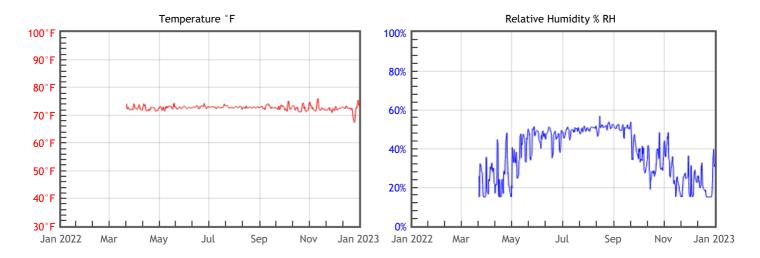
# 4 East (LC PA-PZ)

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### **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 = 1.33 % EMC min = 4.6 % EMC max = 9.4	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 = 9.4	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

### **Graphs**



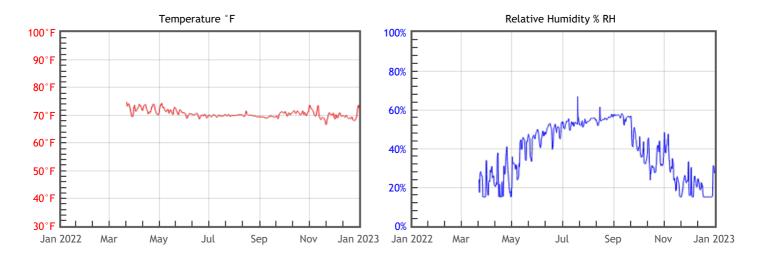
Temperature		Relative H	Relative Humidity		oint
T°F Mean	72.7	%RH Mean	37	DP°F Mean	43.6
T°F Median	72.7	%RH Median	40	DP°F Median	47.2
T°F Stdev	0.9	%RH Stdev	13	DP°F Stdev	10.6
T°F Min	66.9	%RH Min	15	DP°F Min	17.8
T°F Max	76.6	%RH Max	64	DP°F Max	61.3

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#### **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 = 1.68 % EMC min = 4.3 % EMC max = 10.3	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 = 10.3	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

## Graphs

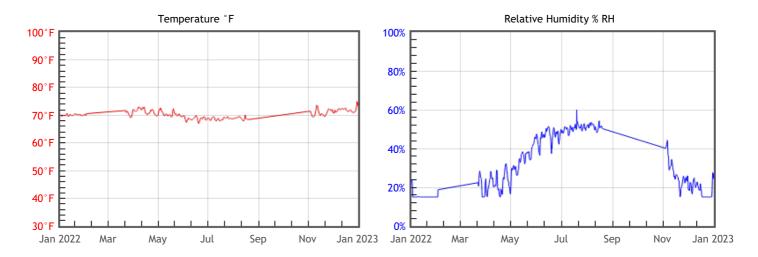


Temperature		Relative Humidity		Dew P	Dew Point	
T°F Mean	70.5	%RH Mean	39	DP°F Mean	42.2	
T°F Median	70.2	%RH Median	41	DP°F Median	46.1	
T°F Stdev	1.4	%RH Stdev	14	DP°F Stdev	11.1	
T°F Min	66.4	%RH Min	15	DP°F Min	17.3	
T°F Max	74.8	%RH Max	67	DP°F Max	58.6	

#### **Preservation Environment Evaluation**

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 60	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 = 1.65 % EMC min = 3.5 % EMC max = 9.4	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 = 9.4	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

## Graphs



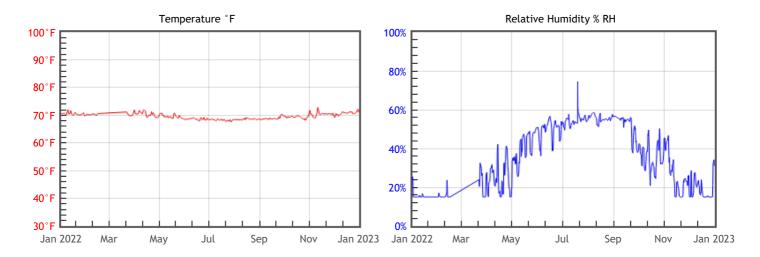
Temperature		Relative Humidity		Dew P	Dew Point	
T°F Mean	70.2	%RH Mean	32	DP°F Mean	36.5	
T°F Median	70	%RH Median	29	DP°F Median	37.3	
T°F Stdev	1.4	%RH Stdev	14	DP°F Stdev	11.2	
T°F Min	67	%RH Min	15	DP°F Min	19.5	
T°F Max	75	%RH Max	60	DP°F Max	55.1	

#### **Preservation Environment Evaluation**

WG16 (LC HC-LT; Q-RB)

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 54	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 = 1.88  % EMC min = 3.5  % EMC max = 10.3	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 = 10.3	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

## Graphs



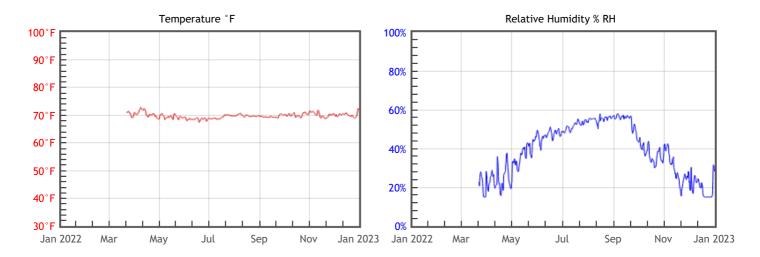
Temperature		Relative H	Relative Humidity		Dew Point	
T°F Mean	69.6	%RH Mean	36	DP°F Mean	38.7	
T°F Median	69.5	%RH Median	36	DP°F Median	41.8	
T°F Stdev	1	%RH Stdev	16	DP°F Stdev	12.4	
T°F Min	67.5	%RH Min	15	DP°F Min	19.5	
T°F Max	73	%RH Max	74	DP°F Max	60.7	

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#### **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 = 1.61 % EMC min = 4.5 % 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 H	Relative Humidity		Dew Point	
T°F Mean	69.8	%RH Mean	39	DP°F Mean	42.1	
T°F Median	69.7	%RH Median	41	DP°F Median	45	
T°F Stdev	0.9	%RH Stdev	13	DP°F Stdev	10	
T°F Min	67.4	%RH Min	15	DP°F Min	19.1	
T°F Max	72.8	%RH Max	60	DP°F Max	55.7	