## 2021 Annual <br> Rainfall Report

## Monitoring and Modeling



Saskatoon Water
Utilities and Environment Division

City of
Saskatoon

## EXECUTIVE SUMMARY

The following report provides a summary of Saskatoon's 2021 rainfall season (April to September) and a comparison with historical rainfall. Highlights of the report include the following:

- In 2021, 146 mm of rainfall accumulated, which was less than the historical average of 264 mm and the $4^{\text {th }}$ lowest seasonal rainfall total out of 122 years since 1900.
- On average, rainfall occurred on 23\% of days in 2021.
- Based on the weighted average, 36 mm was the largest amount of rainfall to accumulate in a single day.
- Saskatoon had a dry spring in 2021. The average rainfall between April and June since 1900 is 127 mm . Saskatoon received 73 mm which falls in the $16^{\text {th }}$ percentile for this time period.
- Saskatoon had a dry summer in 2021. The average rainfall between July and September since 1900 is 136 mm . Saskatoon received 73 mm which falls in the $6^{\text {th }}$ percentile for this time period.
- 2021 had an average of one rain event with a return period of 2-5 years.
- At one or more of the eight rain gauges, a 5-25 year rain event occurred on May $24^{\text {th }}$ and 2-5 year rain events occurred on June $10^{\text {th }}$ and August $23^{\text {rd }}, 2021$.

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## INTRODUCTION

The purpose of this report is to provide a summary of the 2021 rainfall season in Saskatoon and a comparison of this rainfall data with historical rainfall data. Within the scope of this report, a rainfall season is defined as the time period between April $1^{\text {st }}$ and September $30^{\text {th }}$. Data between 1900 and 2011 was obtained from the Environment Canada rain gauge while 2012 to 2021 data was obtained from eight City of Saskatoon rain gauges. The name, location, approximate area, and total seasonal rainfall of each rain gauge is shown below.


Figure 1: Overview of rain gauges.

## SUMMARY OF RAINFALL IN 2021

A daily weighted average for all City of Saskatoon rain gauges functioning on a particular day was calculated to determine the average daily rainfall for Saskatoon. The following graph depicts the average daily rainfall that occurred in Saskatoon throughout the 2021 rainfall season.


Figure 2: 2021 daily rainfall.
Based on the weighted average, the largest amount of rainfall occurred on May $24^{\text {th }}, 2021$ with a total of 36 mm . This rainfall accounted for approximately $25 \%$ of the total rainfall that occurred in 2021.

Table 1 presents the percentage of days with total rainfall greater than or equal to 0.2 mm , $1 \mathrm{~mm}, 5 \mathrm{~mm}, 10 \mathrm{~mm}$, and 25 mm at each rain gauge.

Table 1: Total daily rainfall percent occurrence.

| Location | $\geq \mathbf{0 . 2} \mathbf{~ m m}$ | $\geq \mathbf{1} \mathbf{~ m m}$ | $\geq \mathbf{5} \mathbf{~ m m}$ | $\geq \mathbf{1 0} \mathbf{~ m m}$ | $\geq \mathbf{2 5} \mathbf{~ m m}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Acadia Reservoir | $25 \%$ | $15 \%$ | $5 \%$ | $2 \%$ | $0 \%$ |
| Attridge Fire Hall | $22 \%$ | $15 \%$ | $5 \%$ | $2 \%$ | $1 \%$ |
| Aden Bowman | $18 \%$ | $11 \%$ | $4 \%$ | $1 \%$ | $1 \%$ |
| City Hall | $23 \%$ | $14 \%$ | $4 \%$ | $2 \%$ | $1 \%$ |
| Light and Power | $24 \%$ | $13 \%$ | $4 \%$ | $2 \%$ | $1 \%$ |
| Shaw Center | $19 \%$ | $11 \%$ | $4 \%$ | $2 \%$ | $1 \%$ |
| WWTP | $23 \%$ | $15 \%$ | $3 \%$ | $1 \%$ | $1 \%$ |
| Woodlawn | $27 \%$ | $14 \%$ | $4 \%$ | $1 \%$ | $1 \%$ |
| Average | $\mathbf{2 3} \%$ | $\mathbf{1 3 \%}$ | $\mathbf{4 \%}$ | $\mathbf{2} \%$ | $\mathbf{1 \%}$ |

On average, rainfall occurred on $23 \%$ of days in 2021.

