

关于公布亳州市暴雨强度公式的通知

各县、区人民政府，亳州高新区管委会、亳芜现代产业园区管委会，市各有关单位：

为进一步优化城市雨水排水规划设计，科学编制城市排水规划和指导排水设施建设，根据住房和城乡建设部办公厅、国家发展改革委办公厅、中国气象局办公室《关于进一步规范城市内涝防治信息发布等有关工作的通知》（建办城〔2022〕30号）等文件要求，市城市管理局会同市气象局对亳州市暴雨强度公式进行修编，并通过了专家评审。现将修编后的亳州市暴雨强度公式公布如下：

修订后的暴雨强度公式：

$$q = \frac{2411.789 (1 + 0.815 \lg P)}{(t + 12.821)^{0.730}}$$

式中：q—设计暴雨强度，单位：L/(S·hm²)

P—设计重现期，单位：年

t—降雨历时，单位：min

该公式适用于亳州市区。

各相关单位应将该公式作为排水工程规划、设计、建设和管理的技术依据，确保城市排水防涝设施高标准建设、管理。

该公式自公布之日启用，2015年编制的亳州市暴雨强度公式同时作废。新修编的亳州市暴雨强度公式增加了近几年的降水资料，依据国家最新技术规范编制，更加准确客观表达城市暴雨特征。

附件：1.亳州市暴雨强度公式查算表

2.亳州市暴雨强度曲线图

亳州市城市管理局

2024年9月24日

亳州市气象局

2024年9月24日

附件 1

亳州市暴雨强度公式查算表

P=1a 亳州气象站

| | | t (min) | | q (L/s·hm ²) | | | | | | | | | |
|----|---------|---------|---------|--------------------------|---------|-----|--------|-----|--------|-----|--------|-----|--------|
| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
| 1 | 326.403 | 27 | 153.172 | 53 | 103.093 | 79 | 78.700 | 105 | 64.106 | 131 | 54.330 | 157 | 47.295 |
| 2 | 311.900 | 28 | 150.269 | 54 | 101.851 | 80 | 78.006 | 106 | 63.659 | 132 | 54.018 | 158 | 47.063 |
| 3 | 298.723 | 29 | 147.483 | 55 | 100.642 | 81 | 77.324 | 107 | 63.220 | 133 | 53.709 | 159 | 46.834 |
| 4 | 286.694 | 30 | 144.807 | 56 | 99.463 | 82 | 76.656 | 108 | 62.786 | 134 | 53.404 | 160 | 46.607 |
| 5 | 275.667 | 31 | 142.233 | 57 | 98.313 | 83 | 75.999 | 109 | 62.359 | 135 | 53.103 | 161 | 46.383 |
| 6 | 265.518 | 32 | 139.757 | 58 | 97.192 | 84 | 75.355 | 110 | 61.939 | 136 | 52.806 | 162 | 46.161 |
| 7 | 256.145 | 33 | 137.372 | 59 | 96.099 | 85 | 74.723 | 111 | 61.524 | 137 | 52.512 | 163 | 45.941 |
| 8 | 247.459 | 34 | 135.073 | 60 | 95.031 | 86 | 74.101 | 112 | 61.115 | 138 | 52.221 | 164 | 45.723 |
| 9 | 239.387 | 35 | 132.856 | 61 | 93.989 | 87 | 73.491 | 113 | 60.713 | 139 | 51.934 | 165 | 45.508 |
| 10 | 231.863 | 36 | 130.716 | 62 | 92.971 | 88 | 72.892 | 114 | 60.316 | 140 | 51.651 | 166 | 45.295 |
| 11 | 224.834 | 37 | 128.649 | 63 | 91.977 | 89 | 72.303 | 115 | 59.924 | 141 | 51.371 | 167 | 45.083 |
| 12 | 218.249 | 38 | 126.652 | 64 | 91.006 | 90 | 71.724 | 116 | 59.538 | 142 | 51.094 | 168 | 44.875 |
| 13 | 212.069 | 39 | 124.721 | 65 | 90.056 | 91 | 71.156 | 117 | 59.157 | 143 | 50.820 | 169 | 44.668 |
| 14 | 206.255 | 40 | 122.852 | 66 | 89.128 | 92 | 70.597 | 118 | 58.782 | 144 | 50.549 | 170 | 44.463 |
| 15 | 200.775 | 41 | 121.043 | 67 | 88.220 | 93 | 70.047 | 119 | 58.411 | 145 | 50.282 | 171 | 44.260 |
| 16 | 195.601 | 42 | 119.291 | 68 | 87.332 | 94 | 69.507 | 120 | 58.046 | 146 | 50.017 | 172 | 44.059 |
| 17 | 190.707 | 43 | 117.592 | 69 | 86.463 | 95 | 68.975 | 121 | 57.686 | 147 | 49.756 | 173 | 43.860 |
| 18 | 186.071 | 44 | 115.945 | 70 | 85.613 | 96 | 68.452 | 122 | 57.330 | 148 | 49.497 | 174 | 43.663 |
| 19 | 181.672 | 45 | 114.347 | 71 | 84.780 | 97 | 67.938 | 123 | 56.979 | 149 | 49.242 | 175 | 43.468 |
| 20 | 177.491 | 46 | 112.797 | 72 | 83.965 | 98 | 67.432 | 124 | 56.633 | 150 | 48.989 | 176 | 43.275 |
| 21 | 173.514 | 47 | 111.290 | 73 | 83.167 | 99 | 66.934 | 125 | 56.291 | 151 | 48.739 | 177 | 43.084 |
| 22 | 169.725 | 48 | 109.827 | 74 | 82.384 | 100 | 66.444 | 126 | 55.954 | 152 | 48.492 | 178 | 42.895 |
| 23 | 166.110 | 49 | 108.405 | 75 | 81.618 | 101 | 65.962 | 127 | 55.621 | 153 | 48.247 | 179 | 42.707 |
| 24 | 162.658 | 50 | 107.022 | 76 | 80.867 | 102 | 65.487 | 128 | 55.292 | 154 | 48.005 | 180 | 42.521 |
| 25 | 159.357 | 51 | 105.677 | 77 | 80.130 | 103 | 65.019 | 129 | 54.967 | 155 | 47.766 | 181 | 42.337 |
| 26 | 156.198 | 52 | 104.367 | 78 | 79.408 | 104 | 64.559 | 130 | 54.647 | 156 | 47.529 | 182 | 42.154 |

