



Historical MVA Reference Rates

| Effective Date | MVA Reference Rate |
|----------------|--------------------|
| 5/31/2023      | 5.34 %             |
| 5/30/2023      | 5.34 %             |
| 5/30/2023      | 5.50 %             |
| 5/29/2023      | 5.50 %             |
| 5/28/2023      | 5.50 %             |
| 5/27/2023      | 5.50 %             |
| 5/26/2023      | 5.48 %             |
| 5/26/2023      | 5.50 %             |
| 5/25/2023      | 5.38 %             |
| 5/25/2023      | 5.48 %             |
| 5/24/2023      | 5.32 %             |
| 5/24/2023      | 5.38 %             |
| 5/23/2023      | 5.32 %             |
| 5/23/2023      | 5.34 %             |
| 5/22/2023      | 5.33 %             |
| 5/22/2023      | 5.34 %             |
| 5/21/2023      | 5.33 %             |
| 5/20/2023      | 5.33 %             |
| 5/19/2023      | 5.31 %             |
| 5/19/2023      | 5.33 %             |
| 5/18/2023      | 5.22 %             |
| 5/18/2023      | 5.31 %             |
| 5/17/2023      | 5.17 %             |
| 5/17/2023      | 5.22 %             |
| 5/16/2023      | 5.10 %             |
| 5/16/2023      | 5.17 %             |
| 5/15/2023      | 5.08 %             |
| 5/15/2023      | 5.10 %             |
| 5/14/2023      | 5.08 %             |
| 5/13/2023      | 5.08 %             |
| 5/12/2023      | 4.99 %             |
| 5/12/2023      | 5.08 %             |

|           |        |
|-----------|--------|
| 5/11/2023 | 4.99 % |
| 5/11/2023 | 5.02 % |
| 5/10/2023 | 5.02 % |
| 5/10/2023 | 5.14 % |
| 5/9/2023  | 5.12 % |
| 5/9/2023  | 5.14 % |
| 5/8/2023  | 5.03 % |
| 5/8/2023  | 5.12 % |
| 5/7/2023  | 5.03 % |
| 5/6/2023  | 5.03 % |
| 5/5/2023  | 4.95 % |
| 5/5/2023  | 5.03 % |
| 5/4/2023  | 4.92 % |
| 5/4/2023  | 4.92 % |
| 5/3/2023  | 4.92 % |
| 5/3/2023  | 5.01 % |
| 5/2/2023  | 5.01 % |
| 5/2/2023  | 5.14 % |
| 5/1/2023  | 5.01 % |
| 5/1/2023  | 5.01 % |
| 4/30/2023 | 5.01 % |
| 4/29/2023 | 5.01 % |
| 4/28/2023 | 5.01 % |
| 4/28/2023 | 5.09 % |
| 4/27/2023 | 4.99 % |
| 4/27/2023 | 5.09 % |
| 4/26/2023 | 4.92 % |
| 4/26/2023 | 4.99 % |
| 4/25/2023 | 4.92 % |
| 4/25/2023 | 5.07 % |
| 4/24/2023 | 5.07 % |
| 4/24/2023 | 5.12 % |
| 4/23/2023 | 5.12 % |
| 4/22/2023 | 5.12 % |
| 4/21/2023 | 5.10 % |
| 4/21/2023 | 5.12 % |
| 4/20/2023 | 5.10 % |

