Table. (Figure 5) Bivariate interaction effects of vs. λ for the in-control process. (a) γ = 0; (b) γ = 1; (c) γ = 1.5; (d) γ = 2.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1. .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 371.88 | 371.69 | 370.27 | 368.94 | 370.75 | 322.73 | 198.73 | 145.04 | 115.53 | 68.71 | 322.73 | 198.73 | 145.04 | 115.53 | 68.71 | 280.81 | 167.57 | 121.34 | 96.42 | 57.92 |
| 0.1 | 370.53 | 369.27 | 369.31 | 369.93 | 370.03 | 344.80 | 219.60 | 162.57 | 129.80 | 69.86 | 344.80 | 219.60 | 162.57 | 129.80 | 69.86 | 304.35 | 186.95 | 136.58 | 108.47 | 58.96 |
| 0.3 | 370.58 | 370.26 | 370.11 | 370.73 | 369.77 | 383.01 | 262.82 | 203.43 | 165.61 | 77.91 | 383.01 | 262.82 | 203.43 | 165.61 | 77.91 | 342.13 | 227.80 | 173.89 | 140.23 | 65.49 |
| 0.5 | 371.42 | 369.79 | 370.95 | 370.00 | 370.52 | 418.75 | 305.93 | 249.32 | 211.57 | 97.55 | 418.75 | 305.93 | 249.32 | 211.57 | 97.55 | 376.89 | 267.12 | 215.35 | 181.46 | 81.43 |
| 0.7 | 371.69 | 371.21 | 370.81 | 370.66 | 370.40 | 468.24 | 367.60 | 313.84 | 277.25 | 144.28 | 468.24 | 367.60 | 313.84 | 277.25 | 144.28 | 428.14 | 326.66 | 274.86 | 240.50 | 120.55 |
| 0.9 | 369.82 | 370.65 | 370.14 | 371.52 | 371.64 | 578.87 | 509.18 | 468.58 | 441.08 | 321.59 | 578.87 | 509.18 | 468.58 | 441.08 | 321.59 | 545.39 | 469.35 | 427.26 | 398.66 | 278.94 |

Table. (Figure 6) Univariate effects for the out-of-control process (Average ARL1, ARD1, ARR1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | ARL1 |  | ARL1 |  | ARL1 |  | ARL1 |
| 0.1 | 131.5567 | 0.0 | 169.1270 | 0.0 | 65.9386 | 0.10 | 224.9894 |
| 0.2 | 126.5182 | 1.0 | 121.4167 | 0.1 | 72.8303 | 0.15 | 197.2804 |
| 0.3 | 121.0346 | 1.5 | 107.4341 | 0.3 | 89.4459 | 0.20 | 173.2740 |
| 0.4 | 116.3152 | 2.0 | 100.4725 | 0.5 | 111.2507 | 0.25 | 152.6887 |
| 1.0 | 95.8419 | - | - | 0.7 | 144.8951 | 0.30 | 135.0183 |
| - | - | - | - | 0.9 | 225.1594 | 0.50 | 85.7177 |
| - | - | - | - | - | - | 0.75 | 52.2608 |
| - | - | - | - | - | - | 1.00 | 33.9722 |
| - | - | - | - | - | - | 2.00 | 9.0787 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | ARD1 |  | ARD1 |  | ARD1 |  | ARD1 |
| 0.1 | 0.0598 | 0.0 | 0.0000 | 0.0 | 0.2114 | 0.10 | 0.3207 |
| 0.2 | 0.1337 | 1.0 | 0.1287 | 0.1 | 0.2020 | 0.15 | 0.3317 |
| 0.3 | 0.1664 | 1.5 | 0.1758 | 0.3 | 0.1835 | 0.20 | 0.3281 |
| 0.4 | 0.1835 | 2.0 | 0.2037 | 0.5 | 0.1578 | 0.25 | 0.3160 |
| 1.0 | 0.1827 | - | - | 0.7 | 0.1147 | 0.30 | 0.2986 |
| - | - | - | - | 0.9 | 0.0018 | 0.50 | -0.2085 |
| - | - | - | - | - | - | 0.75 | -0.1084 |
| - | - | - | - | - | - | 1.00 | -0.0377 |
| - | - | - | - | - | - | 2.00 | 0.0666 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | ARR1 |  | ARR1 |  | ARR1 |  | ARR1 |
| 0.1 | -0.0581 | 0.0 | 0.0000 | 0.0 | -0.3202 | 0.10 | -0.3207 |
| 0.2 | -0.1568 | 1.0 | -0.2476 | 0.1 | -0.3126 | 0.15 | -0.3317 |
| 0.3 | -0.2295 | 1.5 | -0.2975 | 0.3 | -0.2923 | 0.20 | -0.3281 |
| 0.4 | -0.2827 | 2.0 |  | 0.5 | -0.2636 | 0.25 | -0.3160 |
| 1.0 | -0.4753 | - | - | 0.7 | -0.2097 | 0.30 | -0.2986 |
| - | - | - | - | 0.9 | -0.0446 | 0.50 | -0.2085 |
| - | - | - | - | - | - | 0.75 | -0.1084 |
| - | - | - | - | - | - | 1.00 | -0.3192 |
| - | - | - | - | - | - | 2.00 | 0.0666 |

