4 East (LC PA-PZ)

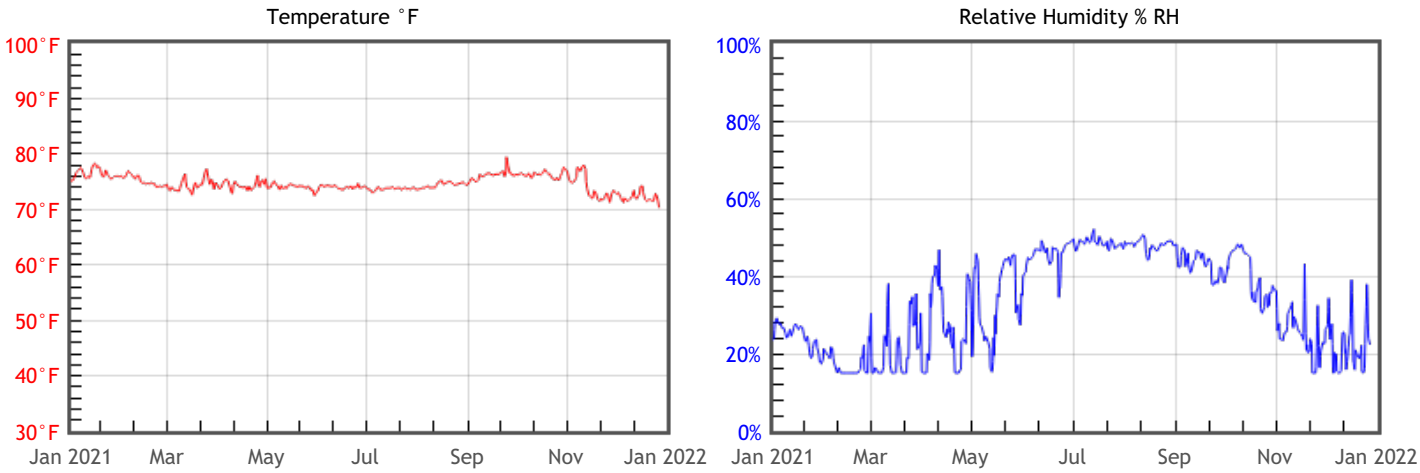
MSU Libraries • Main • General Collections • East Wing
Michigan State University Libraries

2021-01-01 to 2021-12-27
11 months, 27 days

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	RISK TWPI = 41	Accelerated rate of chemical decay in all organic materials due to the cumulative effects of temperature and humidity, with especially high risk for fast decaying organic materials such as acidic paper, color photographs and cellulosic plastics.
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.44 % EMC min = 3.9 % EMC max = 9	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	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	OK % EMC max = 9	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	74.7	**%RH Mean**	33	**DP°F Mean**	42
T°F Median	74.4	**%RH Median**	34	**DP°F Median**	45.1
T°F Stdev	1.5	**%RH Stdev**	12	**DP°F Stdev**	11.1
T°F Min	70.2	**%RH Min**	15	**DP°F Min**	21.1
T°F Max	79.4	**%RH Max**	61	**DP°F Max**	60.6

EG1 (LC RC-Z)