|           |        |
|-----------|--------|
| 4/20/2023 | 5.17 % |
| 4/19/2023 | 5.12 % |
| 4/19/2023 | 5.17 % |
| 4/18/2023 | 5.12 % |
| 4/18/2023 | 5.14 % |
| 4/17/2023 | 5.06 % |
| 4/17/2023 | 5.14 % |
| 4/16/2023 | 5.06 % |
| 4/15/2023 | 5.06 % |
| 4/14/2023 | 4.99 % |
| 4/14/2023 | 5.06 % |
| 4/13/2023 | 4.99 % |
| 4/13/2023 | 5.00 % |
| 4/12/2023 | 5.00 % |
| 4/12/2023 | 5.05 % |
| 4/11/2023 | 5.05 % |
| 4/11/2023 | 5.05 % |
| 4/10/2023 | 5.03 % |
| 4/10/2023 | 5.05 % |
| 4/9/2023  | 5.03 % |
| 4/8/2023  | 5.03 % |
| 4/7/2023  | 4.91 % |
| 4/6/2023  | 4.89 % |
| 4/6/2023  | 4.91 % |
| 4/5/2023  | 4.89 % |
| 4/5/2023  | 4.90 % |
| 4/4/2023  | 4.90 % |
| 4/4/2023  | 5.00 % |
| 4/3/2023  | 5.00 % |
| 4/3/2023  | 5.10 % |
| 4/2/2023  | 5.10 % |
| 4/1/2023  | 5.10 % |
| 3/31/2023 | 5.10 % |
| 3/31/2023 | 5.21 % |
| 3/30/2023 | 5.21 % |
| 3/30/2023 | 5.25 % |
| 3/29/2023 | 5.25 % |

|           |        |
|-----------|--------|
| 3/29/2023 | 5.25 % |
| 3/28/2023 | 5.20 % |
| 3/28/2023 | 5.25 % |
| 3/27/2023 | 5.04 % |
| 3/27/2023 | 5.20 % |
| 3/26/2023 | 5.04 % |
| 3/25/2023 | 5.04 % |
| 3/24/2023 | 5.02 % |
| 3/24/2023 | 5.04 % |
| 3/23/2023 | 5.02 % |
| 3/23/2023 | 5.11 % |
| 3/22/2023 | 5.11 % |
| 3/22/2023 | 5.32 % |
| 3/21/2023 | 5.31 % |
| 3/21/2023 | 5.32 % |
| 3/20/2023 | 5.25 % |
| 3/20/2023 | 5.31 % |
| 3/19/2023 | 5.25 % |
| 3/18/2023 | 5.25 % |
| 3/17/2023 | 5.25 % |
| 3/17/2023 | 5.44 % |
| 3/16/2023 | 5.34 % |
| 3/16/2023 | 5.44 % |
| 3/15/2023 | 5.34 % |
| 3/15/2023 | 5.40 % |
| 3/14/2023 | 5.26 % |
| 3/14/2023 | 5.40 % |
| 3/13/2023 | 5.26 % |
| 3/13/2023 | 5.39 % |
| 3/12/2023 | 5.39 % |
| 3/11/2023 | 5.39 % |
| 3/10/2023 | 5.39 % |
| 3/10/2023 | 5.55 % |
| 3/9/2023  | 5.55 % |
| 3/9/2023  | 5.64 % |
| 3/8/2023  | 5.59 % |
| 3/8/2023  | 5.64 % |

|           |        |
|-----------|--------|
| 3/7/2023  | 5.51 % |
| 3/7/2023  | 5.59 % |
| 3/6/2023  | 5.49 % |
| 3/6/2023  | 5.51 % |
| 3/5/2023  | 5.49 % |
| 3/4/2023  | 5.49 % |
| 3/3/2023  | 5.49 % |
| 3/3/2023  | 5.58 % |
| 3/2/2023  | 5.57 % |
| 3/2/2023  | 5.58 % |
| 3/1/2023  | 5.47 % |
| 3/1/2023  | 5.57 % |
| 2/28/2023 | 5.46 % |
| 2/28/2023 | 5.47 % |
| 2/27/2023 | 5.46 % |
| 2/27/2023 | 5.49 % |
| 2/26/2023 | 5.49 % |
| 2/25/2023 | 5.49 % |
| 2/24/2023 | 5.39 % |
| 2/24/2023 | 5.49 % |
| 2/23/2023 | 5.39 % |
| 2/23/2023 | 5.43 % |
| 2/22/2023 | 5.43 % |
| 2/22/2023 | 5.44 % |
| 2/21/2023 | 5.28 % |
| 2/21/2023 | 5.44 % |
| 2/20/2023 | 5.28 % |
| 2/19/2023 | 5.28 % |
| 2/18/2023 | 5.28 % |
| 2/17/2023 | 5.28 % |
| 2/17/2023 | 5.30 % |
| 2/16/2023 | 5.26 % |
| 2/16/2023 | 5.30 % |
| 2/15/2023 | 5.24 % |
| 2/15/2023 | 5.26 % |
| 2/14/2023 | 5.16 % |
| 2/14/2023 | 5.24 % |

