Winter Carnival.

**TEMPERATURES** 

Snow Norm.\*

**56.7°** 51.8° 55.1°

Avg. 2015 2014 Normal low **39.9°** 34.8° 37.1°

0.67 1.89

Precip. Norm.

6.8 10.3

Snow Norm.'

### 2015 2014 Normal 24 hour maximum

4.4 4.25

Precip. Norm.

7.32 4.04

Precip. Norm.

2.99 4.3

Precip. Norm.

4.65 3.08

Precip. Norm.

**COOLING DEGREE DAYS** 2015 2014 Normal 759

2.61 2.43

Precip. Norm.\*

Heating and cooling degree days: The higher the number, the more energy required to heat or cool a building to 65 degrees. Heating degree days are based on annual data \*Normals for temperatures, precipitation, heating and cooling degree days are based on 1981-2010, 30-year average

2015 WEATHER REPORT Aug. 14 had the **highest recorded temperature.** - Statewide. The Twin Cities broke Oct. 11, 2015, was a 129-year-old calendar-day rainfall the **warmest** record Nov. 17 with Oct. 11th of the modern record. 1.21 inches of rain. December was 8° to 12° warmer than normal marking the warmest Dec. since 1895 in the state, beating the previous record from 1939. July was the warmest month with an avg. daily temp. of 73.4° Temperatures through most of the summer stayed close to the 30-year normals with only a few exceptions Gray swath shows 30-year, 1981 to 2010 It was the warmest It was the average high and low temperatures

> record for the state fourth-warmest going back to 1895. and **sixth-wettest** November.

September on

Second warmest Sept.-Nov. in Minn. back to 1895 with avg. statewide temps that were 6.3 degrees above normal.

Note: All data were collected at the Minneapolis-St. Paul International Airport. Temperatures in degrees Fahrenheit and precipitation in inches Sources: National Weather Service, State Climatology Office-DNR Division of Ecological and Water Resources

Twin Cities'

#### March

Avg.high Avg.low Norm.\* The shivering continued. Duluth's high of 3 degrees on March 4 was the chilliest ever for the date. But in less than a week (March 10), the Twin Cities had a high of 66, tying a record for the date. That led a 10-day "warm wave," which brought a record 70 to the Twin Cities on March 15. Lake Shetek in southwestern Minnesota's Murray County went ice-free March 19, more than two weeks earlier than the median date in 55 years of record keeping. Then the deepest snowfall of the season for many areas came March 22-23, with up to 10 inches from the southern Twin Cities suburbs to Rochester.

#### April

59.9° 39.6° 47.5°

Avg.high Avg.low Norm.\* Luverne claimed a no-fooling April 1 state high temperature with 86, while the Twin Cities reached 84. a local record. Southern Minnesota saw nearly 3 inches of rain April 4-10. Water levels in lakes and rivers across much of the state were below average due to reduced winter snowfall. The Twin Cities saw 0.2 inches of snow with doily-sized flakes April 10, then hit 68 degrees the next day. A capacity crowd for the Twins' home opener April 13 enjoyed a high of 63. The low was the final score: Royals 12, Twins 3. High winds and dry air were common in April. The Twin Cities had an April

#### Mav

68.5° 49.9° 59.1° Avg.high Avg.low Norm.\*

A storm on May 3 pelted the metro area with heavy hail, including some stones in Stillwater that measured 1.75 inches, Morris received 4.24 inches of rain May 16-17, and the month ended with total rainfall well above normal for much of the state. Tornado season had a busy opening day. Approximately 15 twisters touched down across western Minnesota on May 16 but caused little damage. A cool blitz May 18-20 frosted some early crops. By month's end, most of the state's rivers were running well above median flows. Twin Cities rainfall, just above normal, ended an 11-month below-normal streak

### June

78.7° 60.7° 68.8° Avg.high Avg.low Norm.\*

More frost visited northern Minnesota on June 1. A low of 24 in Togo was a record for the state as well as the lowest temperature in the continental U.S. So the Twin Cities high of 92 on June 9 came out of the cool blue - especially because there wasn't another high in the 90s until July 17. Albert Lea got 9.09 inches of rain for the month, more than twice normal. The metro area was bombarded by hail June 29, with stones of 2 inches or more in diameter falling across the northern suburbs. Otherwise, Twin Cities temperatures and rainfall were nearly dead-on normal for the month.