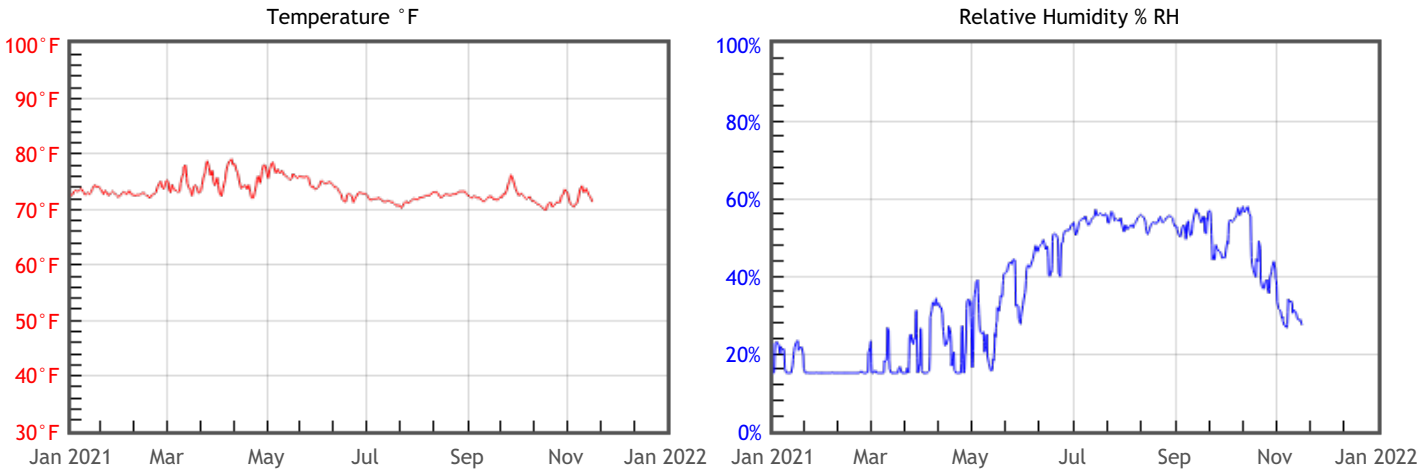
MSU Libraries • Main • General Collections • Ground Level
Michigan State University Libraries

2021-01-01 to 2021-11-16
10 months, 16 days

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	RISK TWPI = 42	Accelerated rate of chemical decay in all organic materials due to the cumulative effects of temperature and humidity, with especially high risk for fast decaying organic materials such as acidic paper, color photographs and cellulosic plastics.
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 1.83 % EMC min = 3.5 % EMC max = 10	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	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	OK % EMC max = 10	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	73.4	**%RH Mean**	36	**DP°F Mean**	41.9
T°F Median	72.9	**%RH Median**	37	**DP°F Median**	46
T°F Stdev	1.9	**%RH Stdev**	16	**DP°F Stdev**	12.8
T°F Min	69.7	**%RH Min**	15	**DP°F Min**	21.6
T°F Max	79.2	**%RH Max**	63	**DP°F Max**	58.7

WG1 (LC BS-HB)

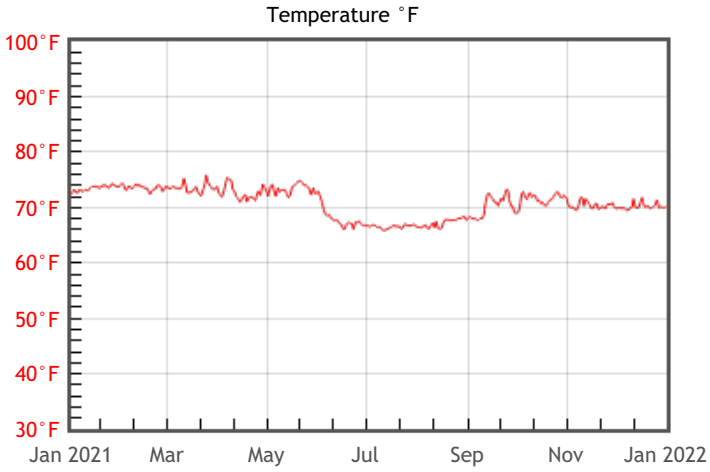
MSU Libraries • Main • General Collections • Ground Level
Michigan State University Libraries

