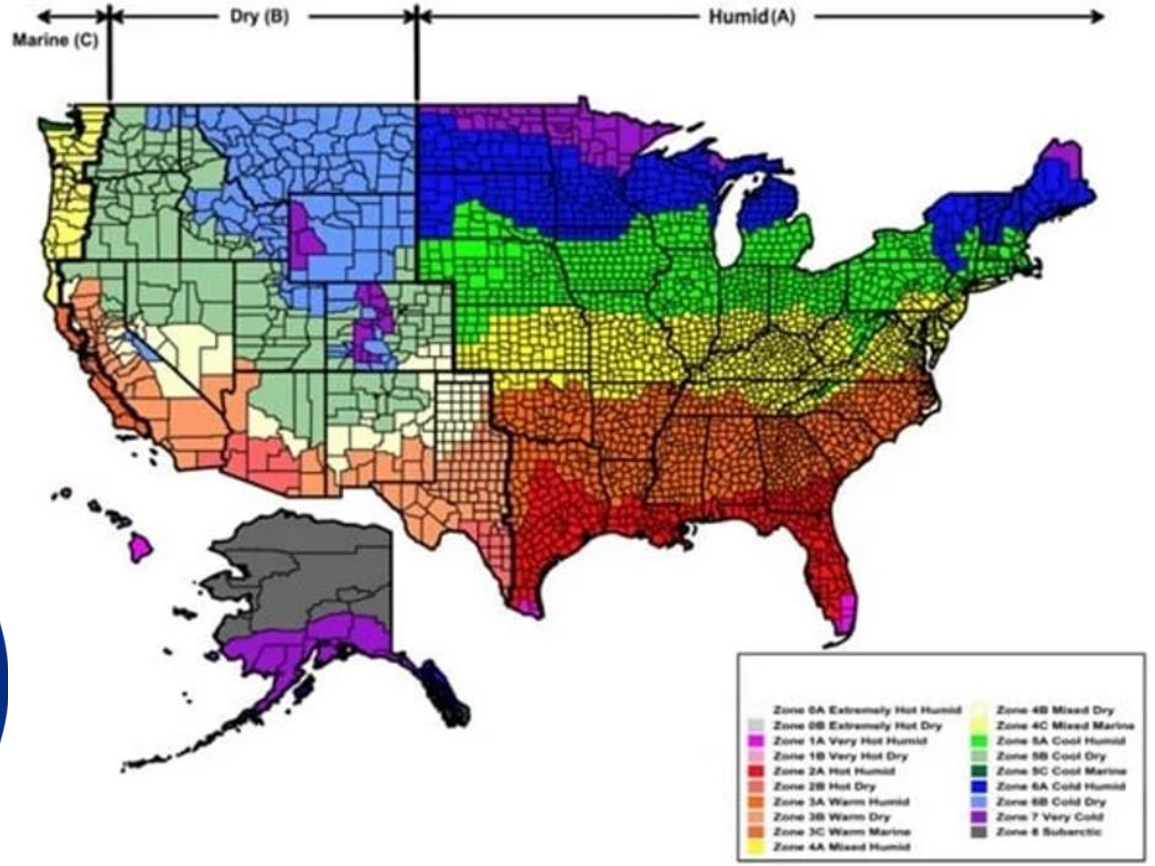
How to Address Weather/ Building Conditions During Radon Measurement

Presented by: Myca Bruno





Closed Building Conditions

Table 4-A ESSENTIAL CLOSED-BUILDING PROTOCOL REQUIREMENTS	
Windows	Keep closed on all levels of the building including areas not being tested
Exterior doors (except for momentary entry and exit)	
Heating and cooling systems	Set to normal occupied operating conditions with normal temperatures between 65˚and 80˚ F (18˚ - 27˚ C)
Systems that temporarily ventilate with outdoor air for seasonal comfort or energy savings	Set to the lowest seasonal ventilation
Bathroom fans	Operate normally
Exhausts Systems (that temporarily draw air from the building such as from laundries, workshops, community kitchens or for local control of fumes)	Avoid excessive operation
Fireplaces (that burn solid, liquid or gas fuels unless a primary/normal source of heat for the building)	Do not operate