P=2a 亳州气象站

t (min)

q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|--------|-----|--------|-----|--------|
| 1 | 439.809 | 27 | 204.549 | 53 | 139.335 | 79 | 107.613 | 105 | 88.551 | 131 | 75.712 | 157 | 66.421 |
| 2 | 419.247 | 28 | 200.754 | 54 | 137.723 | 80 | 106.708 | 106 | 87.966 | 132 | 75.301 | 158 | 66.114 |
| 3 | 400.728 | 29 | 197.113 | 55 | 136.151 | 81 | 105.820 | 107 | 87.390 | 133 | 74.894 | 159 | 65.810 |
| 4 | 383.954 | 30 | 193.617 | 56 | 134.619 | 82 | 104.948 | 108 | 86.822 | 134 | 74.492 | 160 | 65.509 |
| 5 | 368.681 | 31 | 190.258 | 57 | 133.126 | 83 | 104.093 | 109 | 86.262 | 135 | 74.095 | 161 | 65.212 |
| 6 | 354.710 | 32 | 187.028 | 58 | 131.669 | 84 | 103.252 | 110 | 85.711 | 136 | 73.703 | 162 | 64.917 |
| 7 | 341.877 | 33 | 183.918 | 59 | 130.248 | 85 | 102.427 | 111 | 85.167 | 137 | 73.315 | 163 | 64.625 |
| 8 | 330.043 | 34 | 180.922 | 60 | 128.861 | 86 | 101.617 | 112 | 84.631 | 138 | 72.932 | 164 | 64.337 |
| 9 | 319.092 | 35 | 178.034 | 61 | 127.506 | 87 | 100.821 | 113 | 84.103 | 139 | 72.554 | 165 | 64.051 |
| 10 | 308.927 | 36 | 175.247 | 62 | 126.184 | 88 | 100.039 | 114 | 83.582 | 140 | 72.179 | 166 | 63.768 |
| 11 | 299.462 | 37 | 172.557 | 63 | 124.891 | 89 | 99.270 | 115 | 83.068 | 141 | 71.809 | 167 | 63.488 |
| 12 | 290.626 | 38 | 169.958 | 64 | 123.628 | 90 | 98.514 | 116 | 82.561 | 142 | 71.444 | 168 | 63.211 |
| 13 | 282.355 | 39 | 167.445 | 65 | 122.394 | 91 | 97.772 | 117 | 82.061 | 143 | 71.082 | 169 | 62.936 |
| 14 | 274.596 | 40 | 165.014 | 66 | 121.187 | 92 | 97.041 | 118 | 81.568 | 144 | 70.725 | 170 | 62.664 |
| 15 | 267.301 | 41 | 162.662 | 67 | 120.006 | 93 | 96.323 | 119 | 81.081 | 145 | 70.372 | 171 | 62.395 |
| 16 | 260.427 | 42 | 160.383 | 68 | 118.851 | 94 | 95.617 | 120 | 80.601 | 146 | 70.022 | 172 | 62.128 |
| 17 | 253.939 | 43 | 158.175 | 69 | 117.720 | 95 | 94.922 | 121 | 80.127 | 147 | 69.677 | 173 | 61.864 |
| 18 | 247.804 | 44 | 156.035 | 70 | 116.614 | 96 | 94.239 | 122 | 79.660 | 148 | 69.335 | 174 | 61.602 |
| 19 | 241.993 | 45 | 153.958 | 71 | 115.531 | 97 | 93.567 | 123 | 79.198 | 149 | 68.997 | 175 | 61.343 |
| 20 | 236.479 | 46 | 151.943 | 72 | 114.470 | 98 | 92.905 | 124 | 78.743 | 150 | 68.663 | 176 | 61.086 |
| 21 | 231.240 | 47 | 149.986 | 73 | 113.430 | 99 | 92.253 | 125 | 78.293 | 151 | 68.332 | 177 | 60.832 |
| 22 | 226.256 | 48 | 148.085 | 74 | 112.412 | 100 | 91.612 | 126 | 77.849 | 152 | 68.005 | 178 | 60.580 |
| 23 | 221.506 | 49 | 146.237 | 75 | 111.414 | 101 | 90.981 | 127 | 77.411 | 153 | 67.681 | 179 | 60.330 |
| 24 | 216.976 | 50 | 144.440 | 76 | 110.436 | 102 | 90.360 | 128 | 76.978 | 154 | 67.361 | 180 | 60.083 |
| 25 | 212.648 | 51 | 142.692 | 77 | 109.477 | 103 | 89.748 | 129 | 76.551 | 155 | 67.044 | 181 | 59.837 |
| 26 | 208.510 | 52 | 140.991 | 78 | 108.536 | 104 | 89.145 | 130 | 76.129 | 156 | 66.731 | 182 | 59.595 |

