit Subsidy Endorsement Cohort																													
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																																
1979	0.02	0.37	1.10	1.80	2.60	3.35	4.12	4.86	5.69	6.62	7.40	8.02	8.52	8.92	9.21	9.44	9.61	9.73	9.81	9.87	9.91	9.94	9.96	9.98	9.99	10.00	10.00	10.01	10.01	10.01																																
1980	0.03	0.70	1.85	3.36	4.76	6.22	7.64	9.17	10.69	11.87	12.71	13.36	13.89	14.30	14.61	14.82	14.95	15.05	15.13	15.17	15.21	15.23	15.25	15.26	15.27	15.28	15.28	15.28	15.28	15.28																																
1981	0.10	1.48	4.61	7.41	10.23	12.74	15.14	17.05	18.21	19.00	19.57	19.99	20.32	20.57	20.75	20.87	20.97	21.04	21.09	21.13	21.15	21.17	21.18	21.19	21.20	21.20	21.21	21.21	21.21	21.21																																
1982	0.15	2.40	5.96	9.83	13.46	16.30	18.15	19.11	19.63	19.97	20.24	20.42	20.57	20.69	20.76	20.82	20.87	20.90	20.92	20.93	20.95	20.96	20.96	20.97	20.98	20.98	20.98	20.98	20.98	20.98																																
1983	0.03	0.63	2.37	4.69	7.50	10.30	12.33	13.60	14.50	15.19	15.65	16.00	16.23	16.37	16.48	16.58	16.64	16.68	16.71	16.73	16.74	16.76	16.76	16.77	16.77	16.78	16.78	16.78	16.78	16.78																																
1984	0.07	1.29	4.21	7.93	11.61	14.23	15.79	16.83	17.61	18.15	18.57	18.85	19.04	19.20	19.30	19.39	19.45	19.49	19.52	19.54	19.56	19.56	19.57	19.58	19.58	19.59	19.59	19.59	19.59	19.60																																
1985	0.05	1.28	4.58	8.59	11.53	13.39	14.72	15.71	16.43	16.93	17.28	17.50	17.69	17.83	17.92	18.00	18.05	18.08	18.11	18.12	18.13	18.14	18.15	18.16	18.16	18.17	18.17	18.17	18.17	18.18																																
1986	0.04	0.84	3.04	5.39	7.38	9.02	10.36	11.40	12.19	12.77	13.19	13.53	13.79	13.98	14.10	14.19	14.25	14.29	14.33	14.35	14.36	14.37	14.38	14.38	14.39	14.39	14.40	14.40	14.40	14.40																																
1987	0.04	0.61	1.88	3.25	4.57	5.79	6.81	7.68	8.34	8.86	9.32	9.69	9.97	10.17	10.28	10.36	10.43	10.48	10.51	10.53	10.54	10.55	10.56	10.57	10.57	10.57	10.57	10.58	10.58																																	
1988	0.04	0.55	1.70	3.11	4.62	5.90	7.00	7.82	8.43	8.94	9.35	9.67	9.89	10.02	10.12	10.19	10.25	10.29	10.32	10.34	10.35	10.36	10.37	10.37	10.37	10.38	10.38	10.38	10.38	10.38																																
1989	0.03	0.51	1.85	3.55	5.16	6.54	7.58	8.36	8.98	9.45	9.79	10.04	10.18	10.29	10.37	10.43	10.48	10.51	10.53	10.55	10.56	10.56	10.57	10.57	10.57	10.58	10.58	10.58	10.58	10.58																																
1990	0.02	0.43	1.62	3.11	4.49	5.49	6.23	6.87	7.36	7.72	7.97	8.12	8.23	8.32	8.39	8.43	8.46	8.48	8.51	8.52	8.52	8.53	8.53	8.54	8.54	8.54	8.54	8.54	8.54	8.54																																
1991	0.02	0.47	1.70	3.07	4.18	5.02	5.73	6.29	6.69	6.98	7.15	7.28	7.37	7.44	7.50	7.53	7.55	7.57	7.59	7.60	7.60	7.61	7.61	7.61	7.61	7.61	7.62	7.62	7.62	7.62																																
1992	0.02	0.38	1.27	2.32	3.24	4.17	4.95	5.53	5.94	6.20	6.39	6.52	6.61	6.68	6.72	6.75	6.78	6.79	6.80	6.81	6.81	6.81	6.81	6.82	6.82	6.82	6.82	6.82	6.82	6.82																																
1993	0.01	0.27	0.93	1.78	2.78	3.72	4.47	5.03	5.37	5.63	5.82	5.96	6.05	6.10	6.14	6.17	6.18	6.19	6.20	6.20	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21																																
1994	0.01	0.26	0.95	2.00	3.15	4.15	4.87	5.32	5.65	5.91	6.10	6.22	6.30	6.35	6.39	6.42	6.43	6.44	6.45	6.45	6.45	6.46	6.46	6.46	6.46	6.46	6.46	6.46	6.46	6.46																																
1995	0.02	0.38	1.53	3.17	4.62	5.74	6.49	7.02	7.48	7.79	7.98	8.11	8.20	8.27	8.30	8.32	8.33	8.34	8.34	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.36	8.36																																
1996	0.01	0.39	1.68	3.33	4.75	5.76	6.50	7.15	7.61	7.89	8.07	8.19	8.29	8.35	8.39	8.41	8.42	8.43	8.44	8.44	8.44	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45																																
1997	0.02	0.51	1.83	3.32	4.49	5.45	6.31	6.89	7.26	7.49	7.65	7.78	7.86	7.91	7.94	7.95	7.96	7.97	7.97	7.98	7.98	7.98	7.99	7.99	7.99	7.99	7.99	7.99	7.99	7.99																																
1998	0.01	0.41	1.55	2.74	3.85	4.90	5.64	6.11	6.42	6.62	6.79	6.89	6.95	6.98	7.00	7.01	7.03	7.03	7.04	7.04	7.05	7.05	7.05	7.05	7.06	7.06	7.06	7.06	7.06																																	
1999	0.01	0.45	1.47	2.74	4.19	5.22	5.89	6.28	6.55	6.78	6.91	6.99	7.04	7.06	7.08	7.10	7.11	7.12	7.13	7.13	7.14	7.14	7.14	7.14	7.14	7.15	7.15	7.15	7.15	7.15																																
2000	0.03	0.63	2.25	4.28	5.73	6.58	7.08	7.41	7.70	7.90	8.02	8.09	8.13	8.15	8.16	8.17	8.18	8.19	8.19	8.19	8.19	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20																																
2001	0.02	0.70	2.52	4.30	5.47	6.17	6.63	7.00	7.24	7.40	7.49	7.54	7.57	7.59	7.61	7.62	7.63	7.63	7.64	7.64	7.64	7.65	7.65	7.65	7.65	7.65	7.65	7.65	7.65	7.65																																
2002	0.02	0.73	2.36	3.79	4.73	5.40	5.93	6.34	6.63	6.79	6.90	6.96	7.01	7.04	7.07	7.09	7.10	7.11	7.12	7.13	7.13	7.14	7.14	7.14	7.15	7.15	7.15	7.15	7.15	7.15																																
2003	0.03	0.82	2.32	3.61	4.62	5.57	6.50	7.16	7.59	7.90	8.11	8.26	8.36	8.43	8.49	8.53	8.57	8.60	8.62	8.63	8.65	8.66	8.67	8.67	8.68	8.68	8.69	8.69	8.69	8.69																																
2004	0.07	0.90	2.24	3.64	5.17	6.84	8.00	8.75	9.28	9.66	9.91	10.08	10.21	10.30	10.37	10.43	10.47	10.50	10.53	10.55	10.57	10.58	10.59	10.60	10.61	10.61	10.62	10.62	10.62	10.63																																
2005	0.05	0.71	2.35	4.83	8.97	11.74	13.44	14.55	15.29	15.80	16.14	16.36	16.51	16.62	16.70	16.76	16.81	16.85	16.87	16.90	16.91	16.93	16.94	16.95	16.95	16.96	16.96	16.96	16.97	16.97																																
2006	0.02	0.71	3.03	7.92	11.78	14.30	15.98	17.01	17.70	18.19	18.53	18.74	18.89	18.99	19.07	19.13	19.18	19.21	19.24	19.27	19.28	19.30	19.31	19.32	19.33	19.33	19.34	19.34	19.34	19.34																																
2007	0.02	0.93	5.73	10.66	14.15	16.74	18.45	19.47	20.17	20.67	21.02	21.24	21.39	21.49	21.57	21.63	21.68	21.72	21.75	21.77	21.79	21.80	21.81	21.82	21.83	21.84	21.84	21.84	21.85	21.85																																
2008	0.03	1.50	5.24	8.93	12.01	14.09	15.35	16.23	16.87	17.33	17.62	17.82	17.97	18.08	18.17	18.24	18.30	18.34	18.37	18.40	18.42	18.43	18.45	18.46	18.47	18.47	18.48	18.48	18.48	18.49																																
2009	0.06	0.88	2.77	4.55	5.93	7.00	7.79	8.32	8.70	9.00	9.23	9.41	9.55	9.66	9.74	9.81	9.86	9.90	9.93	9.96	9.98	10.00	10.01	10.02	10.03	10.03	10.04	10.04	10.04	10.05																																
2010	0.05	0.71	2.32	3.95	5.30	6.31	6.97	7.44	7.80	8.08	8.29	8.45	8.57	8.67	8.73	8.79	8.83	8.86	8.88	8.90	8.91	8.93	8.93	8.94	8.95	8.95	8.95	8.96	8.96	8.96																																
2011	0.03	0.59	1.98	3.45	4.62	5.41	5.97	6.39	6.71	6.96	7.15	7.29	7.39	7.47	7.53	7.57	7.61	7.63	7.65	7.67	7.68	7.69	7.69	7.70	7.70	7.71	7.71	7.71	7.71	7.71																																
2012	0.03	0.53	1.82	3.18	4.22	4.97	5.50	5.91	6.23	6.48	6.67	6.81	6.92	6.99	7.05	7.10	7.13	7.16	7.17	7.19	7.20	7.21	7.22	7.22	7.23	7.23	7.23	7.23	7.24	7.24																																
2013	0.03	0.53	1.84	3.21	4.30	5.05	5.60	6.02	6.35	6.61	6.80	6.95	7.05	7.13	7.19	7.24	7.28	7.30	7.32	7.34	7.35	7.36	7.37	7.37	7.38	7.38	7.38	7.39	7.39	7.39																																
2014	0.03	0.54	1.84	3.23	4.28	5.03	5.58	6.01	6.34	6.60	6.80	6.94	7.05	7.13	7.20	7.24	7.28	7.31	7.33	7.34	7.36	7.37	7.37	7.38	7.38	7.39	7.39	7.39	7.39	7.39																																
2015	0.03	0.53	1.86	3.22	4.30	5.06	5.62	6.05	6.38	6.65	6.84	6.99	7.10	7.18	7.25	7.29	7.33	7.36	7.38	7.39	7.41	7.42	7.42	7.43	7.43	7.44	7.44	7.44	7.44	7.44																																

Cumulative Prepayment Rates			Fixed Rate 30 Year Mortgages										by Credit Subsidy Endorsement Cohort																											
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30										
1979	0.34	1.03	1.68	2.15	3.45	4.91	6.70	11.25	18.46	23.22	27.41	31.57	35.39	41.59	50.35	58.16	61.15	64.65	67.60	71.01	74.50	76.38	78.11	80.03	82.01	83.80	84.89	85.78	86.58	87.50										
1980	0.36	1.12	1.44	3.09	4.96	7.43	16.82	29.33	34.48	38.26	42.18	46.26	53.12	59.92	65.58	67.60	69.84	71.67	73.73	75.72	76.96	77.94	79.02	80.09	80.98	81.71	82.18	82.58	82.98	83.23										
1981	0.26	0.73	9.19	13.92	19.65	35.89	49.24	53.57	56.27	58.60	60.83	63.86	66.79	69.36	70.37	71.46	72.37	73.36	74.46	75.03	75.60	76.03	76.45	76.80	77.12	77.42	77.60	77.76	77.91	78.00										
1982	0.40	20.35	28.51	37.90	55.23	65.39	68.46	70.22	71.41	72.41	73.49	74.51	75.43	75.85	76.25	76.63	77.04	77.51	77.73	77.90	78.10	78.22	78.35	78.43	78.53	78.62	78.67	78.72	78.75	78.78										
1983	0.48	1.52	3.85	21.42	42.59	48.67	52.61	56.65	60.86	66.69	71.23	74.85	75.99	77.16	78.07	79.01	80.01	80.46	80.82	81.23	81.63	81.90	82.10	82.25	82.37	82.50	82.61	82.68	82.73	82.78										
1984	0.28	1.85	21.07	41.23	47.53	51.65	55.44	58.87	63.35	67.23	70.54	71.63	72.72	73.58	74.49	75.36	75.79	76.16	76.55	76.93	77.34	77.54	77.79	77.90	78.10	78.45	78.66	78.84	78.98	79.12										
1985	0.45	13.82	35.42	42.53	47.11	51.71	56.15	62.39	67.40	71.21	72.33	73.49	74.38	75.31	76.18	76.60	76.97	77.37	77.73	78.06	78.34	78.65	78.75	78.96	79.41	79.69	79.90	80.09	80.26	80.41										
1986	1.11	7.08	10.35	13.72	18.10	23.12	34.12	49.04	59.38	61.72	64.83	67.13	70.31	73.15	74.41	75.72	77.28	78.71	79.65	80.26	81.01	81.27	81.63	82.23	82.61	82.92	83.19	83.43	83.64	83.83										
1987	0.51	1.63	3.48	6.36	9.63	17.47	33.40	46.47	49.67	54.17	57.62	62.91	68.03	70.22	72.73	75.82	78.93	80.78	81.92	83.06	83.60	84.20	85.06	85.58	85.97	86.33	86.65	86.93	87.18	87.39										
1988	0.41	1.80	4.76	8.95	21.00	40.49	54.24	57.34	61.55	64.60	68.80	72.78	74.61	76.48	78.68	80.78	82.19	83.05	83.98	84.38	84.92	85.68	86.14	86.51	86.83	87.11	87.36	87.58	87.77	87.94										
1989	0.35	2.17	6.16	20.22	42.06	56.64	59.71	63.78	66.67	70.62	74.29	75.96	77.70	79.75	81.62	82.92	83.74	84.57	84.88	85.31	85.99	86.40	86.71	86.99	87.24	87.45	87.64	87.81	87.95	88.08										
1990	0.39	2.22	11.37	36.63	54.14	57.58	62.28	65.54	70.20	74.54	76.43	78.47	80.95	83.24	84.72	85.62	86.63	86.99	87.44	88.12	88.53	88.85	89.13	89.37	89.59	89.78	89.94	90.09	90.22	90.33										
1991	0.44	6.07	31.03	51.26	54.96	60.22	63.87	69.29	74.26	76.27	78.57	81.40	84.05	85.69	86.67	87.66	88.03	88.48	89.15	89.55	89.86	90.13	90.37	90.58	90.76	90.92	91.06	91.18	91.29	91.39										
1992	0.73	10.67	27.53	32.22	39.52	45.09	54.41	63.41	66.78	71.00	76.23	81.51	84.37	85.96	87.03	87.67	88.45	89.60	90.16	90.56	90.90	91.20	91.45	91.66	91.84	92.00	92.13	92.25	92.35	92.44										
1993	1.36	7.12	11.25	18.20	24.60	34.95	46.34	51.42	58.06	66.69	76.78	81.54	84.12	85.66	86.61	87.72	89.38	89.99	90.39	90.72	91.00	91.25	91.46	91.66	91.83	91.98	92.12	92.24	92.35	92.45										
1994	0.64	2.82	8.54	14.32	24.01	34.90	40.66	48.23	58.01	71.04	77.33	80.86	82.93	84.19	85.55	87.53	88.28	88.75	89.13	89.44	89.72	89.98	90.20	90.41	90.60	90.77	90.93	91.07	91.20	91.32										
1995	2.07	11.38	17.91	31.58	44.06	48.97	55.83	64.19	73.23	78.25	81.21	83.00	84.06	85.21	86.90	87.64	88.14	88.56	88.93	89.24	89.50	89.74	89.94	90.11	90.26	90.40	90.51	90.62	90.71	90.79										
1996	0.75	3.75	14.36	27.58	33.50	42.55	54.29	67.72	74.61	78.62	80.95	82.34	83.94	86.37	87.29	87.87	88.35	88.74	89.08	89.37	89.61	89.83	90.01	90.17	90.31	90.43	90.54	90.63	90.71	90.79										
1997	1.03	11.62	26.64	32.24	41.79	54.04	67.48	74.55	78.69	81.08	82.46	84.13	86.64	87.64	88.26	88.78	89.21	89.57	89.88	90.14	90.36	90.55	90.72	90.86	90.98	91.09	91.18	91.26	91.33	91.40										
1998	1.62	8.44	13.90	24.43	39.39	59.90	70.07	75.82	79.00	80.86	82.93	86.18	87.26	87.90	88.38	88.78	89.13	89.44	89.72	89.97	90.20	90.40	90.58	90.75	90.90	91.03	91.16	91.27	91.37	91.47										
1999	0.92	3.98	14.03	30.25	53.82	65.81	72.82	76.60	78.80	81.15	84.67	85.91	86.64	87.19	87.64	88.04	88.40	88.73	89.02	89.28	89.52	89.73	89.92	90.10	90.26	90.41	90.55	90.67	90.79	90.89										
2000	1.02	24.38	47.52	65.44	73.93	78.80	81.37	82.83	84.51	86.79	87.77	88.38	88.91	89.35	89.72	90.03	90.28	90.49	90.67	90.81	90.94	91.04	91.13	91.21	91.27	91.33	91.37	91.42	91.45	91.48										
2001	7.54	26.20	55.38	67.94	74.70	78.25	80.18	82.46	85.66	86.75	87.38	87.88	88.31	88.70	89.04	89.35	89.62	89.85	90.06	90.25	90.41	90.56	90.69	90.81	90.92	91.02	91.11	91.19	91.26	91.32										
2002	4.20	36.59	54.75	65.05	70.33	73.39	76.69	81.24	82.79	83.68	84.35	84.93	85.48	86.00	86.47	86.90	87.29	87.65	87.97	88.27	88.54	88.79	89.01	89.22	89.42	89.59	89.76	89.91	90.05	90.18										
2003	6.99	21.72	37.55	46.57	52.06	56.63	62.46	65.07	66.98	68.42	69.77	71.08	72.34	73.50	74.56	75.54	76.44	77.26	78.02	78.72	79.37	79.96	80.52	81.03	81.51	81.95	82.36	82.75	83.10	83.44										
2004	3.99	19.54	30.42	37.38	43.09	49.79	53.02	55.47	57.40	59.25	61.05	62.80	64.44	65.96	67.34	68.62	69.78	70.86	71.85	72.76	73.60	74.38	75.11	75.78	76.40	76.98	77.52	78.02	78.49	78.90										
2005	3.26	10.90	18.13	26.25	37.44	42.10	45.49	48.07	50.54	52.93	55.27	57.54	59.65	61.57	63.29	64.83	66.22	67.47	68.59	69.61	70.54	71.38	72.14	72.84	73.47	74.05	74.58	75.07	75.52	75.91										
2006	1.25	7.62	17.74	29.64	34.39	37.31	39.50	41.59	43.69	45.79	47.90	50.02	52.08	54.00	55.75	57.34	58.80	60.13	61.34	62.45	63.48	64.42	65.28	66.08	66.82	67.50	68.13	68.72	69.26	69.77										
2007	1.35	12.20	26.05	31.58	34.99	37.25	39.23	41.25	43.27	45.28	47.29	49.35	51.34	53.18	54.86	56.38	57.77	59.03	60.19	61.25	62.21	63.10	63.92	64.68	65.37	66.02	66.61	67.17	67.68	68.16										
2008	2.55	10.95	16.95	21.47	24.77	27.67	30.63	33.57	36.47	39.35	42.27	45.03	47.56	49.85	51.92	53.81	55.53	57.11	58.54	59.86	61.08	62.19	63.22	64.16	65.04	65.85	66.60	67.30	67.95	68.55										
2009	2.50	7.70	13.43	18.45	23.19	27.51	31.74	35.99	39.98	43.61	46.87	49.82	52.50	54.92	57.13	59.15	60.99	62.68	64.22	65.65	66.95	68.16	69.27	70.30	71.26	72.14	72.96	73.73	74.44	75.10										
2010	1.57	7.47	15.62	23.47	30.60	36.80	42.66	47.89	52.44	56.35	59.73	62.68	65.27	67.55	69.56	71.34	72.92	74.34	75.60	76.73	77.75	78.67	79.50	80.26	80.94	81.56	82.13	82.65	83.13	83.56										
2011	1.84	9.20	19.32	28.83	37.20	44.36	50.50	55.69	60.01	63.64	66.73	69.39	71.68	73.67	75.41	76.93	78.27	79.45	80.50	81.43	82.26	83.00	83.67	84.27	84.81	85.30	85.75	86.15	86.52	86.86										
2012	1.88	9.72	20.17	29.99	38.72	45.83	51.86	56.88	61.07	64.59	67.60	70.19	72.43	74.37	76.07	77.56	78.87	80.03	81.06	81.97	82.79	83.52	84.18	84.77	85.30	85.79	86.23	86.63	86.99	87.33										
2013	1.93	9.69	20.03	29.82	38.33																																			

Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1989	0.17	1.94	3.88	3.18	3.24	3.25	3.27	2.99	2.84	1.99	1.56	0.73	0.93	0.12	0.70	0.82	0.57	0.21	0.25	0.37	0.31	0.30	0.25	0.23	0.21	0.19	0.17	0.16	0.15	0.13
1990	0.07	0.88	1.95	2.29	2.49	2.91	1.95	1.77	1.22	1.43	1.04	0.53	0.47	0.33	0.31	0.75	0.00	0.52	0.12	0.34	0.32	0.27	0.24	0.22	0.20	0.19	0.17	0.16	0.14	0.13
1991	0.04	0.59	1.62	1.89	2.23	1.74	1.43	1.13	1.39	1.10	0.83	0.49	0.41	0.26	0.48	0.37	0.23	0.63	0.37	0.35	0.29	0.26	0.24	0.22	0.20	0.18	0.17	0.15	0.14	0.13
1992	0.01	0.36	0.90	1.09	1.08	1.03	0.92	0.79	0.72	0.39	0.38	0.31	0.47	0.23	0.51	0.21	0.20	0.39	0.36	0.28	0.24	0.20	0.18	0.17	0.15	0.14	0.13	0.12	0.11	0.10
1993	0.01	0.25	0.69	0.91	1.21	1.12	0.99	0.77	0.45	0.35	0.32	0.33	0.23	0.15	0.16	0.27	0.36	0.36	0.24	0.18	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.08	0.07	0.06
1994	0.03	0.34	0.73	1.03	1.09	0.92	0.72	0.46	0.37	0.30	0.31	0.29	0.18	0.19	0.24	0.32	0.33	0.21	0.16	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.06	0.05
1995	0.16	0.73	1.45	1.50	1.35	1.21	0.87	0.55	0.51	0.51	0.31	0.45	0.20	0.31	0.49	0.47	0.36	0.30	0.26	0.24	0.21	0.20	0.18	0.16	0.15	0.14	0.12	0.11	0.10	0.09
1996	0.02	0.48	1.38	1.65	1.50	0.87	0.71	0.81	0.65	0.60	0.63	0.55	0.64	0.77	0.82	0.57	0.42	0.35	0.31	0.29	0.26	0.24	0.22	0.20	0.18	0.16	0.15	0.14	0.12	0.11
1997	0.08	0.79	1.74	1.99	1.31	0.88	1.03	0.90	1.25	0.93	0.37	0.60	0.94	0.96	0.70	0.53	0.44	0.40	0.37	0.34	0.30	0.28	0.25	0.23	0.21	0.19	0.17	0.16	0.14	0.13
1998	0.02	0.25	0.83	0.84	0.77	0.83	1.24	1.00	0.79	0.74	0.82	0.76	0.83	0.52	0.36	0.31	0.28	0.26	0.23	0.21	0.19	0.18	0.16	0.15	0.14	0.12	0.11	0.10	0.09	0.09
1999	0.02	0.28	0.53	0.67	0.87	1.03	1.02	0.82	0.61	0.76	0.70	0.74	0.44	0.33	0.30	0.28	0.25	0.23	0.21	0.19	0.17	0.16	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.08
2000	0.02	0.44	1.09	1.70	2.35	1.93	1.21	1.14	1.48	1.60	1.67	1.21	0.82	0.62	0.53	0.47	0.42	0.38	0.35	0.32	0.28	0.26	0.24	0.21	0.19	0.18	0.16	0.15	0.13	0.12
2001	0.00	0.25	1.49	2.89	2.98	2.92	2.50	2.42	2.06	2.19	1.27	0.75	0.55	0.41	0.35	0.30	0.27	0.24	0.22	0.20	0.18	0.17	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08
2002	0.02	0.51	1.89	2.29	2.07	1.78	1.81	1.91	1.96	1.12	0.77	0.60	0.43	0.34	0.30	0.27	0.24	0.22	0.20	0.19	0.17									

Conditional Prepayment Rates				Fixed Rate 30 Year Streamline Refinance Mortgages										by Credit Subsidy Endorsement Cohort																									
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1989	8.69	15.81	13.26	24.79	31.67	33.64	11.33	15.58	11.43	16.59	16.96	11.00	12.05	14.79	14.46	13.11	8.95	14.74	4.46	11.86	20.41	13.62	12.66	12.20	11.79	11.45	11.08	10.66	10.26	9.88									
1990	5.82	16.56	28.81	37.82	35.29	11.79	15.67	12.86	18.17	19.63	11.45	11.96	17.39	20.51	16.96	10.82	17.35	6.54	11.31	21.03	13.99	13.02	12.57	12.15	11.76	11.48	11.10	10.69	10.31	9.94									
1991	3.92	32.91	44.94	39.72	11.28	17.17	13.28	20.00	22.99	10.73	13.70	20.42	21.71	17.97	12.76	17.50	7.71	11.67	21.86	14.52	13.44	13.03	12.59	12.14	11.70	11.28	10.87	10.47	10.08	9.71									
1992	4.71	30.52	32.28	8.61	14.23	11.32	20.06	24.40	11.91	15.41	24.87	33.94	21.82	16.88	13.24	7.67	12.79	22.46	13.93	12.57	12.45	12.20	11.75	11.32	10.91	10.51	10.12	9.75	9.39	9.04									
1993	5.26	15.54	6.23	9.72	8.75	16.78	21.67	10.99	16.56	27.25	42.07	28.83	19.94	17.08	9.79	14.59	24.50	12.71	10.98	10.68	10.18	9.79	9.43	9.07	8.73	8.39	8.07	7.76	7.46	7.17									
1994	2.96	4.56	7.44	7.49	12.12	16.40	9.83	14.26	22.52	39.65	28.22	20.34	15.55	10.53	14.68	24.56	11.82	9.63	8.87	8.11	7.77	7.46	7.17	6.89	6.62	6.35	6.10	5.86	5.63	5.41									
1995	3.63	11.52	8.11	14.67	17.81	9.97	15.17	22.22	33.41	25.95	19.37	12.89	9.12	14.29	25.28	15.36	13.68	13.46	13.07	12.59	12.09	11.70	11.27	10.84	10.45	10.05	9.64	9.28	8.92	8.57									
1996	2.97	6.23	17.02	21.87	10.38	17.35	27.95	43.36	33.08	25.53	18.43	13.03	21.07	39.19	21.78	18.37	17.66	16.72	16.07	15.45	14.87	14.29	13.73	13.19	12.67	12.14	11.63	11.17	10.72	10.28									
1997	4.38	25.31	24.95	9.60	18.14	28.87	41.05	33.38	27.27	19.80	12.49	22.78	39.69	23.57	20.23	20.06	19.40	18.68	17.98	17.32	16.59	15.96	15.36	14.77	14.20	13.63	13.10	12.59	12.09	11.62									
1998	5.55	17.90	8.29	17.44	30.84	51.19	39.64	31.02	21.31	15.17	21.76	40.83	20.30	15.16	13.34	11.93	11.48	11.05	10.63	10.23	9.83	9.46	9.10	8.75	8.41	8.07	7.75	7.45	7.16	6.88									
1999	3.77	6.27	13.53	24.77	46.57	36.98	29.44	20.76	14.01	19.84	36.54	17.58	12.62	10.33	8.83	8.48	8.15	7.82	7.51	7.21	6.94	6.67	6.41	6.16	5.92	5.68	5.46	5.24	5.02	4.82									
2000	4.10	24.82	30.50	42.00	36.68	29.66	21.27	15.54	21.99	40.11	23.58	20.19	20.45	20.15	19.59	18.91	18.22	17.50	16.78	16.09	15.36	14.75	14.09	13.48	12.88	12.31	11.83	11.29	10.76	10.23									
2001	8.37	32.85	52.06	38.50	31.81	22.58	15.44	21.47	36.73	17.50	12.70	11.00	10.22	10.31	10.10	9.81	9.52	9.18	8.83	8.49	8.19	7.90	7.60	7.31	7.03	6.75	6.49	6.24	6.00	5.77									
2002	12.82	48.49	35.31	28.99	20.49	14.43	18.47	32.00	14.79	10.61	8.67	7.73	7.95	7.91	7.67	7.42	7.16	6.90	6.64	6.39	6.17	5.95	5.73	5.51	5.30	5.10	4.91	4.73	4.55	4.37									
2003	14.86	21.99	24.10	17.37	12.47	12.43	19.52	9.40	7.70	5.99	5.92	6.06	6.15	5.98	5.78	5.59	5.38	5.18	4.98	4.79	4.63	4.46	4.29	4.13	3.97	3.82	3.68	3.54	3.40	3.27									
2004	8.47	20.28	15.54	11.41	10.56	15.09	7.68	6.81	5.96	6.09	6.23	6.37	6.27	6.06	5.86	5.65	5.43	5.23	5.03	4.84	4.68	4.51	4.34	4.17	4.01	3.87	3.73	3.59	3.45	2.91									
2005	6.73	12.02	10.40	10.47	14.45	6.95	6.02	5.33	5.76	6.14	6.44	6.73	6.72	6.53	6.32	6.10	5.86	5.64	5.43	5.22	5.05	4.88	4.69	4.51	4.34	4.19	4.03	3.88	3.73	3.49									
2006	4.07	9.98	10.84	11.15	5.03	4.23	3.86	4.47	4.99	5.36	5.77	6.10	6.17	6.01	5.82	5.60	5.38	5.18	4.98	4.79	4.64	4.47	4.30	4.14	3.98	3.84	3.70	3.55	3.42	3.28									
2007	3.84	19.05	11.68	4.80	3.63	2.84	3.29	4.34	4.98	5.31	5.71	6.45	6.64	6.54	6.31	6.07	5.84	5.62	5.41	5.21	5.02	4.84	4.66	4.48	4.31	4.15	3.99	3.84	3.70	3.55									
2008	3.97	9.78	4.62	3.49	2.77	3.39	4.52	5.12	5.39	5.82	6.60	6.74	6.55	6.31	6.07	5.84	5.62	5.41	5.20	5.00	4.83	4.65	4.48	4.31	4.14	3.99	3.84	3.69	3.55	3.42									
2009	4.74	6.09	5.58	5.67	6.35	6.63	7.19	8.16	8.38	8.20	7.90	7.60	7.32	7.04	6.78	6.52	6.28	6.04	5.81	5.59	5.39	5.19	4.99	4.80	4.62	4.45	4.28	4.12	3.96	3.81									
2010	3.27	8.27	9.09	8.99	9.09	9.69	10.97	11.19	10.92	10.46	10.01	9.58	9.18	8.79	8.42	8.07	7.74	7.42	7.11	6.82	6.56	6.30	6.04	5.80	5.57	5.35	5.14	4.94	4.74	4.55									
2011	4.13	11.00	11.94	11.48	12.16	13.49	13.53	13.11	12.49	11.90	11.35	10.83	10.33	9.87	9.43	9.01	8.61	8.24	7.88	7.55	7.24	6.94	6.65	6.37	6.10	5.86	5.62	5.39	5.17	4.96									
2012	4.34	11.83	12.50	12.40	13.60	13.96	13.71	13.10	12.48	11.89	11.34	10.82	10.32	9.86	9.42	9.00	8.61	8.24	7.88	7.54	7.24	6.94	6.65	6.37	6.11	5.87	5.63	5.40	5.18	4.97									
2013	4.47	11.82	12.51	12.57	13.30	13.99	13.66	13.07	12.45	11.87	11.32	10.80	10.31	9.85	9.41	9.00	8.61	8.23	7.88	7.54	7.24	6.94	6.65	6.37	6.11	5.87	5.63	5.40	5.18	4.97									
2014	4.34	11.76	12.52	12.30	13.64	13.96	13.65	13.05	12.43	11.84	11.29	10.77	10.28	9.82	9.38	8.97	8.57	8.20	7.85	7.51	7.21	6.91	6.62	6.35	6.08	5.84	5.61	5.38	5.16	4.95									
2015	4.49	11.90	12.46	12.73	13.50	13.94	13.62	13.03	12.41	11.83	11.28	10.76	10.27	9.81	9.37	8.96	8.57	8.20	7.84	7.51	7.21	6.91	6.62	6.35	6.09	5.85	5.61	5.38	5.16	4.95									