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|-----------|--------|
| 2/13/2023 | 5.16 % |
| 2/13/2023 | 5.16 % |
| 2/12/2023 | 5.16 % |
| 2/11/2023 | 5.16 % |
| 2/10/2023 | 5.09 % |
| 2/10/2023 | 5.16 % |
| 2/9/2023  | 5.02 % |
| 2/9/2023  | 5.09 % |
| 2/8/2023  | 5.02 % |
| 2/8/2023  | 5.05 % |
| 2/7/2023  | 5.04 % |
| 2/7/2023  | 5.05 % |
| 2/6/2023  | 4.90 % |
| 2/6/2023  | 5.04 % |
| 2/5/2023  | 4.90 % |
| 2/4/2023  | 4.90 % |
| 2/3/2023  | 4.73 % |
| 2/3/2023  | 4.90 % |
| 2/2/2023  | 4.73 % |
| 2/2/2023  | 4.77 % |
| 2/1/2023  | 4.77 % |
| 2/1/2023  | 4.88 % |
| 1/31/2023 | 4.88 % |
| 1/31/2023 | 4.96 % |
| 1/30/2023 | 4.92 % |
| 1/30/2023 | 4.96 % |
| 1/29/2023 | 4.92 % |
| 1/28/2023 | 4.92 % |
| 1/27/2023 | 4.90 % |
| 1/27/2023 | 4.92 % |
| 1/26/2023 | 4.88 % |
| 1/26/2023 | 4.90 % |
| 1/25/2023 | 4.88 % |
| 1/25/2023 | 4.90 % |
| 1/24/2023 | 4.90 % |
| 1/24/2023 | 4.95 % |
| 1/23/2023 | 4.91 % |

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|------------|--------|
| 1/23/2023  | 4.95 % |
| 1/22/2023  | 4.91 % |
| 1/21/2023  | 4.91 % |
| 1/20/2023  | 4.85 % |
| 1/20/2023  | 4.91 % |
| 1/19/2023  | 4.81 % |
| 1/19/2023  | 4.85 % |
| 1/18/2023  | 4.81 % |
| 1/18/2023  | 4.95 % |
| 1/17/2023  | 4.95 % |
| 1/17/2023  | 4.96 % |
| 1/16/2023  | 4.96 % |
| 1/15/2023  | 4.96 % |
| 1/14/2023  | 4.96 % |
| 1/13/2023  | 4.91 % |
| 1/13/2023  | 4.96 % |
| 1/12/2023  | 4.91 % |
| 1/12/2023  | 5.02 % |
| 1/11/2023  | 5.02 % |
| 1/11/2023  | 5.10 % |
| 1/10/2023  | 5.06 % |
| 1/10/2023  | 5.10 % |
| 1/9/2023   | 5.06 % |
| 1/9/2023   | 5.12 % |
| 1/8/2023   | 5.12 % |
| 1/7/2023   | 5.12 % |
| 1/6/2023   | 5.12 % |
| 1/6/2023   | 5.31 % |
| 1/5/2023   | 5.25 % |
| 1/5/2023   | 5.31 % |
| 1/4/2023   | 5.25 % |
| 1/4/2023   | 5.31 % |
| 1/3/2023   | 5.31 % |
| 1/3/2023   | 5.33 % |
| 1/2/2023   | 5.33 % |
| 1/1/2023   | 5.33 % |
| 12/31/2022 | 5.33 % |

