

# Injection Ratios & Concentrations for Constant Feeding

WITH MASTERBLEND WATER SOLUBLE FERTILIZER

## 15% NITROGEN FORMULAS (15-16-17, 15-5-25, 15-0-15, etc.)

Per Gallon of Concentrate			
Injector Ratio	100 PPM Nitrogen	150 PPM Nitrogen	200 PPM Nitrogen
1:300	27.00 oz.	40.50 oz.	54.00 oz.
1:200	18.00 oz.	27.00 oz.	36.00 oz.
1:150	13.50 oz.	20.25 oz.	27.00 oz.
1:128	11.52 oz.	17.28 oz.	23.04 oz.
1:100	9.00 oz.	13.50 oz.	18.00 oz.
1:50	4.50 oz.	6.75 oz.	9.00 oz.
1:30	2.70 oz.	4.05 oz.	5.40 oz.
1:24	2.15 oz.	3.21 oz.	4.32 oz.
HOZON 1:15	1.35 oz.	2.025 oz.	2.70 oz.

## 25% NITROGEN FORMULAS (24-8-16, 25-5-15, 25-0-25, etc.)

Per Gallon of Concentrate			
Injector Ratio	100 PPM Nitrogen	150 PPM Nitrogen	200 PPM Nitrogen
1:300	16.50 oz.	24.75 oz.	33.00 oz.
1:200	11.00 oz.	16.50 oz.	22.00 oz.
1:150	8.25 oz.	12.375 oz.	16.50 oz.
1:128	7.04 oz.	10.56 oz.	14.08 oz.
1:100	5.50 oz.	8.25 oz.	11.00 oz.
1:50	2.75 oz.	4.125 oz.	5.50 oz.
1:30	1.65 oz.	2.475 oz.	3.30 oz.
1:24	1.32 oz.	1.98 oz.	2.64 oz.
HOZON 1:15	0.825 oz.	1.237 oz.	1.65 oz.

## 20% NITROGEN FORMULAS (20-20-20, 20-10-20, 21-7-7, etc.)

Per Gallon of Concentrate			
Injector Ratio	100 PPM Nitrogen	150 PPM Nitrogen	200 PPM Nitrogen
1:300	20.25 oz.	30.375 oz.	40.50 oz.
1:200	13.50 oz.	20.25 oz.	27.00 oz.
1:150	10.125 oz.	15.187 oz.	20.25 oz.
1:128	8.64 oz.	12.96 oz.	17.28 oz.
1:100	6.75 oz.	10.125 oz.	13.50 oz.
1:50	3.375 oz.	5.0675 oz.	6.75 oz.
1:30	2.025 oz.	3.037 oz.	4.05 oz.
1:24	1.62 oz.	2.43 oz.	3.24 oz.
HOZON 1:15	1.012 oz.	1.518 oz.	2.025 oz.

## 30% NITROGEN FORMULAS (30-10-10, etc.)

Per Gallon of Concentrate			
Injector Ratio	100 PPM Nitrogen	150 PPM Nitrogen	200 PPM Nitrogen
1:300	13.50 oz.	20.25 oz.	27.00 oz.
1:200	9.00 oz.	13.50 oz.	18.00 oz.
1:150	6.75 oz.	10.125 oz.	13.50 oz.
1:128	5.76 oz.	8.64 oz.	11.52 oz.
1:100	4.50 oz.	6.75 oz.	9.00 oz.
1:50	2.25 oz.	3.375 oz.	4.50 oz.
1:30	1.35 oz.	2.025 oz.	2.70 oz.
1:24	1.075 oz.	1.605 oz.	2.16 oz.
HOZON 1:15	.675 oz.	1.0125 oz.	1.35 oz.

Note: To convert oz./gal. to g/L, multiply ounces by 7.5.



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**MASTERBLEND**

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Manufactured by:

**Masterblend International, LLC**

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# Masterblend Conductivity Chart

Use this chart in conjunction with your conductivity meter to check the accuracy of your injector. Your meter should read in millimhos. These readings were made with distilled water and thus our readings may vary plus 10% from those on this chart.

- 1 Test your irrigation water with no feed present (plain). 2 Test your water with fertilizer injected. 3 Subtract the reading of the water with fertilizer from the reading of the plain water to determine conductivity.

