

## Eglin Air Force Base and Duke Field Climate Summary October 2022

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We had a very cool (below normal) October month for our area for temperatures. At KVPS, we had a daily mean temperature during the month of 67.1 deg F (19.5 deg C), which was a 11.6 deg F cooler than the daily mean temperatures during the previous month, in September. October of 2022 was 3.9 deg F below normal for the month, and was the 16th coolest October on record out of the past 83 years, dating back to 1940. The month of October 2022 was quite a change from the previous four years, when we had the 2nd, 3rd, 9th and 12th warmest Octobers on record, for the years of 2018, 2019, 2020, and 2021, respectively.

For precipitation, we continued to develop a drought situation in northwest Florida, which has been unseasonably dry dating back to 13 September. October of 2022 had a total of only 1.08" of rainfall during the month, which is the 18th driest October on record, dating back to 1940. The October rainfall at Eglin AFB was 2.52" below normal, during the month which is climatologically the second driest month for KVPS during the year (behind May). The dry conditions we have developed this fall are generally expected to persist through the winter months, as we continue to be in a La Nina weather pattern for a third consecutive year. During La Nina winters, we tend to have above normal temperatures, and below normal precipitation in the southeastern United States. During the past month of October, we had two days with thunderstorms reported at KVPS, which is normal for the month.

For Duke Field, we had a daily mean temperature for the month of October 2022 of 64.6 deg F (18.1 deg C). The total precipitation during the month was only 1.25" of rainfall. There were three days with thunder reported during the month. Note that the temperature data for the 22nd and 23rd were estimated for KEGI in October. (There was no rain in the area on the 22<sup>nd</sup> and 23<sup>rd</sup>.) There was a major equipment and/or power outage problem at KEGI during the week-end of 22 and 23 October, when there was no forecaster on duty at KEGI (which is a limited duty station). As a backup, data from RAWS observing sites of B70 to the southwest of KEGI, and C64 to the east-northeast of KEGI, to approximate the max and min temperature data for those dates.

Daily temperature and precipitation records for KVPS and KEGI:

For KVPS, there were two new minimum temperatures set during the month. There were no daily maximum temperature or rainfall records tied or set during the month.

19 October 2022: The low temperature of 37 degrees F broke the previous minimum temperature record of 38 degrees F, which had occurred in 1948 and 2009.

20 October 2022: The low temperature of 36 degrees F broke the previous minimum temperature record of 37 degrees F, which was set in 1989.

For KEGI, there were three new daily minimum temperatures tied or set during the month. There were no new daily maximum temperatures or precipitation records tied or set during the month.

Record Daily Minimum Temperatures:

10 October 2022: 44 deg F, broke previous record of 48 deg F set in 1976.

19 October 2022: 33 deg F, broke the previous record of 34 set in 2009.

20 October 2022: 29 deg F, broke the previous record of 37 set in 2009.