

Monthly Effective Rates for 25-Year Debenture

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2018							5.32	5.35	5.29	5.26	5.37	4.99
2019	4.88	4.77	4.74	4.53	4.39	4.09	4.01	3.63	3.46	3.49	3.75	3.64
2020	3.71	3.46	2.88	3.03	2.76	2.60	2.41	2.27	2.41	2.56	2.53	2.63
2021	2.70	2.76	3.05	3.07	2.94	2.89	2.82	2.87	2.98	2.91	2.92	3.03
2022	3.22	3.60	3.93	4.68	5.12							

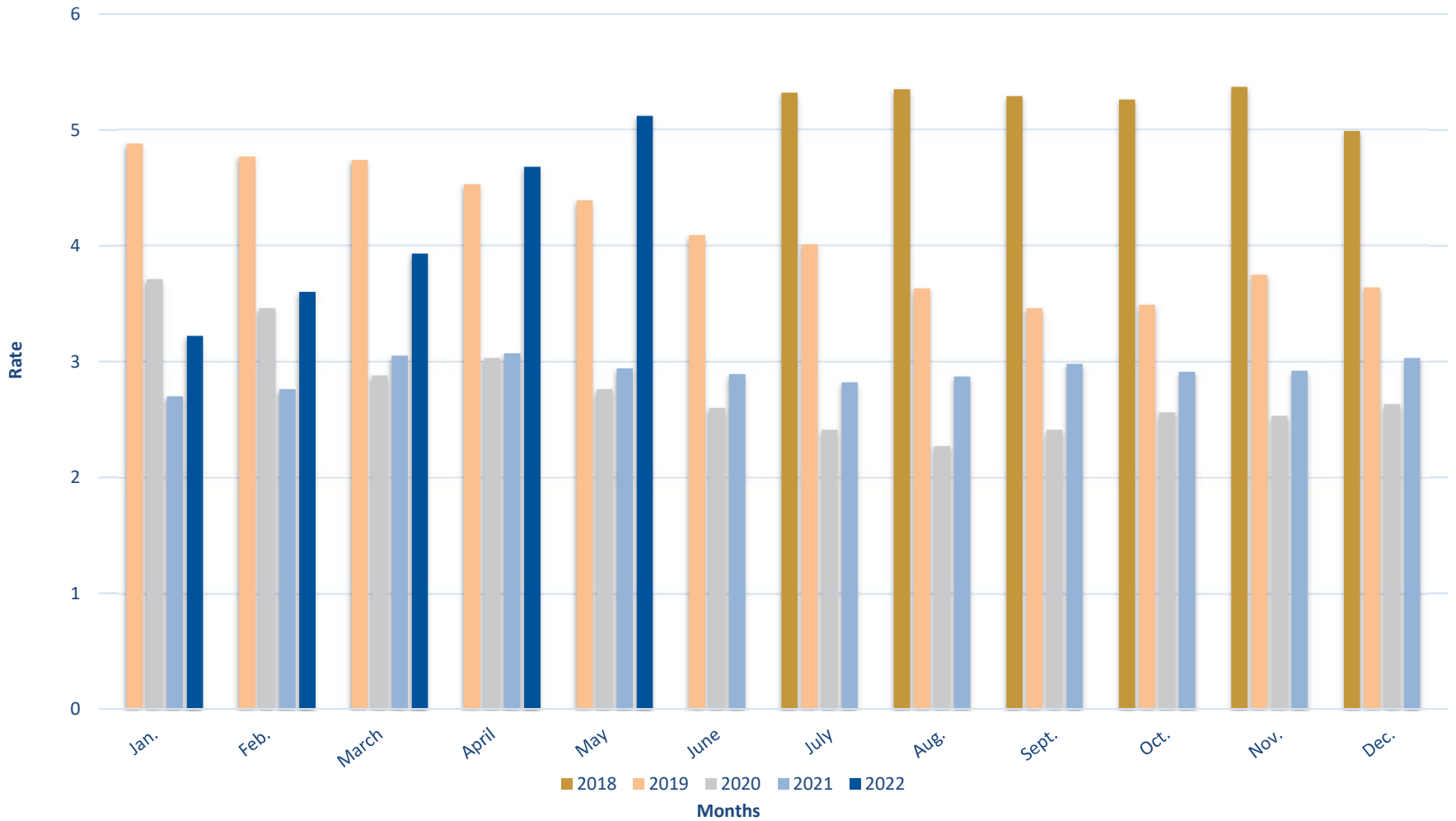
Monthly Effective Rates for 20-Year Debenture

