

fall rapidly until dew begins to gather, at which point a further drop in temperature is prevented or retarded by the condensation of moisture. The dew point, therefore, that is, the temperature at which dew begins to gather, is a good indication of the probability of frost. If the dew-point is 40 degrees F. or above at sunset, there is not likely to be frost that night. If, however, the dew-point is below 40 degrees, precautions should be taken to prevent the injury of tender flowers, vegetables, or fruit buds.

FINDING THE DEW POINT.

Following is a method for determining the dew point by means of the wet and dry bulb thermometers or sling psychrometer: Two ordinary all-glass thermometers, with cylindrical bulbs, are strapped securely to the edges of a thin board about 12 inches long and two and a half inches wide, so that the bulbs project below the board. About the bulb of one of the thermometers one fold of a fine piece of cotton or muslin is wrapped closely and tied tightly at the top. To use the psychrometer the covered bulb

should be moistened with water, and by means of a cord fastened to the top of the board. The psychrometer is swung to and fro for a minute or so in the shade in the outside air, until the reading of the wet bulb is stationary. The two thermometers should be read quickly after the swinging ceases and the readings recorded. The depression of the wet bulb reading below that of the dry is the amount of cooling produced by evaporation and indicates the humidity of the air. From these readings the dew point can be determined from the table given below.

To illustrate the use of the table: Suppose that the air temperature, the dry bulb, reads 55 degrees, while the wet bulb reads 47 degrees, a depression of 8 degrees, the table gives a dew point of 39 degrees. If this condition exists at sunset, with a clear sky and little or no wind, there is likely to be frost.

THE ELECTRIC ALARM.

Fig. 2 illustrates a simple and inexpensive arrangement for giving warning when a certain temperature, say 32 degrees, has

DEPRESSION OF THE WET BULB THERMOMETER.

Thermometer Dry-Bulb	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'
65 deg.....	40
64 deg.....	41	39
63 deg.....	42	40	38
62 deg.....	41	39	37
61 deg.....	42	40	38	35
60 deg.....	41	39	36	33
59 deg.....	42	40	38	35	32
58 deg.....	41	39	36	33	30	
57 deg.....	41	40	37	35	31	28
56 deg.....	40	39	36	33	30	26
55 deg.....	41	39	37	34	31	28	25
54 deg.....	40	38	36	33	30	27	23
53 deg.....	41	39	37	34	31	28	25	20
52 deg.....	40	38	36	33	30	27	23	18
51 deg.....	41	39	37	34	31	28	25	21	16
50 deg.....	40	39	37	33	30	27	23	19	14
49 deg.....	41	39	37	34	31	28	25	21	17	11
48 deg.....	40	38	36	33	30	27	23	19	14	9
47 deg.....	41	39	37	32	29	25	22	19	17	12	6
46 deg.....	40	38	36	33	30	27	24	20	15	10	2
45 deg.....	..	41	39	37	35	32	29	26	22	18	13	7	-1
44 deg.....	..	40	38	36	33	30	27	24	20	16	11	4	-5
43 deg.....	41	39	37	35	32	29	26	23	19	14	8	1	-9
42 deg.....	40	38	36	34	31	28	25	21	17	12	6	-2	-15
41 deg.....	39	37	35	33	29	26	23	19	15	9	3	-6	-22
40 deg.....	38	36	33	29	26	23	19	15	9	3	-6	-22	..