OUTDOOR COMFORT STUDIES | Skirkanich Hall, Quain Courtyard

Comfortable: 40.17%
Cmft Sht Time: 21.04%
Heat Stress: 4.92%
Cold Stress: 33.87%

Comfortable: 40.17%
Cmft Sht Time: 21.03%
Heat Stress: 4.47%
Cold Stress: 34.33%

Comfortable: 40.29%
Cmft Sht Time: 20.95%
Heat Stress: 5.01%
Cold Stress: 33.75%

Comfortable: 39.34%
Cmft Sht Time: 20.74%
Heat Stress: 5.22%
Cold Stress: 34.70%

Comfortable: 39.46%
Cmft Sht Time: 20.38%
Heat Stress: 5.68%
Cold Stress: 34.48m%

1: To find the best location I searched for a spot that would have solar exposure from a low angle, but that also has a decent amount of shading. The site's surrounding buildings help it to deal with shading intrinsically, so I worked more on the former quality.

2: Best Location: Red | Worst Location: Green. The best location had the lowest percentage of Cold Stress because of its exposure to sunlight in the winter. The worst location was more exposed to heat in the summer and had very little exposure during the winter.

3: The most important parameter is Radiation, though Wind also has a very minor effect (the Wind is basically the same across the whole site, since its bounded by buildings on all sides).

4: The current simulation method doesn't account for what a person is wearing to regulate their temperature, or how they're postured relative to the shading or lack thereof on site.

Logan Weaver | Assignment 05: Annual Comfort Map