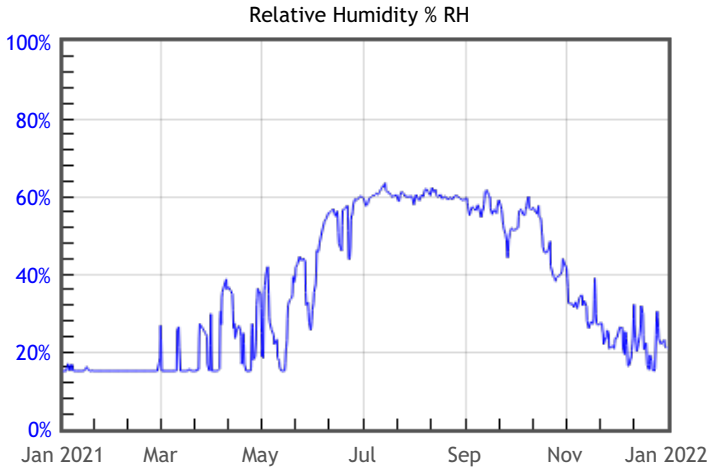
2021-01-01 to 2021-12-31
1 year

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 50	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	RISK % DC = 2.15 % EMC min = 3.5 % EMC max = 11.2	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	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	RISK % EMC max = 11.2	Heightened risk of metal corrosion due to extended periods of high levels of humidity.

Graphs





Statistics

Temperature		Relative Humidity		Dew Point	
T°F Mean	70.8	**%RH Mean**	36	**DP°F Mean**	39.4
T°F Median	71.4	**%RH Median**	33	**DP°F Median**	41.8
T°F Stdev	2.7	**%RH Stdev**	18	**DP°F Stdev**	12.7
T°F Min	65.7	**%RH Min**	15	**DP°F Min**	19.7
T°F Max	76	**%RH Max**	70	**DP°F Max**	59.5

WG16 (LC HC-LT; Q-RB)

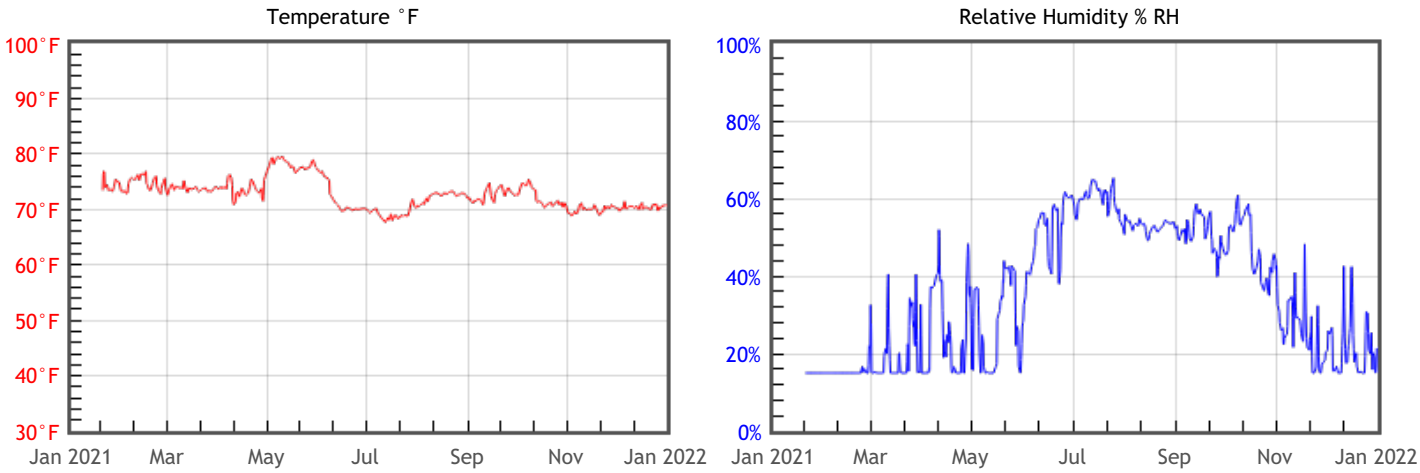
MSU Libraries • Main • General Collections • Ground Level
Michigan State University Libraries

2021-01-20 to 2021-12-31
11 months, 12 days

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	RISK TWPI = 44	Accelerated rate of chemical decay in all organic materials due to the cumulative effects of temperature and humidity, with especially high risk for fast decaying organic materials such as acidic paper, color photographs and cellulosic plastics.
Mechanical Damage Physical damage to hygroscopic materials	RISK % DC = 2.15 % EMC min = 3.5 % EMC max = 11.2	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	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	RISK % EMC max = 11.2	Heightened risk of metal corrosion due to extended periods of high levels of humidity.