Cumulative Claim Rates			Fixed Rate 30 Year Streamline Refinance Mortgages										by Credit Subsidy Endorsement Cohort																										
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1989	0.17	1.94	4.84	6.82	8.27	9.21	9.82	10.28	10.65	10.87	11.01	11.06	11.12	11.12	11.16	11.19	11.21	11.22	11.22	11.23	11.24	11.25	11.25	11.25	11.25	11.26	11.26	11.26	11.26	11.26									
1990	0.07	0.89	2.41	3.64	4.44	5.02	5.36	5.61	5.75	5.89	5.97	6.01	6.04	6.05	6.06	6.09	6.09	6.10	6.10	6.11	6.11	6.12	6.12	6.12	6.12	6.12	6.13	6.13	6.13	6.13									
1991	0.04	0.61	1.65	2.29	2.74	3.04	3.24	3.37	3.50	3.58	3.63	3.66	3.68	3.69	3.70	3.71	3.71	3.72	3.73	3.73	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.75	3.75	3.75									
1992	0.01	0.35	0.94	1.42	1.85	2.20	2.47	2.65	2.78	2.84	2.89	2.92	2.95	2.96	2.98	2.99	2.99	3.00	3.01	3.02	3.02	3.02	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03									
1993	0.01	0.25	0.80	1.48	2.28	2.95	3.44	3.73	3.88	3.98	4.04	4.08	4.10	4.11	4.12	4.13	4.15	4.16	4.16	4.17	4.17	4.17	4.18	4.18	4.18	4.18	4.18	4.18	4.18	4.18									
1994	0.03	0.35	1.03	1.90	2.75	3.37	3.77	4.00	4.16	4.26	4.32	4.36	4.38	4.39	4.41	4.44	4.46	4.47	4.47	4.48	4.48	4.48	4.49	4.49	4.49	4.49	4.49	4.50	4.50	4.50									
1995	0.16	0.86	2.08	3.23	4.10	4.72	5.12	5.34	5.49	5.59	5.63	5.69	5.71	5.73	5.77	5.80	5.82	5.83	5.84	5.85	5.85	5.86	5.86	5.86	5.87	5.87	5.87	5.87	5.87	5.87									
1996	0.02	0.49	1.74	2.96	3.81	4.24	4.53	4.76	4.87	4.93	4.98	5.02	5.05	5.09	5.11	5.12	5.13	5.13	5.13	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.15	5.15	5.15	5.15									
1997	0.08	0.84	2.06	3.09	3.69	4.02	4.28	4.42	4.54	4.61	4.63	4.66	4.69	4.71	4.73	4.73	4.74	4.74	4.74	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75									
1998	0.02	0.25	0.90	1.48	1.92	2.25	2.48	2.59	2.65	2.70	2.74	2.77	2.79	2.79	2.80	2.80	2.81	2.81	2.81	2.81	2.81	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82									
1999	0.02	0.29	0.77	1.28	1.78	2.09	2.28	2.39	2.45	2.52	2.57	2.60	2.62	2.63	2.64	2.64	2.65	2.65	2.66	2.66	2.66	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.68	2.68									
2000	0.02	0.45	1.23	2.06	2.71	3.04	3.18	3.28	3.39	3.48	3.53	3.56	3.58	3.59	3.60	3.60	3.60	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61	3.61									
2001	0.00	0.23	1.14	1.97	2.46	2.78	2.99	3.15	3.25	3.32	3.35	3.37	3.38	3.38	3.39	3.39	3.40	3.40	3.40	3.40	3.40	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41	3.41									
2002	0.02	0.46	1.30	1.94	2.34	2.60	2.82	3.01	3.14	3.20	3.24	3.27	3.28	3.30	3.31	3.32	3.32	3.33	3.33	3.34	3.34	3.34	3.35	3.35	3.35	3.35	3.36	3.36	3.36	3.36									
2003	0.01	0.44	1.22	1.83	2.30	2.77	3.27	3.59	3.77	3.93	4.03	4.10	4.15	4.18	4.22	4.25	4.27	4.29	4.31	4.32	4.34	4.35	4.36	4.37	4.37	4.38	4.39	4.40	4.40	4.40									
2004	0.08	0.76	1.59	2.34	3.13	4.07	4.64	5.02	5.31	5.51	5.64	5.73	5.79	5.85	5.90	5.94	5.97	6.00	6.03	6.05	6.07	6.09	6.10	6.11	6.13	6.14	6.14	6.15	6.16	6.16									
2005	0.06	0.63	1.87	3.40	6.32	8.01	9.04	9.81	10.31	10.62	10.83	10.96	11.05	11.13	11.19	11.25	11.29	11.33	11.36	11.39	11.42	11.44	11.46	11.47	11.49	11.50	11.51	11.52	11.53	11.54									
2006	0.07	1.05	3.07	8.36	11.83	13.77	15.18	16.05	16.62	16.98	17.21	17.36	17.46	17.55	17.62	17.67	17.72	17.77	17.81	17.84	17.87	17.89	17.91	17.93	17.95	17.96	17.97	17.99	18.00	18.00									
2007	0.06	1.08	6.35	11.51	14.64	17.36	19.05	20.01	20.64	21.05	21.32	21.47	21.57	21.65	21.72	21.77	21.82	21.86	21.90	21.93	21.96	21.98	22.00	22.02	22.03	22.04	22.06	22.07	22.08	22.08									
2008	0.04	2.66	7.07	11.32	15.23	17.56	18.79	19.65	20.21	20.57	20.77	20.91	21.02	21.11	21.19	21.26	21.32	21.37	21.41	21.45	21.48	21.51	21.53	21.55	21.57	21.59	21.60	21.62	21.63	21.64									
2009	0.06	1.22	3.40	5.65	7.30	8.35	9.02	9.39	9.64	9.82	9.98	10.11	10.22	10.31	10.39	10.45	10.51	10.56	10.60	10.64	10.67	10.69	10.72	10.74	10.75	10.77	10.78	10.79	10.80	10.81									
2010	0.05	0.95	2.86	4.85	6.18	7.01	7.46	7.75	7.96	8.13	8.27	8.38	8.48	8.56	8.62	8.67	8.72	8.76	8.79	8.81	8.84	8.86	8.87	8.89	8.90	8.91	8.92	8.93	8.93	8.94									
2011	0.04	0.82	2.33	3.78	4.75	5.25	5.57	5.81	5.99	6.14	6.26	6.35	6.43	6.49	6.54	6.58	6.61	6.64	6.67	6.69	6.70	6.72	6.73	6.74	6.75	6.76	6.76	6.77	6.77	6.78									
2012	0.03	0.63	1.87	3.10	3.82	4.25	4.54	4.77	4.95	5.09	5.20	5.29	5.36	5.42	5.47	5.51	5.54	5.57	5.59	5.61	5.63	5.64	5.66	5.67	5.67	5.68	5.69	5.69	5.70	5.70									
2013	0.03	0.62	1.85	3.05	3.81	4.23	4.53	4.75	4.93	5.07	5.18	5.27	5.35	5.41	5.45	5.49	5.53	5.55	5.58	5.60	5.61	5.63	5.64	5.65	5.66	5.66	5.67	5.68	5.68	5.68									
2014	0.03	0.63	1.85	3.10	3.81	4.23	4.53	4.75	4.93	5.07	5.18	5.27	5.35	5.41	5.45	5.49	5.53	5.56	5.58	5.60	5.61	5.63	5.64	5.65	5.66	5.67	5.67	5.68	5.68	5.69									
2015	0.03	0.60	1.84	3.00	3.72	4.14	4.43	4.66	4.83	4.97	5.09	5.18	5.25	5.31	5.36	5.40	5.43	5.46	5.48	5.50	5.52	5.53	5.54	5.55	5.56	5.57	5.57	5.58	5.58	5.59									

Cumulative Prepayment Rates				Fixed Rate 30 Year Streamline Refinance Mortgages										by Credit Subsidy Endorsement Cohort																									
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1989	8.69	23.09	33.04	48.44	62.61	72.40	74.49	76.93	78.39	80.21	81.72	82.52	83.30	84.12	84.81	85.34	85.65	86.11	86.23	86.53	86.99	87.23	87.42	87.59	87.72	87.84	87.94	88.03	88.10	88.16									
1990	5.82	21.41	43.79	64.14	75.51	77.87	80.55	82.37	84.55	86.45	87.33	88.13	89.15	90.14	90.78	91.13	91.61	91.76	92.00	92.40	92.61	92.78	92.92	93.03	93.13	93.22	93.29	93.35	93.41	93.45									
1991	3.92	35.52	64.23	77.78	80.03	82.99	84.85	87.23	89.39	90.15	91.01	92.10	93.02	93.62	93.96	94.37	94.52	94.73	95.06	95.24	95.38	95.49	95.59	95.67	95.74	95.80	95.85	95.89	95.93	95.96									
1992	4.71	33.79	55.05	58.84	64.49	68.30	74.22	79.91	81.99	84.34	87.52	90.78	92.15	92.98	93.52	93.79	94.20	94.83	95.13	95.37	95.57	95.74	95.88	96.01	96.11	96.20	96.28	96.35	96.41	96.46									
1993	5.26	19.98	24.95	32.17	37.98	48.00	58.63	62.80	68.34	75.91	84.37	87.71	89.35	90.47	91.00	91.71	92.73	93.13	93.42	93.68	93.90	94.09	94.25	94.40	94.52	94.63	94.73	94.81	94.89	94.95									
1994	2.96	7.38	14.25	20.59	29.99	41.02	46.48	53.58	63.13	76.10	81.65	84.50	86.24	87.22	88.45	90.21	90.84	91.29	91.67	91.98	92.26	92.50	92.72	92.91	93.08	93.24	93.37	93.50	93.61	93.71									
1995	3.63	14.72	21.56	32.77	44.17	49.33	56.30	64.87	74.82	79.93	82.74	84.24	85.15	86.46	88.43	89.32	89.99	90.55	91.03	91.42	91.75	92.03	92.27	92.47	92.65	92.80	92.92	93.04	93.13	93.22									
1996	2.97	9.02	24.42	40.57	46.43	55.07	66.44	79.03	84.39	87.13	88.60	89.43	90.60	92.30	92.87	93.24	93.53	93.76	93.94	94.08	94.20	94.29	94.37	94.43	94.49	94.53	94.57	94.60	94.63	94.65									
1997	4.38	28.56	46.18	51.15	59.45	70.09	80.72	85.72	88.41	89.81	90.50	91.61	93.09	93.61	93.95	94.22	94.42	94.58	94.70	94.80	94.87	94.93	94.98	95.02	95.05	95.08	95.10	95.12	95.14	95.15									
1998	5.55	22.45	28.86	41.11	58.82	78.91	86.38	89.84	91.45	92.34	93.42	94.99	95.45	95.71	95.91	96.07	96.20	96.31	96.40	96.48	96.55	96.61	96.66	96.71	96.75	96.78	96.81	96.84	96.87	96.89									
1999	3.77	9.80	21.97	41.10	67.94	79.13	84.66	87.37	88.81	90.54	93.08	93.84	94.29	94.61	94.85	95.07	95.25	95.42	95.56	95.69	95.80	95.91	96.00	96.08	96.15	96.22	96.28	96.34	96.39	96.43									
2000	4.10	27.90	49.75	70.34	80.46	85.45	87.90	89.29	90.92	93.20	93.99	94.49	94.89	95.19	95.43	95.62	95.76	95.87	95.96	96.03	96.08	96.13	96.17	96.20	96.22	96.24	96.26	96.27	96.28	96.29									
2001	8.37	38.47	70.38	81.34	86.65	89.11	90.36	91.79	93.65	94.19	94.51	94.74	94.94	95.11	95.26	95.40	95.51	95.61	95.70	95.77	95.84	95.90	95.95	96.00	96.04	96.08	96.11	96.14	96.17	96.19									
2002	12.82	55.08	70.78	78.87	82.81	84.95	87.25	90.43	91.40	91.98	92.39	92.73	93.05	93.34	93.60	93.83	94.03	94.21	94.38	94.52	94.66	94.78	94.88	94.98	95.07	95.15	95.22	95.29	95.35	95.41									
2003	14.86	33.58	49.49	58.05	63.05	67.36	73.19	75.40	77.02	78.17	79.23	80.25	81.21	82.09	82.88	83.60	84.26	84.85	85.39	85.88	86.34	86.75	87.14	87.49	87.81	88.11	88.39	88.64	88.88	89.10									
2004	8.47	27.01	38.24	45.11	50.66	57.63	60.57	62.94	64.85	66.67	68.40	70.05	71.57	72.94	74.19	75.31	76.33	77.26	78.10	78.87	79.57	80.22	80.81	81.36	81.86	82.33	82.76	83.15	83.52	83.82									
2005	6.73	17.93	26.40	33.91	42.97	46.49	49.23	51.46	53.69	55.90	58.05	60.15	62.09	63.84	65.42	66.85	68.13	69.29	70.35	71.30	72.17	72.97	73.71	74.37	74.99	75.55	76.08	76.56	77.00	77.40									
2006	4.07	13.63	22.88	31.14	34.18	36.46	38.39	40.46	42.63	44.81	47.02	49.20	51.26	53.14	54.85	56.39	57.79	59.05	60.21	61.26	62.23	63.12	63.94	64.69	65.38	66.02	66.61	67.16	67.67	68.14									
2007	3.84	22.14	31.11	34.11	36.09	37.49	38.98	40.80	42.75	44.69	46.65	48.72	50.70	52.51	54.14	55.60	56.93	58.12	59.20	60.19	61.09	61.91	62.66	63.34	63.97	64.56	65.09	65.58	66.04	66.46									
2008	3.97	13.36	17.24	19.89	21.79	23.92	26.57	29.36	32.11	34.88	37.82	40.61	43.13	45.39	47.43	49.26	50.92	52.42	53.78	55.02	56.16	57.20	58.15	59.03	59.83	60.57	61.26	61.89	62.48	63.02									
2009	4.74	10.54	15.46	20.06	24.78	29.28	33.77	38.44	42.81	46.71	50.15	53.18	55.87	58.26	60.39	62.29	64.00	65.54	66.93	68.19	69.33	70.36	71.31	72.17	72.96	73.69	74.35	74.97	75.53	76.05									
2010	3.27	11.27	19.25	26.25	32.51	38.45	44.44	49.82	54.45	58.38	61.74	64.61	67.09	69.24	71.11	72.74	74.18	75.45	76.57	77.57	78.47	79.27	79.98	80.63	81.21	81.74	82.22	82.66	83.06	83.42									
2011	4.13	14.67	24.76	33.14	40.81	48.15	54.46	59.70	64.00	67.57	70.56	73.07	75.19	77.01	78.56	79.91	81.07	82.08	82.97	83.76	84.45	85.06	85.61	86.10	86.53	86.93	87.28	87.60	87.89	88.16									
2012	4.34	15.65	26.11	35.04	43.46	50.81	56.98	62.02	66.16	69.59	72.46	74.88	76.93	78.67	80.17	81.46	82.59	83.56	84.42	85.17	85.84	86.43	86.96	87.43	87.85	88.23	88.57	88.88	89.17	89.42									
2013	4.47	15.76	26.22	35.26	43.47	50.85	56.98	62.02	66.15	69.59	72.46	74.87	76.92	78.67	80.17	81.46	82.58	83.56	84.42	85.17	85.84	86.43	86.96	87.43	87.86	88.24	88.58	88.89	89.17	89.43									
2014	4.34	15.59	26.08	34.95	43.40	50.77	56.91	61.94	66.08	69.51	72.38	74.80	76.85	78.60	80.10	81.39	82.52	83.50	84.36	85.11	85.78	86.38	86.91	87.38	87.80	88.19	88.53	88.84	89.13	89.38									
2015	4.49	15.85	26.26	35.41	43.73	51.05	57.16	62.16	66.28	69.70	72.55	74.96	77.00	78.74	80.24	81.53	82.65	83.63	84.48	85.24	85.90	86.50	87.02	87.50	87.92	88.30	88.64	88.96	89.24	89.49									

Conditional Claim Rates		Fixed Rate 15 Year Mortgages					by Credit Subsidy Endorsement Cohort								
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1979	0.00	0.59	1.40	1.24	1.96	1.15	0.00	1.52	0.28	0.95	0.35	0.00	1.36	0.52	0.00
1980	0.00	0.42	3.27	2.07	1.56	1.66	2.29	2.38	1.80	0.75	1.11	0.66	0.72	0.40	0.47
1981	0.00	1.72	5.14	2.84	3.44	1.27	1.45	1.96	0.92	1.37	1.14	2.12	0.91	1.01	0.00
1982	0.21	1.61	2.83	2.62	2.62	2.17	3.30	2.89	0.59	0.96	1.03	0.43	0.00	0.00	0.00
1983	0.01	0.17	0.60	1.04	1.24	1.32	1.09	0.57	0.41	0.41	0.36	0.33	0.14	0.09	0.10
1984	0.03	0.42	1.05	1.61	2.48	1.71	1.13	0.73	0.59	0.45	0.40	0.45	0.31	0.12	0.14
1985	0.01	0.29	1.28	2.28	1.74	1.34	0.92	0.91	0.78	0.83	0.62	0.57	0.30	0.29	0.23
1986	0.01	0.24	0.73	0.86	0.71	0.60	0.54	0.42	0.41	0.41	0.28	0.19	0.15	0.10	0.12
1987	0.01	0.16	0.40	0.50	0.49	0.43	0.34	0.32	0.35	0.25	0.18	0.18	0.11	0.13	0.07
1988	0.01	0.22	0.48	0.74	0.85	0.82	0.87	0.86	0.64	0.50	0.49	0.20	0.16	0.21	0.10
1989	0.02	0.26	0.66	1.05	1.34	1.31	1.52	1.42	0.92	0.90	0.67	0.62	0.20	0.14	0.07
1990	0.00	0.17	0.64	0.91	1.10	1.41	1.17	0.88	0.72	0.59	0.51	0.22	0.13	0.21	0.17
1991	0.02	0.20	0.59	0.84	1.23	1.05	0.84	0.69	0.59	0.50	0.18	0.11	0.11	0.08	0.10
1992	0.00	0.12	0.47	0.57	0.69	0.60	0.55	0.47	0.27	0.20	0.14	0.02	0.12	0.04	0.10
1993	0.00	0.10	0.32	0.40	0.35	0.33	0.34	0.24	0.15	0.11	0.16	0.15	0.11	0.10	0.03
1994	0.00	0.09	0.21	0.27	0.35	0.24	0.32	0.21	0.12	0.16	0.14	0.05	0.05	0.06	0.02
1995	0.02	0.14	0.38	0.62	0.63	0.55	0.40	0.39	0.34	0.39	0.12	0.20	0.11	0.08	0.09
1996	0.00	0.11	0.37	0.46	0.49	0.46	0.41	0.48	0.27	0.36	0.37	0.18	0.09	0.10	0.09
1997	0.00	0.09	0.33	0.63	0.52	0.51	0.36	0.38	0.55	0.46	0.31	0.11	0.16	0.13	0.09
1998	0.00	0.13	0.31	0.35	0.54	0.41	0.43	0.50	0.26	0.27	0.16	0.14	0.13	0.09	0.06
1999	0.00	0.10	0.29	0.39	0.59	0.55	0.44	0.26	0.33	0.25	0.17	0.15	0.10	0.07	0.05
2000	0.00	0.15	0.61	1.31	1.55	0.63	0.91	0.48	0.55	0.45	0.37	0.25	0.17	0.12	0.10
2001	0.00	0.24	0.70	1.36	1.19	0.99	0.62	0.43	0.34	0.30	0.20	0.14	0.10	0.08	0.06
2002	0.01	0.26	0.63	0.71	0.79	0.45	0.43	0.35	0.30	0.20	0.14	0.11	0.08	0.07	0.05
2003	0.01	0.18	0.42	0.39	0.32	0.39	0.38	0.27	0.20	0.15	0.11	0.09	0.07	0.05	0.04
2004	0.03	0.16	0.37	0.55	0.61	0.47	0.34	0.25	0.19	0.15	0.11	0.09	0.07	0.05	0.04
2005	0.00	0.72	1.86	2.22	3.35	2.11	1.15	0.75	0.55	0.41	0.31	0.23	0.18	0.14	0.10
2006	0.04	1.53	2.73	6.25	4.55	2.38	1.13	0.67	0.49	0.37	0.28	0.21	0.16	0.12	0.09
2007	0.03	1.18	8.02	7.93	4.21	2.09	0.96	0.56	0.43	0.33	0.25	0.19	0.15	0.11	0.09
2008	0.02	1.68	4.15	3.34	1.90	1.01	0.56	0.42	0.32	0.25	0.19	0.15	0.11	0.09	0.07
2009	0.01	0.27	0.72	0.74	0.57	0.48	0.38	0.30	0.23	0.18	0.14	0.11	0.09	0.07	0.05
2010	0.01	0.25	0.68	0.70	0.64	0.56	0.45	0.35	0.27	0.21	0.16	0.13	0.10	0.08	0.06
2011	0.01	0.21	0.56	0.67	0.68	0.60	0.48	0.37	0.29	0.22	0.17	0.13	0.10	0.08	0.06
2012	0.01	0.18	0.51	0.67	0.69	0.61	0.48	0.37	0.29	0.23	0.18	0.14	0.11	0.08	0.06
2013	0.01	0.18	0.53	0.68	0.70	0.62	0.49	0.38	0.29	0.23	0.18	0.14	0.11	0.08	0.07
2014	0.01	0.19	0.53	0.69	0.71	0.63	0.50	0.38	0.30	0.23	0.18	0.14	0.11	0.08	0.07
2015	0.01	0.18	0.54	0.70	0.71	0.63	0.50	0.39	0.30	0.23	0.18	0.14	0.11	0.09	0.07

