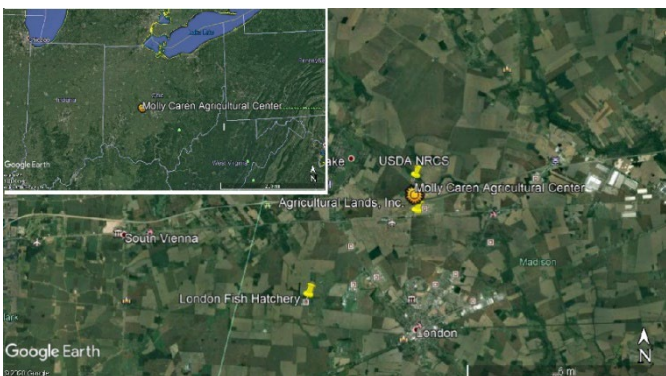




# Historical Weather Conditions for Farm Science Review at Molly Caren (1983-2021)

## Introduction

Since 1983, Molly Caren Agricultural Center (MCAC) has been the home of the Farm Science Review (FSR). Occurring during the third week of September, the event experiences a variety of weather conditions. The descriptions to follow show the conditions over the period 1983-2021.



Location of MCAC including three sites used to compile a weather history: London Fish Hatchery, USDA NRCS at the Gwynne Conservation Area, and Agricultural Lands, Inc. just south of MCAC.

## Climate Overview

- Average show-high temperature: 76.4°F.
- Average show-low: 51.7°F.
- Thursday is the warmest (76.8°F) and driest (0.03") day of the show.
- Most wet days have occurred on Tuesdays (14).
- Wednesday has been the wettest day (average-0.14"; greatest-3" in 2021)
- The overall chance of precipitation on any given day of the show is about 30%.

**Table 1: Top 10 FSR shows (1983-2021)\***

| Warmest (°F) |      | Coldest (°F) |      | Wettest (in)* |                   |
|--------------|------|--------------|------|---------------|-------------------|
| 1986         | 75.8 | 2006         | 53.8 | 2021          | 3.22 <sup>#</sup> |
| 2018         | 75.2 | 1990         | 54.0 | 1992          | 1.33              |
| 2009         | 73.0 | 1999         | 54.7 | 1998          | 1.02              |
| 2010         | 72.3 | 2014         | 55.3 | 1983          | 0.80              |
| 2016         | 72.0 | 2012         | 57.0 | 2001          | 0.68              |
| 2019         | 71.5 | 1995         | 57.7 | 2017          | 0.61              |
| 2017         | 71.0 | 1985         | 57.8 | 1985          | 0.48              |
| 2002         | 70.5 | 1998         | 58.0 | 2011          | 0.45              |
| 1991         | 70.3 | 1987         | 60.5 | 2003          | 0.40              |
| 2007         | 69.3 | 2013         | 60.7 | 1987/90       | 0.31              |

\* Note: Not enough data to include 1999 or 2002.

<sup>#</sup>Show cancelled on Wednesday due to weather.

## Weather Extremes

With the show occurring during the month of September, it is not uncommon to see the battle of the seasons taking place. Table 2 shows the warmest, coldest, and wettest days for each day and show.

|                              | Tuesday                    | Wednesday                  | Thursday                               | Show             |
|------------------------------|----------------------------|----------------------------|--|------------------|
| <b>Warmest Daytime High</b>  | 91°F<br>(1991/17)*         | 91°F<br>(2010/22)          | 89°F<br>(2002/19, 2010/23,<br>2016/22) | 87.3°F<br>(2016) |
| <b>Coldest Daytime High</b>  | 62°F<br>(1990/18)          | 60°F<br>(1990/19, 2006/20) | 56°F<br>(1983/22)                      | 63.3°F<br>(1990) |
| <b>Warmest Nighttime Low</b> | 69°F<br>(1986/23)          | 68°F<br>(2009/23)          | 68°F<br>(1986/25)                      | 68.0°F<br>(1986) |
| <b>Coldest Nighttime Low</b> | 38°F<br>(1984/18, 1999/21) | 36°F<br>(1999/22)          | 37°F<br>(2012/20)                      | 38.7°F<br>(1999) |
| <b>Wettest</b>               | 1.33"<br>(1992/22)         | 3.00"<br>(2021/22)         | 0.31"<br>(1990/20)                     | 3.22"<br>(2021)  |

\* Dates are provided in parentheses as (year/day of September).

## Changing Weather at FSR

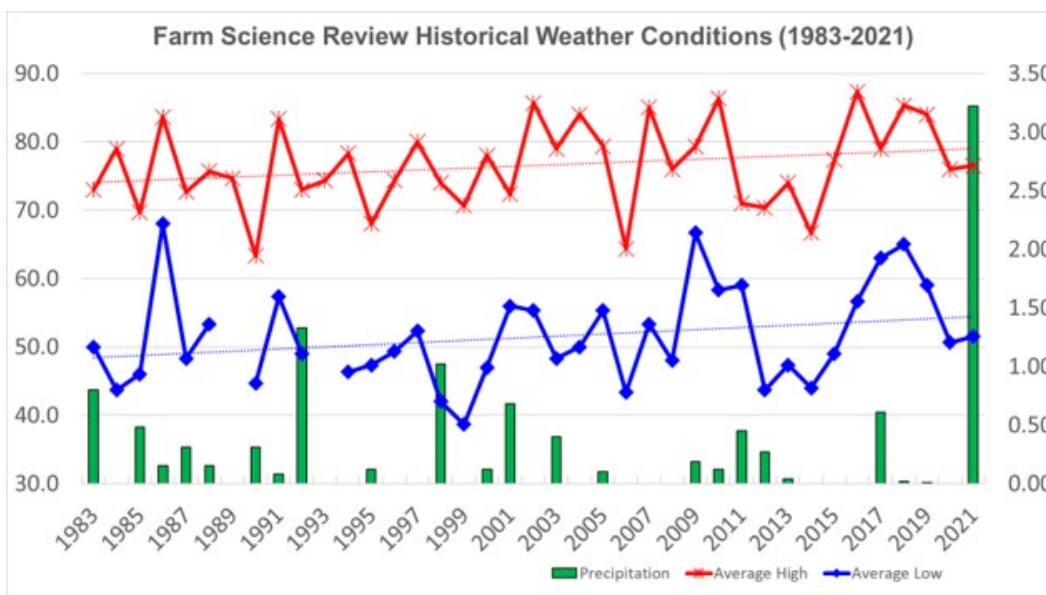


Figure on the left displays the show average daily highs, lows, and total precipitation for each FSR at MCAC throughout the 39-year history. Notice that both highs and lows are trending warmer.

Averaged daily high (red) and daily low (blue) temperatures (left axis; °F) and precipitation (right axis; inches) for each show for 1983-2021

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