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|------------|--------|
| 12/30/2022 | 5.30 % |
| 12/30/2022 | 5.33 % |
| 12/29/2022 | 5.30 % |
| 12/29/2022 | 5.34 % |
| 12/28/2022 | 5.33 % |
| 12/28/2022 | 5.34 % |
| 12/27/2022 | 5.23 % |
| 12/27/2022 | 5.33 % |
| 12/26/2022 | 5.23 % |
| 12/25/2022 | 5.23 % |
| 12/24/2022 | 5.23 % |
| 12/23/2022 | 5.19 % |
| 12/23/2022 | 5.23 % |
| 12/22/2022 | 5.18 % |
| 12/22/2022 | 5.19 % |
| 12/21/2022 | 5.18 % |
| 12/21/2022 | 5.22 % |
| 12/20/2022 | 5.15 % |
| 12/20/2022 | 5.22 % |
| 12/19/2022 | 5.05 % |
| 12/19/2022 | 5.15 % |
| 12/18/2022 | 5.05 % |
| 12/17/2022 | 5.05 % |
| 12/16/2022 | 5.04 % |
| 12/16/2022 | 5.05 % |
| 12/15/2022 | 5.04 % |
| 12/15/2022 | 5.04 % |
| 12/14/2022 | 5.04 % |
| 12/14/2022 | 5.06 % |
| 12/13/2022 | 5.06 % |
| 12/13/2022 | 5.19 % |
| 12/12/2022 | 5.17 % |
| 12/12/2022 | 5.19 % |
| 12/11/2022 | 5.17 % |
| 12/10/2022 | 5.17 % |
| 12/9/2022  | 5.11 % |
| 12/9/2022  | 5.17 % |



|            |        |
|------------|--------|
| 12/8/2022  | 5.05 % |
| 12/8/2022  | 5.11 % |
| 12/7/2022  | 5.05 % |
| 12/7/2022  | 5.15 % |
| 12/6/2022  | 5.15 % |
| 12/6/2022  | 5.21 % |
| 12/5/2022  | 5.06 % |
| 12/5/2022  | 5.21 % |
| 12/4/2022  | 5.06 % |
| 12/3/2022  | 5.06 % |
| 12/2/2022  | 5.06 % |
| 12/2/2022  | 5.08 % |
| 12/1/2022  | 5.08 % |
| 12/1/2022  | 5.22 % |
| 11/30/2022 | 5.22 % |
| 11/30/2022 | 5.36 % |
| 11/29/2022 | 5.31 % |
| 11/29/2022 | 5.36 % |
| 11/28/2022 | 5.29 % |
| 11/28/2022 | 5.31 % |
| 11/27/2022 | 5.29 % |
| 11/26/2022 | 5.29 % |
| 11/25/2022 | 5.29 % |
| 11/25/2022 | 5.31 % |
| 11/24/2022 | 5.31 % |
| 11/23/2022 | 5.31 % |
| 11/23/2022 | 5.37 % |
| 11/22/2022 | 5.37 % |
| 11/22/2022 | 5.43 % |
| 11/21/2022 | 5.42 % |
| 11/21/2022 | 5.43 % |
| 11/20/2022 | 5.42 % |
| 11/19/2022 | 5.42 % |
| 11/18/2022 | 5.39 % |
| 11/18/2022 | 5.42 % |
| 11/17/2022 | 5.30 % |
| 11/17/2022 | 5.39 % |