Table 4-B ADDITIONAL REQUIREMENTS FOR NEW CONSTRUCTION, RENOVATIONS AND REPAIRS	
All openings to the exterior (due to incomplete construction, structural defect or disrepair)	These openings to the exterior shall be closed or sealed at least 12 hours prior to initiating the test
Heating/cooling systems active and set to a normal occupiable temperature	These items shall be completed or installed at least 12 hours prior to initiating the test
All windows and exterior doors installed with hardware and seals	
All insulation and exterior siding	
All wall and ceiling coverings to be completed including interior drywall or paneling but does not include decorative finishing of walls, floors or ceilings	
All fireplaces and fireplace dampers installed	

Table 4-C ADDITIONAL CLARIFICATION ON CLOSED BUILDING PROTOCOL REQUIREMENTS FOR SPECIFIC COMPONENTS	
Windows and Doors on all levels of the building including areas not being tested	
Broken windows or doors	Seal closed
Interior partition or stairway doors	Operate normally
Exterior doors into non-residential rooms	Keep closed (except for momentary entry and exit of individuals who customarily enter the building)
Garage doors and doors leading into a garage	Keep closed (except for momentary entry and exit).
Small Appliances	
Ceiling fans and portable fans	Do not blow fans directly towards testing devices
Window fans	Remove or seal shut and do not operate
Humidifiers and dehumidifiers	Operate normally
Crawl Spaces	
Passive crawl space vents	Set vents to the condition that prevails during the greatest amount of time each year
Crawl space humidity control systems	Operate normally
Mechanical Systems	
Passive vents for combustion air makeup	Leave open
Combustion appliance fans	Operate normally
Fans installed in attics to ventilate only attic air	
Window air conditioners	Operate in recirculation mode only
Evaporative cooling systems	Do not operate and do not cover

Did you know?

- If closed building conditions are not maintained, the radon measurement results are invalid in the location that did not maintain closed building conditions AND any adjoining locations.

6.1.4 *Failed closed conditions*

Where compliance with closed-building conditions in Section 4 did not occur for non-residential rooms, dwellings or untested ground-contact spaces, retest procedures shall include retesting those rooms or dwellings and any tested rooms or dwellings:

a) that immediately adjoin the side, above and below such locations, and

b) that share the same heating or cooling air ducts.

Per the ANSI/AARST standard, missing results for adjoining locations is not an allowable exception.

Climate Zone/ Building Conditions Assessment

NORMATIVE APPENDIX A

REPORTING REQUIREMENTS FOR BUILDING OPERATING CONDITIONS

TEMPERATURE ZONES
as designated in ASHRAE standards 90.1 and 90.2
(The American Society of Heating, Refrigerating and Air-Conditioning Engineers) https://www.ashrae.org



Climate Zone	Example North American States or Cities	Average Annual Temperature
1 Very Hot	Southern Florida and Hawaii	Miami 76˚ F (24 C)
2 Hot	Florida, New Orleans, Houston, Mexico	New Orleans 68˚ F (20 C)
3 Warm	North Carolina to Southern California	Atlanta 61˚ F (16 C)
4 Mixed	NYC, PA, NJ, VA, KT, TN KS, MO, Seattle WA, and Portland OR.	Kansas City 54˚ F (12 C)
5 Cool	MA, NY, OH, MI, IN, IL, IA, NE, CO, UT and NV.	Chicago 49˚ F (9 C)
6 Cold	ME, NH, VT, WI, MN, ND, WY, SD and ND.	Montreal 43˚ F (6 C)
7 Very Cold	Minot, ND; Anchorage, AK; Winnipeg, Canada	Winnipeg 36˚ F (2 C)
8 Subarctic	Fairbanks Alaska; Cambridge Bay, Canada	Fairbanks 26 ˚ F (-3 C)



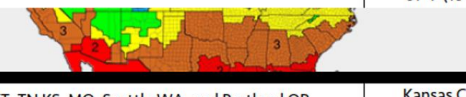






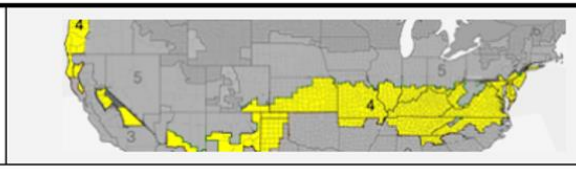
Table A-4

Mixed

Climate Zone 4

Includes portions of NY, NJ, PA, MD VA, KT, TN, KS, MO, WA and OR.