Conditional Prepayment Rates		Fixed Rate 15 Year Mortgages							by Credit Subsidy Endorsement Cohort						
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1979	0.97	1.18	2.00	3.52	3.91	4.62	3.19	8.61	10.42	8.20	14.58	9.80	11.31	11.40	18.24
1980	0.41	1.81	0.85	2.67	4.82	3.99	8.80	9.70	8.11	9.00	15.51	6.64	10.04	13.65	27.10
1981	0.47	0.63	4.33	4.26	6.49	11.02	12.32	6.72	9.20	8.53	9.47	5.08	8.68	11.11	16.67
1982	0.64	11.06	7.87	8.13	19.14	14.20	6.84	7.87	7.65	6.09	18.28	7.26	4.63	6.80	10.94
1983	0.24	1.12	2.34	10.37	20.60	9.83	8.48	10.15	11.61	21.03	22.10	20.34	12.56	15.93	19.68
1984	0.34	1.52	12.46	21.44	9.35	7.75	9.17	10.66	19.18	19.33	18.14	9.71	11.39	14.05	29.67
1985	0.41	11.23	22.45	9.16	7.20	8.63	10.70	20.56	20.57	17.72	8.56	9.37	10.47	12.71	19.25
1986	1.13	6.74	4.79	5.16	6.76	8.42	17.76	23.64	22.20	9.58	12.92	12.34	15.38	16.59	25.25
1987	0.96	2.16	3.26	4.78	5.68	10.91	18.86	20.31	9.39	12.58	11.92	15.39	18.28	16.70	42.09
1988	0.80	2.03	3.77	5.27	10.74	18.83	20.65	8.81	12.15	10.89	14.09	15.08	14.25	18.42	36.26
1989	0.49	2.35	4.05	11.75	20.60	21.75	9.07	11.98	10.53	13.64	15.22	11.92	14.12	18.17	28.01
1990	0.65	2.61	8.39	21.30	23.44	9.11	13.22	11.13	14.92	15.98	11.79	14.22	16.86	21.44	32.67
1991	0.77	4.48	18.16	23.29	9.05	12.42	11.66	15.33	16.98	12.20	12.88	17.60	19.61	19.27	32.82
1992	0.95	7.55	15.39	8.39	12.46	11.67	16.89	18.59	12.69	14.81	19.04	22.87	21.75	22.08	38.00
1993	1.23	6.09	6.11	9.22	9.78	13.55	17.27	11.79	13.55	17.89	23.12	20.10	18.98	22.11	35.73
1994	1.39	3.61	6.95	7.65	11.16	13.34	9.96	12.71	15.93	21.08	18.09	15.81	17.12	18.83	35.21
1995	1.57	6.59	7.74	13.03	13.77	9.40	12.23	15.26	16.86	14.84	13.47	12.58	12.67	19.35	27.44
1996	1.11	4.34	9.33	13.38	9.92	13.14	18.22	22.96	18.16	16.02	14.92	12.69	19.87	34.23	21.37
1997	1.36	7.34	13.21	8.80	13.03	18.71	23.55	18.47	15.58	13.60	13.72	19.10	34.01	21.70	19.80
1998	1.53	6.82	7.27	11.64	17.37	26.82	20.08	17.00	14.33	13.17	18.21	32.34	19.73	16.21	15.12
1999	1.26	3.94	9.18	15.37	26.20	20.20	16.58	13.57	11.24	15.95	29.89	18.24	14.90	13.58	12.92
2000	1.24	14.11	24.07	31.89	22.53	18.06	14.34	11.06	16.79	31.62	21.22	19.81	21.11	21.70	22.08
2001	3.61	14.56	33.74	25.84	20.75	14.36	11.89	17.15	29.33	18.00	14.83	13.80	13.17	13.36	13.56
2002	3.12	25.52	23.95	19.82	14.78	12.12	14.93	24.94	15.30	12.36	10.90	10.49	10.72	10.96	11.20
2003	4.49	13.41	16.73	14.46	11.84	11.71	15.82	9.70	8.29	7.93	8.07	8.25	8.43	8.62	8.81
2004	3.41	12.08	12.85	11.14	10.51	14.03	8.70	7.63	7.49	7.64	7.82	7.99	8.17	8.35	7.80
2005	3.52	9.92	9.71	12.71	19.70	12.24	10.66	10.03	10.16	10.34	10.54	10.74	10.94	11.16	10.75
2006	3.72	9.41	13.67	16.38	10.32	9.38	9.22	9.51	9.71	9.89	10.07	10.26	10.45	10.65	10.85
2007	3.54	11.35	14.20	8.87	8.05	8.33	9.49	10.14	10.36	10.57	10.78	11.01	11.23	11.46	11.69
2008	1.78	6.59	6.69	6.25	6.51	7.75	8.49	8.69	8.87	9.06	9.24	9.44	9.63	9.84	10.04
2009	1.87	5.32	7.06	7.20	7.71	7.96	8.13	8.30	8.48	8.65	8.83	9.01	9.20	9.38	9.57
2010	1.36	6.25	10.14	11.08	11.49	11.69	11.89	12.10	12.30	12.51	12.72	12.93	13.15	13.37	13.59
2011	1.42	7.24	11.79	12.54	12.68	12.87	13.06	13.26	13.46	13.65	13.85	14.05	14.25	14.46	14.66
2012	1.44	7.56	11.96	12.44	12.57	12.76	12.95	13.15	13.35	13.54	13.74	13.94	14.14	14.35	14.55
2013	1.46	7.51	11.81	12.35	12.47	12.66	12.85	13.05	13.24	13.44	13.64	13.84	14.04	14.24	14.45
2014	1.43	7.42	11.78	12.25	12.38	12.57	12.76	12.96	13.15	13.35	13.55	13.75	13.95	14.15	14.36
2015	1.43	7.44	11.64	12.17	12.30	12.48	12.68	12.87	13.07	13.27	13.46	13.66	13.86	14.07	14.27

Cumulative Claim Rates		Fixed Rate 15 Year Mortgages					by Credit Subsidy Endorsement Cohort								
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1979	0.00	0.58	1.95	3.11	4.86	5.84	5.84	7.00	7.20	7.78	7.98	7.98	8.56	8.75	8.75
1980	0.00	0.41	3.60	5.53	6.92	8.30	10.10	11.76	12.86	13.28	13.83	14.11	14.38	14.52	14.66
1981	0.00	1.72	6.71	9.20	12.01	12.95	13.88	14.98	15.44	16.07	16.54	17.32	17.63	17.94	17.94
1982	0.21	1.81	4.26	6.28	8.09	9.27	10.76	11.93	12.14	12.46	12.78	12.89	12.89	12.89	12.89
1983	0.01	0.18	0.77	1.77	2.82	3.69	4.33	4.63	4.83	5.00	5.12	5.21	5.23	5.25	5.26
1984	0.03	0.45	1.47	2.83	4.45	5.43	6.01	6.35	6.60	6.74	6.85	6.95	7.01	7.03	7.05
1985	0.01	0.29	1.42	2.95	3.99	4.71	5.16	5.55	5.82	6.04	6.17	6.29	6.34	6.38	6.42
1986	0.01	0.25	0.93	1.67	2.25	2.71	3.08	3.32	3.49	3.63	3.71	3.76	3.80	3.82	3.84
1987	0.01	0.17	0.56	1.02	1.45	1.81	2.06	2.25	2.41	2.52	2.59	2.65	2.68	2.71	2.72
1988	0.01	0.23	0.69	1.39	2.13	2.76	3.30	3.72	4.00	4.19	4.36	4.42	4.46	4.50	4.52
1989	0.02	0.28	0.92	1.89	2.97	3.79	4.53	5.14	5.49	5.78	5.97	6.12	6.16	6.19	6.20
1990	0.00	0.17	0.79	1.59	2.34	3.07	3.61	3.96	4.21	4.38	4.50	4.55	4.58	4.61	4.63
1991	0.02	0.22	0.77	1.42	2.13	2.68	3.06	3.34	3.53	3.67	3.71	3.74	3.75	3.77	3.78
1992	0.00	0.12	0.55	0.99	1.48	1.84	2.13	2.34	2.43	2.49	2.53	2.54	2.56	2.56	2.57
1993	0.00	0.10	0.40	0.75	1.02	1.25	1.46	1.58	1.64	1.69	1.73	1.77	1.79	1.81	1.81
1994	0.00	0.09	0.29	0.53	0.82	0.99	1.19	1.31	1.37	1.43	1.48	1.49	1.50	1.51	1.51
1995	0.02	0.16	0.51	1.03	1.49	1.83	2.06	2.25	2.39	2.53	2.56	2.61	2.64	2.65	2.67
1996	0.00	0.10	0.46	0.85	1.21	1.52	1.75	1.97	2.07	2.17	2.26	2.30	2.32	2.33	2.34
1997	0.00	0.09	0.39	0.89	1.26	1.58	1.75	1.90	2.07	2.19	2.26	2.28	2.30	2.32	2.32
1998	0.00	0.13	0.42	0.71	1.11	1.36	1.55	1.73	1.81	1.87	1.91	1.93	1.95	1.96	1.96
1999	0.00	0.10	0.37	0.71	1.13	1.43	1.61	1.70	1.80	1.87	1.90	1.93	1.94	1.95	1.95
2000	0.00	0.14	0.66	1.50	2.15	2.36	2.60	2.71	2.81	2.89	2.93	2.95	2.96	2.97	2.97
2001	0.00	0.23	0.81	1.54	2.00	2.31	2.47	2.57	2.63	2.67	2.69	2.70	2.71	2.71	2.72
2002	0.01	0.26	0.71	1.10	1.44	1.60	1.74	1.83	1.89	1.92	1.95	1.96	1.97	1.98	1.98
2003	0.01	0.18	0.52	0.79	0.98	1.17	1.34	1.45	1.51	1.56	1.59	1.62	1.63	1.64	1.65
2004	0.03	0.19	0.50	0.90	1.30	1.57	1.74	1.85	1.93	1.98	2.02	2.05	2.07	2.09	2.10
2005	0.00	0.69	2.30	3.99	6.16	7.21	7.70	7.98	8.17	8.29	8.38	8.43	8.47	8.50	8.51
2006	0.04	1.52	3.86	8.34	10.86	11.98	12.46	12.71	12.87	12.98	13.06	13.11	13.15	13.17	13.19
2007	0.03	1.17	7.94	13.14	15.44	16.44	16.85	17.07	17.22	17.32	17.38	17.43	17.46	17.48	17.50
2008	0.02	1.67	5.41	8.10	9.48	10.15	10.49	10.73	10.89	11.00	11.08	11.13	11.17	11.20	11.22
2009	0.01	0.27	0.94	1.58	2.02	2.37	2.62	2.80	2.92	3.02	3.08	3.13	3.16	3.18	3.20
2010	0.01	0.26	0.89	1.46	1.92	2.28	2.53	2.70	2.82	2.90	2.95	2.99	3.01	3.03	3.04
2011	0.01	0.22	0.73	1.27	1.74	2.10	2.35	2.52	2.63	2.70	2.75	2.79	2.81	2.82	2.83
2012	0.01	0.19	0.66	1.19	1.67	2.03	2.28	2.45	2.56	2.64	2.69	2.73	2.75	2.76	2.77
2013	0.01	0.19	0.67	1.21	1.69	2.07	2.32	2.49	2.61	2.69	2.74	2.77	2.80	2.81	2.82
2014	0.01	0.19	0.67	1.22	1.71	2.09	2.35	2.53	2.64	2.72	2.78	2.81	2.84	2.85	2.86
2015	0.01	0.19	0.68	1.24	1.74	2.12	2.38	2.56	2.68	2.76	2.82	2.85	2.88	2.89	2.90

Cumulative Prepayment Rates		Fixed Rate 15 Year Mortgages							by Credit Subsidy Endorsement Cohort						
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1979	0.97	2.14	4.09	7.39	10.89	14.79	17.32	23.93	31.13	36.19	44.36	49.03	53.89	58.17	64.20
1980	0.41	2.21	3.04	5.53	9.82	13.14	20.06	26.83	31.81	36.79	44.54	47.30	51.18	55.88	63.90
1981	0.47	1.09	5.30	9.05	14.35	22.46	30.42	34.17	38.85	42.75	46.65	48.52	51.48	54.91	59.44
1982	0.64	11.61	18.42	24.71	37.91	45.58	48.67	51.86	54.63	56.66	62.30	64.11	65.18	66.67	68.90
1983	0.24	1.35	3.65	13.56	31.01	37.51	42.50	47.90	53.41	62.19	69.44	74.61	77.15	79.95	82.87
1984	0.34	1.85	14.03	32.14	38.22	42.67	47.43	52.39	60.31	66.71	71.52	73.62	75.84	78.25	82.62
1985	0.41	11.59	31.37	37.52	41.81	46.49	51.71	60.58	67.54	72.27	74.12	75.97	77.83	79.84	82.49
1986	1.13	7.79	12.20	16.68	22.20	28.56	40.76	54.04	63.51	66.67	70.51	73.69	77.16	80.32	84.32
1987	0.96	3.10	6.25	10.71	15.72	24.75	38.60	50.66	55.08	60.42	64.84	69.85	74.88	78.63	86.48
1988	0.80	2.81	6.47	11.36	20.73	35.26	48.06	52.34	57.68	61.85	66.64	71.01	74.51	78.39	84.59
1989	0.49	2.83	6.75	17.60	34.18	47.85	52.24	57.42	61.36	65.88	70.19	73.03	75.98	79.22	83.31
1990	0.65	3.24	11.35	30.07	46.08	50.78	56.88	61.28	66.47	71.16	74.04	77.09	80.19	83.45	87.35
1991	0.77	5.21	22.38	40.28	45.55	52.05	57.33	63.40	69.05	72.39	75.48	79.14	82.50	85.15	88.79
1992	0.95	8.43	22.50	28.95	37.68	44.78	53.80	61.99	66.52	71.12	76.14	81.02	84.60	87.43	91.24
1993	1.23	7.24	12.90	20.89	28.56	38.10	48.57	54.46	60.42	67.20	74.40	79.19	82.81	86.21	90.49
1994	1.39	4.95	11.55	18.30	27.36	36.94	43.12	50.20	57.93	66.51	72.31	76.45	80.23	83.67	88.89
1995	1.57	8.05	15.15	26.15	36.18	42.04	48.90	56.39	63.36	68.44	72.35	75.51	78.28	81.97	86.19
1996	1.11	5.40	14.22	25.64	32.93	41.59	51.95	62.58	69.02	73.65	77.26	79.86	83.40	88.29	90.30
1997	1.36	8.60	20.67	27.61	36.93	48.49	60.25	67.27	72.07	75.59	78.64	82.29	87.54	89.74	91.31
1998	1.53	8.24	14.91	24.76	37.71	54.11	63.05	69.07	73.25	76.53	80.47	86.17	88.51	90.06	91.27
1999	1.26	5.15	13.84	27.03	45.96	56.64	63.60	68.32	71.69	75.92	82.56	85.39	87.28	88.75	89.95
2000	1.24	15.18	35.56	55.90	65.50	71.34	75.11	77.58	80.89	86.04	88.39	90.11	91.58	92.76	93.70
2001	3.61	17.64	45.36	59.27	67.40	71.80	74.87	78.76	84.24	86.60	88.19	89.45	90.48	91.39	92.19
2002	3.12	27.84	45.05	55.80	62.17	66.58	71.33	78.05	81.13	83.23	84.84	86.23	87.50	88.65	89.70
2003	4.49	17.30	31.11	40.99	47.89	53.87	60.99	64.64	67.45	69.91	72.22	74.38	76.40	78.30	80.06
2004	3.41	15.07	25.96	34.15	40.98	49.08	53.38	56.80	59.90	62.82	65.57	68.16	70.59	72.87	74.83
2005	3.52	13.09	21.46	31.15	43.93	50.04	54.60	58.38	61.80	64.90	67.73	70.29	72.62	74.73	76.54
2006	3.72	12.77	24.49	36.22	41.94	46.37	50.21	53.76	57.02	60.00	62.72	65.20	67.47	69.53	71.41
2007	3.54	14.48	26.46	32.27	36.67	40.66	44.73	48.62	52.18	55.41	58.35	61.02	63.44	65.63	67.61
2008	1.78	8.24	14.27	19.29	24.02	29.18	34.33	39.12	43.57	47.70	51.51	55.04	58.30	61.30	64.06
2009	1.87	7.09	13.63	19.79	25.85	31.59	36.96	41.98	46.66	51.02	55.08	58.85	62.35	65.58	68.57
2010	1.36	7.52	16.87	25.98	34.32	41.77	48.42	54.36	59.64	64.34	68.51	72.20	75.46	78.34	80.87
2011	1.42	8.55	19.31	29.33	38.13	45.87	52.66	58.63	63.86	68.43	72.43	75.92	78.95	81.59	83.88
2012	1.44	8.89	19.76	29.66	38.35	46.00	52.73	58.65	63.84	68.39	72.37	75.85	78.88	81.51	83.80
2013	1.46	8.86	19.60	29.45	38.09	45.71	52.43	58.33	63.52	68.07	72.06	75.55	78.59	81.24	83.55
2014	1.43	8.74	19.47	29.26	37.86	45.46	52.15	58.04	63.23	67.79	71.78	75.28	78.34	81.00	83.32
2015	1.43	8.77	19.37	29.10	37.67	45.23	51.90	57.79	62.97	67.53	71.53	75.03	78.10	80.77	83.11

