

TEAM #4

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HYPOTHESIS

Computer rooms are thermally comfortable.

Qualifiers: Using ASHRAE comfort zone (68°F - 80°F) and the thermal sensation scale.

METHODOLOGY

- Select Computer Rooms (201, 202, 204, 215, 216)
- Spot measurements
- Time measurements
- Survey
- Using ASHRAE comfort zone (68°F-80°F) and the thermal sensation scale.

ROOMS SURVEYED



- Room 363 was used as a control space.

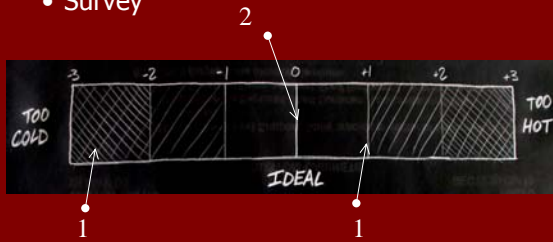
DATA

- Room Temperatures & RH

Room #	Temperature (°F)		
	Thermostat	Relative Humidity (%)	Average
201	72	40	73.5
202	73	39	72.3
204	73	39	72
215	71	45	71.8
216	73	40	71.4
363	71	44	71.9

DATA

- Survey



ANALYSIS

- Thermostat and ambient temperatures are fairly well aligned
- Temperatures across rooms are consistent
- Perceived comfort from survey results is inconclusive

SUMMARY

HYPOTHESIS: Computer Rooms Are Thermally Comfortable.

Assumptions were correct for the physical findings, but the qualitative survey needs further study with a larger sample size.

Further survey results may help to clarify whether physical findings are well matched to the assumed comfort criteria.