

# **Sustainable Playing Fields & Playgrounds**

**A Scientific Case for Healthy Stamford Recreation**

City of Stamford Parks & Recreation Commission Special Meeting: Educational Presentation  
October 6, 2022

Melanie Hollas, Vice-Chair  
Jessica Katz, Commissioner

With Research Support by Fern Galperin, Pollinator Pathway Stamford Dir. of Communications

# Surface Temperatures: Lione Park Field & Playground, Summer 2022

Artificial Turf (AT)


























Poured in Place Rubber (PIP)



Asphalt



**Human skin sustains 1st degree burn @ 118 degrees, 2nd degree burn @ 131 degrees**

| Artificial Turf Field & Playground PIP Surface Temperatures: Stamford, CT - 2022                      |  |  |   |   |   |  |   |   |
|---|--|--|---|---|---|--|---|---|
|   | Date, Time, Air Temperature  | Artificial Turf Temperature  |   | Grass Temperature   | Asphalt Temperature   | Poured in Place Rubber (PIP) Temperature   | Wood Chips in Sun Temperature   | Wood Chips / Grass in Shade Temperature   |
| <b>Cove Island Park</b><br>Playground & Swing Area  | August 4, 2022<br>1:00 PM<br>87 degrees                              |  |   |    |    |   |  |  |
| <b>Lione Park</b><br>Artificial Turf Field & Playground Area<br>3 Acres                               | August 5, 2022<br>12:10 PM<br>89 degrees                             |    | AT is deteriorated with crumb rubber highly visible at surface, smells                                      |    |    |   |   |   |
| <b>Kosciuszko Park</b><br>Playground Area   | August 6, 2022<br>11:51 AM<br>87 degrees                             |  |   |    |   |  |  |  |
| <b>Stamford High School</b><br>Lower & Upper Artificial Turfs Fields                                  | August 3, 2022<br>1:45 PM<br>86 degrees                              |    | <b>UPPER FIELD</b><br>   | 107.5   |   |  |   |   |
| <b>Strawberry Hill Magnet School</b><br>Playground Area   | July 19, 2022<br>4:00 PM<br>92 degrees                               |  |   |   |   |  |   |   |
| <b>Westhill School</b><br>Lower & Upper Artificial Turf Fields (Grass Temp is from Upper Grass Field) | August 3, 2022<br>2:06 PM<br>86 degrees - phone<br>93 degrees - sign |  | <b>FRONT FIELD</b><br> |  |   |  |   |   |
| <b>West Beach Park</b><br>Artificial Turf Fields<br>4.13 Acres  | July 20, 2022<br>12:34 PM<br>85 degrees                              |  | AT is deteriorated with crumb rubber highly visible at surface, smells                                      |   |  |  |   |   |
| <b>Artificial Turf Fields</b><br>4.13 Acres   | August 3, 2022<br>2:50 PM<br>87 degrees - phone                      |  | AT is deteriorated with crumb rubber highly visible at surface, smells                                      |  |   |  |   |   |

Note: Human skin sustains 1st degree burn at 118F, 2nd degree burn at 131F.

# Playground Surfaces

**Poured in Place Rubber (PIP)**



**Engineered Wood Fiber (EWF)**



**Both materials are ADA compliant**

# Playing Fields Surfaces

## Natural Grass (a high school in CT)



# Playing Fields Surfaces

Artificial Turf (Stamford Parks West Beach & Lione)



Installed 13.5 years ago