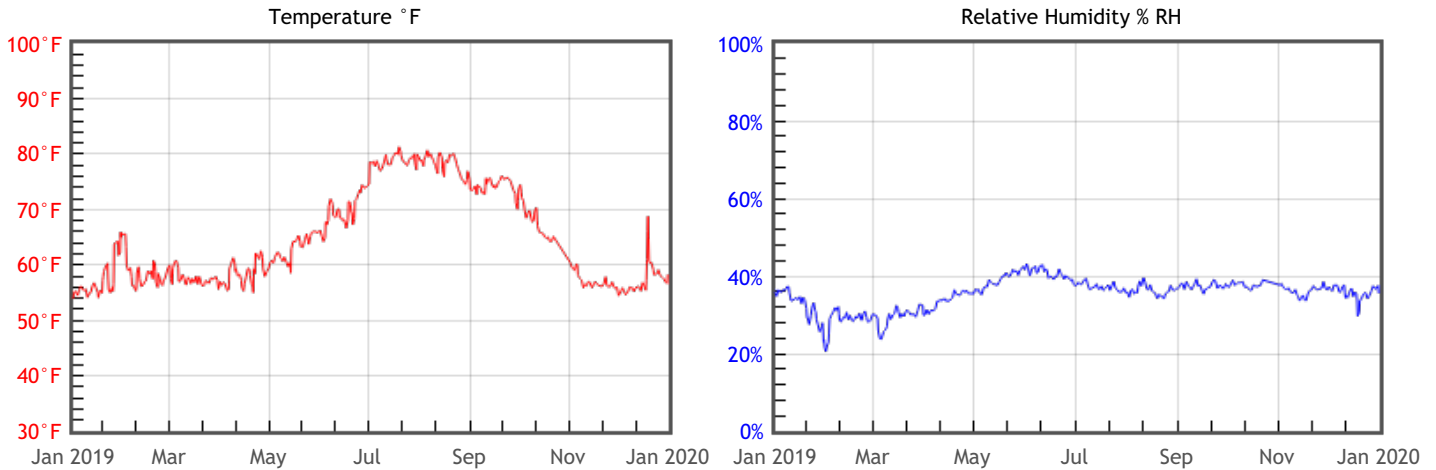


Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 67	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	OK % DC = 0.55 % EMC min = 5.9 % EMC max = 7.9	Generally OK, but sensitive or fast responding hygroscopic materials such as paintings, rare books, vellum manuscripts or musical instruments will be at elevated risk of physical damage due to fluctuations of humidity.
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 = 7.9	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