P=3a 亳州气象站

t (min)

q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|--------|-----|--------|
| 1 | 493.141 | 27 | 228.968 | 53 | 156.831 | 79 | 121.728 | 105 | 100.588 | 131 | 86.315 | 157 | 75.960 |
| 2 | 469.668 | 28 | 224.764 | 54 | 155.047 | 80 | 120.726 | 106 | 99.939 | 132 | 85.857 | 158 | 75.618 |
| 3 | 448.602 | 29 | 220.733 | 55 | 153.309 | 81 | 119.742 | 107 | 99.299 | 133 | 85.404 | 159 | 75.279 |
| 4 | 429.579 | 30 | 216.864 | 56 | 151.615 | 82 | 118.776 | 108 | 98.668 | 134 | 84.956 | 160 | 74.943 |
| 5 | 412.306 | 31 | 213.146 | 57 | 149.964 | 83 | 117.827 | 109 | 98.046 | 135 | 84.514 | 161 | 74.611 |
| 6 | 396.543 | 32 | 209.571 | 58 | 148.353 | 84 | 116.896 | 110 | 97.434 | 136 | 84.078 | 162 | 74.282 |
| 7 | 382.094 | 33 | 206.130 | 59 | 146.781 | 85 | 115.982 | 111 | 96.830 | 137 | 83.646 | 163 | 73.957 |
| 8 | 368.795 | 34 | 202.816 | 60 | 145.246 | 86 | 115.084 | 112 | 96.234 | 138 | 83.219 | 164 | 73.634 |
| 9 | 356.509 | 35 | 199.621 | 61 | 143.748 | 87 | 114.201 | 113 | 95.647 | 139 | 82.797 | 165 | 73.315 |
| 10 | 345.121 | 36 | 196.539 | 62 | 142.285 | 88 | 113.334 | 114 | 95.068 | 140 | 82.381 | 166 | 72.999 |
| 11 | 334.532 | 37 | 193.564 | 63 | 140.855 | 89 | 112.482 | 115 | 94.496 | 141 | 81.968 | 167 | 72.687 |
| 12 | 324.658 | 38 | 190.689 | 64 | 139.457 | 90 | 111.644 | 116 | 93.933 | 142 | 81.561 | 168 | 72.377 |
| 13 | 315.426 | 39 | 187.911 | 65 | 138.091 | 91 | 110.820 | 117 | 93.377 | 143 | 81.158 | 169 | 72.070 |
| 14 | 306.773 | 40 | 185.223 | 66 | 136.756 | 92 | 110.010 | 118 | 92.829 | 144 | 80.760 | 170 | 71.766 |
| 15 | 298.644 | 41 | 182.622 | 67 | 135.449 | 93 | 109.214 | 119 | 92.288 | 145 | 80.366 | 171 | 71.465 |
| 16 | 290.992 | 42 | 180.102 | 68 | 134.171 | 94 | 108.431 | 120 | 91.754 | 146 | 79.977 | 172 | 71.167 |
| 17 | 283.774 | 43 | 177.661 | 69 | 132.920 | 95 | 107.660 | 121 | 91.227 | 147 | 79.591 | 173 | 70.872 |
| 18 | 276.953 | 44 | 175.294 | 70 | 131.695 | 96 | 106.902 | 122 | 90.707 | 148 | 79.210 | 174 | 70.580 |
| 19 | 270.495 | 45 | 172.999 | 71 | 130.496 | 97 | 106.156 | 123 | 90.194 | 149 | 78.834 | 175 | 70.290 |
| 20 | 264.372 | 46 | 170.770 | 72 | 129.321 | 98 | 105.421 | 124 | 89.687 | 150 | 78.461 | 176 | 70.003 |
| 21 | 258.557 | 47 | 168.607 | 73 | 128.170 | 99 | 104.698 | 125 | 89.187 | 151 | 78.092 | 177 | 69.719 |
| 22 | 253.027 | 48 | 166.505 | 74 | 127.043 | 100 | 103.987 | 126 | 88.693 | 152 | 77.727 | 178 | 69.437 |
| 23 | 247.759 | 49 | 164.462 | 75 | 125.938 | 101 | 103.286 | 127 | 88.206 | 153 | 77.366 | 179 | 69.158 |
| 24 | 242.736 | 50 | 162.475 | 76 | 124.854 | 102 | 102.596 | 128 | 87.724 | 154 | 77.009 | 180 | 68.882 |
| 25 | 237.940 | 51 | 160.542 | 77 | 123.792 | 103 | 101.917 | 129 | 87.249 | 155 | 76.656 | 181 | 68.608 |
| 26 | 233.355 | 52 | 158.662 | 78 | 122.750 | 104 | 101.248 | 130 | 86.779 | 156 | 76.306 | 182 | 68.336 |