|            |        |
|------------|--------|
| 11/16/2022 | 5.30 % |
| 11/16/2022 | 5.36 % |
| 11/15/2022 | 5.36 % |
| 11/15/2022 | 5.48 % |
| 11/14/2022 | 5.46 % |
| 11/14/2022 | 5.48 % |
| 11/13/2022 | 5.46 % |
| 11/12/2022 | 5.46 % |
| 11/11/2022 | 5.46 % |
| 11/11/2022 | 5.46 % |
| 11/10/2022 | 5.46 % |
| 11/10/2022 | 5.81 % |
| 11/9/2022  | 5.81 % |
| 11/9/2022  | 5.85 % |
| 11/8/2022  | 5.85 % |
| 11/8/2022  | 5.93 % |
| 11/7/2022  | 5.90 % |
| 11/7/2022  | 5.93 % |
| 11/6/2022  | 5.90 % |
| 11/5/2022  | 5.90 % |
| 11/4/2022  | 5.90 % |
| 11/4/2022  | 5.94 % |
| 11/3/2022  | 5.85 % |
| 11/3/2022  | 5.94 % |
| 11/2/2022  | 5.84 % |
| 11/2/2022  | 5.85 % |
| 11/1/2022  | 5.83 % |
| 11/1/2022  | 5.84 % |
| 10/31/2022 | 5.77 % |
| 10/31/2022 | 5.83 % |
| 10/30/2022 | 5.77 % |
| 10/29/2022 | 5.77 % |
| 10/28/2022 | 5.71 % |
| 10/28/2022 | 5.77 % |
| 10/27/2022 | 5.71 % |
| 10/27/2022 | 5.80 % |
| 10/26/2022 | 5.80 % |

|            |        |
|------------|--------|
| 10/26/2022 | 5.85 % |
| 10/25/2022 | 5.85 % |
| 10/25/2022 | 5.96 % |
| 10/24/2022 | 5.96 % |
| 10/24/2022 | 5.97 % |
| 10/23/2022 | 5.97 % |
| 10/22/2022 | 5.97 % |
| 10/21/2022 | 5.97 % |
| 10/21/2022 | 6.05 % |
| 10/20/2022 | 5.96 % |
| 10/20/2022 | 6.05 % |
| 10/19/2022 | 5.81 % |
| 10/19/2022 | 5.96 % |
| 10/18/2022 | 5.81 % |
| 10/18/2022 | 5.86 % |
| 10/17/2022 | 5.86 % |
| 10/17/2022 | 5.88 % |
| 10/16/2022 | 5.88 % |
| 10/15/2022 | 5.88 % |
| 10/14/2022 | 5.82 % |
| 10/14/2022 | 5.88 % |
| 10/13/2022 | 5.71 % |
| 10/13/2022 | 5.82 % |
| 10/12/2022 | 5.70 % |
| 10/12/2022 | 5.71 % |
| 10/11/2022 | 5.61 % |
| 10/11/2022 | 5.70 % |
| 10/10/2022 | 5.61 % |
| 10/10/2022 | 5.61 % |
| 10/9/2022  | 5.61 % |
| 10/8/2022  | 5.61 % |
| 10/7/2022  | 5.51 % |
| 10/7/2022  | 5.61 % |
| 10/6/2022  | 5.45 % |
| 10/6/2022  | 5.51 % |
| 10/5/2022  | 5.35 % |
| 10/5/2022  | 5.45 % |

|           |        |
|-----------|--------|
| 10/4/2022 | 5.35 % |
| 10/4/2022 | 5.42 % |
| 10/3/2022 | 5.42 % |
| 10/3/2022 | 5.57 % |
| 10/2/2022 | 5.57 % |
| 10/1/2022 | 5.57 % |
| 9/30/2022 | 5.56 % |
| 9/30/2022 | 5.57 % |
| 9/29/2022 | 5.44 % |
| 9/29/2022 | 5.56 % |
| 9/28/2022 | 5.44 % |
| 9/28/2022 | 5.66 % |
| 9/27/2022 | 5.56 % |
| 9/27/2022 | 5.66 % |
| 9/26/2022 | 5.34 % |
| 9/26/2022 | 5.56 % |
| 9/25/2022 | 5.34 % |
| 9/24/2022 | 5.34 % |
| 9/23/2022 | 5.27 % |
| 9/23/2022 | 5.34 % |
| 9/22/2022 | 5.10 % |
| 9/22/2022 | 5.27 % |
| 9/21/2022 | 5.10 % |
| 9/21/2022 | 5.10 % |
| 9/20/2022 | 5.04 % |
| 9/20/2022 | 5.10 % |
| 9/19/2022 | 4.98 % |
| 9/19/2022 | 5.04 % |
| 9/18/2022 | 4.98 % |
| 9/17/2022 | 4.98 % |
| 9/16/2022 | 4.98 % |
| 9/16/2022 | 4.98 % |
| 9/15/2022 | 4.93 % |
| 9/15/2022 | 4.98 % |
| 9/14/2022 | 4.91 % |
| 9/14/2022 | 4.93 % |
| 9/13/2022 | 4.77 % |