Conditional Claim Rates Fixed Rate 15 Year Streamline Refinance Mortgages by Credit Subsidy Endorsement Cohort

Book\Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1989	0.00	0.53	0.81	1.12	0.69	0.49	0.49	0.88	0.20	0.00	0.00	0.30	0.00	0.00	0.00
1990	0.04	0.42	0.59	0.21	0.64	0.67	0.32	0.48	0.54	0.16	0.00	0.22	0.00	0.00	0.00
1991	0.02	0.10	0.30	0.40	0.47	0.06	0.27	0.07	0.18	0.11	0.00	0.00	0.00	0.26	1.01
1992	0.00	0.07	0.13	0.23	0.20	0.14	0.26	0.18	0.07	0.15	0.03	0.04	0.00	0.00	0.00
1993	0.00	0.05	0.12	0.13	0.17	0.14	0.11	0.15	0.10	0.07	0.03	0.05	0.02	0.01	0.00
1994	0.01	0.08	0.19	0.23	0.24	0.21	0.17	0.09	0.10	0.07	0.05	0.05	0.05	0.04	0.03
1995	0.04	0.22	0.37	0.51	0.41	0.35	0.29	0.21	0.10	0.05	0.06	0.10	0.00	0.01	0.03
1996	0.00	0.09	0.20	0.29	0.43	0.33	0.21	0.14	0.24	0.12	0.10	0.06	0.01	0.02	0.02
1997	0.00	0.10	0.24	0.33	0.36	0.24	0.18	0.21	0.11	0.14	0.05	0.02	0.04	0.03	0.01
1998	0.01	0.02	0.16	0.15	0.21	0.15	0.13	0.15	0.02	0.09	0.04	0.03	0.03	0.01	0.01
1999	0.00	0.05	0.09	0.11	0.15	0.14	0.16	0.11	0.06	0.04	0.04	0.04	0.02	0.01	0.00
2000	0.00	0.08	0.14	0.24	0.36	0.14	0.22	0.20	0.05	0.11	0.09	0.04	0.02	0.01	0.01
2001	0.00	0.05	0.12	0.24	0.57	0.32	0.19	0.20	0.09	0.08	0.04	0.02	0.01	0.01	0.01
2002	0.00	0.04	0.20	0.18	0.17	0.16	0.13	0.10	0.09	0.04	0.02	0.01	0.01	0.01	0.00
2003	0.00	0.05	0.11	0.15	0.12	0.17	0.11	0.08	0.05	0.03	0.02	0.01	0.01	0.01	0.00
2004	0.01	0.06	0.17	0.14	0.16	0.12	0.10	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00
2005	0.01	0.10	0.13	0.22	0.25	0.21	0.12	0.07	0.05	0.03	0.02	0.02	0.01	0.01	0.00
2006	0.00	0.05	0.15	0.42	0.45	0.25	0.11	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00
2007	0.00	0.16	0.59	0.92	0.62	0.28	0.12	0.07	0.04	0.03	0.02	0.01	0.01	0.01	0.00
2008	0.00	0.20	0.59	0.64	0.35	0.19	0.09	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00
2009	0.01	0.11	0.26	0.23	0.14	0.11	0.09	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00
2010	0.01	0.09	0.22	0.17	0.15	0.13	0.11	0.08	0.05	0.04	0.02	0.02	0.01	0.01	0.01
2011	0.00	0.08	0.15	0.16	0.17	0.15	0.12	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01
2012	0.00	0.06	0.12	0.16	0.17	0.15	0.12	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01
2013	0.00	0.05	0.13	0.16	0.17	0.15	0.12	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01
2014	0.00	0.06	0.12	0.16	0.17	0.15	0.12	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01
2015	0.00	0.05	0.13	0.16	0.17	0.15	0.12	0.08	0.06	0.04	0.03	0.02	0.01	0.01	0.01

Conditional Prepayment Rates Fixed Rate 15 Year Streamline Refinance Mortgages by Credit Subsidy Endorsement Cohort

Book\Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1989	2.85	6.24	5.32	12.20	18.73	23.86	7.48	9.89	11.88	13.96	13.35	12.99	9.06	12.26	27.07
1990	1.63	7.35	14.72	24.97	25.28	8.92	12.20	10.55	15.40	15.24	13.98	12.03	18.53	18.69	38.70
1991	1.13	9.80	26.02	29.23	9.63	13.38	10.17	18.45	19.43	14.94	16.24	18.75	25.44	21.16	27.95
1992	1.31	11.84	18.87	7.64	11.93	10.53	15.51	18.14	11.48	15.07	20.94	24.06	22.55	22.67	30.97
1993	2.05	8.75	6.31	9.59	9.57	13.86	16.81	11.58	14.34	20.02	26.84	21.69	20.32	23.50	31.36
1994	2.09	4.45	7.56	8.16	11.60	14.21	10.18	12.86	17.01	23.88	20.69	18.79	20.60	21.03	39.21
1995	2.85	8.70	8.28	12.05	14.65	9.79	11.82	16.50	19.83	16.80	15.36	15.39	16.65	26.53	28.56
1996	1.35	4.94	9.90	14.09	9.51	12.67	17.51	26.44	22.21	17.39	18.37	15.38	23.61	32.77	26.46
1997	1.91	9.49	14.28	8.28	10.95	17.98	24.86	20.56	17.39	15.15	14.20	20.57	31.32	24.76	26.14
1998	1.65	7.71	6.62	10.12	15.84	28.16	21.67	16.65	15.65	13.30	20.50	28.60	23.65	23.14	20.74
1999	1.79	4.55	8.50	13.74	25.15	20.28	16.21	14.22	11.84	16.96	25.93	21.85	21.00	18.06	16.98
2000	2.47	9.83	15.32	24.47	22.60	16.39	15.18	13.39	16.71	26.63	20.86	22.07	22.60	23.12	24.55
2001	1.72	12.63	33.90	25.67	20.57	13.81	11.62	14.74	22.33	18.78	17.92	15.22	14.32	15.27	16.28
2002	2.86	22.27	19.38	17.03	12.88	10.22	13.00	19.79	16.55	16.01	12.94	12.75	13.62	14.54	15.52
2003	4.48	10.52	13.04	11.44	9.46	11.32	14.69	11.33	11.63	11.15	11.85	12.69	13.56	14.48	15.46
2004	3.37	9.62	10.49	8.48	10.00	15.23	10.26	10.51	10.64	11.34	12.17	13.01	13.90	14.84	15.61
2005	2.76	7.87	8.06	9.96	17.19	13.94	12.61	11.46	12.17	13.04	14.02	15.04	16.08	17.19	17.47
2006	2.67	7.03	9.20	11.43	10.44	12.02	9.35	9.66	10.36	11.08	11.95	12.80	13.67	14.61	15.59
2007	0.59	7.94	7.29	6.37	7.48	8.19	8.86	9.65	10.37	11.09	11.86	12.70	13.56	14.48	15.46
2008	1.00	4.72	4.93	5.52	6.12	9.28	9.36	9.66	10.34	11.06	11.83	12.66	13.52	14.43	15.40
2009	1.50	4.42	6.35	7.30	9.26	10.45	9.41	9.67	10.34	11.06	11.84	12.67	13.53	14.44	15.42
2010	1.15	4.80	7.60	9.47	10.80	11.93	10.74	11.00	11.74	12.52	13.35	14.24	15.15	16.11	17.13
2011	1.39	5.90	9.56	10.80	11.78	12.95	11.64	11.91	12.67	13.47	14.31	15.21	16.14	17.11	18.13
2012	1.49	6.91	10.09	10.82	11.76	12.94	11.63	11.90	12.66	13.46	14.30	15.20	16.13	17.10	18.12
2013	1.59	6.92	9.98	10.81	11.75	12.93	11.63	11.89	12.65	13.45	14.29	15.19	16.12	17.09	18.11
2014	1.52	6.85	10.09	10.81	11.76	12.93	11.63	11.89	12.65	13.45	14.30	15.20	16.13	17.10	18.12
2015	1.58	7.04	9.98	10.81	11.76	12.93	11.63	11.89	12.65	13.45	14.30	15.19	16.12	17.09	18.12

Cumulative Claim Rates Fixed Rate 15 Year Streamline Refinance Mortgages by Credit Subsidy Endorsement Cohort

Book\Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1989	0.00	0.51	1.24	2.19	2.70	2.99	3.21	3.58	3.65	3.65	3.65	3.73	3.73	3.73	3.73
1990	0.04	0.45	0.98	1.14	1.51	1.80	1.92	2.08	2.24	2.29	2.29	2.33	2.33	2.33	2.33
1991	0.02	0.12	0.38	0.65	0.87	0.89	0.99	1.01	1.06	1.08	1.08	1.08	1.08	1.11	1.18
1992	0.00	0.07	0.19	0.35	0.48	0.56	0.69	0.77	0.80	0.84	0.85	0.86	0.86	0.86	0.86
1993	0.00	0.05	0.15	0.27	0.39	0.49	0.55	0.62	0.67	0.69	0.70	0.71	0.71	0.72	0.72
1994	0.01	0.08	0.26	0.46	0.65	0.79	0.90	0.94	0.99	1.02	1.03	1.04	1.05	1.06	1.06
1995	0.04	0.25	0.58	0.99	1.29	1.49	1.65	1.75	1.79	1.80	1.82	1.84	1.84	1.84	1.85
1996	0.00	0.09	0.27	0.52	0.83	1.04	1.16	1.22	1.30	1.34	1.36	1.37	1.37	1.37	1.38
1997	0.00	0.10	0.32	0.57	0.81	0.96	1.05	1.13	1.16	1.20	1.21	1.21	1.22	1.22	1.22
1998	0.01	0.02	0.16	0.29	0.45	0.55	0.60	0.66	0.66	0.69	0.70	0.70	0.71	0.71	0.71
1999	0.00	0.05	0.13	0.23	0.34	0.42	0.49	0.53	0.55	0.56	0.57	0.58	0.58	0.58	0.58
2000	0.00	0.08	0.20	0.38	0.58	0.64	0.72	0.78	0.80	0.82	0.83	0.84	0.84	0.84	0.84
2001	0.00	0.05	0.16	0.29	0.53	0.64	0.69	0.75	0.76	0.78	0.78	0.78	0.79	0.79	0.79
2002	0.00	0.04	0.20	0.31	0.39	0.46	0.51	0.54	0.57	0.58	0.58	0.58	0.58	0.59	0.59
2003	0.00	0.04	0.13	0.25	0.33	0.43	0.48	0.52	0.54	0.55	0.55	0.56	0.56	0.56	0.56
2004	0.01	0.07	0.21	0.32	0.44	0.52	0.57	0.60	0.62	0.63	0.63	0.64	0.64	0.64	0.64
2005	0.01	0.10	0.22	0.40	0.58	0.71	0.77	0.81	0.83	0.84	0.85	0.85	0.85	0.85	0.85
2006	0.00	0.05	0.18	0.52	0.85	1.01	1.07	1.10	1.12	1.13	1.14	1.14	1.15	1.15	1.15
2007	0.00	0.16	0.70	1.48	1.96	2.16	2.24	2.28	2.31	2.32	2.33	2.34	2.34	2.34	2.34
2008	0.00	0.20	0.76	1.33	1.62	1.77	1.84	1.88	1.90	1.92	1.93	1.93	1.94	1.94	1.94
2009	0.01	0.12	0.36	0.56	0.68	0.76	0.82	0.86	0.89	0.90	0.91	0.92	0.92	0.92	0.92
2010	0.01	0.10	0.30	0.45	0.57	0.66	0.73	0.77	0.79	0.81	0.82	0.82	0.83	0.83	0.83
2011	0.00	0.08	0.22	0.36	0.48	0.58	0.65	0.69	0.72	0.73	0.74	0.75	0.75	0.75	0.75
2012	0.00	0.06	0.17	0.30	0.43	0.52	0.59	0.63	0.66	0.67	0.68	0.69	0.69	0.69	0.69
2013	0.00	0.06	0.17	0.30	0.43	0.52	0.59	0.63	0.66	0.67	0.68	0.69	0.69	0.69	0.69
2014	0.00	0.06	0.17	0.30	0.43	0.52	0.59	0.63	0.66	0.67	0.68	0.69	0.69	0.69	0.69
2015	0.00	0.06	0.17	0.30	0.42	0.52	0.59	0.63	0.66	0.67	0.68	0.68	0.69	0.69	0.69

Cumulative Prepayment Rates Fixed Rate 15 Year Streamline Refinance Mortgages by Credit Subsidy Endorsement Cohort

Book\Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1989	2.85	8.91	13.73	24.11	37.91	52.08	55.44	59.53	63.92	68.44	72.17	75.31	77.21	79.55	84.08
1990	1.63	8.86	22.20	41.39	55.92	59.71	64.41	67.96	72.57	76.41	79.39	81.59	84.57	87.02	91.14
1991	1.13	10.82	33.99	53.17	57.62	63.17	66.83	72.76	77.86	81.01	83.92	86.73	89.83	91.75	93.75
1992	1.31	12.99	29.40	34.78	42.52	48.52	56.41	64.19	68.22	72.88	78.39	83.38	86.94	89.70	92.63
1993	2.05	10.62	16.26	24.27	31.49	40.94	50.78	56.42	62.58	69.94	77.82	82.48	85.89	89.04	92.25
1994	2.09	6.44	13.52	20.55	29.72	39.61	45.68	52.55	60.46	69.67	75.73	80.10	83.98	87.13	91.76
1995	2.85	11.30	18.62	28.36	38.71	44.58	50.95	58.77	66.60	71.91	75.95	79.37	82.50	86.65	89.94
1996	1.35	6.22	15.49	27.36	34.22	42.45	52.35	64.64	72.22	76.83	80.84	83.58	87.13	90.90	92.94
1997	1.91	11.22	23.88	30.15	37.74	48.78	61.28	69.02	74.21	77.94	80.90	84.58	89.03	91.45	93.36
1998	1.65	9.23	15.24	23.80	35.82	53.77	63.67	69.62	74.27	77.61	82.06	86.99	89.90	92.07	93.57
1999	1.79	6.26	14.22	25.99	44.54	55.72	62.83	68.04	71.77	76.46	82.42	86.14	88.93	90.82	92.28
2000	2.47	12.06	25.52	43.70	56.34	63.40	68.86	72.93	77.32	83.15	86.49	89.29	91.52	93.29	94.73
2001	1.72	14.13	43.23	57.76	66.39	70.96	74.26	77.95	82.71	85.81	88.21	89.89	91.22	92.44	93.55
2002	2.86	24.49	39.12	49.45	55.92	60.39	65.48	72.21	76.72	80.36	82.82	84.94	86.91	88.73	90.39
2003	4.48	14.53	25.67	34.16	40.36	47.08	54.79	59.86	64.47	68.37	72.05	75.53	78.77	81.76	84.50
2004	3.37	12.67	21.82	28.44	35.56	45.31	50.86	55.96	60.58	64.98	69.17	73.10	76.75	80.10	83.11
2005	2.76	10.41	17.62	25.81	38.49	46.99	53.58	58.81	63.72	68.35	72.67	76.65	80.27	83.51	86.24
2006	2.67	9.51	17.83	27.20	34.74	42.48	47.77	52.71	57.49	62.08	66.47	70.62	74.48	78.04	81.29
2007	0.59	8.49	15.15	20.51	26.35	32.22	38.03	43.79	49.38	54.74	59.83	64.64	69.12	73.25	77.02
2008	1.00	5.67	10.31	15.22	20.33	27.57	34.19	40.37	46.34	52.06	57.51	62.64	67.43	71.85	75.89
2009	1.50	5.86	11.83	18.23	25.75	33.44	39.63	45.39	50.95	56.27	61.34	66.12	70.58	74.70	78.46
2010	1.15	5.89	13.03	21.24	29.70	38.02	44.61	50.62	56.33	61.70	66.70	71.32	75.54	79.35	82.75
2011	1.39	7.21	16.07	25.11	33.89	42.38	49.02	55.01	60.63	65.83	70.62	74.97	78.89	82.38	85.44
2012	1.49	8.29	17.53	26.43	35.05	43.40	49.92	55.81	61.32	66.44	71.14	75.42	79.28	82.70	85.71
2013	1.59	8.40	17.53	26.43	35.04	43.39	49.91	55.79	61.30	66.42	71.12	75.41	79.26	82.69	85.70
2014	1.52	8.27	17.52	26.42	35.04	43.39	49.91	55.80	61.31	66.43	71.13	75.42	79.27	82.70	85.71
2015	1.58	8.51	17.63	26.52	35.12	43.45	49.97	55.85	61.35	66.46	71.16	75.44	79.29	82.71	85.72