P=5a 亳州气象站

t (min)

q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|--------|-----|--------|
| 1 | 558.552 | 27 | 258.865 | 53 | 178.418 | 79 | 139.253 | 105 | 115.607 | 131 | 99.598 | 157 | 87.953 |
| 2 | 531.410 | 28 | 254.172 | 54 | 176.430 | 80 | 138.132 | 106 | 114.879 | 132 | 99.083 | 158 | 87.567 |
| 3 | 507.155 | 29 | 249.672 | 55 | 174.492 | 81 | 137.033 | 107 | 114.162 | 133 | 98.574 | 159 | 87.185 |
| 4 | 485.332 | 30 | 245.354 | 56 | 172.604 | 82 | 135.953 | 108 | 113.456 | 134 | 98.072 | 160 | 86.807 |
| 5 | 465.578 | 31 | 241.205 | 57 | 170.762 | 83 | 134.894 | 109 | 112.759 | 135 | 97.575 | 161 | 86.433 |
| 6 | 447.602 | 32 | 237.217 | 58 | 168.965 | 84 | 133.853 | 110 | 112.072 | 136 | 97.084 | 162 | 86.063 |
| 7 | 431.163 | 33 | 233.379 | 59 | 167.212 | 85 | 132.831 | 111 | 111.395 | 137 | 96.599 | 163 | 85.696 |
| 8 | 416.066 | 34 | 229.682 | 60 | 165.501 | 86 | 131.827 | 112 | 110.728 | 138 | 96.119 | 164 | 85.333 |
| 9 | 402.145 | 35 | 226.119 | 61 | 163.830 | 87 | 130.840 | 113 | 110.069 | 139 | 95.645 | 165 | 84.973 |
| 10 | 389.264 | 36 | 222.683 | 62 | 162.198 | 88 | 129.871 | 114 | 109.420 | 140 | 95.177 | 166 | 84.617 |
| 11 | 377.304 | 37 | 219.365 | 63 | 160.603 | 89 | 128.918 | 115 | 108.780 | 141 | 94.713 | 167 | 84.265 |
| 12 | 366.167 | 38 | 216.160 | 64 | 159.044 | 90 | 127.981 | 116 | 108.148 | 142 | 94.255 | 168 | 83.916 |
| 13 | 355.767 | 39 | 213.063 | 65 | 157.520 | 91 | 127.060 | 117 | 107.524 | 143 | 93.802 | 169 | 83.570 |
| 14 | 346.030 | 40 | 210.067 | 66 | 156.029 | 92 | 126.154 | 118 | 106.909 | 144 | 93.354 | 170 | 83.227 |
| 15 | 336.893 | 41 | 207.167 | 67 | 154.572 | 93 | 125.263 | 119 | 106.303 | 145 | 92.911 | 171 | 82.888 |
| 16 | 328.298 | 42 | 204.359 | 68 | 153.145 | 94 | 124.386 | 120 | 105.704 | 146 | 92.473 | 172 | 82.552 |
| 17 | 320.197 | 43 | 201.638 | 69 | 151.749 | 95 | 123.524 | 121 | 105.113 | 147 | 92.040 | 173 | 82.219 |
| 18 | 312.548 | 44 | 199.000 | 70 | 150.382 | 96 | 122.676 | 122 | 104.529 | 148 | 91.611 | 174 | 81.889 |
| 19 | 305.311 | 45 | 196.441 | 71 | 149.043 | 97 | 121.841 | 123 | 103.953 | 149 | 91.187 | 175 | 81.563 |
| 20 | 298.452 | 46 | 193.957 | 72 | 147.732 | 98 | 121.019 | 124 | 103.385 | 150 | 90.768 | 176 | 81.239 |
| 21 | 291.943 | 47 | 191.545 | 73 | 146.447 | 99 | 120.210 | 125 | 102.823 | 151 | 90.353 | 177 | 80.918 |
| 22 | 285.754 | 48 | 189.202 | 74 | 145.188 | 100 | 119.413 | 126 | 102.269 | 152 | 89.942 | 178 | 80.600 |
| 23 | 279.863 | 49 | 186.925 | 75 | 143.954 | 101 | 118.628 | 127 | 101.721 | 153 | 89.536 | 179 | 80.285 |
| 24 | 274.248 | 50 | 184.710 | 76 | 142.744 | 102 | 117.856 | 128 | 101.181 | 154 | 89.134 | 180 | 79.973 |
| 25 | 268.888 | 51 | 182.556 | 77 | 141.558 | 103 | 117.095 | 129 | 100.647 | 155 | 88.736 | 181 | 79.664 |
| 26 | 263.766 | 52 | 180.460 | 78 | 140.394 | 104 | 116.346 | 130 | 100.119 | 156 | 88.342 | 182 | 79.358 |