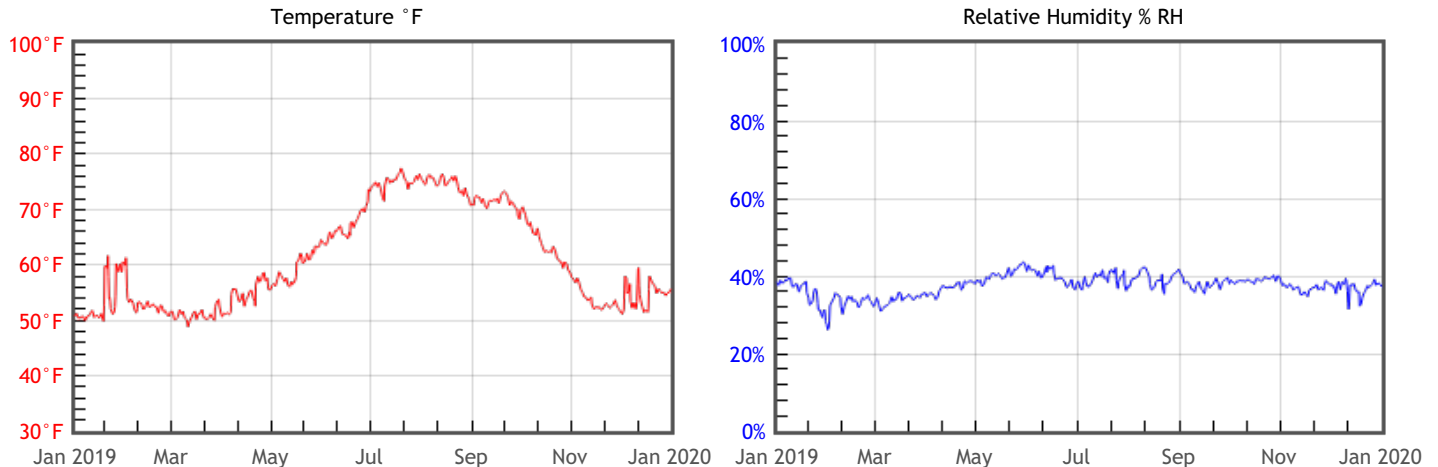
Statistics

Temperature		Relative Humidity		Dew Point	
T °F Mean	64.8	%RH Mean	35	DP °F Mean	36.6
T °F Median	61.7	%RH Median	36	DP °F Median	33.4
T °F Stdev	8.5	%RH Stdev	4	DP °F Stdev	9.1
T °F Min	52.8	%RH Min	17	DP °F Min	21.8
T °F Max	82.8	%RH Max	44	DP °F Max	53.3

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	<div style="background-color: #4CAF50; color: white; padding: 2px; text-align: center;">GOOD</div> TWPI = 81	Slow rate of chemical decay in organic materials such as paper, leather, textiles, plastics and dyes
Mechanical Damage Physical damage to hygroscopic materials	<div style="background-color: #4CAF50; color: white; padding: 2px; text-align: center;">GOOD</div> % DC = 0.37 % EMC min = 6.8 % EMC max = 8.1	Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.
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: #808080; color: white; padding: 2px; text-align: center;">OK</div> % EMC max = 8.1	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



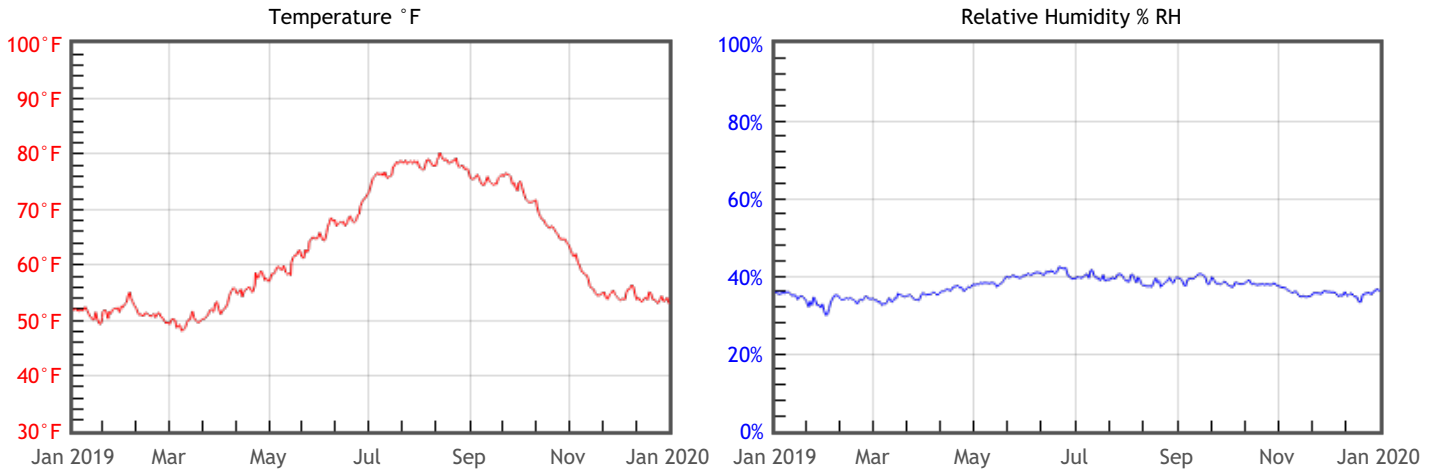
Statistics

Temperature		Relative Humidity		Dew Point	
T °F Mean	61	%RH Mean	37	DP °F Mean	34.8
T °F Median	58.3	%RH Median	38	DP °F Median	32.2
T °F Stdev	8.9	%RH Stdev	3	DP °F Stdev	8.9
T °F Min	48.8	%RH Min	24	DP °F Min	20.9
T °F Max	78.2	%RH Max	46	DP °F Max	52

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 68	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	GOOD % DC = 0.31 % EMC min = 6.8 % EMC max = 7.9	Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.
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 = 7.9	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



