

Interpretive Nutrient Levels for Plant Analysis - Source Penn State University Agricultural Analytical Services Laboratory http://www.aasl.psu.edu/pt_nutrients.htm

	Alfalfa	Field Corn Seedling	Field Corn Any	Soybean Any	Winter Wheat	Spring Wheat	Cucumber	Eggplant	Melon Cantaloupe	Pepper	Irish Potatoes	Pumpkin	Squash Any	Sw.Corn Seedling	Sw Corn Mature	Tomato Any	Water-melon	Onion
% on a Dry Matter Basis																		
Nitrogen																		
Low	3.00	2.45	2.45	3.10	1.25	1.00	3.50	4.19	3.50	2.99	3.50	3.50	3.50	3.00	2.20	2.50	2.49	4.50
Normal	3.76	3.50	2.76	4.01	1.75	2.00	4.30	4.20	4.50	3.00	4.50	4.00	4.00	3.50	2.50	3.75	2.50	5.00
High	5.51	5.00	3.51	5.51	3.01	3.01	6.01	5.00	5.50	4.50	6.00	6.01	6.01	4.51	3.50	4.25	4.00	6.01
Excessive	7.01	7.00	3.76	7.01	8.00	8.00	9.99	7.50	6.50	5.50	7.50	9.99	9.99	9.00	7.00	5.50	7.00	9.99
Phosphorus																		
Low	0.21	0.16	0.16	0.16	0.11	0.15	0.25	0.29	0.25	0.29	0.22	0.23	0.23	0.35	0.20	0.20	0.24	0.25
Normal	0.26	0.30	0.25	0.26	0.21	0.20	0.30	0.30	0.30	0.30	0.29	0.30	0.30	0.50	0.30	0.30	0.25	0.35
High	0.71	0.50	0.51	0.51	0.51	0.51	1.26	0.60	0.80	0.70	0.50	0.50	0.50	1.01	0.71	0.52	0.50	0.51
Excessive	1.01	3.00	0.61	0.81	2.00	2.00	4.00	2.00	1.20	2.00	0.61	3.00	3.00	3.00	3.00	0.60	3.00	3.00
Potassium																		
Low	1.75	1.25	1.25	1.26	1.00	1.25	2.00	3.49	3.20	2.49	1.50	2.50	2.50	2.50	1.20	1.50	2.69	3.50
Normal	2.01	2.50	1.71	1.71	1.51	1.50	3.10	3.50	4.00	2.50	2.00	3.00	3.00	2.80	1.50	2.30	2.70	4.00
High	3.51	4.00	2.51	2.51	3.01	3.01	5.51	5.00	5.00	5.00	4.10	5.01	5.01	4.51	3.51	4.10	4.00	5.51
Excessive	5.01	7.00	3.51	2.76	8.00	8.00	9.99	8.00	9.99	8.00	5.00	9.99	9.99	9.00	7.00	5.00	8.00	9.99
Calcium																		
Low	1.00	0.10	0.10	0.21	0.10	0.07	0.90	0.79	1.20	0.59	0.65	0.90	0.90	0.24	0.10	0.20	0.99	0.80
Normal	1.76	0.30	0.21	0.36	0.21	0.20	1.40	0.80	2.30	0.60	0.76	1.20	1.20	0.50	0.30	1.00	1.00	1.00
High	3.01	0.70	1.01	2.01	1.01	0.51	4.01	1.50	3.00	1.50	1.00	2.51	2.51	0.91	0.60	4.75	2.50	2.01
Excessive	4.01	3.00	1.51	3.01	5.00	5.00	8.00	4.00	9.99	2.00	4.00	7.50	7.50	3.00	3.00	6.50	8.00	6.00
Magnesium																		
Low	0.20	0.10	0.10	0.11	0.10	0.05	0.22	0.24	0.25	0.29	0.20	0.25	0.25	0.15	0.05	0.20	0.24	0.22
Normal	0.31	0.15	0.21	0.26	0.16	0.15	0.30	0.25	0.35	0.30	0.40	0.30	0.30	0.20	0.15	0.55	0.25	0.25
High	1.01	0.45	0.61	1.01	1.01	0.51	1.01	0.60	0.80	1.00	1.00	1.01	1.01	0.51	0.40	1.00	0.80	0.41
Excessive	2.01	2.00	1.01	1.51	2.00	2.00	3.00	2.00	3.00	2.50	1.25	2.00	3.00	2.00	2.00	1.25	3.00	3.00
Sulfur																		
Low	0.20	0.13	0.10	0.16	0.07	0.05	0.25	0.39	0.20	0.29	0.20	0.10	0.10	0.13	0.13	0.20	0.19	0.30
Normal	0.26	0.21	0.21	0.21	0.15	0.15	0.40	0.40	0.25	0.30	0.30	0.20	0.20	0.21	0.21	0.30	0.20	0.50
High	0.51	0.76	0.51	0.41	1.00	0.41	0.71	0.60	1.40	0.60	0.50	1.01	1.01	0.76	0.76	1.21	0.40	1.01
Excessive	0.81	2.00	0.81	2.00	2.00	2.00	2.00	2.00	2.25	2.00	1.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00
ppm on a dry matter basis																		
Manganese																		
Low	20	15	15	15	10	5.00	20	49	40	29	20	35	35	20	20	20	19	30
Normal	31	20	20	21	16	25.00	50	50	50	30	30	50	50	31	31	30	20	50
High	101	300	151	101	201	101.00	301	100	250	150	250	251	251	301	301	100	150	251
Excessive	251	1001	201	251	351	300.00	500	500	500	500	800	700	700	1001	1001	500	800	750
Iron																		
Low	20	10	10	31	9	8	30	49	40	29	40	40	40	26	26	25	29	50
Normal	31	50	21	51	10	25	50	50	50	30	50	50	50	50	50	40	30	60
High	251	250	251	351	301	101	301	100	300	150	100	201	201	301	301	100	150	301
Excessive	401	800	351	501	501	300	9	800	800	500	600	500	500	800	800	450	800	900
Copper																		
Low	6	3	3	5	3	2	4	4	4	4	5	5	5	3	3	6	4	8
Normal	11	5	6	10	5	5	7	5	7	5	7	10	10	5	5	10	5	15
High	31	20	21	31	51	26	20	10	30	15	20	26	26	26	26	20	15	36
Excessive	51	75	51	51	71	100	75	200	200	40	200	100	100	75	75	35	200	125
Boron																		
Low	20	3	2	10	4	2	22	19	22	19	18	23	23	5	5	15	19	18
Normal	31	5	4	21	6	6	25	20	25	22	25	25	25	8	8	25	20	22
High	251	25	26	56	15	11	100	40	60	70	50	76	76	26	26	45	40	61
Excessive	401	61	46	81	60	60	200	300	500	325	180	200	200	61	61	90	500	200
Zinc																		
Low	11	15	11	10	11	5	15	19	18	24	35	18	18	15	15	20	19	20
Normal	21	20	20	21	21	15	25	20	20	25	45	20	20	20	20	25	20	25
High	71	60	71	51	71	71	200	50	200	100	250	201	201	151	151	71	50	101
Excessive	101	400	101	76	151	150	400	500	500	300	500	500	500	400	400	72	200	300