P=10a 亳州气象站

t (min) q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 1 | 643.769 | 27 | 297.506 | 53 | 206.170 | 79 | 161.699 | 105 | 134.795 | 131 | 116.537 | 157 | 103.226 |
| 2 | 611.800 | 28 | 292.170 | 54 | 203.914 | 80 | 160.426 | 106 | 133.966 | 132 | 115.950 | 158 | 102.784 |
| 3 | 583.354 | 29 | 287.056 | 55 | 201.715 | 81 | 159.176 | 107 | 133.149 | 133 | 115.369 | 159 | 102.347 |
| 4 | 557.855 | 30 | 282.149 | 56 | 199.572 | 82 | 157.949 | 108 | 132.344 | 134 | 114.795 | 160 | 101.915 |
| 5 | 534.848 | 31 | 277.436 | 57 | 197.481 | 83 | 156.744 | 109 | 131.550 | 135 | 114.227 | 161 | 101.486 |
| 6 | 513.970 | 32 | 272.905 | 58 | 195.443 | 84 | 155.561 | 110 | 130.768 | 136 | 113.666 | 162 | 101.062 |
| 7 | 494.926 | 33 | 268.546 | 59 | 193.453 | 85 | 154.398 | 111 | 129.996 | 137 | 113.112 | 163 | 100.642 |
| 8 | 477.473 | 34 | 264.348 | 60 | 191.510 | 86 | 153.257 | 112 | 129.235 | 138 | 112.564 | 164 | 100.227 |
| 9 | 461.411 | 35 | 260.303 | 61 | 189.613 | 87 | 152.134 | 113 | 128.485 | 139 | 112.023 | 165 | 99.815 |
| 10 | 446.574 | 36 | 256.401 | 62 | 187.760 | 88 | 151.032 | 114 | 127.744 | 140 | 111.487 | 166 | 99.407 |
| 11 | 432.819 | 37 | 252.635 | 63 | 185.950 | 89 | 149.947 | 115 | 127.014 | 141 | 110.958 | 167 | 99.003 |
| 12 | 420.028 | 38 | 248.998 | 64 | 184.180 | 90 | 148.882 | 116 | 126.294 | 142 | 110.434 | 168 | 98.603 |
| 13 | 408.098 | 39 | 245.482 | 65 | 182.450 | 91 | 147.834 | 117 | 125.583 | 143 | 109.916 | 169 | 98.207 |
| 14 | 396.941 | 40 | 242.082 | 66 | 180.758 | 92 | 146.803 | 118 | 124.881 | 144 | 109.404 | 170 | 97.815 |
| 15 | 386.481 | 41 | 238.791 | 67 | 179.102 | 93 | 145.789 | 119 | 124.189 | 145 | 108.898 | 171 | 97.426 |
| 16 | 376.651 | 42 | 235.605 | 68 | 177.482 | 94 | 144.792 | 120 | 123.506 | 146 | 108.397 | 172 | 97.041 |
| 17 | 367.394 | 43 | 232.517 | 69 | 175.896 | 95 | 143.810 | 121 | 122.832 | 147 | 107.901 | 173 | 96.660 |
| 18 | 358.658 | 44 | 229.523 | 70 | 174.344 | 96 | 142.845 | 122 | 122.166 | 148 | 107.411 | 174 | 96.282 |
| 19 | 350.399 | 45 | 226.620 | 71 | 172.823 | 97 | 141.894 | 123 | 121.509 | 149 | 106.926 | 175 | 95.907 |
| 20 | 342.577 | 46 | 223.802 | 72 | 171.334 | 98 | 140.958 | 124 | 120.860 | 150 | 106.447 | 176 | 95.536 |
| 21 | 335.157 | 47 | 221.065 | 73 | 169.874 | 99 | 140.037 | 125 | 120.219 | 151 | 105.972 | 177 | 95.169 |
| 22 | 328.106 | 48 | 218.407 | 74 | 168.444 | 100 | 139.130 | 126 | 119.587 | 152 | 105.502 | 178 | 94.804 |
| 23 | 321.397 | 49 | 215.823 | 75 | 167.042 | 101 | 138.237 | 127 | 118.962 | 153 | 105.037 | 179 | 94.443 |
| 24 | 315.005 | 50 | 213.310 | 76 | 165.667 | 102 | 137.357 | 128 | 118.344 | 154 | 104.577 | 180 | 94.086 |
| 25 | 308.906 | 51 | 210.866 | 77 | 164.319 | 103 | 136.490 | 129 | 117.735 | 155 | 104.122 | 181 | 93.731 |
| 26 | 303.079 | 52 | 208.486 | 78 | 162.996 | 104 | 135.637 | 130 | 117.133 | 156 | 103.672 | 182 | 93.380 |