## SUMMARY OF RAINFALL IN 2021

The daily weighted average rainfall was added together to calculate the total seasonal rainfall. The total seasonal rainfall for 2021 was 146 mm . Figure 3 depicts the accumulation of rainfall throughout the 2021 season.


Figure 3: 2021 rainfall accumulation.
The 2021 rainfall season experienced a dry spring accumulating a total of 73 mm of rain, which was the $15^{\text {th }}$ lowest spring rainfall out of 122 years since 1900 . The total rainfall between July and September was also 73 mm which was the $9^{\text {th }}$ lowest summer rainfall out of 122 years since 1900.

## HISTORICAL COMPARISON

The average seasonal rainfall from 1900 to 2021 in Saskatoon is 264 mm which is depicted by the light blue line in Figure 4. The 2021 seasonal rainfall of 146 mm was significantly below average and the $4^{\text {th }}$ lowest rainfall out of 122 years since 1900 . The lowest seasonal rainfall occurred in 2001 with 131 mm and the highest seasonal rainfall occurred in 2010 with 569 mm . A table containing the seasonal rainfalls from 1900 to 2021 can be found in Appendix A.


Figure 4: Seasonal rainfall (1900-2021).

## HISTORICAL COMPARISON

The following graph provides a comparison of the maximum amount of rainfall to occur in a single day in each season. The average maximum rainfall in a single day in a season is 36 mm from the years 1900 to 2021 and is represented by the light blue line in Figure 5. During the 2021 rainfall season, the maximum rainfall to occur within a single day was 36 mm , which was on May $24^{\text {th }}$.


Figure 5: Maximum daily rainfall.
As can be seen in the graph above, the lowest maximum daily rainfall occurred on July $19^{\text {th }}$, 1987, with a total of 15 mm and the highest occurred on June $24^{\text {th }}, 1983$ with a total of 97 mm .

## CLASSIFYING RAIN EVENTS

Rain events in Saskatoon are often localized. Therefore, a rain event may only occur at a few of the eight rain gauges located throughout the city. In order to compare the severity of rain events, their return period must be determined. A return period provides an indication of the likelihood of an event. For example, a rain event with a return period of 2 years has a $50 \%$ chance of occurring in any given year. For comparison, a rain event with a return period of 100 years has a $1 \%$ chance of occurring in any given year. The following table provides a summary of the criteria used to determine the return period of each rain event.

Table 2: Criteria for determining return period of a rain event.

| Time <br> (minutes) | Intensity (mm/hr) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2-Year | $\mathbf{5 - Y e a r}$ | $\mathbf{2 5 - Y e a r}$ | $\mathbf{1 0 0}$-Year |
| 15 | 53 | 85 | 132 | 168 |
| 30 | 41 | 67 | 104 | 133 |
| 60 | 26.4 | 46.1 | 74 | 97 |
| 120 | 16.6 | 28.9 | 46.5 | 60 |
| 360 | 10.7 | 17.5 | 27.3 | 35 |
| 720 | 4.7 | 7.0 | 10.3 | 12.9 |
| 1440 | 2.73 | 3.90 | 5.59 | 6.91 |

For the purposes of this report, two different methods were utilized to determine the number of rain events with a return period of $2,5,25$, or 100 years between 2012 and 2021. It should be noted that within this report, rain events with the same return period may include any of the durations as outlined in Table 2. The first method determined the average number of rain events for each return period by adding together the number of events in a season with the same return period at each of the city's rain gauges and dividing that number by the total number of rain gauges. The following table provides a summary of these values. A more detailed table can be found in Appendix B.

Table 3: Average frequency of rain events.

|  | Return Period | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ | $\mathbf{2 0 2 1}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Average | $2-5$ Year | 4 | 1 | 3 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 18 |
|  | $5-25$ Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | $25-100$ Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | $>100$ Years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total | $\mathbf{4}$ | $\mathbf{1}$ | $\mathbf{3}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{3}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{1 9}$ |

## CLASSIFYING RAIN EVENTS

In Table 4, the rain events were tallied using the same method as Table 3, except only rain events with a duration of 1 hour or greater were counted.

Table 4: Average frequency of rain events greater than or equal to 1 hour duration.

|  | Return Period | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ | $\mathbf{2 0 2 1}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Average | $2-5$ Year | 3 | 1 | 2 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 12 |
|  | $5-25$ Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | $25-100$ Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | $>100$ Years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{3}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{1 3}$ |  |

The second method determined the number of days per year that a major rain event occurred at one or more rain gauges. If the rain gauges throughout the City recorded varying return periods on a given day, the maximum return period was counted as the rain event for that day. The following table provides the number of days per year that a major rain event occurred at one or more rain gauges.

