

LaScie

| Historical IDF, 2015 Update to Observational Records (mm) |                         |      |      |       |       |       |
|-----------------------------------------------------------|-------------------------|------|------|-------|-------|-------|
| Duration                                                  | Return Interval (years) |      |      |       |       |       |
|                                                           | 2                       | 5    | 10   | 25    | 50    | 100   |
| 5 min                                                     | 3.0                     | 4.0  | 4.7  | 5.5   | 6.1   | 6.7   |
| 10 min                                                    | 4.2                     | 5.7  | 6.7  | 7.9   | 8.9   | 9.8   |
| 15 min                                                    | 5.2                     | 7.2  | 8.5  | 10.2  | 11.4  | 12.6  |
| 30 min                                                    | 7.4                     | 10.1 | 12.0 | 14.3  | 16.0  | 17.7  |
| 1 hour                                                    | 10.7                    | 14.1 | 16.3 | 19.2  | 21.2  | 23.3  |
| 2 hour                                                    | 15.6                    | 19.9 | 22.7 | 26.3  | 28.9  | 31.5  |
| 6 hour                                                    | 26.9                    | 34.8 | 39.9 | 46.5  | 51.3  | 56.2  |
| 12 hour                                                   | 39.1                    | 49.8 | 56.9 | 65.9  | 72.5  | 79.1  |
| 24 hour                                                   | 52.2                    | 65.5 | 74.3 | 85.5  | 93.8  | 102.0 |
| Projected IDF Data, 2041-2070 (mm)                        |                         |      |      |       |       |       |
| Duration                                                  | Return Interval (years) |      |      |       |       |       |
|                                                           | 2                       | 5    | 10   | 25    | 50    | 100   |
| 5 min                                                     | 3.8                     | 5.0  | 5.8  | 6.8   | 7.5   | 8.2   |
| 10 min                                                    | 5.5                     | 7.2  | 8.4  | 9.9   | 11.0  | 12.1  |
| 15 min                                                    | 6.9                     | 9.2  | 10.8 | 12.8  | 14.2  | 15.7  |
| 30 min                                                    | 9.7                     | 13.0 | 15.1 | 17.9  | 19.9  | 21.9  |
| 1 hour                                                    | 13.5                    | 17.5 | 20.2 | 23.5  | 26.0  | 28.5  |
| 2 hour                                                    | 19.2                    | 24.2 | 27.6 | 31.8  | 34.9  | 38.1  |
| 6 hour                                                    | 33.5                    | 42.8 | 48.9 | 56.7  | 62.4  | 68.2  |
| 12 hour                                                   | 48.1                    | 60.8 | 69.2 | 79.8  | 87.7  | 95.5  |
| 24 hour                                                   | 63.3                    | 79.1 | 89.6 | 102.9 | 112.7 | 122.4 |
| Projected IDF Data, 2071-2100 (mm)                        |                         |      |      |       |       |       |
| Duration                                                  | Return Interval (years) |      |      |       |       |       |
|                                                           | 2                       | 5    | 10   | 25    | 50    | 100   |
| 5 min                                                     | 4.2                     | 5.6  | 6.5  | 7.6   | 8.4   | 9.2   |
| 10 min                                                    | 6.0                     | 8.1  | 9.4  | 11.1  | 12.3  | 13.6  |
| 15 min                                                    | 7.7                     | 10.3 | 12.1 | 14.3  | 16.0  | 17.7  |
| 30 min                                                    | 10.8                    | 14.5 | 17.0 | 20.1  | 22.4  | 24.7  |
| 1 hour                                                    | 14.9                    | 19.4 | 22.5 | 26.3  | 29.1  | 31.9  |
| 2 hour                                                    | 20.9                    | 26.6 | 30.4 | 35.2  | 38.8  | 42.4  |
| 6 hour                                                    | 36.6                    | 47.1 | 54.1 | 63.0  | 69.5  | 76.1  |
| 12 hour                                                   | 52.3                    | 66.7 | 76.3 | 88.4  | 97.4  | 106.3 |
| 24 hour                                                   | 68.6                    | 86.6 | 98.5 | 113.6 | 124.8 | 135.9 |

