



Historical MVA Reference Rates

| Effective Date | MVA Reference Rate |
|----------------|--------------------|
| 3/24/2023 | 5.02 % |
| 3/23/2023 | 5.11 % |
| 3/22/2023 | 5.32 % |
| 3/21/2023 | 5.31 % |
| 3/20/2023 | 5.25 % |
| 3/19/2023 | 5.25 % |
| 3/18/2023 | 5.25 % |
| 3/17/2023 | 5.44 % |
| 3/16/2023 | 5.34 % |
| 3/15/2023 | 5.40 % |
| 3/14/2023 | 5.26 % |
| 3/13/2023 | 5.39 % |
| 3/12/2023 | 5.39 % |
| 3/11/2023 | 5.39 % |
| 3/10/2023 | 5.55 % |
| 3/9/2023 | 5.64 % |
| 3/8/2023 | 5.59 % |
| 3/7/2023 | 5.51 % |
| 3/6/2023 | 5.49 % |
| 3/5/2023 | 5.49 % |
| 3/4/2023 | 5.49 % |
| 3/3/2023 | 5.58 % |
| 3/2/2023 | 5.57 % |
| 3/1/2023 | 5.47 % |
| 2/28/2023 | 5.46 % |
| 2/27/2023 | 5.49 % |
| 2/26/2023 | 5.49 % |
| 2/25/2023 | 5.49 % |
| 2/24/2023 | 5.39 % |
| 2/23/2023 | 5.43 % |
| 2/22/2023 | 5.44 % |
| 2/21/2023 | 5.28 % |

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| 2/20/2023 | 5.28 % |
| 2/19/2023 | 5.28 % |
| 2/18/2023 | 5.28 % |
| 2/17/2023 | 5.30 % |
| 2/16/2023 | 5.26 % |
| 2/15/2023 | 5.24 % |
| 2/14/2023 | 5.16 % |
| 2/13/2023 | 5.16 % |
| 2/12/2023 | 5.16 % |
| 2/11/2023 | 5.16 % |
| 2/10/2023 | 5.09 % |
| 2/9/2023 | 5.02 % |
| 2/8/2023 | 5.05 % |
| 2/7/2023 | 5.04 % |
| 2/6/2023 | 4.90 % |
| 2/5/2023 | 4.90 % |
| 2/4/2023 | 4.90 % |
| 2/3/2023 | 4.73 % |
| 2/2/2023 | 4.77 % |
| 2/1/2023 | 4.88 % |
| 1/31/2023 | 4.96 % |
| 1/30/2023 | 4.92 % |
| 1/29/2023 | 4.92 % |
| 1/28/2023 | 4.92 % |
| 1/27/2023 | 4.90 % |
| 1/26/2023 | 4.88 % |
| 1/25/2023 | 4.90 % |
| 1/24/2023 | 4.95 % |
| 1/23/2023 | 4.91 % |
| 1/22/2023 | 4.91 % |
| 1/21/2023 | 4.91 % |
| 1/20/2023 | 4.85 % |
| 1/19/2023 | 4.81 % |
| 1/18/2023 | 4.95 % |
| 1/17/2023 | 4.96 % |
| 1/16/2023 | 4.96 % |
| 1/15/2023 | 4.96 % |

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| 1/14/2023 | 4.96 % |
| 1/13/2023 | 4.91 % |
| 1/12/2023 | 5.02 % |
| 1/11/2023 | 5.10 % |
| 1/10/2023 | 5.06 % |
| 1/9/2023 | 5.12 % |
| 1/8/2023 | 5.12 % |
| 1/7/2023 | 5.12 % |
| 1/6/2023 | 5.31 % |
| 1/5/2023 | 5.25 % |
| 1/4/2023 | 5.31 % |
| 1/3/2023 | 5.33 % |
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| 1/1/2023 | 5.33 % |
| 12/31/2022 | 5.33 % |
| 12/30/2022 | 5.30 % |
| 12/29/2022 | 5.34 % |
| 12/28/2022 | 5.33 % |
| 12/27/2022 | 5.23 % |
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| 12/23/2022 | 5.19 % |
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| 12/12/2022 | 5.17 % |
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| 12/8/2022 | 5.05 % |
| 12/7/2022 | 5.15 % |
| 12/6/2022 | 5.21 % |
| 12/5/2022 | 5.06 % |
| 12/4/2022 | 5.06 % |
| 12/3/2022 | 5.06 % |
| 12/2/2022 | 5.08 % |
| 12/1/2022 | 5.22 % |
| 11/30/2022 | 5.36 % |
| 11/29/2022 | 5.31 % |
| 11/28/2022 | 5.29 % |
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| 11/26/2022 | 5.29 % |
| 11/25/2022 | 5.31 % |
| 11/24/2022 | 5.31 % |
| 11/23/2022 | 5.37 % |
| 11/22/2022 | 5.43 % |
| 11/21/2022 | 5.42 % |
| 11/20/2022 | 5.42 % |
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| 11/18/2022 | 5.39 % |
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| 11/16/2022 | 5.36 % |
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| 11/12/2022 | 5.46 % |
| 11/11/2022 | 5.46 % |
| 11/10/2022 | 5.81 % |
| 11/9/2022 | 5.85 % |
| 11/8/2022 | 5.93 % |
| 11/7/2022 | 5.90 % |
| 11/6/2022 | 5.90 % |
| 11/5/2022 | 5.90 % |
| 11/4/2022 | 5.94 % |
| 11/3/2022 | 5.85 % |
| 11/2/2022 | 5.84 % |