Table 5: Overall frequency of rain events.

|  | Return Period | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ | $\mathbf{2 0 2 1}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overall | $2-5$ Year | 8 | 5 | 6 | 3 | 3 | 2 | 3 | 5 | 2 | 2 | 39 |
|  | $5-25$ Year | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 6 |
|  | $25-100$ Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | $>100$ Years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{8}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{4}$ | $\mathbf{3}$ | $\mathbf{3}$ | $\mathbf{3}$ | $\mathbf{7}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4 6}$ |  |

In Table 6, the days per year were tallied using the same method as Table 5, except only days with a rain event of 1 hour duration or greater were counted.

Table 6: Overall frequency of rain events greater than or equal to 1 hour duration.

|  | Return Period | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ | $\mathbf{2 0 2 1}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overall | $2-5$ Year | 6 | 4 | 3 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 24 |
|  | $5-25$ Year | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
|  | $25-100$ Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Total | $\mathbf{6}$ | $\mathbf{4}$ | $\mathbf{3}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{2 7}$ |  |

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## CONCLUSION

Overall, the 2021 rainfall season had an accumulation which was significantly less than the historical seasonal average. Despite the low seasonal rainfall, three rain events occurred, two with a return period of 2-5 years and one with a return period of $5-25$ years. Based on a weighted average, the maximum rainfall to occur within a single day was 36 mm , which was on May $24^{\text {th }}, 2021$.

## APPENDIX A

| Year | Rain (mm) | Rank | Year | Rain (mm) | Rank | Year | Rain (mm) | Rank |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1900 | 259 | 58 | 1942 | 385 | 8 | 1984 | 197 | 104 |
| 1901 | 308 | 27 | 1943 | 193 | 107 | 1985 | 275 | 44 |
| 1902 | 270 | 48 | 1944 | 284 | 37 | 1986 | 308 | 28 |
| 1903 | 379 | 10 | 1945 | 300 | 31 | 1987 | 167 | 114 |
| 1904 | 344 | 20 | 1946 | 252 | 65 | 1988 | 211 | 92 |
| 1905 | 236 | 75 | 1947 | 256 | 62 | 1989 | 268 | 50 |
| 1906 | 260 | 56 | 1948 | 155 | 118 | 1990 | 200 | 102 |
| 1907 | 205 | 96 | 1949 | 263 | 52 | 1991 | 358 | 16 |
| 1908 | 262 | 53 | 1950 | 300 | 32 | 1992 | 234 | 77 |
| 1909 | 286 | 35 | 1951 | 224 | 83 | 1993 | 306 | 29 |
| 1910 | 234 | 78 | 1952 | 161 | 116 | 1994 | 285 | 36 |
| 1911 | 371 | 12 | 1953 | 218 | 88 | 1995 | 248 | 68 |
| 1912 | 375 | 11 | 1954 | 387 | 7 | 1996 | 362 | 14 |
| 1913 | 266 | 51 | 1955 | 268 | 49 | 1997 | 244 | 70 |
| 1914 | 168 | 112 | 1956 | 167 | 113 | 1998 | 187 | 109 |
| 1915 | 200 | 103 | 1957 | 208 | 94 | 1999 | 332 | 23 |
| 1916 | 329 | 25 | 1958 | 209 | 93 | 2000 | 259 | 57 |
| 1917 | 216 | 91 | 1959 | 241 | 73 | 2001 | 131 | 122 |
| 1918 | 253 | 64 | 1960 | 176 | 111 | 2002 | 262 | 54 |
| 1919 | 223 | 84 | 1961 | 221 | 86 | 2003 | 185 | 110 |
| 1920 | 243 | 71 | 1962 | 229 | 81 | 2004 | 288 | 34 |
| 1921 | 389 | 6 | 1963 | 317 | 26 | 2005 | 385 | 9 |
| 1922 | 246 | 69 | 1964 | 201 | 101 | 2006 | 366 | 13 |
| 1923 | 420 | 2 | 1965 | 236 | 76 | 2007 | 354 | 17 |
| 1924 | 141 | 120 | 1966 | 280 | 40 | 2008 | 217 | 90 |
| 1925 | 303 | 30 | 1967 | 187 | 108 | 2009 | 284 | 38 |
| 1926 | 270 | 47 | 1968 | 360 | 15 | 2010 | 569 | 1 |
| 1927 | 391 | 5 | 1969 | 229 | 80 | 2011 | 218 | 89 |
| 1928 | 343 | 21 | 1970 | 261 | 55 | 2012 | 401 | 3 |
| 1929 | 201 | 100 | 1971 | 279 | 42 | 2013 | 202 | 99 |
| 1930 | 252 | 66 | 1972 | 203 | 97 | 2014 | 391 | 4 |
| 1931 | 254 | 63 | 1973 | 298 | 33 | 2015 | 272 | 45 |
| 1932 | 241 | 72 | 1974 | 330 | 24 | 2016 | 283 | 39 |
| 1933 | 203 | 98 | 1975 | 271 | 46 | 2017 | 230 | 79 |
| 1934 | 249 | 67 | 1976 | 220 | 87 | 2018 | 206 | 95 |
| 1935 | 336 | 22 | 1977 | 279 | 41 | 2019 | 258 | 59 |
| 1936 | 166 | 115 | 1978 | 256 | 61 | 2020 | 257 | 60 |
| 1937 | 157 | 117 | 1979 | 226 | 82 | 2021 | 146 | 119 |
| 1938 | 239 | 74 | 1980 | 194 | 106 |  |  |  |
| 1939 | 275 | 43 | 1981 | 222 | 85 |  |  |  |
| 1940 | 196 | 105 | 1982 | 352 | 18 |  |  |  |
| 1941 | 139 | 121 | 1983 | 349 | 19 |  |  |  |