| Historical IDF, 2015 Update to Observational Records |                         |       |       |       |        |        |
|------------------------------------------------------|-------------------------|-------|-------|-------|--------|--------|
| Duration                                             | Return Interval (years) |       |       |       |        |        |
|                                                      | 2                       | 5     | 10    | 25    | 50     | 100    |
| 5 min                                                | 3.02                    | 4.01  | 4.66  | 5.49  | 6.11   | 6.72   |
| 10 min                                               | 4.2                     | 5.7   | 6.68  | 7.93  | 8.85   | 9.77   |
| 15 min                                               | 5.23                    | 7.21  | 8.52  | 10.17 | 11.4   | 12.62  |
| 30 min                                               | 7.38                    | 10.14 | 11.97 | 14.29 | 16     | 17.7   |
| 1 hour                                               | 10.72                   | 14.1  | 16.33 | 19.15 | 21.24  | 23.32  |
| 2 hour                                               | 15.64                   | 19.9  | 22.71 | 26.27 | 28.92  | 31.54  |
| 6 hour                                               | 26.92                   | 34.75 | 39.93 | 46.48 | 51.34  | 56.17  |
| 12 hour                                              | 39.11                   | 49.82 | 56.9  | 65.86 | 72.5   | 79.09  |
| 24 hour                                              | 52.17                   | 65.51 | 74.34 | 85.5  | 93.78  | 102    |
| 10th Percentile of Projection Ensemble, 2041-2070    |                         |       |       |       |        |        |
| Duration                                             | Return Interval (years) |       |       |       |        |        |
|                                                      | 2                       | 5     | 10    | 25    | 50     | 100    |
| 5 min                                                | 3.36                    | 4.19  | 4.74  | 5.42  | 5.93   | 6.43   |
| 10 min                                               | 4.73                    | 5.97  | 6.79  | 7.82  | 8.58   | 9.34   |
| 15 min                                               | 5.92                    | 7.58  | 8.66  | 10.03 | 11.04  | 12.04  |
| 30 min                                               | 8.35                    | 10.66 | 12.17 | 14.08 | 15.49  | 16.9   |
| 1 hour                                               | 11.91                   | 14.73 | 16.57 | 18.9  | 20.63  | 22.34  |
| 2 hour                                               | 17.13                   | 20.69 | 23.02 | 25.96 | 28.14  | 30.3   |
| 6 hour                                               | 29.66                   | 36.21 | 40.5  | 45.9  | 49.91  | 53.88  |
| 12 hour                                              | 42.87                   | 51.82 | 57.67 | 65.05 | 70.53  | 75.97  |
| 24 hour                                              | 56.85                   | 68.01 | 75.3  | 84.51 | 91.33  | 98.11  |
| 10th Percentile of Projection Ensemble, 2071-2100    |                         |       |       |       |        |        |
| Duration                                             | Return Interval (years) |       |       |       |        |        |
|                                                      | 2                       | 5     | 10    | 25    | 50     | 100    |
| 5 min                                                | 3.5                     | 4.55  | 5.24  | 6.11  | 6.76   | 7.4    |
| 10 min                                               | 4.94                    | 6.51  | 7.55  | 8.86  | 9.84   | 10.8   |
| 15 min                                               | 6.2                     | 8.29  | 9.67  | 11.41 | 12.7   | 13.99  |
| 30 min                                               | 8.74                    | 11.65 | 13.58 | 16.01 | 17.82  | 19.61  |
| 1 hour                                               | 12.39                   | 15.94 | 18.29 | 21.26 | 23.46  | 25.65  |
| 2 hour                                               | 17.74                   | 22.22 | 25.19 | 28.94 | 31.72  | 34.48  |
| 6 hour                                               | 30.78                   | 39.02 | 44.48 | 51.38 | 56.49  | 61.57  |
| 12 hour                                              | 44.39                   | 55.66 | 63.12 | 72.55 | 79.54  | 86.48  |
| 24 hour                                              | 58.75                   | 72.8  | 82.09 | 93.84 | 102.56 | 111.21 |