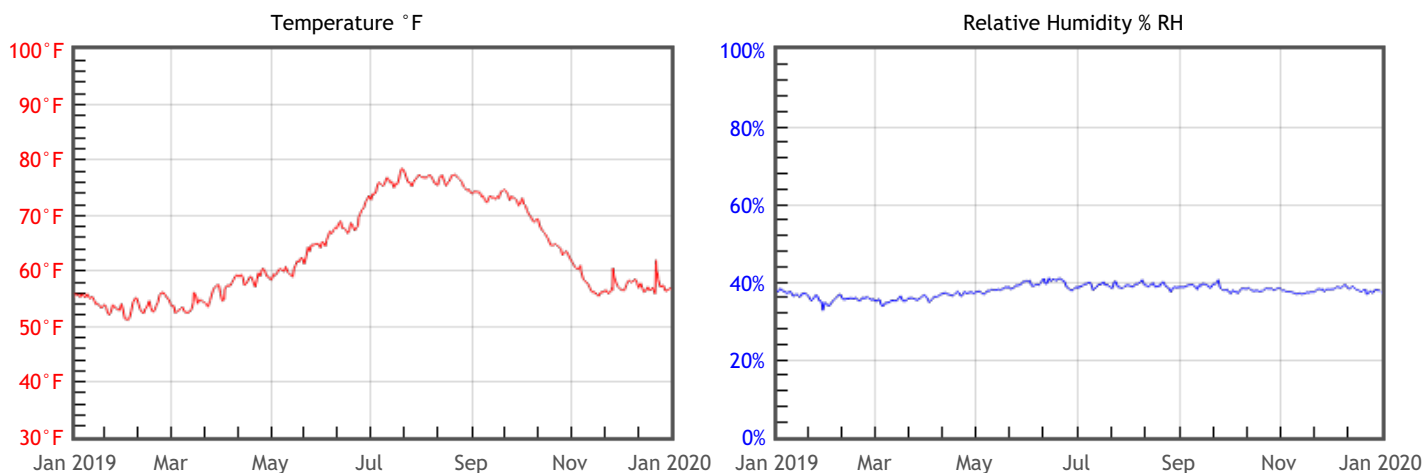
Statistics

Temperature		Relative Humidity		Dew Point	
T °F Mean	62.5	%RH Mean	37	DP °F Mean	35.9
T °F Median	59.2	%RH Median	37	DP °F Median	33.4
T °F Stdev	10.4	%RH Stdev	2	DP °F Stdev	10.6
T °F Min	47.8	%RH Min	30	DP °F Min	20.2
T °F Max	81.3	%RH Max	43	DP °F Max	53.9

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 70	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	GOOD % DC = 0.19 % EMC min = 7.1 % EMC max = 7.7	Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.
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 = 7.7	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



