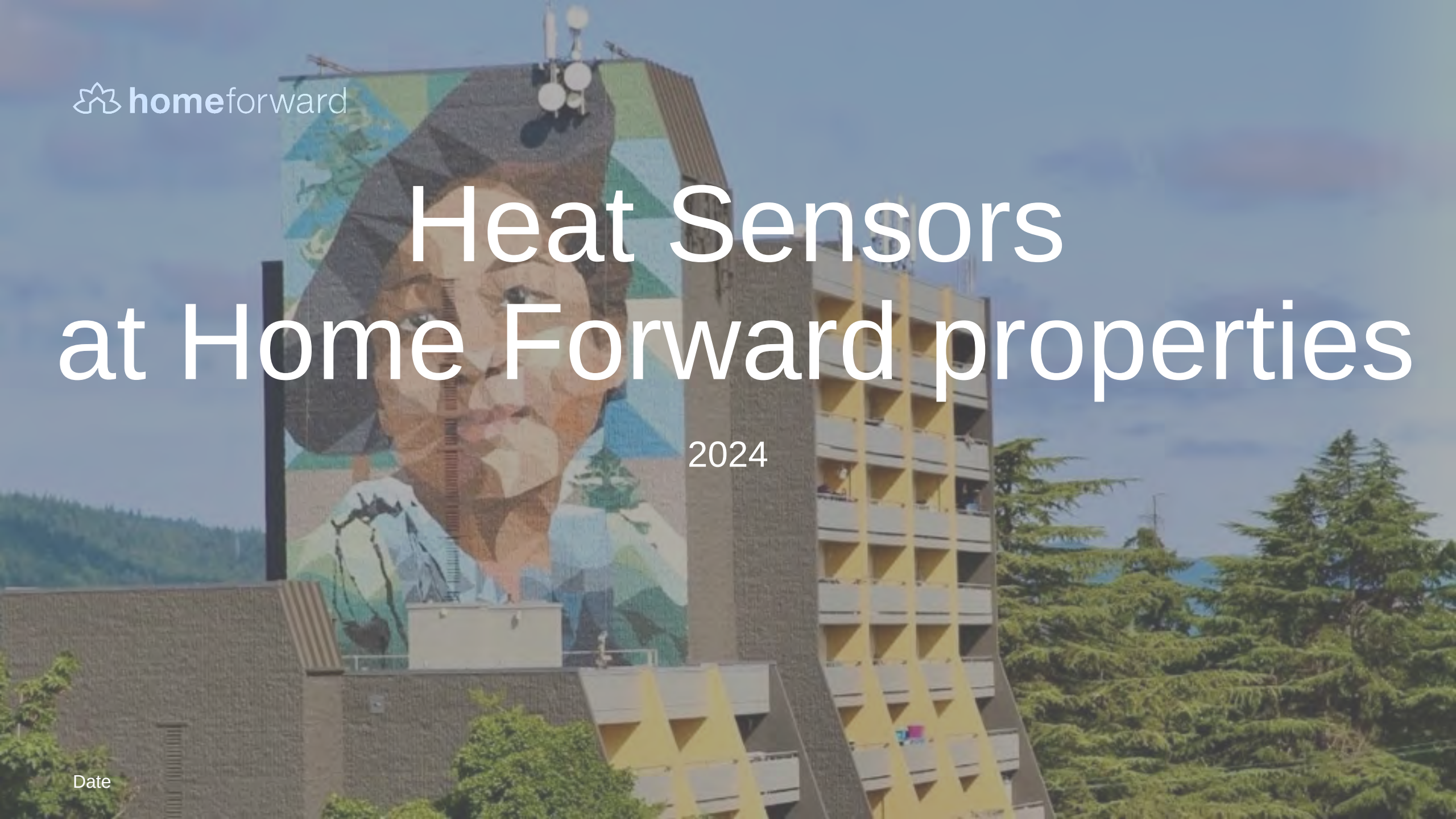


homeforward

Heat Sensors at Home Forward properties

2024

Date