This data is based on Philadelphia, PA



24 Hour Averages

For dwellings and other 24 hour occupancies

24 Hour		Annual Avg	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
4 Mixed	Phillidelpia, PA	55	68	57	47	36	32	34	42	53	63	72	77	76

		Prevailing Annually
Operating Condition	*Heating Conditions*	*66%*
	Cooling Conditions	*16%*
	Mixed Conditions	*16%*
Normal Operating Condition		• Heating conditions • No variance in outdoor air ventilation
Condition less likely to inhibit characterization of a radon hazard		• Heating and air distribution systems active

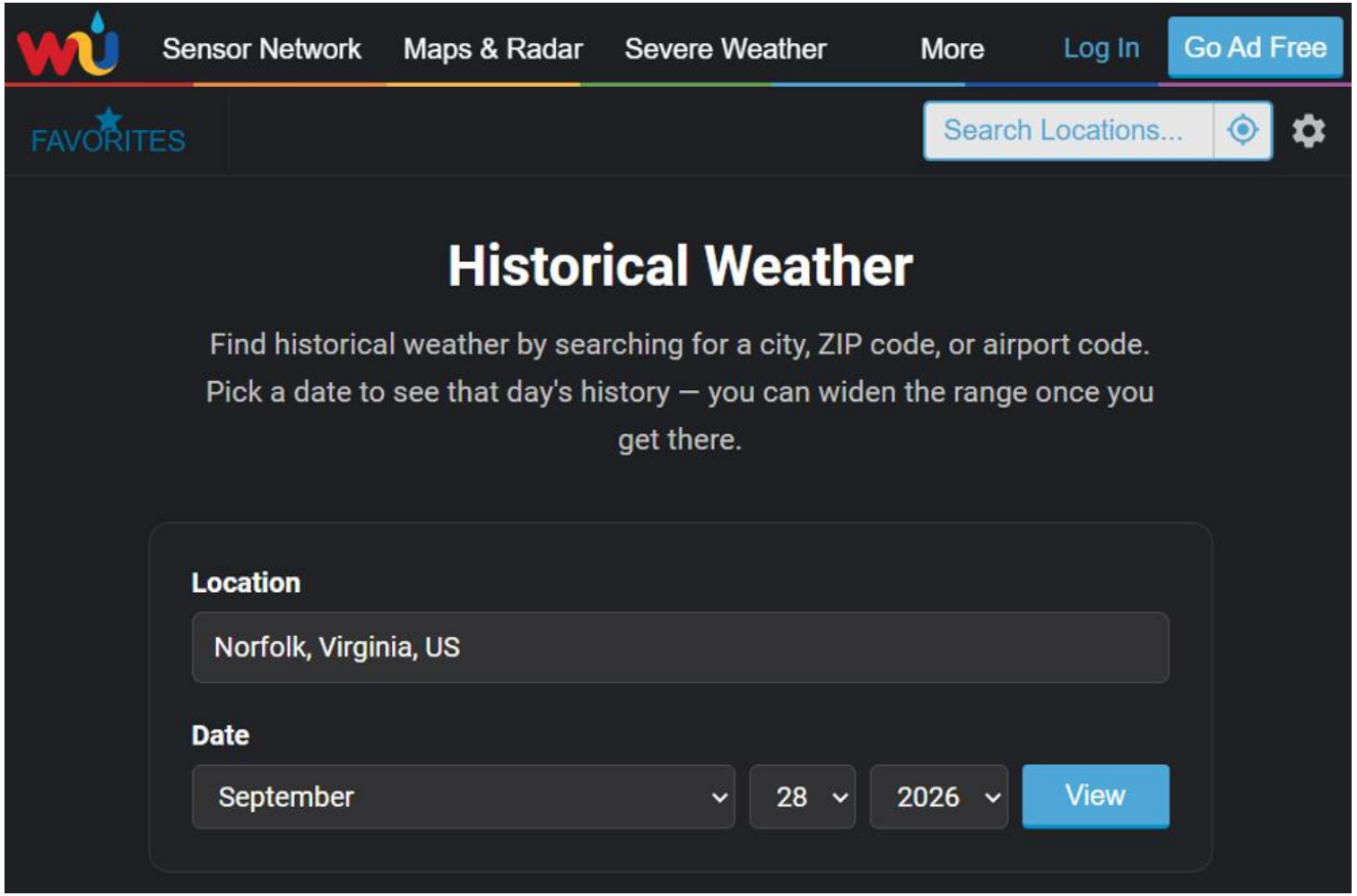
Daytime Averages

For non-residential occupancies

Daytime		Annual Avg	School Avg	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
4 Mixed	Phillidelpia, PA	59	52	73	62	51	40	36	38	47	58	68	77	82	81

