RELATIVE HUMIDITY

You can figure out relative humidity by using an improvised psychrometer. Here's how:

1. Read an outside thermometer's temperature in Celsius.
2. Next, tie 1 layer of wet paper towel around the thermometer bulb with a rubber band. Make sure the wet towel is touching the bulb.
3. Wave the thermometer vigorously for 1 full minute.
4. Check the new temperature reading and subtract it from the original reading.
5. Consult the table to find the percent (%) relative humidity.

This system works because more moisture evaporates from the towel in drier air, taking heat with it.

NOTE: Because actual readings will also vary with pressure, you may wish to compare your values with those given on a weather report.

RELATIVE HUMIDITY FROM WET- AND DRY-BULB READINGS

(Values given in percent,%)

Dry Bulb Reading (°C) — Dry Bulb Reading - Wet Bulb Reading (°C)

Dry Bulb Reading (°C)	0	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
-20	100	28														
-18	100	40														
-16	100	48	0													
-14	100	55	11													
-12	100	61	23													
-10	100	66	33	0												
-8	100	71	41	13												
-6	100	73	48	20	0											
-4	100	77	54	32	11											
-2	100	79	58	37	20	1										
0	100	81	63	45	28	11										
2	100	84	68	52	37	22	8									
4	100	85	70	56	42	29	26	3								
6	100	86	73	60	47	34	22	11								
8	100	87	75	63	51	39	28	18	7							
10	100	88	76	65	54	44	33	23	14	4						
12	100	89	78	67	57	47	38	29	20	11	3					
14	100	89	79	69	60	51	42	33	25	17	9					
16	100	90	80	71	63	54	46	38	30	22	15					
18	100	91	81	73	64	56	48	41	33	26	19	6				
20	100	91	82	74	66	58	51	44	37	30	24	11				
22	100	91	83	75	68	60	53	46	40	34	27	16	5			
24	100	92	84	76	69	62	55	49	43	37	31	20	9			
26	100	92	85	77	70	64	57	51	45	39	34	23	14	4		
28	100	92	85	78	72	65	59	53	47	42	37	26	17	8		
30	100	93	86	79	73	67	61	55	49	44	39	29	20	12	4	
32	100	93	86	80	74	68	62	56	51	46	41	32	23	15	8	1
34	100	93	87	81	75	69	63	58	53	48	43	34	26	18	11	5
36	100	93	87	81	75	70	64	59	54	50	45	36	28	21	14	8
38	100	94	88	82	76	71	65	60	56	51	47	38	31	23	17	11
40	100	94	88	82	77	72	66	62	57	52	48	40	33	26	19	13
42	100	94	88	83	77	72	67	63	58	54	50	42	34	28	21	16
44	100	94	89	83	78	73	68	64	59	55	51	43	36	29	23	18

Relative Humidity (%)