CITY OF PORTLAND, OREGON 1851

PBEM

homeforward

CAPA strategies

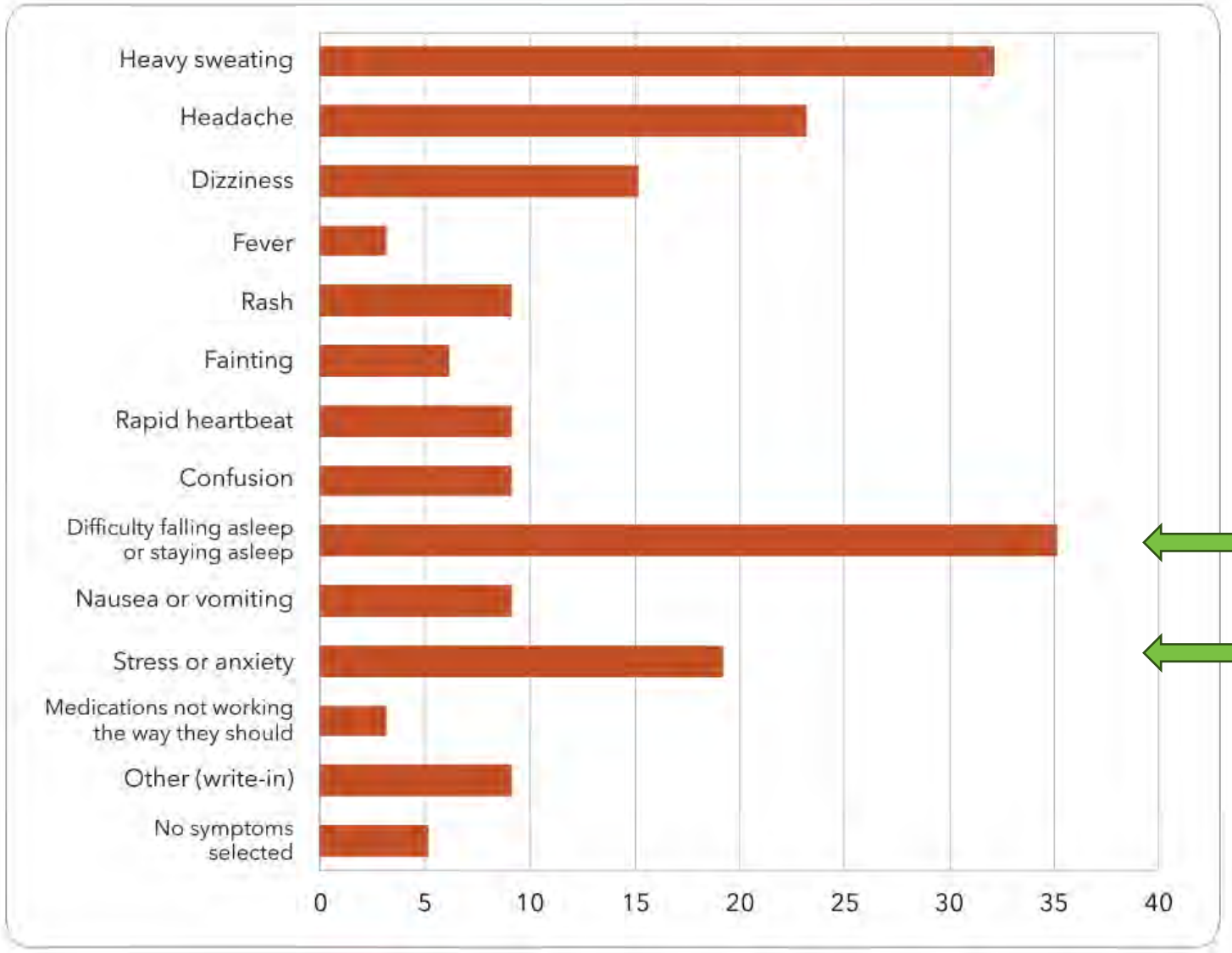
Why?