		Prevailing Annually	School (prevailing across 9 months)
Operating Condition	*Heating Conditions*	*58%*	*78%*
	Cooling Conditions	*25%*	-
	Mixed Conditions	*16%*	*22%*
Normal Operating Condition		• Heating conditions • No variance in outdoor air ventilation	
Condition less likely to inhibit characterization of a radon hazard		• Heating and air distribution systems active	

https://www.wunderground.com/history



Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:59 AM	64 °F	58 °F	80 %	NW	10 mph	0 mph	29.81 in	0.0 in	Mostly Cloudy
1:59 AM	64 °F	57 °F	78 %	WNW	9 mph	0 mph	29.82 in	0.0 in	Mostly Cloudy
2:59 AM	64 °F	57 °F	78 %	WNW	10 mph	0 mph	29.82 in	0.0 in	Mostly Cloudy
3:59 AM	64 °F	58 °F	80 %	W	12 mph	0 mph	29.83 in	0.0 in	Mostly Cloudy
4:59 AM	64 °F	57 °F	78 %	WNW	12 mph	0 mph	29.83 in	0.0 in	Mostly Cloudy
5:59 AM	63 °F	57 °F	81 %	WNW	7 mph	0 mph	29.85 in	0.0 in	Mostly Cloudy
6:31 AM	63 °F	57 °F	81 %	WNW	9 mph	0 mph	29.86 in	0.0 in	Partly Cloudy
6:59 AM	63 °F	57 °F	82 %	WNW	9 mph	0 mph	29.87 in	0.0 in	Partly Cloudy
7:37 AM	64 °F	58 °F	80 %	WNW	8 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
7:59 AM	63 °F	57 °F	82 %	WSW	7 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
8:06 AM	64 °F	59 °F	84 %	W	6 mph	0 mph	29.88 in	0.0 in	Cloudy
8:20 AM	65 °F	59 °F	81 %	W	8 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
8:59 AM	66 °F	59 °F	78 %	W	10 mph	0 mph	29.90 in	0.0 in	Mostly Cloudy
9:59 AM	66 °F	57 °F	73 %	W	10 mph	0 mph	29.91 in	0.0 in	Partly Cloudy
10:59	70 °F	58 °F	65 %	W	14 mph	20 mph	29.91 in	0.0 in	Partly