Table. (Figure 8) λ and interactions for the average ARL1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 140.92 | 175.24 | 201.14 | 221.99 | 305.77 | 116.92 | 109.69 | 99.90 | 91.26 | 74.15 | 108.05 | 93.59 | 81.24 | 71.95 | 54.83 | 103.45 | 85.88 | 72.81 | 63.80 | 47.68 |
| 0.1 | 155.95 | 189.68 | 214.66 | 234.09 | 305.48 | 132.21 | 124.30 | 113.32 | 103.26 | 75.43 | 122.85 | 106.83 | 92.70 | 81.74 | 55.86 | 117.91 | 98.34 | 83.32 | 72.45 | 48.50 |
| 0.3 | 188.28 | 220.86 | 242.06 | 257.72 | 306.47 | 166.44 | 157.69 | 145.08 | 132.74 | 83.87 | 155.10 | 137.48 | 120.86 | 106.97 | 62.03 | 148.64 | 127.12 | 109.49 | 95.32 | 53.76 |
| 0.5 | 225.14 | 253.08 | 270.02 | 280.15 | 310.73 | 208.67 | 197.96 | 184.31 | 170.59 | 103.33 | 193.88 | 173.31 | 155.74 | 140.38 | 76.78 | 185.25 | 160.17 | 141.23 | 126.04 | 66.19 |
| 0.7 | 268.04 | 288.05 | 298.06 | 303.45 | 316.42 | 269.27 | 255.49 | 240.06 | 225.54 | 146.40 | 250.66 | 226.48 | 206.35 | 189.62 | 111.26 | 239.25 | 209.77 | 188.27 | 171.11 | 95.95 |
| 0.9 | 319.79 | 326.29 | 327.85 | 330.20 | 331.73 | 388.77 | 372.69 | 358.37 | 347.27 | 283.35 | 369.90 | 344.52 | 325.11 | 310.83 | 236.92 | 357.59 | 326.56 | 304.64 | 289.04 | 211.93 |

Table. (Figure 8) λ and interactions for the average ARD1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 0 | 0 | 0 | 0 | 0 | -0.15 | -0.35 | -0.49 | -0.58 | -0.76 | -0.20 | -0.44 | -0.58 | -0.66 | -0.82 | -0.22 | -0.48 | -0.62 | -0.70 | -0.84 |
| 0.1 | 0 | 0 | 0 | 0 | 0 | -0.13 | -0.33 | -0.46 | -0.55 | -0.75 | -0.18 | -0.41 | -0.55 | -0.64 | -0.82 | -0.21 | -0.46 | -0.60 | -0.68 | -0.84 |
| 0.3 | 0 | 0 | 0 | 0 | 0 | -0.11 | -0.28 | -0.40 | -0.48 | -0.73 | -0.16 | -0.37 | -0.49 | -0.58 | -0.80 | -0.19 | -0.41 | -0.54 | -0.62 | -0.82 |
| 0.5 | 0 | 0 | 0 | 0 | 0 | -0.08 | -0.22 | -0.32 | -0.39 | -0.67 | -0.14 | -0.31 | -0.42 | -0.50 | -0.75 | -0.17 | -0.36 | -0.47 | -0.55 | -0.79 |
| 0.7 | 0 | 0 | 0 | 0 | 0 | 0.00 | -0.12 | -0.20 | -0.26 | -0.54 | -0.07 | -0.22 | -0.31 | -0.38 | -0.65 | -0.11 | -0.27 | -0.37 | -0.44 | -0.70 |
| 0.9 | 0 | 0 | 0 | 0 | 0 | 0.21 | 0.14 | 0.09 | 0.05 | -0.15 | 0.15 | 0.05 | -0.01 | -0.06 | -0.29 | 0.11 | 0.00 | -0.07 | -0.13 | -0.36 |