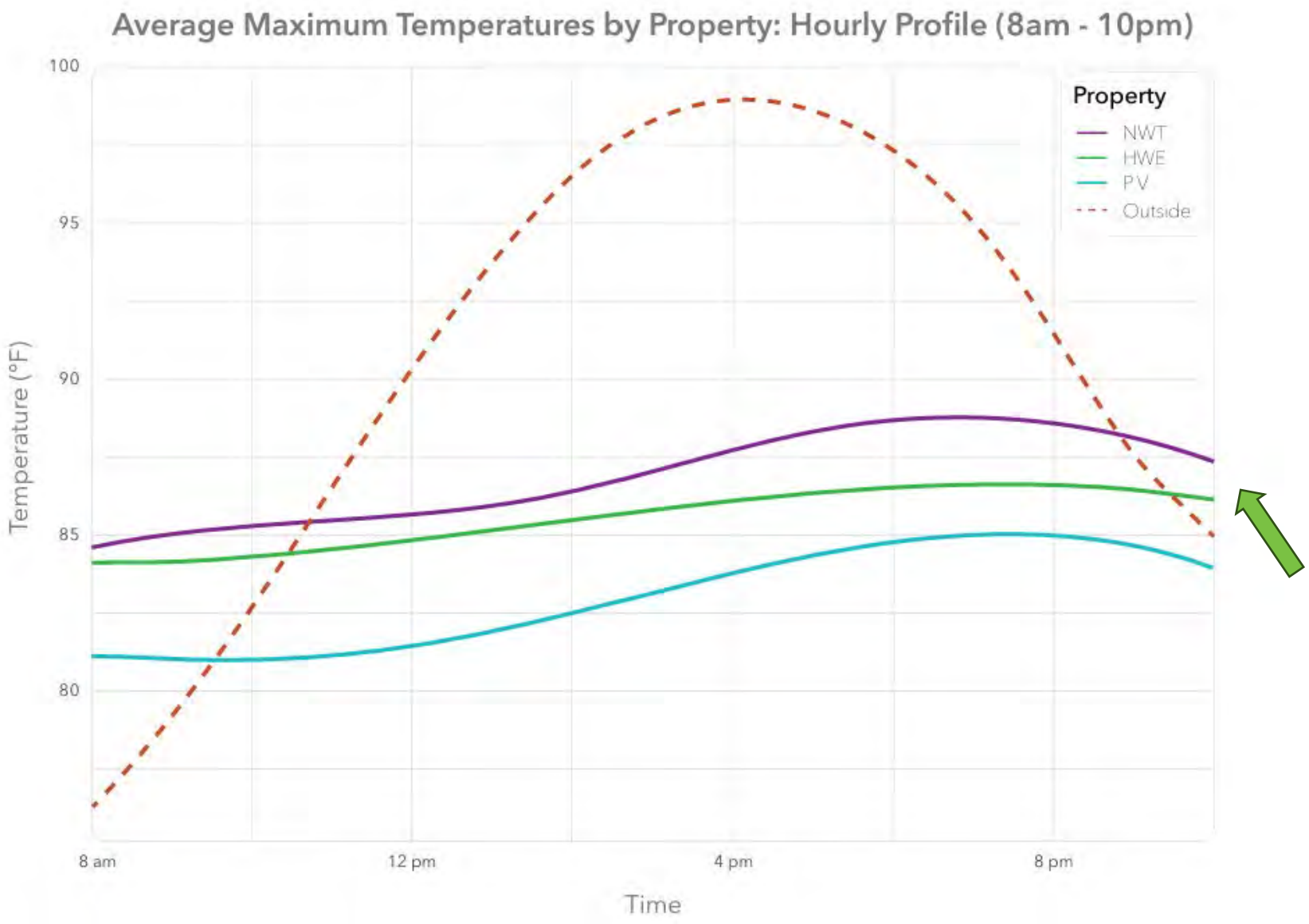
Reports by resident and staff Including:

- Is hotter inside the building than outside
- We cant sleep
- People is more agitated, more issues in our community
- My AC is at full capacity and seems is not working

