



Current Operation Level

Minimal Impacts

Minor Impacts

Major Impacts

Significant Impact

Impact Potential:

Typically no or minimal inconvenience to daily routines.

Safety: May pose a direct threat to life and property.

Impact Potential:

Typically results in some inconvenience to daily life or minor disruptions to daily life.

Safety: Often threatening to life and property, some damage unavoidable. Life saving actions likely necessary.

Impact Potential:

Typically results in major disruption to daily life.

Safety: Property damage likely and life saving actions necessary.

Impact Potential:

Typically results in significant disruption to daily life or long-lived disruption to daily life.





Forecast Details

- ❑ High temperatures through Friday will rise into the lower to mid 90s. Some locations today could reach the upper 90s!
- ❑ Afternoon peak heat index values are forecast to generally range between 105°-109°F today and between 100°-108°F on Friday.
 - ❑ ***A HEAT ADVISORY remains in effect area-wide through 7 PM CDT Friday.***
 - ❑ Some locations today may see higher heat indices to around 110 degrees!
- ❑ Low to medium chances (30-40%) of showers and storms are possible today that could bring brief, heavy downpours, lightning, and some gusty winds.
- ❑ High (70-100%) chances of showers and storms are possible on Friday.
 - ❑ This may limit overall heating for areas that receive rain.
 - ❑ Some stronger storms are possible, with heavy downpours and gusty winds the main threats.

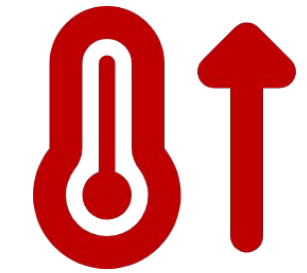
What We Are Watching

- ❑ *If dewpoints/temperatures trend warmer than forecast this afternoon, an excessive heat warning may be needed for portions of the area.*
- ❑ Coverage of showers and storms, especially on Friday as higher coverage would dampen heat effects a bit.



Hazardous Weather Details

July 4, 2024
3:18 AM



Forecast Details:

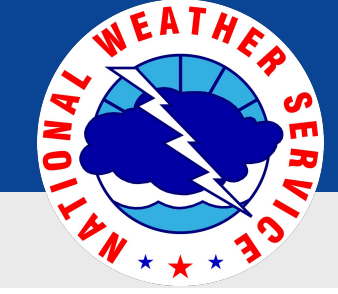
- ❑ **What:**
 - ❑ Heat Advisory for max heat index values between **105° - 109°F** each afternoon
- ❑ **When:**
 - ❑ Through 7 PM Friday



Heat Advisory through 7PM Friday



No significant changes were needed.



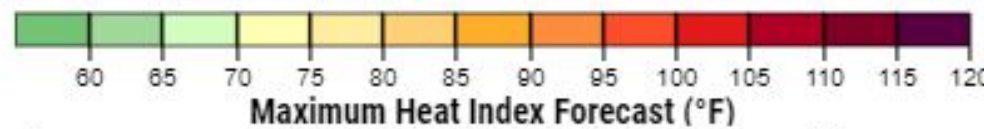
Max Heat Index Values

July 4, 2024
3:18 AM

Today through Friday

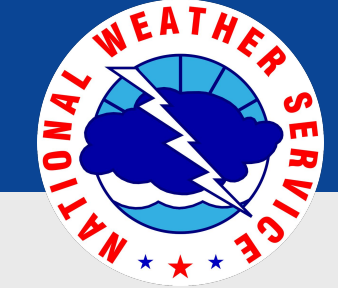
Maximum Heat Index Forecast (°F)