P=20a 亳州气象站

t (min) q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 1 | 731.434 | 27 | 337.108 | 53 | 234.479 | 79 | 184.515 | 105 | 154.249 | 131 | 133.677 | 157 | 118.654 |
| 2 | 694.491 | 28 | 331.106 | 54 | 231.944 | 80 | 183.084 | 106 | 153.316 | 132 | 133.014 | 158 | 118.155 |
| 3 | 661.730 | 29 | 325.354 | 55 | 229.475 | 81 | 181.678 | 107 | 152.396 | 133 | 132.358 | 159 | 117.662 |
| 4 | 632.446 | 30 | 319.836 | 56 | 227.068 | 82 | 180.299 | 108 | 151.489 | 134 | 131.711 | 160 | 117.173 |
| 5 | 606.089 | 31 | 314.537 | 57 | 224.720 | 83 | 178.944 | 109 | 150.595 | 135 | 131.071 | 161 | 116.689 |
| 6 | 582.223 | 32 | 309.445 | 58 | 222.430 | 84 | 177.614 | 110 | 149.713 | 136 | 130.438 | 162 | 116.210 |
| 7 | 560.493 | 33 | 304.545 | 59 | 220.195 | 85 | 176.307 | 111 | 148.844 | 137 | 129.813 | 163 | 115.736 |
| 8 | 540.611 | 34 | 299.828 | 60 | 218.013 | 86 | 175.022 | 112 | 147.987 | 138 | 129.195 | 164 | 115.266 |
| 9 | 522.342 | 35 | 295.282 | 61 | 215.883 | 87 | 173.760 | 113 | 147.142 | 139 | 128.584 | 165 | 114.801 |
| 10 | 505.487 | 36 | 290.898 | 62 | 213.801 | 88 | 172.520 | 114 | 146.308 | 140 | 127.980 | 166 | 114.340 |
| 11 | 489.880 | 37 | 286.667 | 63 | 211.767 | 89 | 171.301 | 115 | 145.485 | 141 | 127.382 | 167 | 113.884 |
| 12 | 475.381 | 38 | 282.580 | 64 | 209.779 | 90 | 170.102 | 116 | 144.673 | 142 | 126.791 | 168 | 113.432 |
| 13 | 461.870 | 39 | 278.631 | 65 | 207.835 | 91 | 168.923 | 117 | 143.872 | 143 | 126.207 | 169 | 112.984 |
| 14 | 449.245 | 40 | 274.812 | 66 | 205.934 | 92 | 167.763 | 118 | 143.082 | 144 | 125.629 | 170 | 112.541 |
| 15 | 437.418 | 41 | 271.115 | 67 | 204.074 | 93 | 166.622 | 119 | 142.302 | 145 | 125.058 | 171 | 112.101 |
| 16 | 426.311 | 42 | 267.536 | 68 | 202.254 | 94 | 165.500 | 120 | 141.532 | 146 | 124.492 | 172 | 111.666 |
| 17 | 415.857 | 43 | 264.068 | 69 | 200.472 | 95 | 164.396 | 121 | 140.772 | 147 | 123.933 | 173 | 111.235 |
| 18 | 405.998 | 44 | 260.706 | 70 | 198.727 | 96 | 163.309 | 122 | 140.022 | 148 | 123.380 | 174 | 110.808 |
| 19 | 396.681 | 45 | 257.445 | 71 | 197.018 | 97 | 162.239 | 123 | 139.281 | 149 | 122.832 | 175 | 110.384 |
| 20 | 387.861 | 46 | 254.280 | 72 | 195.345 | 98 | 161.186 | 124 | 138.550 | 150 | 122.291 | 176 | 109.965 |
| 21 | 379.498 | 47 | 251.207 | 73 | 193.704 | 99 | 160.150 | 125 | 137.828 | 151 | 121.755 | 177 | 109.549 |
| 22 | 371.554 | 48 | 248.221 | 74 | 192.097 | 100 | 159.129 | 126 | 137.114 | 152 | 121.225 | 178 | 109.137 |
| 23 | 363.998 | 49 | 245.319 | 75 | 190.521 | 101 | 158.123 | 127 | 136.410 | 153 | 120.700 | 179 | 108.729 |
| 24 | 356.800 | 50 | 242.497 | 76 | 188.976 | 102 | 157.133 | 128 | 135.714 | 154 | 120.180 | 180 | 108.325 |
| 25 | 349.935 | 51 | 239.752 | 77 | 187.460 | 103 | 156.157 | 129 | 135.027 | 155 | 119.666 | 181 | 107.924 |
| 26 | 343.378 | 52 | 237.080 | 78 | 185.974 | 104 | 155.196 | 130 | 134.348 | 156 | 119.158 | 182 | 107.526 |

P=30a 亳州气象站

t (min) q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 1 | 776.479 | 27 | 357.620 | 53 | 249.141 | 79 | 196.325 | 105 | 164.312 | 131 | 142.537 | 157 | 126.625 |
| 2 | 737.019 | 28 | 351.274 | 54 | 246.463 | 80 | 194.812 | 106 | 163.324 | 132 | 141.835 | 158 | 126.097 |
| 3 | 702.070 | 29 | 345.192 | 55 | 243.853 | 81 | 193.326 | 107 | 162.350 | 133 | 141.141 | 159 | 125.574 |
| 4 | 670.865 | 30 | 339.359 | 56 | 241.309 | 82 | 191.867 | 108 | 161.391 | 134 | 140.455 | 160 | 125.056 |
| 5 | 642.807 | 31 | 333.757 | 57 | 238.828 | 83 | 190.434 | 109 | 160.445 | 135 | 139.778 | 161 | 124.544 |
| 6 | 617.420 | 32 | 328.373 | 58 | 236.407 | 84 | 189.027 | 110 | 159.512 | 136 | 139.108 | 162 | 124.036 |
| 7 | 594.322 | 33 | 323.194 | 59 | 234.045 | 85 | 187.645 | 111 | 158.592 | 137 | 138.446 | 163 | 123.534 |
| 8 | 573.203 | 34 | 318.208 | 60 | 231.739 | 86 | 186.287 | 112 | 157.685 | 138 | 137.791 | 164 | 123.036 |
| 9 | 553.807 | 35 | 313.403 | 61 | 229.487 | 87 | 184.952 | 113 | 156.790 | 139 | 137.144 | 165 | 122.543 |
| 10 | 535.921 | 36 | 308.769 | 62 | 227.287 | 88 | 183.640 | 114 | 155.908 | 140 | 136.504 | 166 | 122.055 |
| 11 | 519.366 | 37 | 304.297 | 63 | 225.137 | 89 | 182.350 | 115 | 155.037 | 141 | 135.871 | 167 | 121.571 |
| 12 | 503.993 | 38 | 299.978 | 64 | 223.035 | 90 | 181.082 | 116 | 154.178 | 142 | 135.245 | 168 | 121.092 |
| 13 | 489.673 | 39 | 295.804 | 65 | 220.980 | 91 | 179.835 | 117 | 153.330 | 143 | 134.627 | 169 | 120.618 |
| 14 | 476.296 | 40 | 291.767 | 66 | 218.970 | 92 | 178.609 | 118 | 152.494 | 144 | 134.015 | 170 | 120.148 |
| 15 | 463.767 | 41 | 287.861 | 67 | 217.004 | 93 | 177.402 | 119 | 151.668 | 145 | 133.409 | 171 | 119.682 |
| 16 | 452.004 | 42 | 284.078 | 68 | 215.080 | 94 | 176.215 | 120 | 150.853 | 146 | 132.810 | 172 | 119.221 |
| 17 | 440.935 | 43 | 280.413 | 69 | 213.196 | 95 | 175.047 | 121 | 150.049 | 147 | 132.218 | 173 | 118.764 |
| 18 | 430.498 | 44 | 276.860 | 70 | 211.352 | 96 | 173.897 | 122 | 149.255 | 148 | 131.632 | 174 | 118.311 |
| 19 | 420.637 | 45 | 273.413 | 71 | 209.545 | 97 | 172.766 | 123 | 148.470 | 149 | 131.052 | 175 | 117.862 |
| 20 | 411.304 | 46 | 270.068 | 72 | 207.776 | 98 | 171.651 | 124 | 147.696 | 150 | 130.478 | 176 | 117.418 |
| 21 | 402.454 | 47 | 266.821 | 73 | 206.042 | 99 | 170.555 | 125 | 146.932 | 151 | 129.911 | 177 | 116.977 |
| 22 | 394.051 | 48 | 263.665 | 74 | 204.342 | 100 | 169.475 | 126 | 146.176 | 152 | 129.349 | 178 | 116.540 |
| 23 | 386.058 | 49 | 260.598 | 75 | 202.676 | 101 | 168.411 | 127 | 145.431 | 153 | 128.793 | 179 | 116.108 |
| 24 | 378.444 | 50 | 257.616 | 76 | 201.042 | 102 | 167.363 | 128 | 144.694 | 154 | 128.243 | 180 | 115.679 |
| 25 | 371.184 | 51 | 254.715 | 77 | 199.440 | 103 | 166.331 | 129 | 143.966 | 155 | 127.698 | 181 | 115.254 |
| 26 | 364.250 | 52 | 251.891 | 78 | 197.868 | 104 | 165.314 | 130 | 143.247 | 156 | 127.159 | 182 | 114.832 |