Date	Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
9/28/2026	12:59 AM	64	58 °F	80 %	NW	10 mph	0 mph	29.81 in	0.0 in	Mostly Cloudy
9/28/2026	1:59 AM	64	57 °F	78 %	WNW	9 mph	0 mph	29.82 in	0.0 in	Mostly Cloudy
9/28/2026	2:59 AM	64	57 °F	78 %	WNW	10 mph	0 mph	29.82 in	0.0 in	Mostly Cloudy
9/28/2026	3:59 AM	64	58 °F	80 %	W	12 mph	0 mph	29.83 in	0.0 in	Mostly Cloudy
9/28/2026	4:59 AM	64	57 °F	78 %	WNW	12 mph	0 mph	29.83 in	0.0 in	Mostly Cloudy
9/28/2026	5:59 AM	63	57 °F	81 %	WNW	7 mph	0 mph	29.85 in	0.0 in	Mostly Cloudy
9/28/2026	6:31 AM	63	57 °F	81 %	WNW	9 mph	0 mph	29.86 in	0.0 in	Partly Cloudy
9/28/2026	6:59 AM	63	57 °F	82 %	WNW	9 mph	0 mph	29.87 in	0.0 in	Partly Cloudy
9/28/2026	7:37 AM	64	58 °F	80 %	WNW	8 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
9/28/2026	7:59 AM	63	57 °F	82 %	WSW	7 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
9/28/2026	8:06 AM	64	59 °F	84 %	W	6 mph	0 mph	29.88 in	0.0 in	Cloudy
9/28/2026	8:20 AM	65	59 °F	81 %	W	8 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
9/28/2026	8:59 AM	66	59 °F	78 %	W	10 mph	0 mph	29.90 in	0.0 in	Mostly Cloudy
9/28/2026	9:59 AM	66	57 °F	73 %	W	10 mph	0 mph	29.91 in	0.0 in	Partly Cloudy
9/28/2026	10:59 AM	70	58 °F	65 %	W	14 mph	20 mph	29.91 in	0.0 in	Partly Cloudy
9/28/2026	11:59 AM	72	59 °F	64 %	W	9 mph	0 mph	29.91 in	0.0 in	Partly Cloudy
9/28/2026	12:41 PM	72	59 °F	64 %	W	9 mph	0 mph	29.91 in	0.0 in	Mostly Cloudy
9/28/2026	12:59 PM	73	58 °F	59 %	WSW	7 mph	0 mph	29.91 in	0.0 in	Mostly Cloudy
9/28/2026	1:59 PM	73	58 °F	59 %	WSW	9 mph	0 mph	29.90 in	0.0 in	Mostly Cloudy
9/28/2026	2:59 PM	75	58 °F	55 %	W	9 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
9/28/2026	3:59 PM	72	61 °F	68 %	NE	8 mph	0 mph	29.89 in	0.0 in	Mostly Cloudy
9/28/2026	4:59 PM	71	60 °F	68 %	NE	6 mph	0 mph	29.89 in	0.0 in	Mostly Cloudy
9/28/2026	5:59 PM	70	61 °F	73 %	ENE	6 mph	0 mph	29.91 in	0.0 in	Mostly Cloudy
9/28/2026	6:59 PM	69	62 °F	78 %	E	7 mph	0 mph	29.93 in	0.0 in	Cloudy
9/28/2026	7:59 PM	69	61 °F	75 %	ESE	5 mph	0 mph	29.95 in	0.0 in	Cloudy
9/28/2026	8:59 PM	69	61 °F	75 %	E	5 mph	0 mph	29.97 in	0.0 in	Cloudy
9/28/2026	9:59 PM	68	62 °F	81 %	ESE	5 mph	0 mph	29.98 in	0.0 in	Mostly Cloudy
9/28/2026	10:59 PM	68	62 °F	81 %	SE	3 mph	0 mph	29.99 in	0.0 in	Cloudy
9/28/2026	11:59 PM	68	62 °F	81 %	CALM	0 mph	0 mph	30.00 in	0.0 in	Cloudy
