

# Relative Humidity Table

Dry Bulb Temp. (°F)	Difference between Dry Bulb and Wet Bulb (measured in degrees Fahrenheit)														
	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°
32	90	79	70	60	50	40	31	22	13	4	—	—	—	—	—
34	91	81	72	62	53	44	35	26	18	9	1	—	—	—	—
36	91	82	74	65	56	48	39	31	22	14	6	—	—	—	—
38	92	83	75	67	59	51	43	35	27	19	11	4	—	—	—
40	92	84	76	68	61	53	46	38	31	23	16	9	2	—	—
42	92	85	77	70	62	55	48	41	34	28	21	14	7	—	—
44	93	85	78	71	64	57	50	44	37	31	24	18	12	5	—
46	93	86	79	72	65	59	52	46	40	34	28	22	16	10	4
48	93	86	80	73	67	61	54	48	42	36	31	25	19	14	8
50	93	87	81	74	68	62	56	50	45	39	33	28	22	17	12
52	94	87	81	75	69	63	58	52	47	41	36	31	25	20	15
54	94	88	82	76	70	65	59	54	49	43	38	33	28	23	20
56	94	88	83	77	71	66	61	56	51	45	40	36	31	26	22
58	94	89	83	78	72	67	62	57	52	47	42	38	33	29	24
60	94	89	84	78	73	68	63	58	54	49	44	40	35	34	27
62	95	89	84	79	74	69	64	60	55	51	46	42	38	33	29
64	95	90	84	79	74	70	65	60	56	51	47	43	38	34	30
66	95	90	85	80	75	71	66	61	57	53	48	44	40	36	32
68	95	90	85	80	76	71	67	62	58	54	50	46	42	38	34
70	95	90	86	81	77	72	68	64	59	55	51	48	44	40	36
72	95	91	86	82	77	73	69	65	61	57	53	49	45	42	38
74	95	91	86	82	78	74	69	65	61	58	54	50	47	43	39
76	96	91	87	82	78	74	70	66	62	59	55	51	48	44	41
78	96	91	87	83	79	75	71	67	63	60	56	53	49	46	43
80	96	91	87	83	79	75	72	68	64	61	57	54	50	47	44
82	96	92	88	84	80	76	72	69	65	61	58	55	51	48	45
84	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46
86	96	92	88	84	81	77	73	70	66	63	60	57	53	50	47
88	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48
90	96	92	89	85	81	78	74	71	68	65	61	58	55	52	49
92	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50
94	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51

# Dew Point Calculation Chart

Air Temp. (°F)	Relative Humidity Value														
	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
32	6	9	12	14	17	19	20	22	24	25	27	28	29	30	32
34	8	11	14	16	18	20	22	24	25	27	28	30	31	33	34
36	9	12	15	18	20	22	24	25	27	29	30	31	33	35	36
38	11	14	17	19	22	24	25	27	29	30	32	34	35	37	38
40	13	16	18	21	23	25	27	29	31	33	34	36	37	39	40
42	14	17	20	23	25	27	29	31	33	35	37	38	39	41	42
44	16	19	22	24	27	29	31	33	35	37	38	40	41	43	44
46	17	21	23	26	28	30	33	35	37	39	40	42	43	45	46
48	19	22	25	28	30	33	35	37	39	41	42	44	45	47	48
50	20	24	27	30	32	35	37	39	41	42	44	46	47	49	50
52	22	25	28	31	34	36	39	41	43	44	46	48	50	51	52
54	24	27	30	33	36	38	41	43	45	46	48	50	51	53	54
56	25	29	31	35	38	40	42	45	46	48	50	52	53	55	56
58	27	30	34	37	40	42	44	46	48	50	52	54	55	57	58
60	28	32	36	39	41	44	46	48	50	52	54	56	57	59	60
62	30	34	37	41	43	46	48	50	52	54	56	58	59	61	62
64	31	36	39	42	45	48	50	52	54	56	58	60	61	63	64
66	34	38	41	44	47	50	52	54	56	58	60	61	63	65	66
68	35	39	43	46	49	51	54	56	58	60	62	63	65	67	68
70	37	41	45	48	51	53	56	58	60	62	64	65	67	69	70
72	39	43	46	50	52	55	57	60	62	64	66	67	69	71	72
74	41	45	48	51	54	58	59	62	64	66	68	69	71	73	74
76	42	47	50	53	56	59	61	63	66	68	70	71	73	75	76
78	44	48	52	55	57	61	63	65	68	70	71	73	75	77	78
80	46	50	54	57	60	62	65	67	69	71	73	75	77	78	80
82	48	55	59	62	64	67	69	71	73	75	77	79	80	82	82
84	49	54	57	60	63	66	69	71	73	75	77	79	81	82	84
86	51	55	59	62	65	68	71	73	75	77	79	81	83	84	86
88	53	57	61	64	67	70	72	75	77	79	81	83	85	86	88
90	55	59	63	66	69	72	75	77	79	81	83	85	87	88	90
92	56	61	64	68	71	74	76	79	81	83	85	87	89	90	92
94	58	62	66	70	73	75	78	80	83	85	87	89	91	92	94







5. The National Weather Service gave a local barometric pressure reading for Batavia, Illinois of 30.27 in Hg at 11:53 a.m. on January 27, 2016. When students checked their classroom barometer at 2 p.m., they recorded a drop of 2 mm.

a. What is the barometric pressure for 2 p.m.?

b. A drop in barometric pressure indicates what type of weather is approaching?

6. Looking at your data, what is the correlation between barometric pressure and weather conditions?

### Wind Measurements Data Table

Date	Time	Revolutions per minute	Circumference (ft)	Wind Speed (mph)

