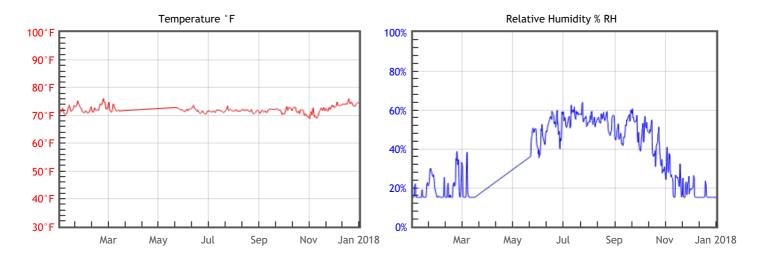
Ground East (EG1)

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

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 45	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 = 1.87 % EMC min = 3.7 % EMC max = 10.4	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 = 10.4	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



Temperature		Relative Humidity		Dew Point	
T°F Mean	72.1	%RH Mean	34	DP°F Mean	39
T°F Median	72	%RH Median	30	DP°F Median	38
T°F Stdev	1.3	%RH Stdev	17	DP°F Stdev	13.4
T°F Min	68.6	%RH Min	15	DP°F Min	19.3
T°F Max	76.1	%RH Max	70	DP°F Max	62.9

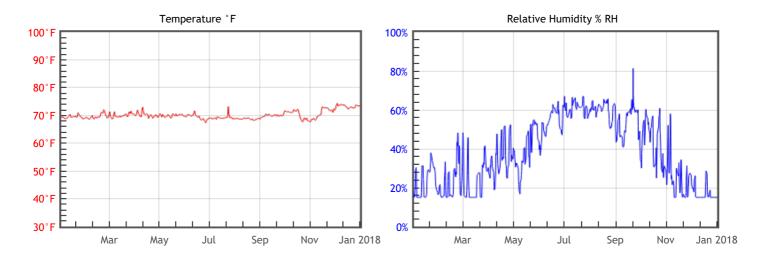
Ground West - East (WG16)

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

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 = 2.03 % EMC min = 3.9 % 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 = 0.03	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



Temperature		Relative Humidity		Dew Point	
T°F Mean	70.3	%RH Mean	36	DP°F Mean	39.1
T°F Median	69.8	%RH Median	32	DP°F Median	38.9
T°F Stdev	1.6	%RH Stdev	17	DP°F Stdev	12.7
T°F Min	67.3	%RH Min	15	DP°F Min	19.1
T°F Max	74.4	%RH Max	81	DP°F Max	65

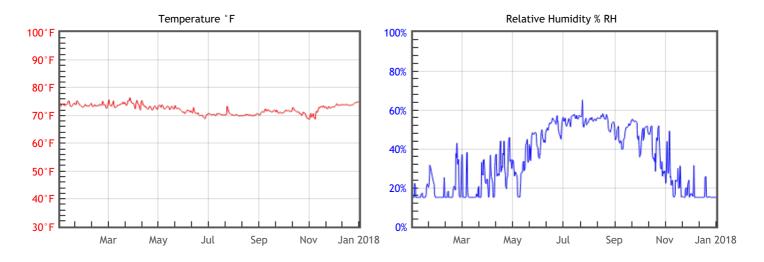
Ground West - North (WG1)

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

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 49	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 = 1.83 % EMC min = 3.7 % EMC max = 10.2	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	OK % EMC max = 10.2	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



Temperature		Relative Humidity		Dew Point	
T°F Mean	72.3	%RH Mean	32	DP°F Mean	38.1
T°F Median	72.6	%RH Median	28	DP°F Median	37.7
T°F Stdev	1.7	%RH Stdev	16	DP°F Stdev	12.2
T°F Min	68.5	%RH Min	15	DP°F Min	21
T°F Max	76.5	%RH Max	69	DP°F Max	61.9

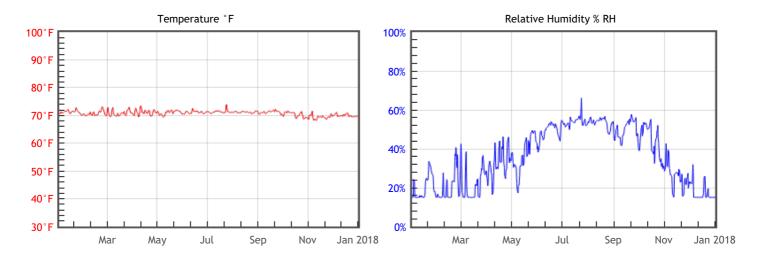
Ground West - West (WG7)

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

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 51	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 = 1.71 % EMC min = 3.9 % 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



Temperature		Relative Humidity		Dew Point	
T°F Mean	70.6	%RH Mean	34	DP°F Mean	38.3
T°F Median	70.7	%RH Median	31	DP°F Median	38.5
T°F Stdev	1	%RH Stdev	15	DP°F Stdev	12.7
T°F Min	68.1	%RH Min	15	DP°F Min	18.7
T°F Max	75.2	%RH Max	71	DP°F Max	62.9