

SOUTHERN SNOWMAN

WET-BULB TEMPERATURE CHART

		Humidity																		
		10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
Temp	20	14	14	14	15	15	15	16	16	16	17	17	18	18	18	19	19	19	20	20
	21	14	15	15	16	16	16	17	17	17	18	18	18	19	19	19	20	20	21	21
	22	15	16	16	16	17	17	17	18	18	19	19	19	20	20	20	21	21	22	22
	23	16	16	17	17	18	18	18	19	19	19	20	20	21	21	21	22	22	22	22
	24	17	17	18	18	18	19	19	20	20	20	21	21	22	22	22	23	23	23	24
	25	18	18	18	19	19	20	20	20	21	21	22	22	23	23	23	24	24	24	25
	26	18	19	19	20	20	20	21	21	22	22	23	23	24	24	24	25	25	25	26
	27	19	19	20	20	21	21	22	22	23	23	23	24	24	25	25	26	26	26	27
	28	20	20	21	21	22	22	23	23	23	24	24	25	25	26	26	27	27	27	28
	29	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	28	29
	30	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	29	29	29	30
	31	22	22	23	23	24	25	25	26	26	27	27	28	28	29	29	29	30	30	31
	32	23	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32
	33	23	24	24	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33
	34	24	25	25	26	26	27	27	28	29	29	30	30	31	31	32	32	33	33	34
	35	25	25	26	27	27	28	28	29	29	30	31	31	32	32	33	33	34	34	35
	36	25	26	27	27	28	29	29	30	30	31	31	32	33	33	34	34	35	35	36
	37	26	27	27	28	29	29	30	31	31	32	32	33	34	34	35	35	36	37	37
	38	27	27	28	29	29	30	31	31	32	33	33	34	35	35	36	36	37	38	38
	39	27	28	29	30	30	31	32	32	33	34	34	35	35	36	37	37	38	39	39
40	28	29	30	30	31	32	32	33	34	34	35	36	36	37	38	38	39	40	40	

WET-BULB OVERVIEW:

Wet bulb temperature is the lowest temperature that can be obtained by evaporating water into the air at a constant pressure. The term comes from the technique of wrapping a wet cloth around a mercury bulb thermometer and blowing air over the cloth until the water evaporates.

The wet bulb temperature is always lower than the dry bulb temperature, but will be identical with 100% relative humidity. This wet bulb temperature is what snowmakers use to know when they can make snow.

You can see it is possible to make snow when the temperatures are above freezing but only with very low humidity.

Plot your current temperature (numbers on the left) to the % of humidity (numbers on the top) and where they meet will be your current wet-bulb temp.

Any time the wet bulb number is below 20 degrees Fahrenheit, snowmaking is at its best... nice dry snow. You can make snow from 21 degrees to 27 degrees wet bulb, but the snow will be wet.