|           |        |
|-----------|--------|
| 9/13/2022 | 4.91 % |
| 9/12/2022 | 4.76 % |
| 9/12/2022 | 4.77 % |
| 9/11/2022 | 4.76 % |
| 9/10/2022 | 4.76 % |
| 9/9/2022  | 4.76 % |
| 9/9/2022  | 4.76 % |
| 9/8/2022  | 4.72 % |
| 9/8/2022  | 4.76 % |
| 9/7/2022  | 4.72 % |
| 9/7/2022  | 4.80 % |
| 9/6/2022  | 4.66 % |
| 9/6/2022  | 4.80 % |
| 9/5/2022  | 4.66 % |
| 9/4/2022  | 4.66 % |
| 9/3/2022  | 4.66 % |
| 9/2/2022  | 4.66 % |
| 9/2/2022  | 4.74 % |
| 9/1/2022  | 4.64 % |
| 9/1/2022  | 4.74 % |
| 8/31/2022 | 4.58 % |
| 8/31/2022 | 4.64 % |
| 8/30/2022 | 4.55 % |
| 8/30/2022 | 4.58 % |
| 8/29/2022 | 4.47 % |
| 8/29/2022 | 4.55 % |
| 8/28/2022 | 4.47 % |
| 8/27/2022 | 4.47 % |
| 8/26/2022 | 4.43 % |
| 8/26/2022 | 4.47 % |
| 8/25/2022 | 4.43 % |
| 8/25/2022 | 4.50 % |
| 8/24/2022 | 4.46 % |
| 8/24/2022 | 4.50 % |
| 8/23/2022 | 4.46 % |
| 8/23/2022 | 4.46 % |
| 8/22/2022 | 4.36 % |

|           |        |
|-----------|--------|
| 8/22/2022 | 4.46 % |
| 8/21/2022 | 4.36 % |
| 8/20/2022 | 4.36 % |
| 8/19/2022 | 4.26 % |
| 8/19/2022 | 4.36 % |
| 8/18/2022 | 4.26 % |
| 8/18/2022 | 4.30 % |
| 8/17/2022 | 4.20 % |
| 8/17/2022 | 4.30 % |
| 8/16/2022 | 4.17 % |
| 8/16/2022 | 4.20 % |
| 8/15/2022 | 4.17 % |
| 8/15/2022 | 4.21 % |
| 8/14/2022 | 4.21 % |
| 8/13/2022 | 4.21 % |
| 8/12/2022 | 4.21 % |
| 8/12/2022 | 4.27 % |
| 8/11/2022 | 4.25 % |
| 8/11/2022 | 4.27 % |
| 8/10/2022 | 4.25 % |
| 8/10/2022 | 4.32 % |
| 8/9/2022  | 4.26 % |
| 8/9/2022  | 4.32 % |
| 8/8/2022  | 4.26 % |
| 8/8/2022  | 4.31 % |
| 8/7/2022  | 4.31 % |
| 8/6/2022  | 4.31 % |
| 8/5/2022  | 4.11 % |
| 8/5/2022  | 4.31 % |
| 8/4/2022  | 4.11 % |
| 8/4/2022  | 4.18 % |
| 8/3/2022  | 4.18 % |
| 8/3/2022  | 4.23 % |
| 8/2/2022  | 4.05 % |
| 8/2/2022  | 4.23 % |
| 8/1/2022  | 4.05 % |
| 8/1/2022  | 4.07 % |

|           |        |
|-----------|--------|
| 7/31/2022 | 4.07 % |
| 7/30/2022 | 4.07 % |
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