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|------------------------------------------------------|-------------------------|-------|--------|--------|--------|--------|
| Duration                                             | Return Interval (years) |       |        |        |        |        |
|                                                      | 2                       | 5     | 10     | 25     | 50     | 100    |
| 5 min                                                | 3.02                    | 4.01  | 4.66   | 5.49   | 6.11   | 6.72   |
| 10 min                                               | 4.2                     | 5.7   | 6.68   | 7.93   | 8.85   | 9.77   |
| 15 min                                               | 5.23                    | 7.21  | 8.52   | 10.17  | 11.4   | 12.62  |
| 30 min                                               | 7.38                    | 10.14 | 11.97  | 14.29  | 16     | 17.7   |
| 1 hour                                               | 10.72                   | 14.1  | 16.33  | 19.15  | 21.24  | 23.32  |
| 2 hour                                               | 15.64                   | 19.9  | 22.71  | 26.27  | 28.92  | 31.54  |
| 6 hour                                               | 26.92                   | 34.75 | 39.93  | 46.48  | 51.34  | 56.17  |
| 12 hour                                              | 39.11                   | 49.82 | 56.9   | 65.86  | 72.5   | 79.09  |
| 24 hour                                              | 52.17                   | 65.51 | 74.34  | 85.5   | 93.78  | 102    |
| 90th Percentile of Projection Ensemble, 2041-2070    |                         |       |        |        |        |        |
| Duration                                             | Return Interval (years) |       |        |        |        |        |
|                                                      | 2                       | 5     | 10     | 25     | 50     | 100    |
| 5 min                                                | 4.39                    | 5.73  | 6.61   | 7.73   | 8.56   | 9.38   |
| 10 min                                               | 6.27                    | 8.28  | 9.61   | 11.29  | 12.54  | 13.78  |
| 15 min                                               | 7.98                    | 10.64 | 12.41  | 14.64  | 16.3   | 17.94  |
| 30 min                                               | 11.22                   | 14.94 | 17.41  | 20.52  | 22.83  | 25.13  |
| 1 hour                                               | 15.41                   | 19.95 | 22.96  | 26.77  | 29.59  | 32.39  |
| 2 hour                                               | 21.55                   | 27.28 | 31.08  | 35.88  | 39.44  | 42.98  |
| 6 hour                                               | 37.78                   | 48.34 | 55.33  | 64.16  | 70.71  | 77.21  |
| 12 hour                                              | 53.97                   | 68.39 | 77.95  | 90.01  | 98.97  | 107.85 |
| 24 hour                                              | 70.68                   | 88.66 | 100.56 | 115.6  | 126.76 | 137.84 |
| 90th Percentile of Projection Ensemble, 2071-2100    |                         |       |        |        |        |        |
| Duration                                             | Return Interval (years) |       |        |        |        |        |
|                                                      | 2                       | 5     | 10     | 25     | 50     | 100    |
| 5 min                                                | 4.89                    | 6.51  | 7.62   | 9.02   | 10.08  | 11.14  |
| 10 min                                               | 7.02                    | 9.46  | 11.13  | 13.24  | 14.83  | 16.41  |
| 15 min                                               | 8.97                    | 12.21 | 14.42  | 17.22  | 19.34  | 21.44  |
| 30 min                                               | 12.61                   | 17.12 | 20.22  | 24.13  | 27.08  | 30.01  |
| 1 hour                                               | 17.1                    | 22.62 | 26.39  | 31.17  | 34.77  | 38.35  |
| 2 hour                                               | 23.69                   | 30.65 | 35.41  | 41.43  | 45.98  | 50.5   |
| 6 hour                                               | 41.73                   | 54.52 | 63.29  | 74.37  | 82.74  | 91.05  |
| 12 hour                                              | 59.35                   | 76.84 | 88.82  | 103.96 | 115.39 | 126.75 |
| 24 hour                                              | 77.4                    | 99.19 | 114.12 | 132.98 | 147.22 | 161.38 |