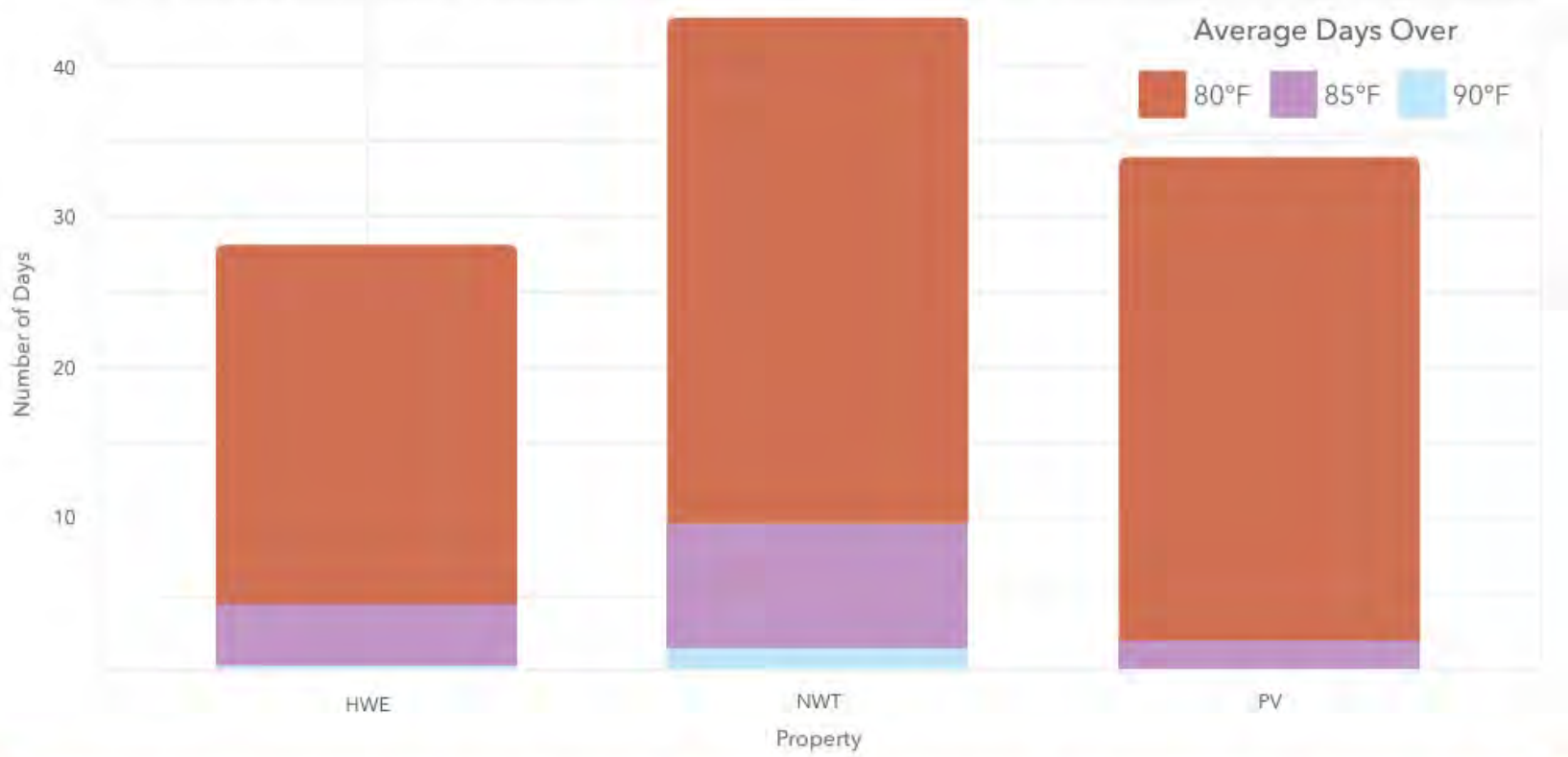
Vulnerability

Symptoms


Heavy sweating
Headache
Dizziness
Fever
Rash
Fainting
Rapid heartbeat
Confusion
Difficulty falling asleep or staying asleep
Nausea or vomiting
Stress or anxiety
Medications not working the way they should
Other (write-in)
No symptoms selected
0
5
10
15
20
25
30
35
40