Mixed Masterblend Analysis	PPM NITROGEN																								
	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
20-20-20	.20	.30	.40	.50	.60	.70	.80	.90	1.00	1.10	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00
20-19-18	.20	.30	.40	.50	.60	.70	.80	.90	1.00	1.10	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00
20-10-20	.33	.49	.65	.81	.98	1.14	1.30	1.46	1.63	1.79	1.95	2.28	2.60	2.93	3.25	3.58	3.90	4.23	4.55	4.88	5.20	5.53	5.85	6.18	6.50
20-5-30	.22	.34	.45	.56	.67	.79	.90	1.01	1.12	1.24	1.35	1.57	1.80	2.02	2.25	2.47	2.70	2.92	3.15	3.37	3.60	3.82	4.05	4.27	4.50
25-5-30	.13	.20	.27	.34	.40	.47	.54	.61	.67	.74	.81	.94	1.08	1.21	1.35	1.48	1.62	1.75	1.89	2.02	2.16	2.29	2.43	2.56	2.70
25-10-10	.08	.13	.17	.21	.25	.29	.34	.38	.42	.47	.50	.58	.67	.75	.84	.92	1.00	1.08	1.18	1.26	1.34	1.43	1.51	1.60	1.70
30-10-10	.07	.10	.14	.17	.21	.24	.28	.31	.35	.38	.42	.49	.56	.63	.70	.77	.84	.91	.98	1.05	1.12	1.19	1.26	1.33	1.40
15-5-25	.44	.65	.87	1.09	1.30	1.52	1.74	1.95	2.18	2.39	2.61	3.05	3.48	3.91	4.35	4.78	5.22	5.65	6.09	6.51	6.96	7.40	7.83	8.27	8.70
15-11-29	.34	.52	.69	.86	1.03	1.21	1.38	1.55	1.72	1.90	2.07	2.41	2.76	3.10	3.45	3.79	4.14	4.48	4.83	5.17	5.52	5.86	6.21	6.55	6.90
15-10-30	.35	.52	.70	.87	1.05	1.22	1.40	1.57	1.75	1.92	2.10	2.45	2.80	3.15	3.50	3.85	4.20	4.55	4.90	5.25	5.60	5.95	6.30	6.65	7.00
15-15-15	.32	.49	.65	.81	.97	1.14	1.30	1.46	1.62	1.79	1.95	2.27	2.60	2.92	3.25	3.57	3.90	4.22	4.55	4.87	5.20	5.52	5.85	6.17	6.50
15-30-15	.31	.47	.62	.78	.93	1.09	1.24	1.40	1.55	1.71	1.86	2.17	2.48	2.79	3.10	3.41	3.72	4.03	4.34	4.65	4.96	5.27	5.58	5.89	6.20
15-0-15	.37	.56	.75	.94	1.12	1.31	1.50	1.69	1.87	2.06	2.25	2.62	3.00	3.37	3.75	4.12	4.50	4.87	5.25	5.62	6.00	6.37	6.75	7.12	7.50
15-16-17	.34	.52	.69	.86	1.03	1.21	1.38	1.55	1.72	1.90	2.07	2.41	2.76	3.10	3.45	3.79	4.14	4.48	4.83	5.17	5.52	5.86	6.21	6.55	6.90
20-0-20	.34	.50	.67	.84	1.01	1.17	1.34	1.50	1.67	1.84	2.01	2.34	2.68	3.01	3.35	3.69	4.02	4.36	4.69	5.02	5.36	5.70	6.03	6.37	6.70
21-7-7 Acid	.28	.42	.56	.70	.84	.98	1.12	1.26	1.40	1.54	1.68	1.96	2.24	2.52	2.80	3.08	3.36	3.64	3.92	4.20	4.48	4.76	5.04	5.32	5.60
21-7-7 Neutral	.21	.32	.42	.53	.63	.74	.84	.95	1.05	1.16	1.26	1.47	1.68	1.89	2.10	2.31	2.52	2.73	2.94	3.15	3.36	3.57	3.78	3.99	4.20

Note: To convert millimhos to micromhos, multiply by 1000.



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