

### Monthly Effective Rates for 25-Year Debenture

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>2018</b>							5.32	5.35	5.29	5.26	5.37	4.99
<b>2019</b>	4.88	4.77	4.74	4.53	4.39	4.09	4.01	3.63	3.46	3.49	3.75	3.64
<b>2020</b>	3.71	3.46	2.88	3.03	2.76	2.60	2.41	2.27	2.41	2.56	2.53	2.63
<b>2021</b>	2.70	2.76	3.05	3.07	2.94	2.89	2.82	2.87	2.98	2.91	2.92	3.03
<b>2022</b>	3.22	3.60	3.93	4.68	5.12	5.19	5.11					

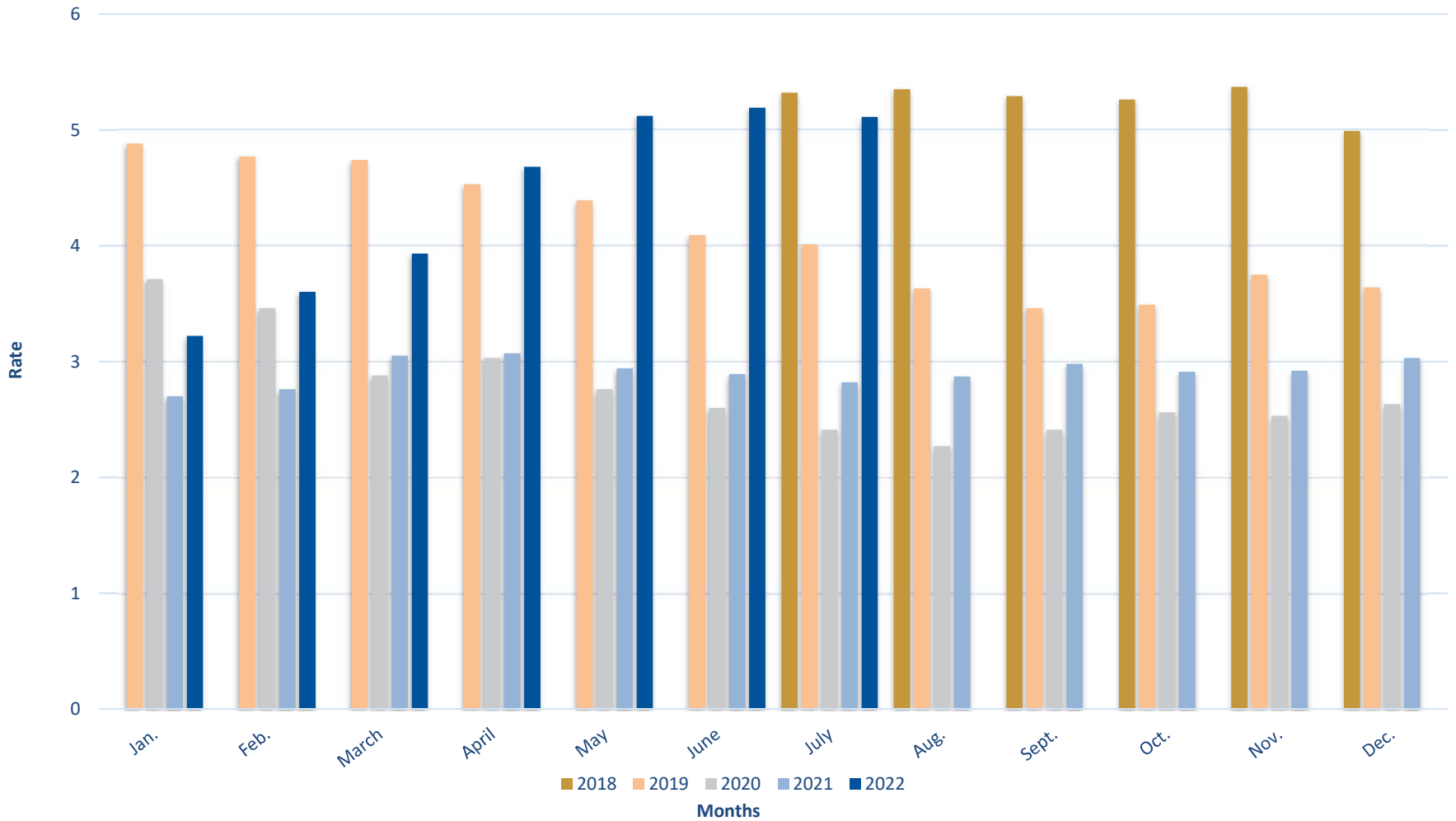
### Monthly Effective Rates for 20-Year Debenture