Graphs



Statistics

Temperature		Relative Humidity		Dew Point	
T°F Mean	72.7	**%RH Mean**	36	**DP°F Mean**	40.8
T°F Median	72.6	**%RH Median**	36	**DP°F Median**	44.6
T°F Stdev	2.7	**%RH Stdev**	17	**DP°F Stdev**	13.3
T°F Min	67.4	**%RH Min**	15	**DP°F Min**	19.6
T°F Max	79.6	**%RH Max**	75	**DP°F Max**	62.4

WG7 (LC AC-BR)

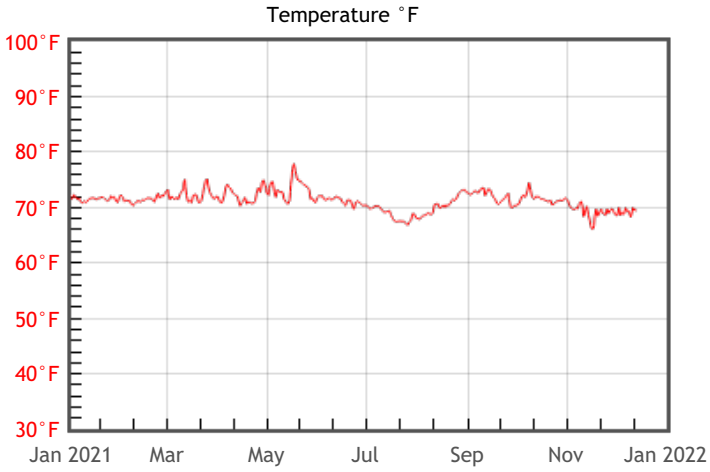
MSU Libraries • Main • General Collections • Ground Level
Michigan State University Libraries

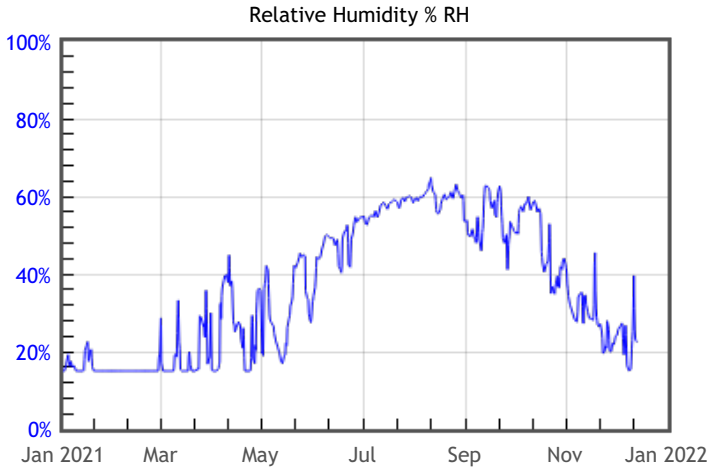
2021-01-01 to 2021-12-13
11 months, 13 days

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK 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	RISK % DC = 2.08 % EMC min = 3.5 % EMC max = 11	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	GOOD MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	RISK % EMC max = 11	Heightened risk of metal corrosion due to extended periods of high levels of humidity.

Graphs





Statistics

Temperature		Relative Humidity		Dew Point	
T°F Mean	71.2	**%RH Mean**	36	**DP°F Mean**	40.1
T°F Median	71.3	**%RH Median**	35	**DP°F Median**	43.3
T°F Stdev	1.7	**%RH Stdev**	17	**DP°F Stdev**	13.5
T°F Min	65.8	**%RH Min**	15	**DP°F Min**	18.3
T°F Max	78	**%RH Max**	67	**DP°F Max**	60.7