Average Maximum Temperatures by Property: Hourly Profile (8am - 10pm)
100
95
90
85
80
Temperature (°F)
8 am
12 pm
4 pm
8 pm
Time
Property
NWT
HWE
PV
Outside

Average Number of Days that Sensors Exceeded Temperature Thresholds



Property	Avg days over 80	Avg days over 85	Avg days over 90
HWE	27.9	4.2	0.2
NWT	42.9	9.6	1.3
PV	33.7	1.8	0

Dahlke Manor (Y2)

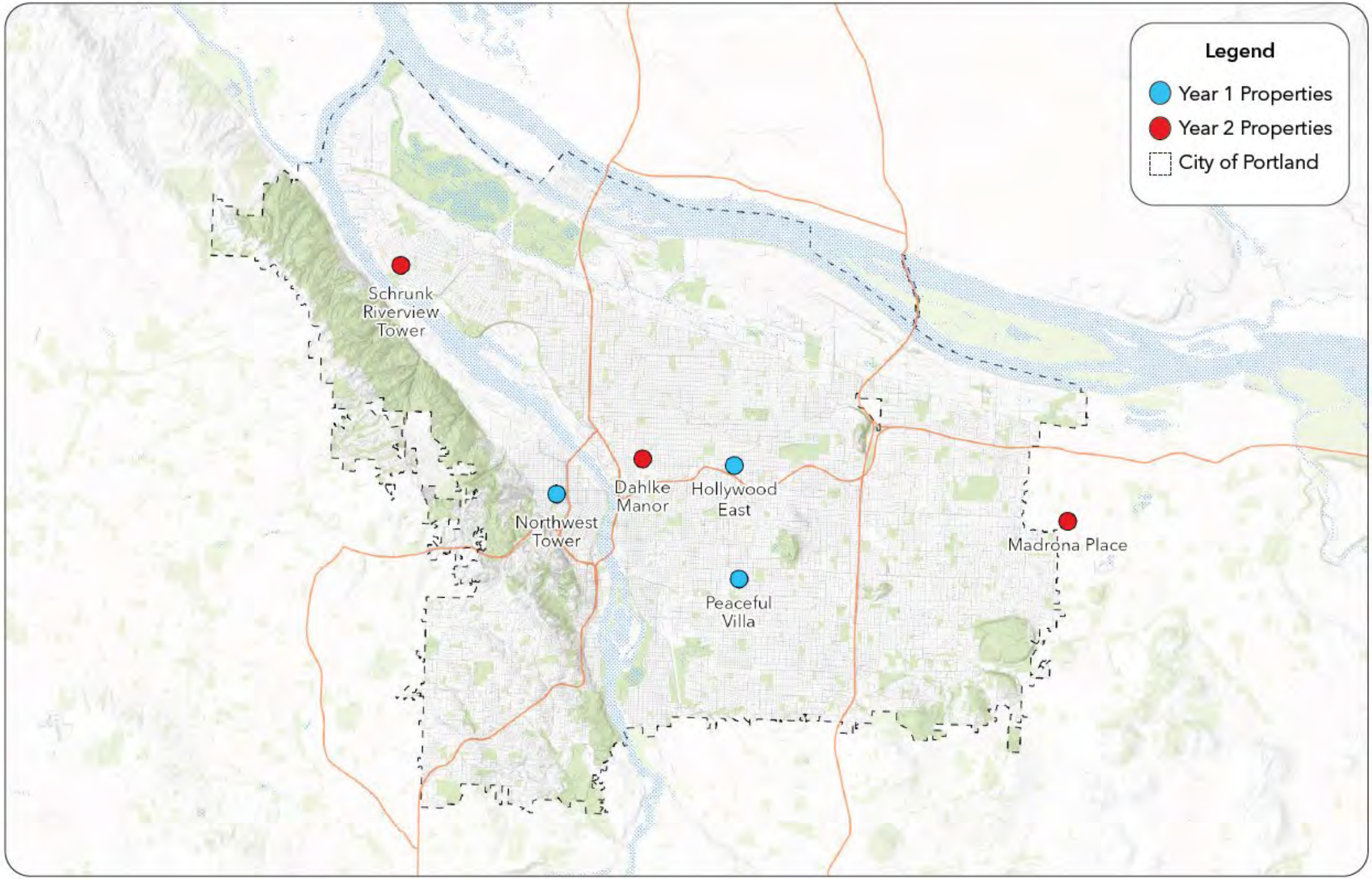
Schrunk Riverview Tower (Y2)

