

# Temperatures of Saint Louis Area Parks

June, September 2016

Central Park, Chesterfield, MO  
Saint Louis Premium Outlets, Chesterfield, MO  
Conway Park, Creve Coeur, MO  
Des Peres Park, Des Peres, MO  
Bluebird Park, Ellisville, MO

## SYNTHETIC TURF Skin Injury References

### EXPOSED SKIN/BODY EFFECTS

\*MSHSAA Guidelines

\*\*Universities like BYU: athletic fields unusable above 120° F.

**105 °F\*** (heat index)  
cancel sport  
115 °F  
burns, heat stroke

**122 °F\*\***  
<10 MINUTES injure/burn  
131 °F  
2nd degree burn

**>120 °F** scalds

**140 °F**  
3 SECONDS  
2nd degree burn  
5 SECONDS  
3rd degree burn

**162 °F**  
human tissue destroyed on contact, may cause nerve damage

### Sources:

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<http://www.npr.org/templates/story/story.php?storyId=93364750>

<http://emergencynurse-community.blogspot.com/2009/05/burns-thermal.html>

**Central Park**  
Chesterfield, MO  
6/2016

Air Temp = 95 °F      Tire Mulch = **175 °F**



**Saint Louis Premium Outlets**  
Chesterfield, MO  
9/2016

Air Temp 93      Tire PIP surface  
= **139 °F**



**Conway Park**  
Creve Coeur, MO  
9/2016

Grass = 89 °F



Saint Louis  
Mostly Cloudy  
89°



Tire PIP surface = 126 °F



Plastic Slide = 113 °F



Concrete = 104 °F



Asphalt = 106 °F



**Des Peres Park**  
Des Peres, MO  
9/2016



Two neighboring playgrounds:

1. Wood chips with tire safety mat
2. Tire poured-in-place



Bluebird Park  
Ellisville, MO  
9/2016