9/29/2026	12:59 AM	68	62 °F	81 %	SE	3 mph	0 mph	30.00 in	0.0 in	Cloudy
9/29/2026	1:59 AM	68	62 °F	81 %	ENE	3 mph	0 mph	30.00 in	0.0 in	Cloudy
9/29/2026	2:59 AM	67	62 °F	84 %	ESE	3 mph	0 mph	29.99 in	0.0 in	Cloudy
9/29/2026	3:59 AM	66	62 °F	87 %	CALM	0 mph	0 mph	29.98 in	0.0 in	Mostly Cloudy
9/29/2026	4:59 AM	66	62 °F	87 %	SE	3 mph	0 mph	29.99 in	0.0 in	Mostly Cloudy
9/29/2026	5:59 AM	66	63 °F	90 %	CALM	0 mph	0 mph	30.00 in	0.0 in	Cloudy
9/29/2026	6:59 AM	67	63 °F	87 %	CALM	0 mph	0 mph	30.00 in	0.0 in	Cloudy
9/29/2026	7:59 AM	68	63 °F	84 %	CALM	0 mph	0 mph	30.03 in	0.0 in	Cloudy
9/29/2026	8:59 AM	69	64 °F	84 %	CALM	0 mph	0 mph	30.04 in	0.0 in	Cloudy
9/29/2026	9:59 AM	72	60 °F	66 %	ENE	3 mph	0 mph	30.05 in	0.0 in	Mostly Cloudy
9/29/2026	10:59 AM	73	58 °F	59 %	ENE	7 mph	0 mph	30.07 in	0.0 in	Cloudy
9/29/2026	11:59 AM	74	60 °F	62 %	ENE	6 mph	0 mph	30.06 in	0.0 in	Mostly Cloudy
9/29/2026	12:59 PM	74	61 °F	64 %	ENE	8 mph	0 mph	30.06 in	0.0 in	Cloudy
9/29/2026	1:59 PM	73	59 °F	61 %	ENE	8 mph	0 mph	30.04 in	0.0 in	Cloudy
9/29/2026	2:59 PM	73	60 °F	64 %	ENE	8 mph	0 mph	30.03 in	0.0 in	Cloudy
9/29/2026	3:59 PM	73	61 °F	66 %	ENE	8 mph	0 mph	30.03 in	0.0 in	Cloudy
9/29/2026	4:59 PM	73	62 °F	68 %	ENE	6 mph	0 mph	30.02 in	0.0 in	Mostly Cloudy
9/29/2026	5:59 PM	71	62 °F	73 %	E	6 mph	0 mph	30.02 in	0.0 in	Mostly Cloudy
9/29/2026	6:59 PM	71	61 °F	70 %	E	3 mph	0 mph	30.04 in	0.0 in	Cloudy
9/29/2026	7:59 PM	70	61 °F	73 %	ESE	5 mph	0 mph	30.05 in	0.0 in	Cloudy
9/29/2026	8:59 PM	69	60 °F	73 %	CALM	0 mph	0 mph	30.07 in	0.0 in	Mostly Cloudy
9/29/2026	9:59 PM	68	61 °F	78 %	CALM	0 mph	0 mph	30.09 in	0.0 in	Cloudy
9/29/2026	10:59 PM	67	61 °F	81 %	S	3 mph	0 mph	30.09 in		
9/29/2026	11:59 PM	67	62 °F	84 %	CALM	0 mph	0 mph	30.09 in		
9/30/2026	12:59 AM	67	62 °F	84 %	S	3 mph	0 mph	30.08 in		
9/30/2026	1:59 AM	67	62 °F	84 %	CALM	0 mph	0 mph	30.08 in		
9/30/2026	2:59 AM	68	61 °F	78 %	CALM	0 mph	0 mph	30.08 in	0.0 in	Cloudy
9/30/2026	3:59 AM	67	62 °F	84 %	CALM	0 mph	0 mph	30.07 in	0.0 in	Mostly Cloudy
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9/30/2026	7:59 AM	68	63 °F	84 %	NNE	5 mph	0 mph	30.13 in	0.0 in	Mostly Cloudy
9/30/2026	8:59 AM	72	63 °F	73 %	NE	6 mph	0 mph	30.13 in	0.0 in	Fair
9/30/2026	9:59 AM	74	61 °F	64 %	E	6 mph	0 mph	30.15 in	0.0 in	Fair
9/30/2026	10:59 AM	76	62 °F	62 %	NE	8 mph	0 mph	30.15 in	0.0 in	Fair