Table. (Figure 8) λ and interactions for the average ARR1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.85 | 0.54 | 0.51 | 0.42 | 0.24 | 0.80 | 0.47 | 0.42 | 0.34 | 0.18 | 0.78 | 0.43 | 0.38 | 0.30 | 0.16 |
| 0.1 | 1.12 | 1.10 | 1.08 | 1.06 | 1.00 | 0.97 | 0.80 | 0.58 | 0.48 | 0.25 | 0.92 | 0.72 | 0.48 | 0.38 | 0.18 | 0.89 | 0.68 | 0.44 | 0.34 | 0.16 |
| 0.3 | 1.40 | 1.28 | 1.24 | 1.19 | 1.00 | 1.25 | 0.99 | 0.75 | 0.62 | 0.27 | 1.18 | 0.89 | 0.63 | 0.50 | 0.20 | 1.15 | 0.85 | 0.58 | 0.45 | 0.18 |
| 0.5 | 1.74 | 1.42 | 1.41 | 1.31 | 1.02 | 1.60 | 1.17 | 0.96 | 0.80 | 0.34 | 1.51 | 1.05 | 0.82 | 0.66 | 0.25 | 1.45 | 0.99 | 0.75 | 0.60 | 0.22 |
| 0.7 | 2.16 | 1.58 | 1.59 | 1.44 | 1.04 | 2.12 | 1.44 | 1.26 | 1.06 | 0.48 | 1.99 | 1.31 | 1.10 | 0.89 | 0.36 | 1.92 | 1.23 | 1.00 | 0.81 | 0.32 |
| 0.9 | 2.70 | 1.74 | 1.78 | 1.59 | 1.09 | 3.17 | 2.01 | 1.91 | 1.64 | 0.93 | 3.03 | 1.89 | 1.74 | 1.47 | 0.78 | 2.94 | 1.81 | 1.63 | 1.37 | 0.69 |

Table. and interactions for the average ARL1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 28.27 | 36.26 | 46.54 | 58.25 | 155.09 | 31.92 | 33.98 | 33.64 | 43.39 | 40.14 | 29.36 | 33.03 | 34.81 | 35.42 | 38.78 | 29.97 | 33.12 | 34.14 | 34.10 | 35.24 |
| 0.1 | 33.24 | 43.15 | 54.90 | 67.47 | 155.75 | 31.54 | 45.32 | 41.13 | 46.41 | 52.34 | 34.59 | 39.01 | 40.83 | 40.99 | 39.60 | 35.38 | 39.17 | 39.96 | 39.29 | 35.90 |
| 0.3 | 46.75 | 61.42 | 75.98 | 89.54 | 159.08 | 47.39 | 55.53 | 59.61 | 61.06 | 54.25 | 48.29 | 54.52 | 56.27 | 55.54 | 43.76 | 49.20 | 54.46 | 54.83 | 53.05 | 39.66 |
| 0.5 | 68.39 | 88.24 | 104.43 | 117.00 | 166.40 | 68.26 | 78.68 | 82.72 | 83.37 | 65.77 | 68.90 | 76.34 | 77.61 | 76.02 | 53.31 | 69.75 | 75.31 | 75.24 | 72.65 | 48.13 |
| 0.7 | 106.92 | 129.81 | 144.37 | 153.52 | 180.25 | 105.27 | 116.05 | 118.84 | 117.91 | 90.63 | 105.08 | 111.81 | 110.95 | 107.94 | 75.02 | 105.20 | 109.34 | 106.90 | 102.61 | 67.79 |
| 0.9 | 191.24 | 204.46 | 209.30 | 212.38 | 217.37 | 196.36 | 201.19 | 198.80 | 196.21 | 169.09 | 194.41 | 194.58 | 189.98 | 185.11 | 150.46 | 193.61 | 190.70 | 184.51 | 178.88 | 140.32 |