Conditional Claim Rates			Adjustable Rate Mortgages																														by Credit Subsidy Endorsement Cohort																													
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																																
1988	0.01	0.47	1.58	1.97	2.18	1.60	1.33	1.17	1.00	1.01	1.09	0.95	0.79	0.50	0.39	0.46	0.42	0.13	0.27	0.07	0.16	0.13	0.07	0.05	0.04	0.03	0.03	0.02	0.02	0.02																																
1989	0.05	0.63	1.92	2.22	2.07	1.91	1.39	1.30	1.46	1.42	0.93	1.38	1.02	0.79	0.32	0.39	0.27	0.00	0.34	0.06	0.15	0.09	0.06	0.04	0.04	0.03	0.03	0.02	0.02	0.01																																
1990	0.00	0.38	0.88	1.35	1.51	1.05	1.63	1.52	1.68	1.23	1.02	0.81	0.66	0.28	0.51	0.20	0.46	0.00	0.37	0.19	0.12	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.02																																
1991	0.02	0.19	0.73	0.94	1.21	1.43	1.83	1.74	1.53	1.49	0.75	0.48	0.56	0.43	0.15	0.11	0.22	0.25	0.23	0.13	0.09	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.02																																
1992	0.01	0.22	0.74	1.08	1.47	2.16	2.15	1.67	1.49	0.83	0.62	0.58	0.45	0.30	0.28	0.07	0.22	0.26	0.15	0.10	0.08	0.07	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02																																
1993	0.01	0.26	0.79	1.37	2.26	2.18	1.86	1.69	1.00	0.78	0.90	0.52	0.34	0.28	0.39	0.45	0.32	0.17	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.02																																
1994	0.01	0.25	0.94	2.07	2.45	2.28	1.88	1.15	0.93	0.95	0.73	0.47	0.35	0.24	0.38	0.40	0.23	0.16	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.02																																
1995	0.02	0.47	1.96	3.22	3.57	2.80	1.81	1.73	2.05	1.62	1.03	0.95	0.61	0.73	0.46	0.26	0.19	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02	0.02																																
1996	0.01	0.49	1.92	3.64	3.85	2.71	2.74	3.28	2.16	1.52	1.21	0.84	1.47	1.14	0.68	0.47	0.36	0.30	0.25	0.21	0.18	0.15	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.04																																
1997	0.03	0.66	2.30	3.36	2.97	3.30	3.62	2.63	1.68	1.46	1.13	1.71	1.31	0.77	0.55	0.42	0.36	0.30	0.25	0.21	0.18	0.15	0.13	0.10	0.09	0.07	0.06	0.05	0.04	0.04																																
1998	0.07	1.01	2.41	2.60	3.43	4.08	3.00	2.07	1.71	1.64	2.09	1.67	0.89	0.70	0.55	0.46	0.39	0.33	0.27	0.23	0.19	0.16	0.14	0.11	0.10	0.08	0.07	0.06	0.05	0.04																																
1999	0.03	0.35	1.00	2.11	3.33	3.01	2.21	1.82	1.68	1.99	2.12	1.28	0.86	0.66	0.54	0.45	0.38	0.32	0.27	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04																																
2000	0.02	0.57	1.82	3.52	3.15	2.51	2.10	2.33	3.22	2.68	1.58	1.15	0.81	0.65	0.54	0.45	0.38	0.32	0.27	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04																																
2001	0.06	0.73	2.01	2.48	2.17	2.36	2.13	3.14	3.82	2.30	1.55	1.12	0.83	0.65	0.54	0.45	0.37	0.32	0.27	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04																																
2002	0.01	0.33	1.66	1.91	2.30	2.88	5.14	5.73	3.60	2.44	1.67	1.21	0.89	0.69	0.56	0.46	0.38	0.32	0.27	0.23	0.19	0.16	0.14	0.11	0.10	0.08	0.07	0.06	0.05	0.04																																
2003	0.03	0.64	1.50	2.24	3.49	5.97	7.98	4.89	3.65	2.39	1.70	1.25	0.92	0.73	0.60	0.50	0.41	0.35	0.29	0.25	0.21	0.17	0.15	0.12	0.10	0.09	0.07	0.06	0.05	0.04																																
2004	0.06	0.57	1.67	3.21	6.61	10.41	7.04	4.80	3.20	2.28	1.64	1.21	0.90	0.73	0.60	0.50	0.42	0.35	0.30	0.25	0.21	0.18	0.15	0.12	0.10	0.09	0.07	0.06	0.05	0.04																																
2005	0.05	0.82	2.60	6.39	14.47	10.36	7.17	4.95	3.49	2.49	1.77	1.26	0.92	0.72	0.59	0.49	0.41	0.34	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04																																
2006	0.03	1.25	3.81	11.03	9.06	7.65	6.05	4.05	2.84	2.00	1.41	1.02	0.73	0.57	0.47	0.39	0.33	0.28	0.23	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03																																
2007	0.02	1.10	5.09	7.09	8.30	7.97	5.84	3.77	2.68	1.93	1.40	0.97	0.71	0.57	0.47	0.40	0.34	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03																																
2008	0.01	0.87	3.43	6.14	6.41	4.90	3.43	2.55	1.93	1.42	0.99	0.76	0.62	0.52	0.44	0.37	0.31	0.26	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.05	0.05	0.04	0.03																																
2009	0.01	0.45	1.73	2.25	2.26	2.06	1.73	1.30	1.04	0.85	0.72	0.61	0.51	0.43	0.36	0.30	0.26	0.21	0.18	0.15	0.13	0.11	0.09	0.07	0.06	0.05	0.04	0.04	0.03	0.03																																
2010	0.01	0.36	1.23	1.77	1.89	1.77	1.45	1.20	1.02	0.87	0.74	0.62	0.53	0.44	0.37	0.31	0.26	0.22	0.19	0.16	0.13	0.11	0.09	0.08	0.06	0.05	0.05	0.04	0.03	0.03																																
2011	0.01	0.26	0.98	1.53	1.67	1.53	1.38	1.19	1.05	0.90	0.76	0.64	0.54	0.46	0.38	0.32	0.27	0.23	0.19	0.16	0.13	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.03																																
2012	0.01	0.23	0.91	1.45	1.55	1.51	1.38	1.21	1.07	0.92	0.78	0.66	0.55	0.47	0.39	0.33	0.28	0.23	0.20	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03																																
2013	0.01	0.24	0.93	1.46	1.61	1.52	1.41	1.24	1.09	0.93	0.79	0.67	0.56	0.47	0.40	0.33	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03																																
2014	0.01	0.24	0.94	1.51	1.59	1.54	1.43	1.25	1.11	0.95	0.80	0.68	0.57	0.48	0.40	0.34	0.29	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03																																
2015	0.01	0.24	0.96	1.49	1.63	1.56	1.45	1.27	1.12	0.96	0.82	0.69	0.58	0.49	0.41	0.34	0.29	0.24	0.20	0.17	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.03																																

Conditional Prepayment Rates			Adjustable Rate Mortgages										by Credit Subsidy Endorsement Cohort																										
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1988	0.39	1.88	4.89	7.09	10.04	14.16	12.70	6.57	9.09	8.73	13.39	14.58	10.33	14.97	14.73	16.57	12.71	11.38	12.87	7.98	9.43	11.68	8.42	4.92	4.96	4.68	4.42	4.17	3.94	3.72									
1989	0.53	2.88	6.02	9.63	14.48	12.85	7.34	9.19	8.56	14.31	15.39	9.49	14.20	17.80	16.33	13.43	11.91	11.11	9.98	9.98	12.05	8.80	5.31	5.19	4.90	4.63	4.37	4.12	3.89	3.67									
1990	0.47	2.62	6.00	11.50	12.20	8.77	13.62	10.88	17.30	16.11	12.52	17.19	19.32	19.03	15.90	11.45	14.58	8.99	10.77	13.98	9.73	5.54	5.57	5.26	4.97	4.69	4.43	4.18	3.95	3.73									
1991	0.37	2.51	7.13	9.79	7.65	11.95	12.00	17.22	18.80	12.81	20.78	22.31	23.69	19.77	15.10	20.29	14.04	11.18	14.10	9.82	5.76	5.90	5.58	5.27	4.98	4.70	4.44	4.19	3.95	3.73									
1992	0.38	3.55	7.21	7.39	13.26	12.29	19.84	20.12	13.23	20.84	22.98	25.71	21.02	16.44	16.61	14.19	15.18	17.70	12.53	7.64	7.57	7.15	6.76	6.39	6.03	5.70	5.38	5.08	4.80	4.53									
1993	0.89	4.53	6.17	13.32	11.67	19.92	20.55	12.94	23.27	25.39	27.87	23.47	18.89	16.82	15.97	15.60	18.14	12.85	7.87	7.96	7.53	7.11	6.72	6.35	6.00	5.66	5.35	5.05	4.77	4.50									
1994	0.59	2.89	10.25	11.43	21.05	20.54	13.15	24.76	26.33	29.66	25.15	20.71	18.69	16.39	15.73	19.34	13.73	8.41	8.42	7.96	7.52	7.11	6.72	6.35	6.00	5.66	5.35	5.05	4.77	4.50									
1995	2.02	10.77	14.63	27.37	21.79	13.20	24.26	25.24	27.52	25.16	22.44	20.56	17.31	16.25	19.99	14.30	8.79	8.84	8.36	7.90	7.47	7.05	6.67	6.30	5.95	5.62	5.30	5.01	4.73	4.46									
1996	1.08	6.93	32.55	30.56	15.43	28.76	25.97	26.55	25.32	22.64	20.67	18.54	20.17	27.91	20.25	12.55	12.65	11.98	11.34	10.73	10.15	9.60	9.08	8.58	8.11	7.66	7.24	6.84	6.46	6.10									
1997	1.85	22.55	32.69	17.18	32.58	25.24	25.57	23.99	21.35	20.98	18.74	20.82	29.12	21.20	13.25	13.32	12.61	11.94	11.30	10.69	10.11	9.56	9.04	8.54	8.07	7.63	7.21	6.81	6.43	6.07									
1998	5.92	24.74	17.82	37.50	28.31	26.95	25.37	23.57	22.14	19.97	21.63	28.29	20.96	13.81	13.89	13.16	12.46	11.80	11.16	10.56	9.98	9.44	8.92	8.43	7.97	7.53	7.11	6.72	6.34	5.99									
1999	2.12	5.01	30.44	29.38	28.76	24.64	25.75	25.97	25.28	25.85	32.17	23.80	14.59	15.14	14.49	13.77	13.06	12.36	11.70	11.07	10.47	9.91	9.37	8.85	8.37	7.91	7.47	7.06	6.67	6.30									
2000	1.34	31.44	29.19	27.53	23.33	25.91	25.16	25.38	25.86	30.30	23.25	15.23	15.46	14.95	14.26	13.57	12.87	12.18	11.53	10.91	10.32	9.76	9.22	8.72	8.24	7.79	7.36	6.95	6.56	6.20									
2001	12.13	22.16	27.63	23.46	27.37	28.29	28.37	25.63	28.03	21.53	13.91	15.20	15.37	15.05	14.41	13.72	13.04	12.34	11.68	11.05	10.45	9.89	9.35	8.83	8.35	7.89	7.45	7.04	6.65	6.28									
2002	3.71	26.32	22.48	29.24	30.39	31.84	26.96	24.50	19.18	12.83	14.27	14.76	15.01	14.80	14.24	13.60	12.96	12.27	11.62	10.99	10.40	9.84	9.30	8.79	8.31	7.86	7.42	7.01	6.63	6.26									
2003	9.08	18.41	30.28	32.87	32.52	26.76	22.69	17.76	12.41	13.51	14.45	14.74	14.94	14.56	13.97	13.32	12.65	11.97	11.33	10.72	10.14	9.59	9.06	8.57	8.10	7.65	7.23	6.83	6.45	6.09									
2004	4.29	24.81	31.85	33.43	28.23	21.93	16.81	11.02	12.56	13.78	14.61	14.97	15.02	14.47	13.82	13.14	12.46	11.80	11.16	10.56	9.99	9.45	8.93	8.44	7.98	7.54	7.12	6.73	6.35	5.64									
2005	5.54	17.94	22.75	27.11	17.14	11.69	7.45	9.07	10.57	11.80	12.73	13.20	13.30	12.87	12.17	11.47	10.79	10.13	9.52	8.94	8.41	7.90	7.43	6.99	6.57	6.18	5.82	5.48	5.15	4.71									
2006	2.85	12.38	20.40	11.38	7.78	4.43	5.38	6.60	7.84	8.90	9.95	10.49	10.92	10.72	10.26	9.71	9.17	8.66	8.18	7.72	7.28	6.87	6.48	6.12	5.77	5.44	5.13	4.84	4.57	4.31									
2007	1.85	11.44	8.64	7.28	4.36	4.56	5.57	6.90	8.06	9.15	10.12	11.04	11.19	10.85	10.30	9.73	9.19	8.68	8.19	7.74	7.30	6.89	6.50	6.13	5.79	5.46	5.15	4.86	4.58	4.32									
2008	1.54	6.38	8.51	6.00	6.24	6.91	8.02	8.96	10.17	11.37	12.45	12.42	11.86	11.22	10.60	10.01	9.45	8.93	8.43	7.95	7.51	7.08	6.69	6.31	5.95	5.61	5.30	5.00	4.71	4.44									
2009	2.34	10.42	11.24	11.61	11.40	10.92	11.60	12.68	13.37	13.46	13.14	12.50	11.82	11.17	10.55	9.97	9.41	8.89	8.39	7.92	7.48	7.06	6.66	6.28	5.93	5.59	5.28	4.98	4.70	4.43									
2010	1.62	9.09	13.54	13.98	13.18	12.38	13.12	13.31	13.49	13.30	12.97	12.34	11.67	11.03	10.42	9.84	9.29	8.77	8.28	7.82	7.38	6.96	6.57	6.20	5.85	5.52	5.21	4.91	4.63	4.37									
2011	1.47	9.90	15.50	15.60	14.47	13.58	13.47	13.34	13.34	13.14	12.82	12.20	11.53	10.90	10.30	9.73	9.18	8.67	8.19	7.73	7.29	6.88	6.50	6.13	5.78	5.46	5.15	4.85	4.58	4.32									
2012	1.52	10.71	16.31	16.26	15.18	13.70	13.49	13.24	13.22	13.03	12.71	12.10	11.43	10.81	10.21	9.64	9.11	8.60	8.12	7.66	7.23	6.82	6.44	6.08	5.73	5.41	5.10	4.81	4.54	4.28									
2013	1.57	10.63	16.13	16.25	14.89	13.68	13.38	13.15	13.13	12.94	12.63	12.02	11.36	10.73	10.14	9.58	9.05	8.54	8.06	7.61	7.18	6.78	6.40	6.04	5.69	5.37	5.07	4.78	4.51	4.25									
2014	1.52	10.54	16.17	15.98	15.03	13.59	13.31	13.07	13.05	12.86	12.55	11.94	11.29	10.67	10.08	9.52	8.99	8.49	8.01	7.56	7.14	6.73	6.36	6.00	5.66	5.34	5.03	4.75	4.48	4.23									
2015	1.54	10.60	15.94	16.20	14.88	13.52	13.22	12.99	12.98	12.79	12.48	11.87	11.22	10.61	10.02	9.46	8.94	8.44	7.96	7.52	7.10	6.70	6.32	5.96	5.62	5.31	5.01	4.72	4.45	4.20									

