



Moisture/Humidity Conversions

Dew Point		Vapor Pressure (Water/Ice Equilibrium) mm of Mercury	PPM on Volume Basis at 760 mm of Hg Pressure	Relative Humidity at 70°F %	PPM on Weight Basis in Air
°C	°F				
-150	-238	7×10^{-15}	9.2×10^{-12}	-----	5.7×10^{-12}
-140	-220	3×10^{-10}	4.0×10^{-7}	-----	2.5×10^{-7}
-130	-202	7×10^{-8}	9.2×10^{-5}	-----	5.7×10^{-5}
-120	-184	10×10^{-8}	1.3×10^{-4}	5.4×10^{-7}	8.1×10^{-5}
-118	-180	.00000016	.00021	.0000009	.00013
-116	-177	.00000026	.00034	.0000014	.00021
-114	-173	.00000043	.00057	.0000023	.00035
-112	-170	.00000069	.00091	.0000037	.00057
-110	-166	.0000010	.00132	.0000053	.00082
-108	-162	.0000018	.00237	.0000096	.0015
-106	-159	.0000028	.00368	.000015	.0023
-104	-155	.0000043	.00566	.000023	.0035
-102	-152	.0000065	.00855	.000035	.0053
-100	-148	.0000099	.0130	.000053	.0081
-98	-144	.000015	.0197	.000080	.012
-96	-141	.000022	.0289	.00012	.018
-94	-137	.000033	.0434	.00018	.027
-92	-134	.000048	.0632	.00026	.039
-90	-130	.000070	.0921	.00037	.057
-88	-126	.00010	.132	.00054	.082
-86	-123	.00014	.184	.00075	.11
-84	-119	.00020	.263	.00107	.16
-82	-116	.00029	.382	.00155	.24
-80	-112	.00040	.526	.00214	.33
-78	-108	.00056	.737	.00300	.46
-76	-105	.00077	1.01	.00410	.63
-74	-101	.00105	1.38	.00559	.86
-72	-98	.00143	1.88	.00762	1.17
-70	-94	.00194	2.55	.0104	1.58
-68	-90	.00261	3.43	.0140	2.13
-66	-87	.00349	4.59	.0187	2.84
-64	-83	.00464	6.11	.0248	3.79
-62	-80	.00614	8.08	.0328	5.01
-60	-76	.00808	10.6	.0430	6.59
-58	-72	.0106	13.9	.0565	8.63
-56	-69	.0138	18.2	.0735	11.3
-54	-65	.0178	23.4	.0948	14.5
-52	-62	.0230	30.3	.123	18.8
-50	-58	.0295	38.8	.157	24.1
-48	-54	.0378	49.7	.202	30.9
-46	-51	.0481	63.3	.257	39.3
-44	-47	.0609	80	.325	49.7
-42	-44	.0768	101	.410	62.7
-40	-40	.0966	127	.516	78.9
-38	-36	.1209	159	.644	98.6
-36	-33	.1507	198	.804	122.9
-34	-29	.1873	246	1.00	152
-32	-26	.2318	305	1.24	189
-30	-22	.2859	376	1.52	234
-28	-18	.351	462	1.88	287
-26	-15	.430	566	2.30	351



Moisture/Humidity Conversions (cont.)

Dew Point		Vapor Pressure (Water/Ice Equilibrium) mm of Mercury	PPM on Volume Basis at 760 mm of Hg Pressure	Relative Humidity at 70°F %	PPM on Weight Basis in Air
°C	°F				
-24	-11	.526	692	2.81	430
-22	-8	.640	842	3.41	523
-20	-4	.776	1020	4.13	633
-18	0	.939	1240	5.00	770
-16	3	1.132	1490	6.03	925
-14	7	1.361	1790	7.25	1110
-12	10	1.632	2150	8.69	1335
-10	14	1.950	2570	10.4	1596
-8	18	2.326	3060	12.4	1900
-6	21	2.765	3640	14.7	2260
-4	25	3.280	4320	17.5	2680
-2	28	3.880	5100	20.7	3170
0	32	4.579	6020	24.4	3640
2	36	5.294	6970	28.2	4330
4	39	6.101	8030	32.5	4990
6	43	7.013	9230	37.4	5730
8	46	8.045	10590	42.9	6580
10	50	9.209	12120	49.1	7530
12	54	10.52	13840	56.1	8600
14	57	11.99	15780	63.9	9800
16	61	13.63	17930	72.6	11140
18	64	15.48	20370	82.5	12650
20	68	17.54	23080	93.5	14330
22	72	19.83	26092	Over 100	16200
24	75	22.38	29447	↓	18284
26	79	25.21	33171		20596
28	82	28.35	37303		23162
30	86	31.82	41868		25996
32	90	35.66	46921		29133
34	93	39.90	52500		32597
36	97	44.56	58632		36405
38	100	49.69	65382		40596
40	104	55.32	72789		45195
42	108	61.50	80921		50244
44	111	68.26	89816		55767
46	115	75.65	99539		61804
48	118	83.71	110145		68389
50	122	92.51	121724		75579
52	126	102.09	134329		83405
54	129	112.51	148039		91918
56	133	123.80	162895		101142
58	136	136.08	179053	111175	
60	140	149.38	196553	122040	