Table. and interactions for the average ARD1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 0 | 0 | 0 | 0 | 0 | 0.13 | -0.06 | -0.28 | -0.26 | -0.74 | 0.04 | -0.09 | -0.25 | -0.39 | -0.75 | 0.06 | -0.09 | -0.27 | -0.41 | -0.77 |
| 0.1 | 0 | 0 | 0 | 0 | 0 | -0.05 | 0.05 | -0.25 | -0.31 | -0.66 | 0.04 | -0.10 | -0.26 | -0.39 | -0.75 | 0.06 | -0.09 | -0.27 | -0.42 | -0.77 |
| 0.3 | 0 | 0 | 0 | 0 | 0 | 0.01 | -0.10 | -0.22 | -0.32 | -0.66 | 0.03 | -0.11 | -0.26 | -0.38 | -0.72 | 0.05 | -0.11 | -0.28 | -0.41 | -0.75 |
| 0.5 | 0 | 0 | 0 | 0 | 0 | 0.00 | -0.11 | -0.21 | -0.29 | -0.60 | 0.01 | -0.13 | -0.26 | -0.35 | -0.68 | 0.02 | -0.15 | -0.28 | -0.38 | -0.71 |
| 0.7 | 0 | 0 | 0 | 0 | 0 | -0.02 | -0.11 | -0.18 | -0.23 | -0.50 | -0.02 | -0.14 | -0.23 | -0.30 | -0.58 | -0.02 | -0.16 | -0.26 | -0.33 | -0.62 |
| 0.9 | 0 | 0 | 0 | 0 | 0 | 0.03 | -0.02 | -0.05 | -0.08 | -0.22 | 0.02 | -0.05 | -0.09 | -0.13 | -0.31 | 0.01 | -0.07 | -0.12 | -0.16 | -0.35 |

Table. and interactions for the average ARR1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.13 | 0.94 | 0.72 | 0.74 | 0.26 | 1.04 | 0.91 | 0.75 | 0.61 | 0.25 | 1.06 | 0.91 | 0.73 | 0.59 | 0.23 |
| 0.1 | 1.18 | 1.19 | 1.18 | 1.16 | 1.00 | 1.12 | 1.25 | 0.88 | 0.80 | 0.34 | 1.22 | 1.08 | 0.88 | 0.70 | 0.26 | 1.25 | 1.08 | 0.86 | 0.67 | 0.23 |
| 0.3 | 1.65 | 1.69 | 1.63 | 1.54 | 1.03 | 1.68 | 1.53 | 1.28 | 1.05 | 0.35 | 1.71 | 1.50 | 1.21 | 0.95 | 0.28 | 1.74 | 1.50 | 1.18 | 0.91 | 0.26 |
| 0.5 | 2.42 | 2.43 | 2.24 | 2.01 | 1.07 | 2.41 | 2.17 | 1.78 | 1.43 | 0.42 | 2.44 | 2.11 | 1.67 | 1.31 | 0.34 | 2.47 | 2.08 | 1.62 | 1.25 | 0.31 |
| 0.7 | 3.78 | 3.58 | 3.10 | 2.64 | 1.16 | 3.72 | 3.20 | 2.55 | 2.02 | 0.58 | 3.72 | 3.08 | 2.38 | 1.85 | 0.48 | 3.72 | 3.02 | 2.30 | 1.76 | 0.44 |
| 0.9 | 6.77 | 5.64 | 4.50 | 3.65 | 1.40 | 6.95 | 5.55 | 4.27 | 3.37 | 1.09 | 6.88 | 5.37 | 4.08 | 3.18 | 0.97 | 6.85 | 5.26 | 3.96 | 3.07 | 0.90 |

Table. (Figure 10) and interactions for the average ARL1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 9.56 | 9.95 | 11.36 | 13.46 | 43.79 | 9.84 | 10.26 | 11.30 | 12.49 | 21.62 | 10.03 | 10.54 | 11.53 | 12.52 | 19.39 | 10.20 | 10.82 | 11.81 | 12.73 | 18.72 |
| 0.1 | 10.92 | 11.65 | 13.48 | 15.93 | 44.35 | 11.27 | 12.03 | 13.33 | 14.62 | 22.10 | 11.51 | 12.37 | 13.56 | 14.63 | 19.85 | 11.73 | 12.71 | 13.88 | 14.82 | 19.15 |
| 0.3 | 14.60 | 16.42 | 19.24 | 22.46 | 46.36 | 15.18 | 16.93 | 18.80 | 20.35 | 24.38 | 15.57 | 17.39 | 19.08 | 20.26 | 21.88 | 15.90 | 17.87 | 19.51 | 20.46 | 21.06 |
| 0.5 | 20.80 | 24.36 | 28.34 | 32.03 | 50.61 | 21.65 | 24.77 | 27.29 | 28.92 | 29.12 | 22.22 | 25.33 | 27.51 | 28.65 | 26.19 | 22.74 | 25.90 | 27.93 | 28.85 | 25.12 |
| 0.7 | 33.36 | 39.30 | 43.97 | 47.52 | 58.66 | 34.58 | 39.34 | 42.04 | 43.29 | 39.02 | 35.35 | 39.80 | 41.92 | 42.58 | 35.48 | 36.06 | 40.36 | 42.15 | 42.55 | 34.02 |
| 0.9 | 71.22 | 76.40 | 78.76 | 80.06 | 81.75 | 73.51 | 77.31 | 78.01 | 77.85 | 70.15 | 74.52 | 77.62 | 77.68 | 77.08 | 66.58 | 75.59 | 78.24 | 77.93 | 76.95 | 64.86 |