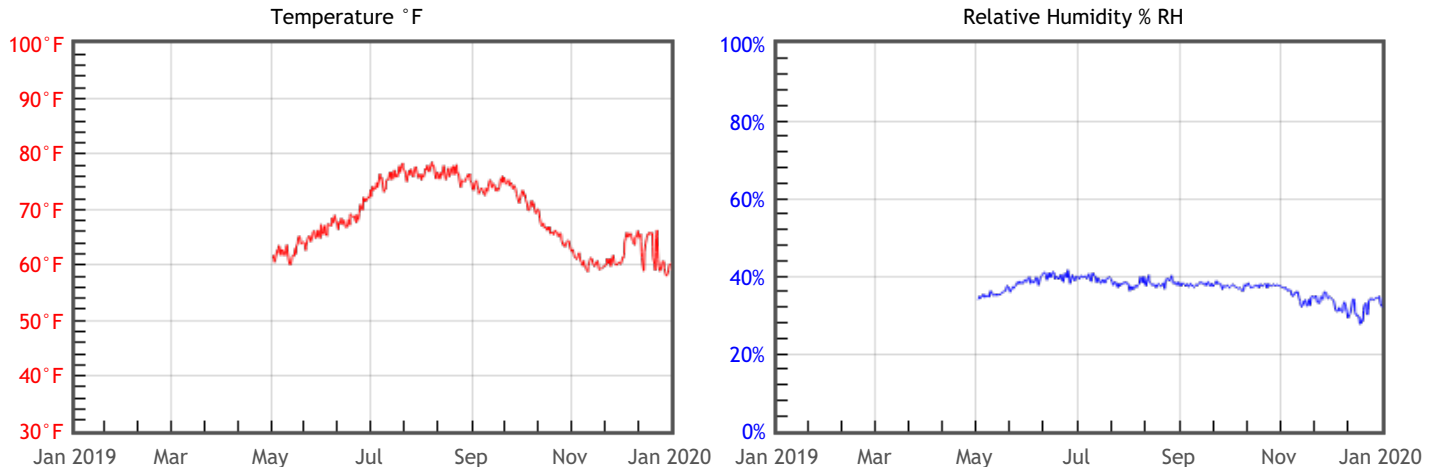
Statistics

Temperature		Relative Humidity		Dew Point	
T °F Mean	63.3	%RH Mean	38	DP °F Mean	37
T °F Median	60	%RH Median	38	DP °F Median	34
T °F Stdev	8.5	%RH Stdev	2	DP °F Stdev	8.3
T °F Min	51.1	%RH Min	31	DP °F Min	23
T °F Max	79.1	%RH Max	42	DP °F Max	51.5

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	OK TWPI = 53	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	GOOD % DC = 0.32 % EMC min = 6.5 % EMC max = 7.7	Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.
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 = 7.7	Generally OK, but archeological or salt-encrusted metals may corrode due to extended periods of moderately high levels of humidity.

Graphs



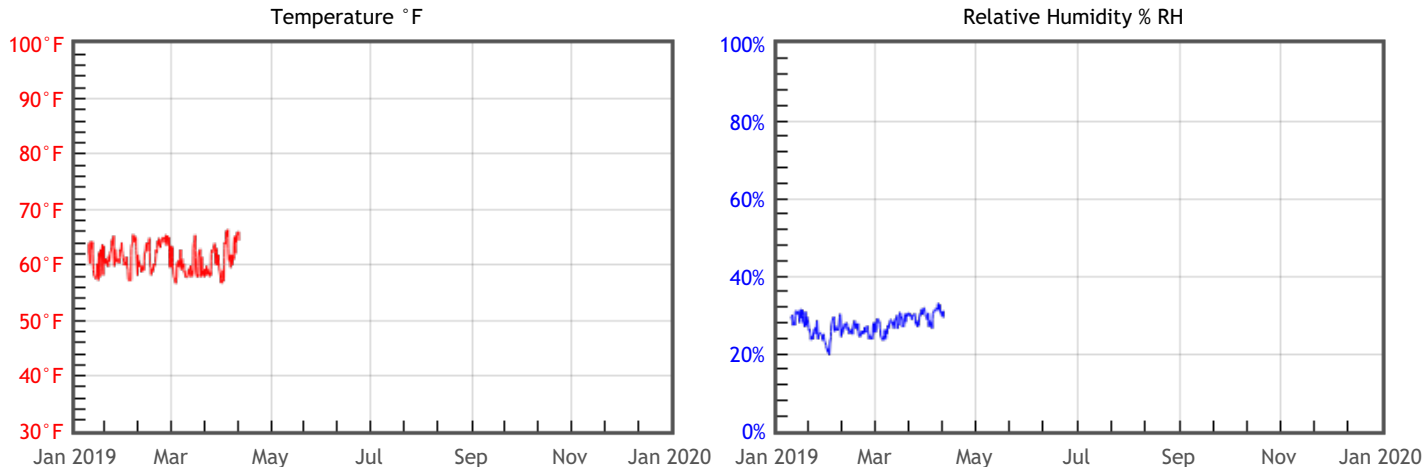
Statistics

Temperature		Relative Humidity		Dew Point	
T °F Mean	68.7	%RH Mean	37	DP °F Mean	41.2
T °F Median	67.9	%RH Median	38	DP °F Median	42.3
T °F Stdev	6.1	%RH Stdev	3	DP °F Stdev	6.7
T °F Min	58	%RH Min	27	DP °F Min	29.8
T °F Max	79.4	%RH Max	42	DP °F Max	52.4