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APPENDICES

## Appendix B - Return Period of Rain Events by Rain Gauge

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## APPENDIX B

|  | Return Period | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Waste Water Treatment Plant | 2-5 Year | 4 | 0 | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 16 |
|  | 5-25 Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
|  | 25-100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total | 4 | 0 | 3 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 18 |
| Woodlawn | 2-5 Year | 5 | 1 | 3 | 2 | 1 | 1 | 0 | 4 | 2 | 0 | 19 |
|  | 5-25 Year | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | 25-100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total | 5 | 2 | 3 | 3 | 1 | 1 | 0 | 4 | 1 | 0 | 21 |
| Shaw Centre | 2-5 Year | 5 | 2 | 5 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 23 |
|  | 5-25 Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | 25-100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total | 5 | 2 | 5 | 4 | 1 | 1 | 1 | 2 | 1 | 2 | 24 |
| Nicholson Yards | 2-5 Year | 2 | 0 | 2 | 1 | 0 |  |  |  |  |  | 5 |
|  | 5-25 Year | 0 | 0 | 1 | 1 | 0 |  |  |  |  |  | 2 |
|  | 25-100 Year | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  | 0 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  | 0 |
|  | Total | 2 | 0 | 3 | 2 | 0 |  |  |  |  |  | 7 |
| Light and Power | 2-5 Year | 2 | 2 | 3 | 0 | 1 | 0 | 1 | 4 |  | 2 | 15 |
|  | 5-25 Year | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |  | 0 | 1 |
|  | 25-100 Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 0 | 1 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
|  | Total | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 4 |  | 2 | 17 |
| City Hall | 2-5 Year | 5 | 3 | 4 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 22 |
|  | 5-25 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|  | 25-100 Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total | 5 | 3 | 4 | 2 | 1 | 1 | 2 | 3 | 2 | 1 | 24 |
| Attridge Fire Hall | 2-5 Year | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 2 |  | 0 | 6 |
|  | 5-25 Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  | 0 | 1 |
|  | 25-100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
|  | Total | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 2 |  | 0 | 7 |
| Aden Bowman | 2-5 Year |  |  |  |  |  |  |  |  | 1 | 0 | 1 |
|  | 5-25 Year |  |  |  |  |  |  |  |  | 0 | 0 | 0 |
|  | 25-100 Year |  |  |  |  |  |  |  |  | 0 | 0 | 0 |
|  | > 100 Year |  |  |  |  |  |  |  |  | 0 | 0 | 0 |
|  | Total |  |  |  |  |  |  |  |  | 1 | 0 | 1 |
| Acadia Reservoir | 2-5 Year | 4 | 1 | 2 | 1 | 2 | 2 | 0 | 2 | 2 | 0 | 16 |
|  | 5-25 Year | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
|  | 25-100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | > 100 Year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total | 4 | 1 | 2 | 2 | 2 | 2 | 0 | 3 | 2 | 1 | 19 |

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