P=50a 亳州气象站

t (min)

q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 1 | 833.043 | 27 | 383.581 | 53 | 267.760 | 79 | 211.351 | 105 | 177.132 | 131 | 153.837 | 157 | 136.801 |
| 2 | 790.447 | 28 | 376.803 | 54 | 264.900 | 80 | 209.733 | 106 | 176.075 | 132 | 153.085 | 158 | 136.236 |
| 3 | 752.774 | 29 | 370.309 | 55 | 262.114 | 81 | 208.146 | 107 | 175.034 | 133 | 152.343 | 159 | 135.675 |
| 4 | 719.177 | 30 | 364.080 | 56 | 259.397 | 82 | 206.587 | 108 | 174.008 | 134 | 151.609 | 160 | 135.121 |
| 5 | 688.999 | 31 | 358.098 | 57 | 256.748 | 83 | 205.056 | 109 | 172.996 | 135 | 150.884 | 161 | 134.572 |
| 6 | 661.718 | 32 | 352.350 | 58 | 254.163 | 84 | 203.552 | 110 | 171.999 | 136 | 150.167 | 162 | 134.028 |
| 7 | 636.917 | 33 | 346.820 | 59 | 251.640 | 85 | 202.075 | 111 | 171.015 | 137 | 149.458 | 163 | 133.489 |
| 8 | 614.255 | 34 | 341.496 | 60 | 249.178 | 86 | 200.624 | 112 | 170.045 | 138 | 148.757 | 164 | 132.956 |
| 9 | 593.454 | 35 | 336.366 | 61 | 246.773 | 87 | 199.197 | 113 | 169.088 | 139 | 148.064 | 165 | 132.428 |
| 10 | 574.282 | 36 | 331.419 | 62 | 244.423 | 88 | 197.795 | 114 | 168.144 | 140 | 147.379 | 166 | 131.905 |
| 11 | 556.546 | 37 | 326.645 | 63 | 242.127 | 89 | 196.417 | 115 | 167.212 | 141 | 146.702 | 167 | 131.387 |
| 12 | 540.082 | 38 | 322.034 | 64 | 239.883 | 90 | 195.061 | 116 | 166.293 | 142 | 146.032 | 168 | 130.874 |
| 13 | 524.751 | 39 | 317.578 | 65 | 237.688 | 91 | 193.728 | 117 | 165.386 | 143 | 145.370 | 169 | 130.365 |
| 14 | 510.434 | 40 | 313.268 | 66 | 235.541 | 92 | 192.417 | 118 | 164.491 | 144 | 144.714 | 170 | 129.862 |
| 15 | 497.029 | 41 | 309.098 | 67 | 233.441 | 93 | 191.127 | 119 | 163.608 | 145 | 144.066 | 171 | 129.363 |
| 16 | 484.446 | 42 | 305.059 | 68 | 231.386 | 94 | 189.858 | 120 | 162.736 | 146 | 143.425 | 172 | 128.869 |
| 17 | 472.609 | 43 | 301.147 | 69 | 229.374 | 95 | 188.610 | 121 | 161.876 | 147 | 142.791 | 173 | 128.379 |
| 18 | 461.450 | 44 | 297.353 | 70 | 227.404 | 96 | 187.381 | 122 | 161.026 | 148 | 142.163 | 174 | 127.894 |
| 19 | 450.909 | 45 | 293.674 | 71 | 225.474 | 97 | 186.171 | 123 | 160.187 | 149 | 141.542 | 175 | 127.413 |
| 20 | 440.933 | 46 | 290.103 | 72 | 223.584 | 98 | 184.980 | 124 | 159.358 | 150 | 140.928 | 176 | 126.936 |
| 21 | 431.476 | 47 | 286.635 | 73 | 221.731 | 99 | 183.807 | 125 | 158.540 | 151 | 140.320 | 177 | 126.464 |
| 22 | 422.496 | 48 | 283.267 | 74 | 219.916 | 100 | 182.652 | 126 | 157.732 | 152 | 139.718 | 178 | 125.996 |
| 23 | 413.957 | 49 | 279.992 | 75 | 218.136 | 101 | 181.515 | 127 | 156.934 | 153 | 139.123 | 179 | 125.533 |
| 24 | 405.824 | 50 | 276.808 | 76 | 216.390 | 102 | 180.395 | 128 | 156.146 | 154 | 138.534 | 180 | 125.073 |
| 25 | 398.067 | 51 | 273.711 | 77 | 214.678 | 103 | 179.291 | 129 | 155.367 | 155 | 137.950 | 181 | 124.617 |
| 26 | 390.661 | 52 | 270.696 | 78 | 212.999 | 104 | 178.203 | 130 | 154.597 | 156 | 137.373 | 182 | 124.166 |