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2018	4.64	4.94	4.92	5.03	5.22	5.32	5.26	5.3	5.25	5.22	5.32	4.93
2019	4.76	4.65	4.59	4.37	4.27	3.98	3.91	3.53	3.39	3.42	3.69	3.58
2020	3.64	3.39	2.81	2.96	2.69	2.53	2.35	2.21	2.37	2.53	2.5	2.59
2021	2.66	2.72	3	3.02	2.85	2.77	2.7	2.75	2.86	2.76	2.77	2.88
2022	3.07	3.45	3.77	4.62	5.06							

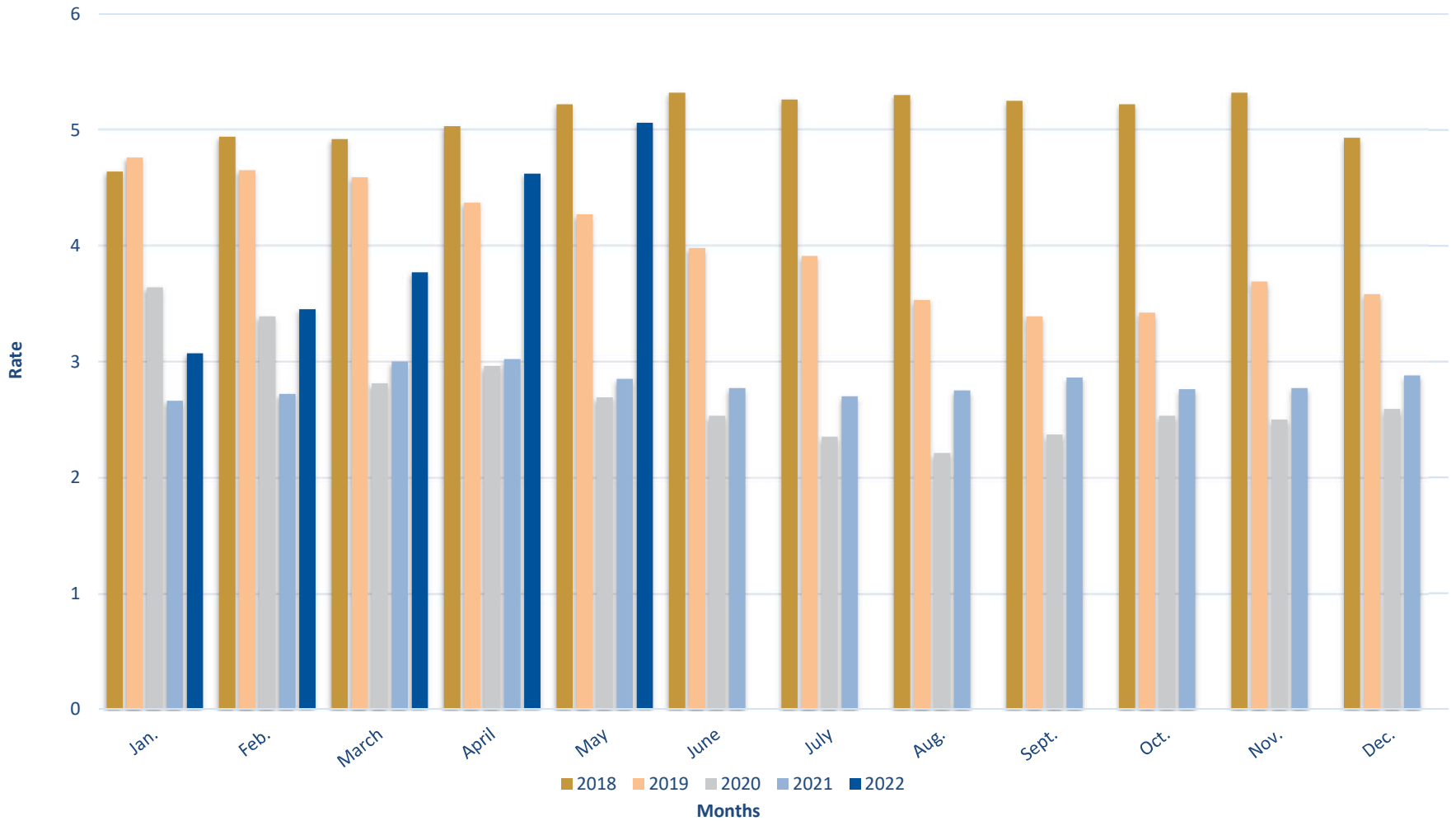
Monthly Effective Rates for 10-Year Debenture

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2018	4.65		5.10		5.30		5.30		5.25		5.32	
2019	4.79		4.63		4.37		3.94		3.60		3.88	
2020	3.80		2.85		2.65		2.40		2.29		2.36	
2021	2.45		2.70		2.62		2.60		2.69		2.79	
2022	3.07		3.82		4.93							

Historical Monthly Effective Rates for 25-Year Debenture



Historical Monthly Effective Rates for 20-Year Debenture



Bi-Monthly Effective Rates for 10 Year Debenture