	7/4 Thu							7/5 Fri							Maximum	
	3am	6am	9am	12pm	3pm	6pm	9pm	12am	3am	6am	9am	12pm	3pm	6pm		9pm
Albertville	75	79	96	100	101	97	89	78	76	79	96	101	101	98	87	101
Athens	78	87	102	106	106	105	94	87	78	87	99	103	105	100	87	106
Cullman	75	78	97	101	103	101	90	79	76	79	96	101	102	98	85	103
Decatur	79	89	102	106	107	106	95	90	84	90	101	106	107	102	90	107
Fayetteville	76	87	101	106	106	103	93	79	76	79	100	105	106	98	85	106
Florence	79	89	102	106	108	106	94	89	79	89	102	106	106	102	89	108
Fort Payne	72	76	93	97	99	96	85	76	73	77	93	97	97	94	79	99
Guntersville	79	79	96	99	101	98	91	86	79	87	99	102	101	99	89	102
Hartselle	76	87	101	105	106	105	94	87	78	87	99	105	106	102	89	106
Huntsville	78	86	101	105	105	103	93	88	79	89	102	106	106	102	90	106
Lynchburg	75	84	98	103	103	102	91	79	76	79	98	103	103	97	79	103
Madison	77	87	101	105	106	103	94	87	79	89	99	103	103	99	87	106
Russellville	77	79	98	102	105	101	90	79	76	79	97	102	102	98	79	105
Scottsboro	75	79	99	103	103	101	90	79	76	79	99	102	102	99	87	103
Winchester	75	84	97	102	102	101	89	78	75	78	98	103	103	98	79	103



Created: 3 am CDT Thu 7/4/2024 | Values are maximums over the period beginning at the time shown.





Heat Risk Level

July 4, 2024
3:18 AM

	Thursday, July 4	Friday, July 5
Huntsville	Extreme	Major
Muscle Shoals	Extreme	Moderate
Decatur	Extreme	Major
Winchester	Major	Moderate
Fort Payne	Major	Moderate
Cullman	Major	Moderate

Risk Levels	Minor	Moderate	Major	Extreme
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Heat Risk Level Explained

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Category	Risk of Heat- Related Impacts
Green	Little to no risk from heat expected.
Yellow 1	Minor - This level of heat affects primarily those individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
Orange 2	Moderate - This level of heat affects most individuals sensitive to heat, especially those without effective cooling and/or adequate hydration. Impacts possible in some health systems and in heat-sensitive industries.
Red 3	Major - This level of heat affects anyone without effective cooling and/or adequate hydration. Impacts likely in some health systems, heat-sensitive industries and infrastructure.
Magenta 4	Extreme - This level of rare and/or long-duration extreme heat with little to no overnight relief affects anyone without effective cooling and/or adequate hydration. Impacts likely in most health systems, heat-sensitive industries and infrastructure.



Key Points

July 4, 2024
3:18 AM



Hazards:

- Heat index values between 105° - 109°F



Impacts:

- Heat related illness



Areas Impacted:

- All of northern AL and southern middle TN



Confidence:

- High



Timing & Duration:

- Today through Friday afternoon



Next Update:

- 7 AM Friday morning





Preparedness Information

July 4, 2024
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Heat Impacts: Vulnerable Populations



PREGNANT

Extreme heat events have been associated with adverse birth outcomes such as low birth weight, preterm birth, infant mortality, and congenital cataracts.



NEWBORNS

Newborns are extra sensitive to heat because their ability to regulate body temperature is limited.



CHILDREN

Young children and infants are particularly vulnerable to heat, as their bodies are less able to adapt to heat than adults. Those under four are especially vulnerable.



ELDERLY

Older adults, especially those who have preexisting diseases, take certain medications, live alone or have limited mobility are at higher risk for heat illness.



CHRONIC ILLNESS

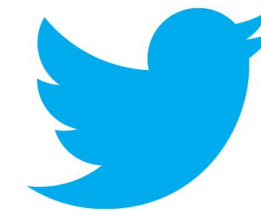
People with chronic medical conditions are more likely to have a serious health problem during a heat wave.

Source:
The Impacts of Climate Change on Human Health in the United States, A Scientific Assessment (U.S. Global Changes Research Program)

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Huntsville, AL