Table. (Figure 10) and interactions for the average ARD1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 0 | 0 | 0 | 0 | 0 | -0.09 | -0.11 | -0.14 | -0.19 | -0.41 | -0.08 | -0.09 | -0.13 | -0.18 | -0.42 | -0.01 | 0.00 | -0.03 | -0.08 | -0.37 |
| 0.1 | 0 | 0 | 0 | 0 | 0 | -0.09 | -0.11 | -0.15 | -0.19 | -0.41 | -0.08 | -0.09 | -0.13 | -0.18 | -0.42 | 0.00 | 0.00 | -0.03 | -0.08 | -0.37 |
| 0.3 | 0 | 0 | 0 | 0 | 0 | -0.10 | -0.12 | -0.15 | -0.19 | -0.39 | -0.08 | -0.10 | -0.13 | -0.18 | -0.41 | 0.00 | 0.00 | -0.03 | -0.08 | -0.36 |
| 0.5 | 0 | 0 | 0 | 0 | 0 | -0.10 | -0.12 | -0.15 | -0.18 | -0.37 | -0.08 | -0.10 | -0.14 | -0.17 | -0.38 | 0.01 | -0.01 | -0.04 | -0.08 | -0.34 |
| 0.7 | 0 | 0 | 0 | 0 | 0 | -0.10 | -0.12 | -0.14 | -0.16 | -0.31 | -0.09 | -0.11 | -0.13 | -0.15 | -0.33 | 0.00 | -0.02 | -0.04 | -0.07 | -0.29 |
| 0.9 | 0 | 0 | 0 | 0 | 0 | -0.09 | -0.09 | -0.10 | -0.11 | -0.19 | -0.07 | -0.08 | -0.09 | -0.10 | -0.20 | 0.00 | 0.00 | -0.02 | -0.03 | -0.15 |

Table. (Figure 10) and interactions for the average ARR1 for

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .0 | | | | |  | | | | |  | | | | |  | | | | |
|  | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 | 0.1 | 0.2 | 0.3 | 0.4 | 1.0 |
| 0.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.02 | 1.03 | 1.01 | 0.98 | 0.67 | 1.04 | 1.05 | 1.03 | 0.99 | 0.66 | 1.05 | 1.08 | 1.06 | 1.01 | 0.67 |
| 0.1 | 1.13 | 1.15 | 1.17 | 1.17 | 1.02 | 1.16 | 1.19 | 1.18 | 1.13 | 0.69 | 1.18 | 1.22 | 1.20 | 1.15 | 0.68 | 1.20 | 1.25 | 1.23 | 1.17 | 0.69 |
| 0.3 | 1.48 | 1.58 | 1.62 | 1.61 | 1.09 | 1.53 | 1.63 | 1.62 | 1.55 | 0.77 | 1.56 | 1.67 | 1.66 | 1.57 | 0.75 | 1.59 | 1.71 | 1.70 | 1.60 | 0.76 |
| 0.5 | 2.07 | 2.29 | 2.34 | 2.28 | 1.22 | 2.14 | 2.35 | 2.33 | 2.19 | 0.91 | 2.19 | 2.40 | 2.37 | 2.21 | 0.88 | 2.23 | 2.45 | 2.42 | 2.26 | 0.89 |
| 0.7 | 3.24 | 3.64 | 3.63 | 3.42 | 1.47 | 3.36 | 3.70 | 3.60 | 3.30 | 1.19 | 3.43 | 3.76 | 3.64 | 3.32 | 1.16 | 3.49 | 3.83 | 3.69 | 3.37 | 1.16 |
| 0.9 | 6.86 | 7.18 | 6.70 | 6.01 | 2.18 | 7.10 | 7.36 | 6.80 | 6.05 | 2.05 | 7.21 | 7.44 | 6.86 | 6.09 | 2.03 | 7.32 | 7.54 | 6.94 | 6.16 | 2.04 |