Cumulative Claim Rates			Adjustable Rate Mortgages																														by Credit Subsidy Endorsement Cohort																													
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																																
1988	0.01	0.48	2.02	3.81	5.62	6.78	7.59	8.21	8.70	9.14	9.57	9.88	10.11	10.23	10.32	10.40	10.47	10.48	10.52	10.52	10.54	10.55	10.55	10.56	10.56	10.56	10.56	10.56	10.56	10.57																																
1989	0.05	0.67	2.51	4.47	6.09	7.32	8.10	8.75	9.41	9.99	10.31	10.71	10.97	11.14	11.20	11.25	11.29	11.29	11.32	11.33	11.34	11.34	11.35	11.35	11.35	11.35	11.36	11.36	11.36	11.36																																
1990	0.00	0.38	1.23	2.44	3.63	4.34	5.34	6.12	6.88	7.33	7.64	7.85	7.99	8.04	8.11	8.14	8.18	8.18	8.21	8.23	8.23	8.24	8.24	8.24	8.24	8.24	8.25	8.25	8.25	8.25																																
1991	0.02	0.21	0.91	1.76	2.72	3.76	4.92	5.86	6.53	7.06	7.28	7.39	7.49	7.55	7.57	7.58	7.60	7.61	7.62	7.63	7.63	7.64	7.64	7.64	7.64	7.64	7.64	7.65	7.65	7.65																																
1992	0.01	0.23	0.93	1.88	3.07	4.56	5.83	6.60	7.14	7.39	7.54	7.65	7.71	7.74	7.76	7.77	7.78	7.80	7.80	7.81	7.81	7.81	7.81	7.81	7.82	7.82	7.82	7.82	7.82	7.82																																
1993	0.01	0.27	1.01	2.21	3.90	5.31	6.24	6.90	7.24	7.43	7.60	7.67	7.71	7.73	7.75	7.78	7.79	7.80	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.82	7.82	7.82	7.82																																
1994	0.01	0.25	1.16	2.93	4.74	6.03	6.85	7.28	7.54	7.73	7.83	7.87	7.90	7.92	7.94	7.96	7.97	7.97	7.97	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.98	7.99	7.99	7.99																																
1995	0.02	0.48	2.19	4.53	6.32	7.38	7.95	8.35	8.70	8.90	8.99	9.05	9.08	9.11	9.13	9.14	9.14	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.16	9.16	9.16	9.16																																
1996	0.01	0.49	2.25	4.43	5.95	6.82	7.42	7.93	8.16	8.28	8.36	8.39	8.45	8.48	8.50	8.51	8.51	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.53	8.53	8.53	8.53																																
1997	0.03	0.67	2.41	4.06	5.21	6.04	6.69	7.02	7.18	7.28	7.34	7.42	7.47	7.48	7.49	7.50	7.51	7.51	7.51	7.51	7.51	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52																																
1998	0.07	1.02	2.70	4.15	5.29	6.22	6.69	6.92	7.07	7.17	7.28	7.34	7.36	7.38	7.39	7.40	7.40	7.40	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41	7.41																																
1999	0.03	0.37	1.30	2.63	4.08	4.97	5.45	5.73	5.91	6.08	6.20	6.25	6.27	6.29	6.30	6.31	6.31	6.32	6.32	6.32	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33	6.33																																
2000	0.02	0.58	1.79	3.42	4.43	5.02	5.37	5.65	5.94	6.11	6.17	6.21	6.23	6.24	6.25	6.26	6.27	6.27	6.27	6.27	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28																																
2001	0.06	0.70	2.06	3.25	4.01	4.60	4.97	5.34	5.67	5.80	5.87	5.91	5.94	5.96	5.97	5.98	5.98	5.99	5.99	5.99	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00																																
2002	0.01	0.32	1.49	2.52	3.37	4.08	4.91	5.54	5.82	5.96	6.05	6.10	6.13	6.15	6.16	6.17	6.18	6.19	6.19	6.19	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20																																
2003	0.03	0.62	1.72	2.85	3.98	5.23	6.35	6.82	7.10	7.25	7.34	7.39	7.43	7.45	7.46	7.48	7.48	7.49	7.49	7.50	7.50	7.50	7.50	7.50	7.50	7.51	7.51	7.51	7.51	7.51																																
2004	0.06	0.61	1.80	3.32	5.31	7.35	8.28	8.77	9.04	9.20	9.30	9.36	9.40	9.42	9.44	9.46	9.46	9.47	9.48	9.48	9.48	9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.49																																
2005	0.05	0.83	2.82	6.48	11.99	14.69	16.14	17.00	17.52	17.84	18.03	18.15	18.23	18.28	18.31	18.34	18.35	18.37	18.38	18.39	18.39	18.40	18.40	18.40	18.40	18.40	18.41	18.41	18.41	18.41																																
2006	0.03	1.25	4.44	11.45	15.92	19.06	21.24	22.53	23.34	23.85	24.17	24.38	24.51	24.60	24.66	24.71	24.75	24.78	24.80	24.82	24.83	24.84	24.85	24.85	24.86	24.86	24.87	24.87	24.87	24.87																																
2007	0.02	1.10	5.47	10.72	15.98	20.39	23.22	24.84	25.87	26.53	26.95	27.21	27.38	27.50	27.59	27.66	27.71	27.74	27.77	27.79	27.81	27.83	27.84	27.84	27.85	27.86	27.86	27.86	27.87	27.87																																
2008	0.01	0.87	3.99	8.93	13.46	16.48	18.35	19.58	20.41	20.94	21.26	21.48	21.63	21.74	21.83	21.89	21.94	21.97	22.00	22.02	22.04	22.05	22.06	22.07	22.07	22.08	22.08	22.08	22.09	22.09																																
2009	0.01	0.45	1.96	3.66	5.14	6.30	7.15	7.70	8.08	8.35	8.54	8.68	8.78	8.85	8.91	8.95	8.99	9.01	9.03	9.04	9.05	9.06	9.07	9.07	9.08	9.08	9.08	9.09	9.09																																	
2010	0.01	0.37	1.46	2.81	4.02	4.98	5.65	6.13	6.48	6.73	6.91	7.05	7.15	7.22	7.28	7.32	7.35	7.37	7.39	7.40	7.41	7.42	7.43	7.43	7.44	7.44	7.44	7.45	7.45																																	
2011	0.01	0.27	1.13	2.27	3.29	4.08	4.68	5.12	5.45	5.70	5.88	6.01	6.10	6.17	6.22	6.26	6.29	6.32	6.33	6.35	6.36	6.36	6.37	6.38	6.38	6.38	6.39	6.39	6.39	6.39																																
2012	0.01	0.24	1.04	2.09	3.02	3.77	4.35	4.78	5.11	5.35	5.53	5.66	5.75	5.82	5.88	5.92	5.94	5.97	5.98	6.00	6.01	6.02	6.02	6.03	6.03	6.03	6.04	6.04	6.04	6.04																																
2013	0.01	0.24	1.05	2.12	3.08	3.84	4.44	4.89	5.22	5.47	5.65	5.79	5.88	5.95	6.01	6.05	6.08	6.10	6.12	6.13	6.14	6.15	6.16	6.16	6.17	6.17	6.17	6.18	6.18	6.18																																
2014	0.01	0.24	1.07	2.17	3.12	3.90	4.50	4.96	5.30	5.55	5.74	5.87	5.97	6.05	6.10	6.14	6.17	6.20	6.22	6.23	6.24	6.25	6.26	6.26	6.26	6.27	6.27	6.27	6.28	6.28																																
2015	0.01	0.24	1.09	2.17	3.15	3.93	4.55	5.01	5.36	5.62	5.80	5.94	6.04	6.12	6.17	6.22	6.25	6.27	6.29	6.31	6.32	6.33	6.33	6.34	6.34	6.35	6.35	6.35	6.35	6.35																																

Cumulative Prepayment Rates			Adjustable Rate Mortgages					by Credit Subsidy Endorsement Cohort																											
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
1988	0.39	2.27	7.02	13.47	21.78	32.06	39.82	43.28	47.69	51.50	56.77	61.68	64.61	68.40	71.55	74.55	76.46	77.95	79.44	80.24	81.11	82.09	82.71	83.04	83.36	83.64	83.90	84.13	84.34	84.53					
1989	0.53	3.40	9.17	17.68	28.95	37.30	41.36	46.01	49.88	55.71	60.99	63.71	67.34	71.20	74.09	76.06	77.57	78.81	79.80	80.69	81.65	82.27	82.61	82.92	83.20	83.45	83.68	83.88	84.07	84.24					
1990	0.47	3.08	8.87	19.21	28.77	34.70	43.00	48.62	56.45	62.36	66.15	70.66	74.81	78.08	80.29	81.62	83.11	83.89	84.75	85.73	86.32	86.62	86.91	87.16	87.39	87.60	87.78	87.95	88.10	88.23					
1991	0.37	2.88	9.78	18.53	24.62	33.30	40.86	50.20	58.46	62.94	69.18	74.43	78.74	81.46	83.12	85.01	86.05	86.76	87.55	88.03	88.28	88.52	88.73	88.92	89.09	89.25	89.39	89.51	89.62	89.72					
1992	0.38	3.91	10.82	17.34	28.05	36.51	48.21	57.45	62.21	68.60	74.11	78.83	81.67	83.42	84.89	85.93	86.89	87.83	88.38	88.67	88.94	89.17	89.37	89.55	89.71	89.85	89.98	90.09	90.19	90.28					
1993	0.89	5.38	11.20	22.90	31.63	44.47	54.79	59.83	67.57	73.97	79.15	82.26	84.16	85.53	86.61	87.49	88.35	88.84	89.11	89.35	89.57	89.75	89.92	90.06	90.19	90.30	90.40	90.49	90.57	90.64					
1994	0.59	3.46	13.33	23.11	38.67	50.29	56.04	65.23	72.47	78.40	81.89	84.02	85.53	86.61	87.47	88.36	88.86	89.13	89.37	89.59	89.77	89.93	90.07	90.19	90.30	90.40	90.49	90.56	90.63	90.69					
1995	2.02	12.57	25.28	45.14	56.11	61.06	68.72	74.61	79.30	82.32	84.29	85.67	86.59	87.29	88.01	88.42	88.63	88.83	89.00	89.14	89.27	89.38	89.48	89.57	89.64	89.71	89.77	89.82	89.87	89.92					
1996	1.08	7.93	37.74	56.08	62.17	71.34	77.01	81.15	83.91	85.71	86.95	87.82	88.58	89.41	89.84	90.05	90.23	90.38	90.51	90.61	90.70	90.77	90.84	90.89	90.94	90.98	91.02	91.05	91.08	91.10					
1997	1.85	23.97	48.61	57.02	69.70	76.04	80.62	83.66	85.65	87.16	88.20	89.13	90.13	90.64	90.89	91.11	91.28	91.43	91.55	91.65	91.73	91.80	91.87	91.92	91.96	92.00	92.04	92.07	92.09	92.12					
1998	5.92	29.18	41.62	62.50	71.94	78.08	82.06	84.71	86.56	87.83	88.91	89.99	90.55	90.84	91.09	91.29	91.45	91.59	91.70	91.79	91.87	91.94	92.00	92.05	92.09	92.13	92.16	92.19	92.21	92.24					
1999	2.12	7.02	35.21	53.87	66.38	73.66	79.16	83.16	85.97	88.07	89.95	90.87	91.29	91.66	91.95	92.19	92.39	92.55	92.68	92.79	92.89	92.96	93.03	93.09	93.14	93.18	93.21	93.25	93.28	93.30					
2000	1.34	32.36	51.94	64.68	72.12	78.20	82.42	85.52	87.80	89.70	90.68	91.16	91.56	91.89	92.16	92.37	92.55	92.69	92.81	92.91	93.00	93.07	93.13	93.18	93.22	93.26	93.30	93.33	93.35	93.38					
2001	12.13	31.59	50.30	61.47	71.13	78.16	83.05	86.12	88.51	89.77	90.38	90.95	91.43	91.83	92.15	92.41	92.62	92.79	92.93	93.05	93.15	93.23	93.31	93.37	93.42	93.47	93.51	93.54	93.57	93.60					
2002	3.71	29.05	44.92	60.59	71.80	79.71	84.08	86.78	88.25	89.01	89.73	90.35	90.88	91.33	91.69	91.98	92.22	92.41	92.58	92.71	92.83	92.92	93.00	93.07	93.13	93.19	93.23	93.27	93.31	93.34					
2003	9.08	25.81	48.09	64.58	75.18	80.75	83.93	85.66	86.59	87.45	88.21	88.87	89.43	89.89	90.26	90.56	90.81	91.01	91.18	91.33	91.44	91.55	91.63	91.71	91.77	91.83	91.87	91.92	91.95	91.99					
2004	4.29	28.02	50.75	66.61	75.10	79.40	81.63	82.74	83.80	84.79	85.67	86.42	87.05	87.57	87.98	88.32	88.60	88.83	89.02	89.18	89.31	89.42	89.52	89.61	89.68	89.74	89.80	89.84	89.89	89.92					
2005	5.54	22.48	39.93	55.45	61.98	65.02	66.53	68.10	69.68	71.19	72.58	73.82	74.89	75.78	76.50	77.10	77.59	78.00	78.35	78.64	78.89	79.10	79.29	79.45	79.59	79.72	79.83	79.92	80.01	80.08					
2006	2.85	14.88	31.99	39.22	43.06	44.88	46.82	48.92	51.16	53.43	55.69	57.80	59.75	61.44	62.87	64.08	65.11	65.99	66.74	67.39	67.96	68.46	68.89	69.27	69.61	69.91	70.18	70.42	70.64	70.83					
2007	1.85	13.08	20.49	25.88	28.65	31.17	33.87	36.83	39.92	43.05	46.13	49.10	51.75	54.01	55.92	57.52	58.88	60.05	61.05	61.91	62.66	63.32	63.90	64.40	64.85	65.25	65.61	65.92	66.21	66.46					
2008	1.54	7.82	15.59	20.41	24.82	29.08	33.45	37.77	42.11	46.37	50.44	53.95	56.87	59.28	61.29	62.98	64.41	65.63	66.67	67.58	68.36	69.04	69.63	70.16	70.62	71.03	71.40	71.72	72.01	72.28					
2009	2.34	12.52	22.30	31.09	38.52	44.68	50.37	55.75	60.64	64.85	68.37	71.26	73.63	75.60	77.24	78.62	79.79	80.79	81.64	82.38	83.02	83.58	84.07	84.50	84.88	85.22	85.52	85.79	86.03	86.25					
2010	1.62	10.57	22.63	33.24	41.67	48.39	54.51	59.82	64.41	68.28	71.52	74.19	76.37	78.19	79.71	80.99	82.08	83.01	83.80	84.49	85.09	85.61	86.07	86.47	86.83	87.15	87.43	87.68	87.91	88.11					
2011	1.47	11.22	24.94	36.47	45.33	52.31	58.19	63.14	67.38	70.95	73.94	76.40	78.43	80.12	81.53	82.72	83.73	84.60	85.34	85.98	86.54	87.03	87.46	87.84	88.17	88.47	88.74	88.97	89.19	89.38					
2012	1.52	12.07	26.37	38.18	47.25	54.06	59.75	64.50	68.56	71.99	74.87	77.25	79.20	80.83	82.19	83.34	84.32	85.16	85.88	86.50	87.04	87.52	87.93	88.30	88.62	88.91	89.17	89.40	89.61	89.80					
2013	1.57	12.03	26.18	38.01	46.92	53.76	59.43	64.18	68.24	71.68	74.56	76.94	78.90	80.54	81.91	83.06	84.05	84.89	85.62	86.25	86.79	87.27	87.69	88.06	88.39	88.69	88.95	89.18	89.39	89.58					
2014	1.52	11.90	26.10	37.74	46.77	53.58	59.24	63.98	68.03	71.46	74.35	76.72	78.69	80.33	81.70	82.86	83.85	84.70	85.42	86.06	86.61	87.09	87.51	87.89	88.22	88.51	88.77	89.01	89.22	89.41					
2015	1.54	11.98	25.97	37.79	46.72	53.50	59.13	63.85	67.89	71.31	74.19	76.57	78.53	80.16	81.54	82.70	83.69	84.54	85.27	85.91	86.46	86.94	87.37	87.74	88.08	88.37	88.64	88.87	89.09	89.28					

Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1991	0.00	0.00	1.68	0.95	0.00	3.61	4.29	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1992	0.00	0.17	0.43	0.49	0.90	0.97	0.86	0.96	0.61	0.26	0.24	0.21	0.14	0.00	0.00	0.22	0.02	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1993	0.02	0.27	0.84	1.42	2.09	1.64	1.35	1.19	0.54	0.44	0.29	0.12	0.08	0.00	0.43	0.03	0.06	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1994	0.02	0.53	1.85	3.07	2.88	2.45	1.59	0.82	0.60	0.30	0.30	0.11	0.10	0.00	0.08	0.07	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.15	1.34	3.15	2.75	2.88	2.75	0.94	0.56	0.85	0.16	0.20	0.24	0.56	0.38	0.10	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1996	0.01	0.50	2.17	3.69	2.88	1.35	1.66	0.76	1.09	0.84	0.88	0.29	0.49	0.33	0.19	0.14	0.11	0.08	0.06	0.05	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
1997	0.04	0.74	2.62	3.79	2.50	1.86	1.80	0.98	1.18	0.90	0.89	0.94	0.43	0.25	0.18	0.14	0.11	0.08	0.06	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
1998	0.06	0.54	1.62	1.64	1.88	1.88	1.85	1.20	0.58	0.31	1.26	0.55	0.33	0.24	0.18	0.14	0.10	0.08	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
1999	0.00	0.21	0.55	1.11	2.51	1.63	1.39	0.63	1.14	0.86	0.86	0.49	0.34	0.27	0.20	0.15	0.11	0.08	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2000	0.02	0.43	1.72	4.07	2.84	2.81	1.73	1.66	1.68	1.07	0.64	0.45	0.34	0.25	0.18	0.14	0.10	0.08	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2001	0.00	0.28	2.76	3.46	2.94	2.75	1.86	3.37	2.75	1.57	1.03	0.72	0.45	0.29	0.20	0.15	0.11	0.08	0.06	0.05	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2002	0.01	0.46	1.69	1.98	2.37	2.94	4.14	6.12	3.56	2.25	1.41	0.81	0.47	0.30	0.21	0.15	0.11	0.08	0.06	0.05	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2003	0.03	0.78	1.94	2.50	2.90	5.15	8.02	5.15	3.46	2.18	1.19	0.70	0.40	0.27	0.19	0.14	0.10	0.08	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00
2004	0.07	1.01	2.54	3.51	5.87	10.04	7.65	5.07	3.34	1.88	1.04	0.60	0.35	0.25	0.18	0.13	0.10	0.07	0.06	0.04	0.03									