Madrona Place (Y2)

Hollywood East (Y1)

Northwest Tower (Y1)

Peaceful Villa (Y1)


Legend
Year 1 Properties
Year 2 Properties
City of Portland
Schrunk Riverview Tower
Northwest Tower
Dahlke Manor
Hollywood East
Peaceful Villa
Madrona Place

Summary of Building Characteristics							
Property Name	Location in Portland	Building Type	Primary Building Material	Number of Units	Type of Units	Number of Stories	Heat-Related Death in 2021
Hollywood East	Northeast	High-rise	Concrete	286	Studio, 1-Bed, 2-Bed	14	No
Northwest Tower	Northwest	High-rise plus annex	Concrete	150	Studio, 1-Bed	13 main, 3 annex	Yes
Peaceful Villa	Southeast	Freestanding multi-unit structures (16)	Wood	69	Studio, 1-Bed, 2-Bed	1 - 2	Yes

Hollywood East

Northwest Tower

Peaceful Villa

Barriers

Barriers to...			
Opening windows	**Seeking a cool space outside the home**	**Having or using cooling amenities outside**	**AC working effectively**
Air pollution	Unwillingness to leave home	Concerns about vandalism and theft	Drafty inside units at doors and windows
Dirt and dust coming in	Unwillingness to leave behind pets or assistant animals	Concerns about attracting unwanted non-residents to the property	Heat coming from the hallway / Hallway windows left open
Cigarette and other smoke	Discomfort mingling with others in the cooling center	Feeling unsafe outside at night with limited security *(from the survey)*	AC not started early enough in the day (to get ahead of heat)
Smells and sounds from trash storage and pickup	Preference to stay home and "sweat it out" even when very hot		AC old or insufficient for the space
Noise			
Crime			
Bugs and other critters getting in (NWT, no screens)			

Recommendations from study

Building Improvements:

1. **Install Central or Expanded Air Conditioning:** Residents requested central or enhanced air conditioning in units, as existing portable units were often insufficient.
2. **Window Screens Installation:** Many residents expressed the need for window screens to keep windows open at night without letting in bugs, allowing for better ventilation and cooling.
3. **Blackout Curtains or Shades:** Providing blackout curtains can help reduce heat gain during the day, especially for units with direct sun exposure.
4. **Enhanced Insulation:** Improvements such as weather stripping around doors and windows could help reduce heat entering the building and maintain cooler indoor temperatures.
5. **Tinted Windows:** Installing tinted or reflective window films can reduce the heat load in units by blocking some of the sun’s rays.

Resources needed:

1. **Extended Hours for On-Site Cooling Centers:** Current cooling center hours do not align with the peak indoor heat times, which are often in the late afternoon and evening. Extending hours could better support residents during the hottest parts of the day.
2. **Access to Cooling Resources and Information:** Providing residents with information on heat safety, heat-sensitive conditions, and ways to keep their homes cool could help them feel more prepared.
3. **Health and Safety Support:** Residents experiencing health issues due to heat exposure could benefit from additional support, such as access to healthcare or heat-related health information.
4. **Additional Fans and Portable AC Units:** While some units already have air conditioning, increasing access to fans or supplemental portable AC units can help manage indoor temperatures more effectively.
5. **Social Activities and Support Networks:** Building community activities that include checking on vulnerable neighbors during heat events can create a supportive environment, helping to mitigate the effects of extreme heat.


homeforward
Thank you!
Date