Preservation Environment Evaluation

Type of Decay	Risks & Metrics	Evaluation & General Comments
Natural Aging Chemical decay of organic materials	<div style="background-color: #4CAF50; color: white; text-align: center; padding: 2px;">GOOD</div> TWPI = 132	Slow rate of chemical decay in organic materials such as paper, leather, textiles, plastics and dyes
Mechanical Damage Physical damage to hygroscopic materials	<div style="background-color: #4CAF50; color: white; text-align: center; padding: 2px;">GOOD</div> % DC = 0.18 % EMC min = 5.6 % EMC max = 6.2	Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.
Mold Risk Mold growth in area or on collection objects	<div style="background-color: #4CAF50; color: white; text-align: center; padding: 2px;">GOOD</div> MRF = 0	Minimal risk of mold growth.
Metal Corrosion Corrosion of metal components or objects	<div style="background-color: #4CAF50; color: white; text-align: center; padding: 2px;">GOOD</div> % EMC max = 6.2	Minimal risk of metal corrosion.

Graphs



Statistics

Temperature		Relative Humidity		Dew Point	
T °F Mean	61.1	%RH Mean	27	DP °F Mean	27.2
T °F Median	60.8	%RH Median	28	DP °F Median	27.1
T °F Stdev	2.5	%RH Stdev	2	DP °F Stdev	2.5
T °F Min	56.5	%RH Min	19	DP °F Min	18.2
T °F Max	67.6	%RH Max	33	DP °F Max	34

Remote 6

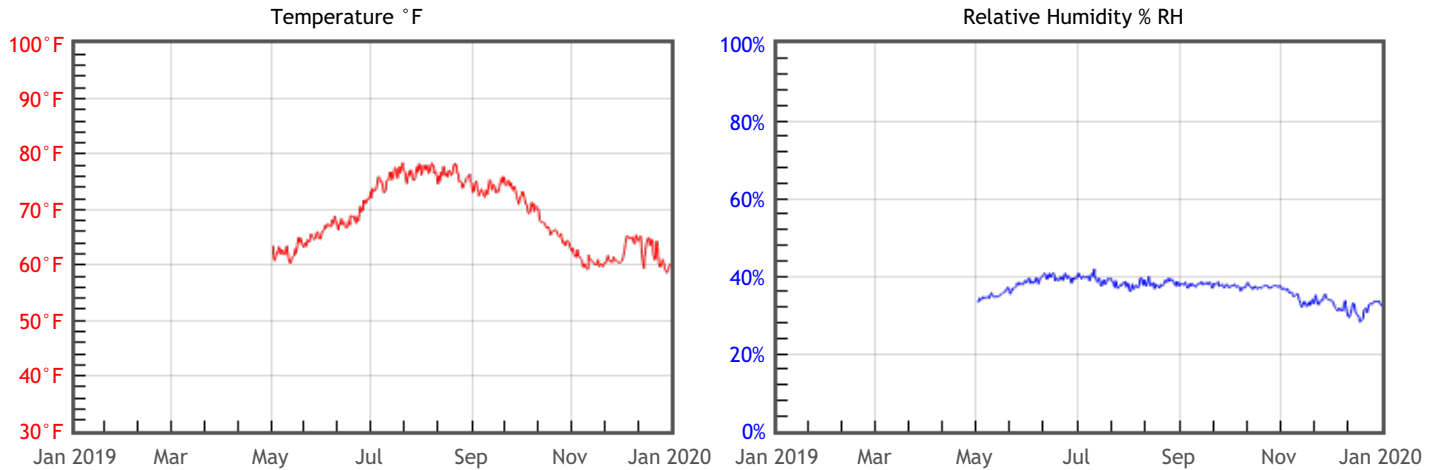
MSU Libraries • Remote Storage • Remote Storage • Remote Storage
Michigan State University Libraries

2019-05-02 to 2019-12-31
7 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 = 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	<div style="background-color: #4CAF50; color: white; padding: 2px; text-align: center;">GOOD</div> % DC = 0.31 % EMC min = 6.5 % EMC max = 7.7	Minimal risk of physical damage to most hygroscopic materials such as paintings, rare books and furniture.
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 = 7.7	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	68.6	%RH Mean	37	DP °F Mean	40.9
T °F Median	67.7	%RH Median	37	DP °F Median	42.1
T °F Stdev	6	%RH Stdev	3	DP °F Stdev	6.7
T °F Min	58.5	%RH Min	27	DP °F Min	29.5
T °F Max	79.6	%RH Max	42	DP °F Max	52.1