

Nutriculture Fertilizer Conductivity Chart

Formulations and Conductivity in Millimhos (mmhos)

This chart has been developed as a reference to verify the accuracy of fertilizer injectors. The chart is designed to be used in the following manner:

1. Determine the conductivity of your clear irrigation water.
2. Determine the conductivity of your fertilizer solution after it has been proportioned (at the emitter as it is applied to the plants).
3. Subtract the value of 1. (clear water) from 2. (fertilizer solution).
4. Compare this answer with the values on the chart to determine the parts per million of nitrogen being injected.

An Example:

If a reading of irrigation water has a value of .2 mmhos and a value of 1.0 mmhos is obtained from the fertilizer-injected water using 20-20-20, the corrected value would be $1.0 - .2 = .80$. A look at the chart indicates a value of .41 for 20-20-20 being injected at 100 PPM. With an allowance of + or - 10% this is well within range. To convert millimhos (mmhos) to micromhos (umhos) multiply by 1000.

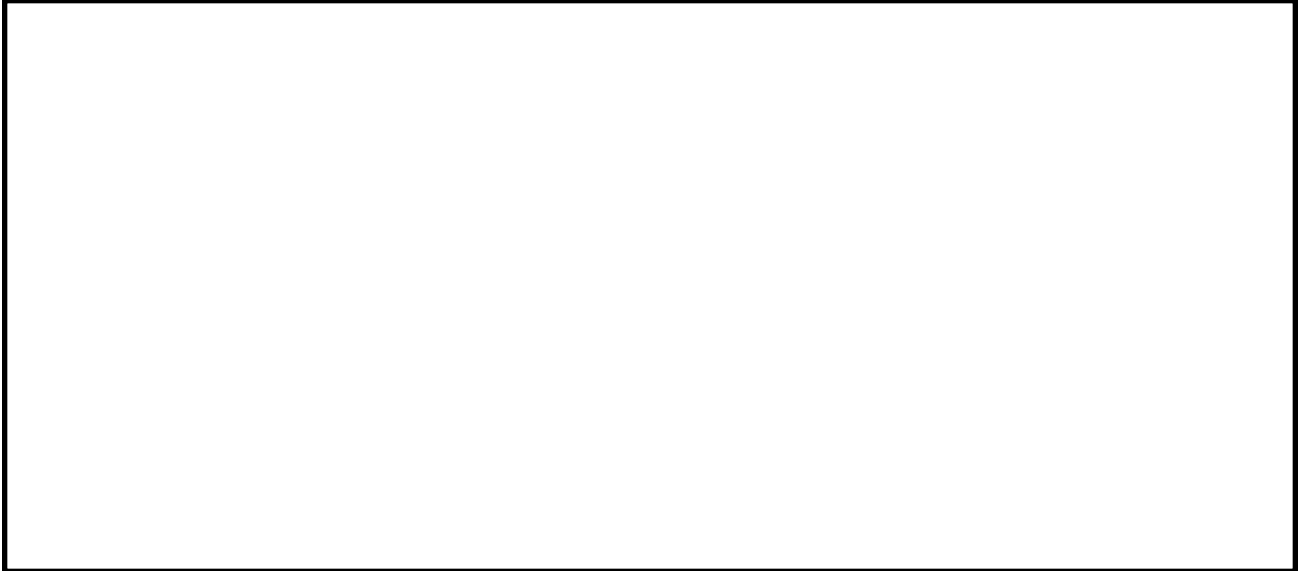
The values on this chart were obtained under laboratory conditions using distilled water. The values obtained by the grower under field conditions could therefore, vary slightly (+10%) from values listed here. This chart is to be used with Plant Marvel's Nutriculture formulations. Other brands may be composed of different raw materials which would give different values, even though they are the same analysis.

PPM NITROGEN CONCENTRATION							
FORMULA	50	100	150	200	300	400	
4-25-35	1.30	2.60	3.90	5.20	7.80	10.40	13.00
5-40-17	1.43	2.85	4.28	5.70	8.55	11.40	14.25
7-40-17	.60	1.20	1.80	2.40	3.60	4.80	6.00
10-20-30	.50	.99	1.50	1.99	2.99	3.98	4.79
10-30-20	.48	.96	1.44	1.92	2.88	3.84	4.95
12-4-12	.17	.35	1.07	1.43	2.14	2.86	3.58
12-31-14	.42	.84	1.25	1.67	2.51	3.34	4.18
12-45-10	.36	.71	1.07	1.42	2.13	2.84	3.55
13-0-44	.48	.95	1.41	1.88	2.83	3.77	4.73
13-2-13	.37	.75	1.12	1.50	2.25	3.00	3.75
14-0-14	.37	.75	1.12	1.50	2.25	3.00	3.75
14-3-20	.35	.71	1.06	1.42	2.12	2.83	3.55
15-0-15	.34	.69	1.03	1.38	2.06	2.75	3.44
15-0-30	.36	.71	1.07	1.49	2.14	2.85	3.55
15-3-18	.35	.71	1.06	1.42	2.12	2.83	3.54
15-3-20	.35	.70	1.05	1.40	2.10	2.80	3.50
15-5-15	.36	.73	1.09	1.45	2.18	2.90	3.63
15-5-25	.38	.76	1.14	1.52	2.28	3.04	3.80
15-5-30	.37	.74	1.11	1.47	2.21	2.95	3.68
15-10-30	.35	.71	1.06	1.42	2.12	2.83	3.54
15-20-25	.33	.66	1.00	1.37	2.05	2.74	3.42
15-30-15	.32	.64	.96	1.28	1.93	2.57	3.21
16-4-12	.33	.68	1.01	1.35	2.04	2.70	3.37
17-0-17	.35	.70	1.05	1.40	2.10	2.80	3.50
17-5-17	.34	.68	1.01	1.37	2.04	2.70	3.40
17-17-17	.27	.54	.80	1.07	1.61	2.14	2.68
18-3-18	.34	.68	1.01	1.37	2.04	2.74	3.40
18-6-18	.34	.68	1.01	1.37	2.04	2.74	3.40
19-26-14	.21	.42	.63	.84	1.25	1.67	2.09
20-0-20	.21	.41	.62	.82	1.23	1.64	2.05
20-5-20	.33	.65	.98	1.30	1.96	2.62	3.25
20-5-30	.23	.47	.70	.93	1.39	1.86	2.33
20-7-19	.30	.60	.90	1.20	1.80	2.40	3.00
20-7-20	.33	.65	.99	1.30	1.95	2.60	3.25
20-10-20	.31	.62	.94	1.25	1.88	2.50	3.13
20-20-20	.21	.41	.62	.82	1.23	1.64	2.05
21-7-7 A	.31	.61	.92	1.22	1.83	2.44	3.05
21-7-7 N	.18	.36	.54	.72	1.07	1.43	1.80
21-8-18	.32	.64	.96	1.28	1.92	2.56	3.20
24-8-16	.21	.42	.63	.85	1.27	1.70	2.12
25-0-25	.15	.30	.45	.61	.92	1.22	1.52
25-5-20	.14	.30	.42	.61	.90	1.20	1.50
25-10-20	.16	.32	.49	.65	.98	1.30	1.63
25-15-10	.15	.31	.46	.62	.92	1.23	1.55
28-18-8	.10	.20	.30	.40	.60	.80	1.00
30-10-10	.11	.22	.33	.43	.66	.85	1.10



Bench Crop Record Card

Front Side



Back Side