P=100a 亳州气象站

t (min) q (L/s·hm²)

| t | q | t | q | t | q | t | q | t | q | t | q | t | q |
|----|---------|----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 1 | 906.854 | 27 | 416.687 | 53 | 291.350 | 79 | 230.323 | 105 | 193.284 | 131 | 168.052 | 157 | 149.587 |
| 2 | 860.016 | 28 | 409.348 | 54 | 288.256 | 80 | 228.573 | 106 | 192.140 | 132 | 167.238 | 158 | 148.974 |
| 3 | 818.670 | 29 | 402.316 | 55 | 285.242 | 81 | 226.855 | 107 | 191.013 | 133 | 166.433 | 159 | 148.366 |
| 4 | 781.859 | 30 | 395.572 | 56 | 282.303 | 82 | 225.168 | 108 | 189.902 | 134 | 165.638 | 160 | 147.765 |
| 5 | 748.840 | 31 | 389.097 | 57 | 279.437 | 83 | 223.511 | 109 | 188.806 | 135 | 164.852 | 161 | 147.170 |
| 6 | 719.027 | 32 | 382.874 | 58 | 276.641 | 84 | 221.884 | 110 | 187.726 | 136 | 164.075 | 162 | 146.580 |
| 7 | 691.952 | 33 | 376.889 | 59 | 273.912 | 85 | 220.285 | 111 | 186.660 | 137 | 163.307 | 163 | 145.996 |
| 8 | 667.236 | 34 | 371.127 | 60 | 271.248 | 86 | 218.714 | 112 | 185.609 | 138 | 162.548 | 164 | 145.418 |
| 9 | 644.568 | 35 | 365.575 | 61 | 268.647 | 87 | 217.171 | 113 | 184.573 | 139 | 161.797 | 165 | 144.845 |
| 10 | 623.691 | 36 | 360.221 | 62 | 266.105 | 88 | 215.653 | 114 | 183.550 | 140 | 161.054 | 166 | 144.278 |
| 11 | 604.389 | 37 | 355.055 | 63 | 263.621 | 89 | 214.161 | 115 | 182.542 | 141 | 160.320 | 167 | 143.716 |
| 12 | 586.482 | 38 | 350.066 | 64 | 261.193 | 90 | 212.694 | 116 | 181.546 | 142 | 159.594 | 168 | 143.159 |
| 13 | 569.817 | 39 | 345.244 | 65 | 258.819 | 91 | 211.251 | 117 | 180.564 | 143 | 158.876 | 169 | 142.608 |
| 14 | 554.261 | 40 | 340.581 | 66 | 256.497 | 92 | 209.832 | 118 | 179.595 | 144 | 158.166 | 170 | 142.062 |
| 15 | 539.701 | 41 | 336.069 | 67 | 254.225 | 93 | 208.436 | 119 | 178.638 | 145 | 157.463 | 171 | 141.520 |
| 16 | 526.040 | 42 | 331.700 | 68 | 252.001 | 94 | 207.063 | 120 | 177.694 | 146 | 156.768 | 172 | 140.984 |
| 17 | 513.194 | 43 | 327.467 | 69 | 249.824 | 95 | 205.711 | 121 | 176.761 | 147 | 156.080 | 173 | 140.453 |
| 18 | 501.086 | 44 | 323.363 | 70 | 247.693 | 96 | 204.380 | 122 | 175.841 | 148 | 155.400 | 174 | 139.927 |
| 19 | 489.652 | 45 | 319.382 | 71 | 245.605 | 97 | 203.071 | 123 | 174.932 | 149 | 154.727 | 175 | 139.405 |
| 20 | 478.834 | 46 | 315.519 | 72 | 243.560 | 98 | 201.781 | 124 | 174.034 | 150 | 154.061 | 176 | 138.888 |
| 21 | 468.581 | 47 | 311.768 | 73 | 241.556 | 99 | 200.512 | 125 | 173.148 | 151 | 153.402 | 177 | 138.376 |
| 22 | 458.848 | 48 | 308.124 | 74 | 239.591 | 100 | 199.261 | 126 | 172.273 | 152 | 152.750 | 178 | 137.869 |
| 23 | 449.593 | 49 | 304.582 | 75 | 237.665 | 101 | 198.030 | 127 | 171.408 | 153 | 152.104 | 179 | 137.366 |
| 24 | 440.781 | 50 | 301.137 | 76 | 235.776 | 102 | 196.817 | 128 | 170.554 | 154 | 151.465 | 180 | 136.867 |
| 25 | 432.378 | 51 | 297.787 | 77 | 233.924 | 103 | 195.622 | 129 | 169.710 | 155 | 150.833 | 181 | 136.373 |
| 26 | 424.356 | 52 | 294.525 | 78 | 232.107 | 104 | 194.444 | 130 | 168.876 | 156 | 150.207 | 182 | 135.883 |

附件 2

亳州市暴雨强度曲线图