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>2018</b>	4.64	4.94	4.92	5.03	5.22	5.32	5.26	5.3	5.25	5.22	5.32	4.93
<b>2019</b>	4.76	4.65	4.59	4.37	4.27	3.98	3.91	3.53	3.39	3.42	3.69	3.58
<b>2020</b>	3.64	3.39	2.81	2.96	2.69	2.53	2.35	2.21	2.37	2.53	2.5	2.59
<b>2021</b>	2.66	2.72	3	3.02	2.85	2.77	2.7	2.75	2.86	2.76	2.77	2.88
<b>2022</b>	3.07	3.45	3.77	4.62	5.06	5.13	5.05					

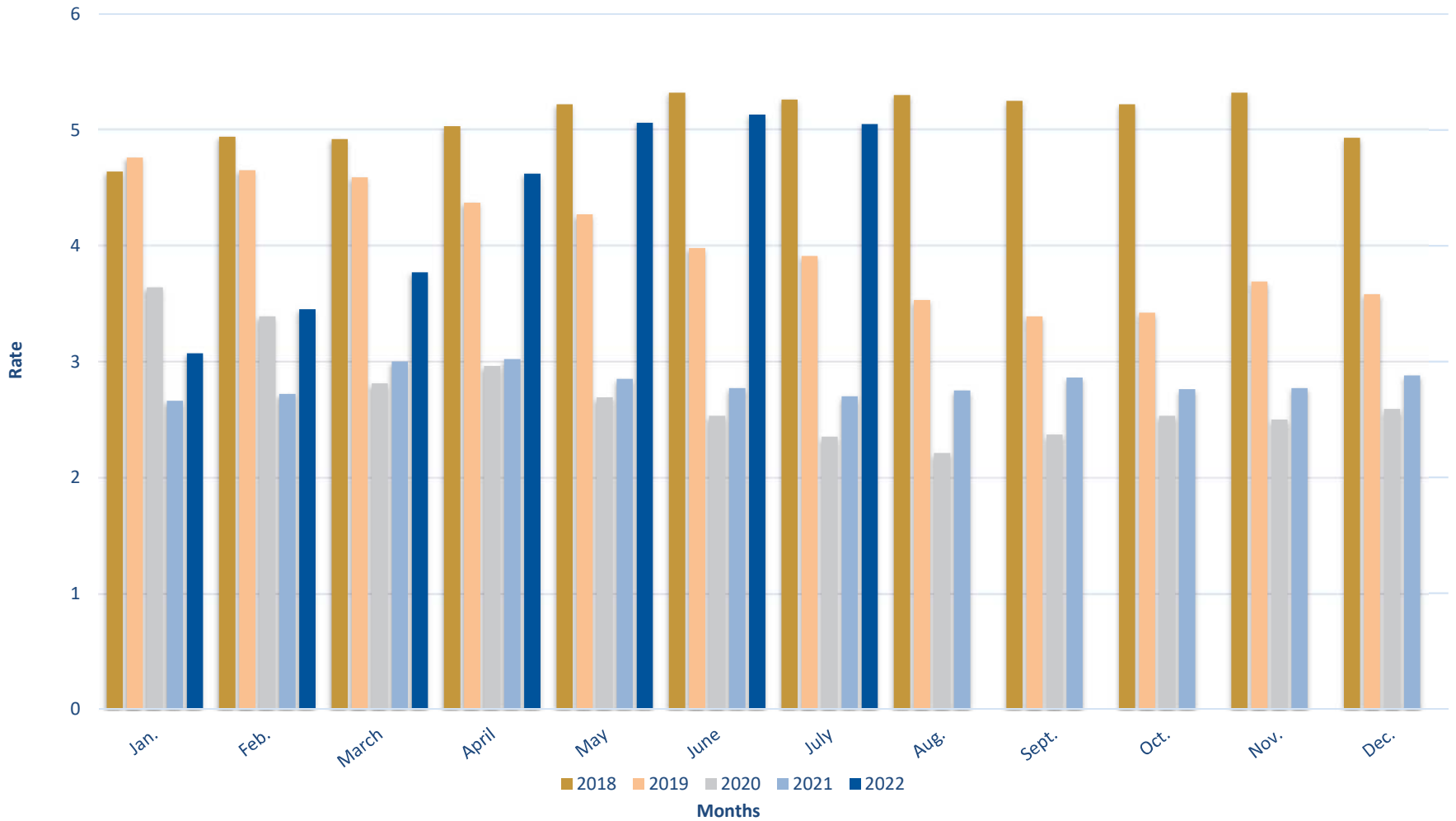
### Monthly Effective Rates for 10-Year Debenture

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>2018</b>	4.65		5.10		5.30		5.30		5.25		5.32	
<b>2019</b>	4.79		4.63		4.37		3.94		3.60		3.88	
<b>2020</b>	3.80		2.85		2.65		2.40		2.29		2.36	
<b>2021</b>	2.45		2.70		2.62		2.60		2.69		2.79	
<b>2022</b>	3.07		3.82		4.93		4.97					

## Historical Monthly Effective Rates for 25-Year Debenture



## Historical Monthly Effective Rates for 20-Year Debenture



## Bi-Monthly Effective Rates for 10 Year Debenture