76 total hours

Heating conditions = less than 65°F (18° C)

Cooling conditions = more than 83° F (28° C)

Mixed conditions = between 65°F (18° C) and 83° F (28° C)

Date	Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip	Condition
9/28/2026	5:59 AM	63	57 °F	81 %	WNW	7 mph	0 mph	29.85 in	0.0 in	Mostly Cloudy
9/28/2026	6:31 AM	63	57 °F	81 %	WNW	9 mph	0 mph	29.86 in	0.0 in	Partly Cloudy
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9/30/2026	10:59 PM	68	64 °F	87 %	S	6 mph	0 mph	30.12 in	0.0 in	Partly Cloudy
9/30/2026	11:59 PM	68	64 °F	87 %	S	6 mph	0 mph	30.13 in	0.0 in	Partly Cloudy
9/28/2026	6:59 PM	69	62 °F	78 %	E	7 mph	0 mph	29.93 in	0.0 in	Cloudy
9/28/2026	7:59 PM	69	61 °F	75 %	ESE	5 mph	0 mph	29.95 in	0.0 in	Cloudy
9/28/2026	8:59 PM	69	61 °F	75 %	E	5 mph	0 mph	29.97 in	0.0 in	Cloudy
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9/29/2026	5:59 PM	71	62 °F	73 %	E	6 mph	0 mph	30.02 in	0.0 in	Mostly Cloudy
9/29/2026	6:59 PM	71	61 °F	70 %	E	3 mph	0 mph	30.04 in	0.0 in	Cloudy
9/30/2026	7:59 PM	71	61 °F	70 %	SE	8 mph	0 mph	30.09 in	0.0 in	Partly Cloudy
9/28/2026	11:59 AM	72	59 °F	64 %	W	9 mph	0 mph	29.91 in	0.0 in	Partly Cloudy
9/28/2026	12:41 PM	72	59 °F	64 %	W	9 mph	0 mph	29.91 in	0.0 in	Mostly Cloudy
9/28/2026	3:59 PM	72	61 °F	68 %	NE	8 mph	0 mph	29.89 in	0.0 in	Mostly Cloudy
9/29/2026	9:59 AM	72	60 °F	66 %	ENE	3 mph	0 mph	30.05 in	0.0 in	Mostly Cloudy
9/30/2026	8:59 AM	72	63 °F	73 %	NE	6 mph	0 mph	30.13 in	0.0 in	Fair
9/28/2026	12:59 PM	73	58 °F	59 %	WSW	7 mph	0 mph	29.91 in	0.0 in	Mostly Cloudy
9/28/2026	1:59 PM	73	58 °F	59 %	WSW	9 mph	0 mph	29.90 in	0.0 in	Mostly Cloudy
9/29/2026	10:59 AM	73	58 °F	59 %	ENE	7 mph	0 mph	30.07 in	0.0 in	Cloudy
9/29/2026	1:59 PM	73	59 °F	61 %	ENE	8 mph	0 mph	30.04 in	0.0 in	Cloudy
9/29/2026	2:59 PM	73	60 °F	64 %	ENE	8 mph	0 mph	30.03 in	0.0 in	Cloudy
9/29/2026	3:59 PM	73	61 °F	66 %	ENE	8 mph	0 mph	30.03 in	0.0 in	Cloudy
9/29/2026	4:59 PM	73	62 °F	68 %	ENE	6 mph	0 mph	30.02 in	0.0 in	Mostly Cloudy
9/30/2026	6:59 PM	73	62 °F	68 %	ESE	7 mph	0 mph	30.10 in	0.0 in	Partly Cloudy
9/29/2026	11:59 AM	74	60 °F	62 %	ENE	6 mph	0 mph	30.06 in	0.0 in	Mostly Cloudy
9/29/2026	12:59 PM	74	61 °F	64 %	ENE	8 mph	0 mph	30.06 in	0.0 in	Cloudy
9/30/2026	9:59 AM	74	61 °F	64 %	E	6 mph	0 mph	30.15 in	0.0 in	Fair
9/28/2026	2:59 PM	75	58 °F	55 %	W	9 mph	0 mph	29.88 in	0.0 in	Mostly Cloudy
9/30/2026	12:59 PM	75	62 °F	64 %	ENE	9 mph	0 mph	30.13 in	0.0 in	Partly Cloudy
9/30/2026	10:59 AM	76	62 °F	62 %	NE	8 mph	0 mph	30.15 in	0.0 in	Fair
9/30/2026	11:59 AM	76	62 °F	62 %	ENE	7 mph	0 mph	30.15 in	0.0 in	Fair
9/30/2026	1:59 PM	76	63 °F	64 %	ENE	8 mph	0 mph	30.11 in	0.0 in	Partly Cloudy
9/30/2026	5:59 PM	76	62 °F	62 %	E	9 mph	0 mph	30.09 in	0.0 in	Partly Cloudy
9/30/2026	4:59 PM	77	63 °F	62 %	ENE	9 mph	0 mph	30.07 in	0.0 in	Partly Cloudy
9/30/2026	2:59 PM	79	62 °F	56 %	E	9 mph	0 mph	30.09 in	0.0 in	Partly Cloudy
9/30/2026	3:59 PM	79	63 °F	58 %	ENE	13 mph	0 mph	30.07 in	0.0 in	Partly Cloudy

Heating conditions = **14%**

Cooling conditions = **0%**

Mixed conditions = **86%**

Comparison of Building Operating Conditions			
		Prevailing Annually	Prevailing During the Test
Outdoor Temperatures	Average	55 °F	70 °F
Operating Condition	Heating Conditions	66%	0%
	Cooling Conditions	16%	15%
	Mixed Conditions	16%	85%
Prevailing Operating Condition	Average	Heating	Mixed
Condition less likely to inhibit characterization of a radon hazard		Heating and air distribution systems active	Air distribution systems intermittent

b) Seasonal reliability

If not already accounted for, additional testing shall be recommended, no later than within the first year after occupancy or ownership of property management, where:

1. Testing was not conducted under conditions that are representative of the normal occupied building operating condition that prevails during the greatest amount of time each year; or
2. Testing was conducted under conditions that inhibit clear characterization of a radon hazard.


Any
Questions?