### July

82.4° 64.3° 73.8° Avg.high Avg.low Norm.\*

Smoke from distant Canadian forest fires muted the Minnesota skies and brought air-quality warnings for the July 4th weekend. Massive rains hit the metro area overnight July 5-6. A blast of storms July 12-13 made a direct hit on the lakes country, tearing up trees and cottages, tossing boats and docks around and damaging Brainerd International Raceway. More storms overnight July 17-18 knocked out power to 250.000 households. mostly in the metro area, some for days. The morning commute July 28 was more swim than slog: Richfield received 1.4 inches in 35 minutes.

#### August 79.3° 62.2° 71.2°

Avg.high Avg.low Norm.\* The state's biggest hailstone of the year — with a girth of 12 inches — fell west of "heat island" status in mid-

Roseau on Aug. 12. The state's northwest corner also earned month. Hallock in northwestern Minnesota had highs from 90 to 95 Aug. 12-15, running warmer than the Twin Cities, where the high of 94 on Aug. 14 made for the hottest day of the year locally. Cold, rainy, fall-like weather followed across much of the state. The Twin Cities had highs of only 67 and 65 on Aug. 18 and 19, respectively, and rain. Lightning and heavy rain led to two evacu-

ations of fans at a Vikings preseason game Aug. 22. moon on Sept. 27.

8.520

# September

76.4° 59.3° 62.0° Avg.high Avg.low Norm.\*

Summer won in overtime, with the warmest September in the state and the fourth warmest in the Twin Cities. Warm nights — one of the central features of Minnesota's warming climate — were key: Detroit Lakes had a record warm low of 73 Sept. 16, one of many at midmonth. More heavy rain fell; several central Minnesota cities absorbed more than 3 inches on Sept. 6 alone: then Mahtomedi received 3.43 on Sept. 17. Cotton and other locations north of Duluth reported up to 3.8 inches on Sept. 24. Clear skies allowed for a full eclipse of the harvest

# October

61.0° 43.0° 48.9° Avg.high Avg.low Norm.\*

And you thought September Minnesotans turned back was warm? Wheaton and their clocks Nov. 1, and the Moorhead hit 97 on Oct. 11, weather followed. The Twin the highest temperature Cities saw highs in the low recorded on so late a date in 70s on Nov. 2-3. Gardeners Minnesota. Swimmers took continued to harvest fruits to the lakes, although some and vegetables, and some probably were surprised perennials sent out spring to find the water less sumblooms. Again, warm nights merlike than the air. (Lake were significant: There Minnetonka's surface temwere 145 records set for perature dropped to about warm low daily tempera-60, 10 degrees lower than tures across the state, and three weeks earlier.) Less not a single record cold low. than a week later, on Oct. 17, Winnebago (2.6 inches) and the Twin Cities temperature Faribault (2.45) set November single-day rainfall dropped to 31, the first subrecords Nov. 11. The Twin freezing mark of the season. It was nine days later than Cities' first dip back into the average. The low wouldn't 20s Nov. 20 was the latest drop below freezing for such event in the 138-yearnearly four more weeks. old record book

0.6

0

4.52 1.77

Precip. Norm.\*

## November

December 49.0° 33.7° 33.7° 35.1° 25.2° 19.7° Avg.high Avg.low Norm.\* Avg.high Avg.low Norm.\*

The Twin Cities had its thirdwarmest December, Many records fell, including a Dec. 7 high of 50 at Grand Portage, and daily rainfalls topping an inch Dec. 13-14 across southern Minnesota. Many lakes were ice-free in the year's final week, forcing the U.S. Pond Hockey Championships to be postponed. The Twin Cities had its third brown Christmas in five years, but snow lovers were thrilled by a Dec. 28-29 storm that dropped 10 inches across southern Minn. The 5.5 inches in the Twin Cities was more than from any storm last winter. The Twin Cities had only one sunny day.

Bill McAuliffe is a Minneapolis-based freelance writer

2.32 1.16 9.5 11.9 Precip. Norm.\* Snow Norm.\*

**Annual** totals

Avg. 2015 2014 Normal

degrees below normal.

The month had 12 of the

season's 28 subzero days,

including minus-11 read-

ings Feb. 19 and Feb. 23.

Cotton, north of Duluth,

plummeted to 42-below

on Feb. 19. That reading,

the state's lowest all win-

ter, came during a stretch

of weather that was the

coldest in nearly 50 years

across the Northland. In

the Twin Cities, snowfall

continued to run about

0.35 0.77 4.9 7.7

Snow Norm.\*

60 percent of normal.

Precip. Norm.\*

2.42 2.66

Precip. Norm.\*

23 low dew point of 1 degree.

0.3 2.4

Snow Norm.\*

2.83 inches on June 19

3.55 3.36

2015 2014 Normal\*

**SNOWFALL** (inches)

24 hour maximum 3.8 inches on Nov. 30

2015 6.728

5.1 9.3