Conditional Prepayment Rates				Adjustable Rate Streamline Refinance Mortgages										by Credit Subsidy Endorsement Cohort																									
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1991	0.78	6.30	10.08	11.43	9.78	12.05	11.43	28.81	19.51	21.21	23.08	35.00	38.46	25.00	50.00	0.00	33.33	0.00	20.44	14.27	13.54	15.39	15.11	14.83	14.56	14.29	14.03	13.77	13.52	13.27									
1992	0.97	8.02	12.28	11.05	16.92	13.17	20.73	20.57	13.94	19.06	20.87	25.23	17.06	12.96	13.93	13.53	17.90	19.64	14.76	14.09	15.43	15.15	14.87	14.59	14.32	14.06	13.80	13.54	13.28	13.04									
1993	2.89	10.09	9.18	13.10	11.57	18.40	18.60	14.48	23.59	25.78	29.67	20.58	15.63	16.02	12.86	16.25	19.25	15.00	14.01	15.66	15.37	15.10	14.82	14.55	14.28	14.01	13.76	13.50	13.25	13.00									
1994	3.64	7.06	11.36	10.34	15.99	16.82	12.61	20.86	23.17	28.20	22.25	18.94	17.07	14.76	15.70	18.75	15.64	14.57	15.90	15.61	15.33	15.05	14.77	14.50	14.23	13.98	13.72	13.47	13.21	12.96									
1995	4.48	17.47	13.73	20.15	15.91	12.39	21.44	22.98	23.27	19.81	15.77	14.73	15.64	15.28	19.10	15.69	14.42	16.13	15.83	15.54	15.25	14.96	14.68	14.41	14.13	13.87	13.60	13.35	13.09	12.84									
1996	4.56	21.33	39.78	32.69	15.84	27.30	27.91	29.97	27.03	22.60	22.47	16.09	24.60	34.65	27.29	25.94	28.33	27.85	27.37	26.90	26.43	25.97	25.51	25.06	24.61	24.18	23.74	23.32	22.90	22.49									
1997	8.95	42.90	36.05	17.40	30.35	26.88	31.76	26.41	24.03	22.62	20.12	22.98	34.15	27.67	26.24	28.63	28.12	27.62	27.12	26.63	26.14	25.66	25.18	24.71	24.25	23.73	23.33	22.89	22.38	21.99									
1998	15.69	42.74	22.52	40.84	33.58	35.31	29.96	29.39	24.74	23.27	25.77	33.79	28.71	27.23	29.19	28.76	28.29	27.80	27.32	26.84	26.37	25.90	25.43	24.97	24.52	24.08	23.63	23.20	22.76	22.33									
1999	5.90	11.87	33.29	30.59	32.92	28.62	28.82	27.72	23.64	28.00	35.98	27.55	26.46	29.63	29.19	28.68	28.28	27.79	27.31	26.84	26.37	25.91	25.45	25.00	24.55	24.10	23.66	23.23	22.81	22.40									
2000	3.46	22.99	21.86	19.99	21.32	22.85	27.20	26.66	25.47	33.29	28.70	26.80	29.67	29.38	28.93	28.45	27.95	27.46	26.97	26.49	26.02	25.55	25.09	24.64	24.19	23.75	23.31	22.88	22.46	22.04									
2001	5.21	30.53	27.26	24.82	28.72	28.30	26.03	27.50	30.66	24.37	23.44	27.41	28.59	28.77	28.78	28.51	28.07	27.57	27.09	26.60	26.13	25.65	25.19	24.73	24.27	23.82	23.38	22.94	22.51	22.08									
2002	8.24	32.87	26.39	30.60	30.64	31.33	29.05	27.44	21.65	21.25	24.92	26.69	28.26	28.70	28.78	28.64	28.28	27.81	27.35	26.89	26.44	25.99	25.54	25.11	24.67	24.25	23.83	23.41	23.00	22.59									
2003	13.86	25.74	32.46	33.60	32.52	28.78	25.35	21.50	20.83	24.07	25.60	27.26	28.80	28.99	28.77	28.60	28.14	27.67	27.21	26.76	26.31	25.87	25.43	25.00	24.57	24.15	23.73	23.32	22.91	22.51									
2004	8.07	27.74	29.78	29.33	27.89	22.19	19.07	18.71	22.43	24.54	26.14	28.18	29.33	29.21	28.92	28.59	28.14	27.67	27.21	26.76	26.31	25.86	25.42	24.98	24.55	24.13	23.71	23.30	22.89	21.13									
2005	11.40	22.65	22.14	26.93	17.76	13.89	15.01	19.49	22.53	25.15	27.35	29.99	31.15	31.16	30.83	30.48	29.95	29.41	28.89	28.38	27.89	27.40	26.90	26.42	25.95	25.50	25.04	24.59	24.15	22.35									
2006	7.51	16.92	23.53	10.55	8.55	8.06	12.23	16.26	19.11	21.76	24.70	27.34	28.71	28.76	28.86	28.36	27.87	27.38	26.89	26.41	25.94	25.47	25.00	24.54	24.09	23.65	23.21	22.77	22.35	21.92									
2007	7.14	19.46	8.71	6.96	5.81	6.75	11.17	16.51	19.29	21.57	24.29	28.32	29.58	29.57	29.15	28.67	28.19	27.72	27.25	26.79	26.33	25.88	25.43	24.99	24.56	24.13	23.71	23.29	22.88	22.48									
2008	5.16	9.52	8.10	6.71	7.92	11.08	16.77	20.09	22.22	25.21	28.36	30.41	30.11	29.63	29.15	28.67	28.20	27.73	27.27	26.81	26.36	25.91	25.47	25.04	24.61	24.18	23.76	23.35	22.94	22.54									
2009	6.25	13.58	12.72	16.16	18.76	19.70	23.63	28.16	31.07	31.46	30.98	30.51	30.03	29.55	29.07	28.59	28.12	27.65	27.19	26.73	26.28	25.83	25.39	24.96	24.53	24.10	23.68	23.27	22.86	22.46									
2010	5.41	17.08	20.13	21.31	21.63	23.33	29.29	32.08	31.91	31.44	30.97	30.50	30.02	29.54	29.06	28.58	28.11	27.64	27.18	26.72	26.27	25.83	25.38	24.95	24.52	24.09	23.67	23.26	22.86	22.46									
2011	6.48	21.26	24.22	24.36	25.04	28.65	31.91	32.34	31.89	31.43	30.96	30.48	30.00	29.52	29.04	28.57	28.10	27.63	27.17	26.71	26.26	25.81	25.37	24.93	24.50	24.08	23.66	23.25	22.84	22.44									
2012	6.77	23.32	26.11	25.91	28.25	29.58	32.12	32.33	31.89	31.42	30.95	30.48	30.00	29.52	29.04	28.56	28.09	27.63	27.16	26.70	26.25	25.81	25.36	24.93	24.50	24.08	23.65	23.24	22.84	22.44									
2013	7.31	23.34	25.97	26.04	27.50	29.67	32.06	32.33	31.88	31.42	30.95	30.48	30.00	29.52	29.04	28.56	28.09	27.62	27.16	26.70	26.25	25.80	25.36	24.93	24.50	24.07	23.65	23.24	22.83	22.43									
2014	6.81	23.19	26.19	25.78	28.76	29.64	32.12	32.33	31.89	31.43	30.95	30.48	30.00	29.52	29.04	28.56	28.09	27.63	27.16	26.70	26.25	25.81	25.36	24.93	24.50	24.07	23.65	23.24	22.84	22.44									
2015	7.28	23.62	25.92	26.79	28.54	29.65	32.10	32.33	31.88	31.42	30.95	30.48	30.00	29.52	29.04	28.56	28.09	27.62	27.16	26.70	26.25	25.80	25.36	24.93	24.50	24.07	23.65	23.24	22.83	22.43									

Cumulative Claim Rates			Adjustable Rate Streamline Refinance Mortgages																												by Credit Subsidy Endorsement Cohort																													
Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																														
1991	0.00	0.00	1.56	2.34	2.34	4.69	7.03	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81	7.81																														
1992	0.00	0.17	0.56	0.95	1.58	2.14	2.57	2.94	3.13	3.20	3.25	3.28	3.30	3.30	3.30	3.31	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32																														
1993	0.02	0.29	1.02	2.13	3.52	4.47	5.10	5.54	5.71	5.81	5.87	5.88	5.89	5.89	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92																														
1994	0.02	0.53	2.18	4.55	6.48	7.81	8.51	8.81	8.99	9.06	9.11	9.12	9.13	9.13	9.14	9.14	9.14	9.14	9.14	9.14	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15	9.15																														
1995	0.15	1.43	3.86	5.63	7.06	8.17	8.49	8.64	8.81	8.83	8.86	8.88	8.93	8.96	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97	8.97																														
1996	0.01	0.48	2.10	3.69	4.49	4.79	5.06	5.14	5.23	5.27	5.31	5.32	5.33	5.34	5.34	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35																														
1997	0.04	0.72	2.06	3.25	3.87	4.18	4.40	4.47	4.54	4.58	4.61	4.63	4.64	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65																														
1998	0.06	0.51	1.28	1.87	2.27	2.52	2.67	2.74	2.77	2.78	2.80	2.81	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82																														
1999	0.00	0.20	0.66	1.27	2.20	2.60	2.83	2.91	3.00	3.06	3.10	3.11	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12																														
2000	0.02	0.44	1.71	4.01	5.23	6.14	6.56	6.84	7.05	7.15	7.19	7.20	7.21	7.22	7.22	7.22	7.22	7.22	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23																														
2001	0.00	0.27	2.08	3.67	4.63	5.25	5.54	5.92	6.13	6.21	6.25	6.27	6.28	6.28	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29	6.29																														
2002	0.01	0.44	1.47	2.34	3.04	3.63	4.17	4.70	4.91	5.01	5.05	5.07	5.08	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09																														
2003	0.03	0.70	1.93	2.97	3.74	4.62	5.53	5.91	6.11	6.20	6.23	6.25	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26																														
2004	0.07	1.00	2.66	4.21	5.96	7.94	8.96	9.46	9.71	9.81	9.85	9.87	9.88	9.88	9.88	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89																														
2005	0.14	1.69	4.08	6.98	12.60	15.58	17.33	18.15	18.49	18.63	18.68	18.70	18.71	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72	18.72																														
2006	0.23	2.54	7.03	17.47	24.65	29.27	32.03	33.12	33.59	33.78	33.85	33.88	33.90	33.90	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91	33.91																														
2007	0.00	2.09	12.99	23.21	32.10	38.89	41.97	43.06	43.55	43.76	43.85	43.89	43.90	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91	43.91																														
2008	0.07	5.13	15.45	26.79	36.67	41.40	43.40	44.36	44.79	44.97	45.03	45.06	45.07	45.08	45.08	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09	45.09																														
2009	0.10	2.78	7.98	12.18	15.29	17.26	18.37	18.81	18.97	19.05	19.08	19.10	19.11	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12	19.12																														
2010	0.07	1.52	4.39	7.16	9.17	10.34	10.92	11.15	11.26	11.32	11.35	11.36	11.37	11.37	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38	11.38																														
2011	0.05	1.02	2.99	4.69	5.98	6.59	6.94	7.12	7.21	7.25	7.27	7.28	7.29	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30																														
2012	0.05	0.79	2.29	3.74	4.67	5.15	5.46	5.61	5.69	5.73	5.75	5.76	5.77	5.77	5.77	5.77	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78																														
2013	0.03	0.75	2.26	3.69	4.68	5.16	5.47	5.62	5.70	5.74	5.76	5.77	5.78	5.78	5.78	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79	5.79																														
2014	0.04	0.80	2.29	3.75	4.63	5.11	5.41	5.57	5.65	5.69	5.71	5.72	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73	5.73																														
2015	0.03	0.73	2.24	3.59	4.47	4.94	5.24	5.40	5.47	5.51	5.53	5.54	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55	5.55																														

Cumulative Prepayment Rates Adjustable Rate Streamline Refinance Mortgages by Credit Subsidy Endorsement Cohort

Book/Policy	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1991	0.78	7.03	16.41	25.78	32.81	40.63	46.88	60.16	66.41	71.88	76.56	82.03	85.94	87.50	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84	89.84
1992	0.97	8.91	20.07	28.85	40.73	48.33	58.59	66.58	70.83	75.79	80.18	84.36	86.47	87.80	89.04	90.07	91.26	92.32	92.97	93.49	93.98	94.39	94.73	95.02	95.25	95.45	95.62	95.77	95.89	95.99
1993	2.89	12.69	20.68	30.94	38.68	49.31	57.91	63.26	70.62	76.72	81.90	84.42	85.94	87.25	88.13	89.10	90.06	90.66	91.14	91.60	91.98	92.30	92.56	92.78	92.97	93.12	93.25	93.36	93.46	93.54
1994	3.64	10.44	20.56	28.55	39.25	48.37	53.90	61.74	68.57	74.90	78.47	80.82	82.54	83.77	84.88	86.00	86.76	87.36	87.92	88.37	88.75	89.07	89.33	89.55	89.74	89.90	90.03	90.14	90.23	90.31
1995	4.48	21.14	31.77	44.73	52.63	57.63	64.96	71.06	75.79	78.84	80.78	82.31	83.69	84.81	86.00	86.79	87.40	87.99	88.47	88.87	89.20	89.47	89.70	89.89	90.05	90.19	90.30	90.40	90.48	90.55
1996	4.56	24.92	54.59	68.75	73.11	79.23	83.69	87.06	89.17	90.44	91.40	91.93	92.61	93.32	93.69	93.94	94.14	94.28	94.39	94.46	94.51	94.55	94.57	94.59	94.61	94.62	94.63	94.63	94.64	94.64
1997	8.95	47.99	66.48	71.95	79.48	83.95	87.72	89.80	91.18	92.15	92.80	93.40	94.07	94.43	94.67	94.86	95.00	95.10	95.17	95.22	95.25	95.28	95.29	95.31	95.32	95.33	95.33	95.34	95.34	95.34
1998	15.69	51.70	62.47	77.27	84.28	89.03	91.56	93.26	94.24	94.94	95.53	96.09	96.41	96.62	96.78	96.90	96.98	97.03	97.07	97.10	97.12	97.14	97.15	97.15	97.16	97.16	97.17	97.17	97.17	97.17
1999	5.90	17.06	44.60	61.35	73.65	80.56	85.42	88.67	90.66	92.44	94.06	94.84	95.38	95.83	96.14	96.35	96.50	96.60	96.68	96.73	96.77	96.80	96.82	96.83	96.84	96.85	96.86	96.86	96.86	96.87
2000	3.46	25.65	41.81	53.10	62.24	69.68	76.25	80.84	83.97	86.96	88.65	89.77	90.67	91.29	91.72	92.02	92.23	92.38	92.49	92.56	92.62	92.66	92.69	92.71	92.72	92.74	92.75	92.75	92.76	92.76
2001	5.21	34.15	52.03	63.42	72.87	79.24	83.27	86.35	88.72	89.98	90.87	91.66	92.25	92.67	92.97	93.18	93.33	93.44	93.51	93.56	93.60	93.63	93.65	93.67	93.68	93.69	93.69	93.70	93.70	93.70
2002	8.24	38.41	54.54	68.00	77.09	83.31	87.11	89.50	90.75	91.68	92.50	93.15	93.66	94.02	94.28	94.46	94.59	94.68	94.74	94.79	94.82	94.84	94.86	94.87	94.88	94.89	94.89	94.90	94.90	94.90
2003	13.86	36.02	56.56	70.51	79.13	84.06	86.93	88.55	89.71	90.71	91.51	92.12	92.59	92.93	93.16	93.33	93.44	93.52	93.58	93.62	93.65	93.68	93.69	93.70	93.71	93.72	93.72	93.73	93.73	93.73
2004	8.07	33.55	53.04	66.03	74.33	78.70	81.25	83.08	84.76	86.11	87.18	88.02	88.64	89.07	89.37	89.59	89.73	89.84	89.91	89.97	90.01	90.03	90.05	90.07	90.08	90.09	90.09	90.10	90.10	90.10
2005	11.40	31.44	46.25	59.62	65.55	68.59	70.97	73.25	75.19	76.78	78.03	79.02	79.73	80.21	80.54	80.77	80.92	81.03	81.10	81.15	81.19	81.21	81.23	81.24	81.25	81.26	81.27	81.27	81.27	81.27
2006	7.51	23.12	40.61	46.14	49.25	51.35	53.72	56.04	58.11	59.92	61.47	62.75	63.72	64.40	64.89	65.23	65.47	65.64	65.76	65.85	65.91	65.96	65.99	66.02	66.03	66.05	66.06	66.06	66.07	66.07
2007	7.14	25.21	31.54	35.40	37.81	39.84	42.22	44.83	47.16	49.17	50.88	52.37	53.48	54.25	54.79	55.16	55.42	55.61	55.74	55.83	55.90	55.95	55.98	56.01	56.03	56.04	56.05	56.06	56.07	56.07
2008	5.16	14.19	20.73	25.01	28.82	32.64	37.00	40.94	44.20	46.98	49.26	51.00	52.18	53.00	53.56	53.95	54.22	54.41	54.55	54.65	54.72	54.77	54.80	54.83	54.85	54.87	54.88	54.88	54.89	54.90
2009	6.25	18.97	28.92	39.11	48.25	55.43	61.89	67.45	71.72	74.65	76.60	77.92	78.81	79.42	79.85	80.14	80.35	80.49	80.60	80.67	80.73	80.76	80.79	80.81	80.83	80.84	80.85	80.85	80.86	80.86
2010	5.41	21.56	37.04	49.52	58.89	66.34	73.18	78.28	81.65	83.88	85.37	86.37	87.05	87.52	87.84	88.06	88.22	88.33	88.41	88.47	88.51	88.54	88.56	88.57	88.59	88.59	88.60	88.61	88.61	88.61
2011	6.48	26.35	43.94	56.87	66.49	74.38	80.45	84.53	87.19	88.95	90.13	90.92	91.46	91.83	92.08	92.26	92.38	92.47	92.54	92.58	92.61	92.64	92.65	92.66	92.67	92.68	92.69	92.69	92.69	92.69
2012	6.77	28.50	46.96	60.11	70.32	77.72	83.22	86.88	89.27	90.86	91.91	92.62	93.11	93.44	93.67	93.83	93.94	94.02	94.07	94.11	94.14	94.16	94.18	94.19	94.20	94.20	94.21	94.21	94.22	94.22
2013	7.31	28.93	47.20	60.35	70.24	77.68	83.18	86.85	89.25	90.84	91.90	92.61	93.09	93.43	93.66	93.82	93.93	94.01	94.06	94.10	94.13	94.15	94.17	94.18	94.19	94.19	94.20	94.20	94.20	94.21
2014	6.81	28.41	46.95	60.03	70.45	77.84	83.31	86.96	89.34	90.91	91.96	92.67	93.15	93.49	93.71	93.87	93.98	94.06	94.12	94.16	94.19	94.21	94.22	94.23	94.24	94.25	94.25	94.26	94.26	94.26
2015	7.28	29.18	47.34	60.85	71.00	78.27	83.66	87.25	89.59	91.14	92.18	92.88	93.35	93.68	93.90	94.06	94.17	94.24	94.30	94.34	94.37	94.39	94.40	94.41	94.42	94.43	94.43	94.44	94.44	94.44