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| 11/1/2022 | 5.83 % |
| 10/31/2022 | 5.77 % |
| 10/30/2022 | 5.77 % |
| 10/29/2022 | 5.77 % |
| 10/28/2022 | 5.71 % |
| 10/27/2022 | 5.80 % |
| 10/26/2022 | 5.85 % |
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| 10/19/2022 | 5.81 % |
| 10/18/2022 | 5.86 % |
| 10/17/2022 | 5.88 % |
| 10/16/2022 | 5.88 % |
| 10/15/2022 | 5.88 % |
| 10/14/2022 | 5.82 % |
| 10/13/2022 | 5.71 % |
| 10/12/2022 | 5.70 % |
| 10/11/2022 | 5.61 % |
| 10/10/2022 | 5.61 % |
| 10/9/2022 | 5.61 % |
| 10/8/2022 | 5.61 % |
| 10/7/2022 | 5.51 % |
| 10/6/2022 | 5.45 % |
| 10/5/2022 | 5.35 % |
| 10/4/2022 | 5.42 % |
| 10/3/2022 | 5.57 % |
| 10/2/2022 | 5.57 % |
| 10/1/2022 | 5.57 % |
| 9/30/2022 | 5.56 % |
| 9/29/2022 | 5.44 % |
| 9/28/2022 | 5.66 % |
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| 9/16/2022 | 4.98 % |
| 9/15/2022 | 4.93 % |
| 9/14/2022 | 4.91 % |
| 9/13/2022 | 4.77 % |
| 9/12/2022 | 4.76 % |
| 9/11/2022 | 4.76 % |
| 9/10/2022 | 4.76 % |
| 9/9/2022 | 4.76 % |
| 9/8/2022 | 4.72 % |
| 9/7/2022 | 4.80 % |
| 9/6/2022 | 4.66 % |
| 9/5/2022 | 4.66 % |
| 9/4/2022 | 4.66 % |
| 9/3/2022 | 4.66 % |
| 9/2/2022 | 4.74 % |
| 9/1/2022 | 4.64 % |
| 8/31/2022 | 4.58 % |
| 8/30/2022 | 4.55 % |
| 8/29/2022 | 4.47 % |
| 8/28/2022 | 4.47 % |
| 8/27/2022 | 4.47 % |
| 8/26/2022 | 4.43 % |
| 8/25/2022 | 4.50 % |
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| 7/3/2022 | 4.37 % |
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| 7/1/2022 | 4.48 % |
| 6/30/2022 | 4.54 % |
| 6/29/2022 | 4.60 % |
| 6/28/2022 | 4.59 % |
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| 6/6/2022 | 4.04 % |
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| 6/3/2022 | 4.00 % |
| 6/2/2022 | 4.01 % |
| 6/1/2022 | 3.91 % |
| 5/31/2022 | 3.85 % |
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| 5/4/2022 | 4.12 % |
| 5/3/2022 | 4.14 % |
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| 4/30/2022 | 4.03 % |
| 4/29/2022 | 3.94 % |
| 4/28/2022 | 3.89 % |
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| 4/25/2022 | 3.99 % |
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| 4/22/2022 | 3.95 % |
| 4/21/2022 | 3.84 % |
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| 4/15/2022 | 3.71 % |
| 4/14/2022 | 3.63 % |
| 4/13/2022 | 3.64 % |
| 4/12/2022 | 3.72 % |
| 4/11/2022 | 3.65 % |
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| 2/15/2022 | 2.69 % |
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| 11/24/2021 | 1.89 % |
| 11/23/2021 | 1.85 % |
| 11/22/2021 | 1.76 % |
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| 11/4/2021 | 1.68 % |
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