

Sawyer-Koch Exhibit Cases

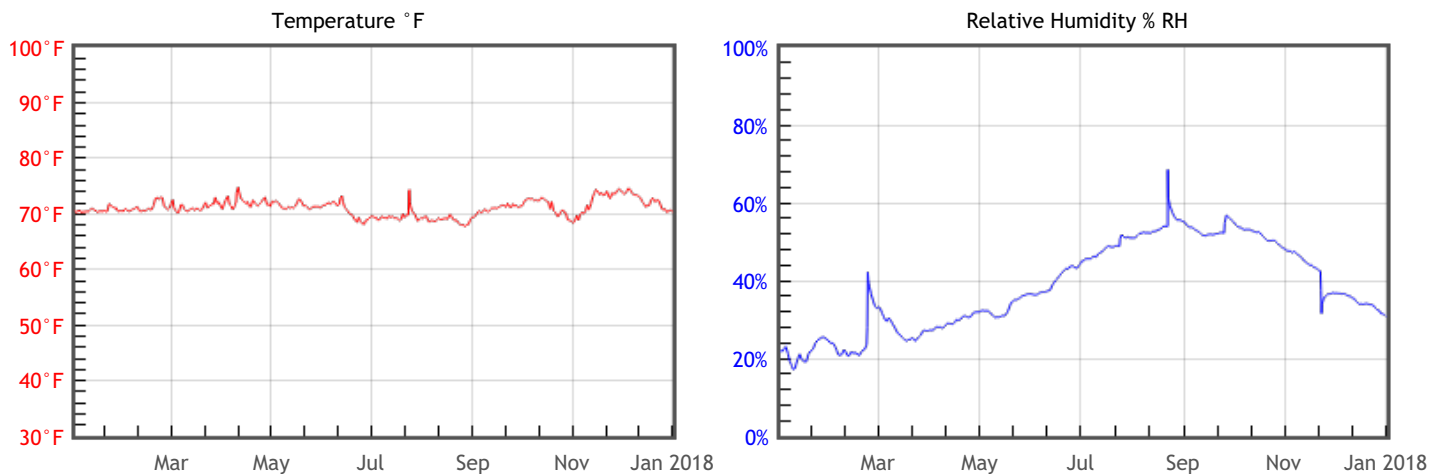
MSU Libraries • Main • Special Collections • Exhibit Area
Michigan State University Libraries

2017-01-01 to 2017-12-30
11 months, 30 days

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	<div style="background-color: #cccccc; padding: 2px; text-align: center;">OK</div> TWPI = 47	Generally OK, but fast decaying organic materials such as acidic paper, color photographs and cellulosic plastics will be at elevated risk due to the cumulative effects of temperature and humidity
Mechanical Damage Physical damage to hygroscopic materials	<div style="background-color: #800000; color: white; padding: 2px; text-align: center;">RISK</div> % DC = 1.47 % EMC min = 4.8 % EMC max = 10.1	Heightened risk of physical damage to any hygroscopic material, such as paintings, rare books, furniture, paper, leather, film, or color photos, due to extremely low or high levels of humidity, and / or excessive humidity fluctuation.
Mold Risk Mold growth in area or on collection objects	<div style="background-color: #4CAF50; color: white; padding: 2px; text-align: center;">GOOD</div> MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	<div style="background-color: #cccccc; padding: 2px; text-align: center;">OK</div> % EMC max = 10.1	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



Statistics

Temperature		Relative Humidity		Dew Point	
T °F Mean	71	%RH Mean	39	DP °F Mean	43.4
T °F Median	71	%RH Median	37	DP °F Median	44.5
T °F Stdev	1.5	%RH Stdev	11	DP °F Stdev	8
T °F Min	67.7	%RH Min	16	DP °F Min	21.6
T °F Max	77.6	%RH Max	69	DP °F Max	58.9