

EC, pH, and PPM Reading Chart for Hydroponics

This is the most demanded resource in the hydroponic community.

I have searched for over 50 documents to get this data. The table below gives the pH, EC, and PPM requirements for 80 vegetables, fruits, and herbs that people grow hydroponically.

I hope this will help you guys in your hydroponics journey.

S No.	Crops	EC (mS/cm)	pH	PPM 500 (USA)	PPM 700 (UK)
1	African Violet	1.2 to 1.5	6.0 to 7.0	600 to 750	840 to 1050
2	Ambra Radicchio		5.5 to 6.5		
3	Artichoke	0.8 to 1.8	6.5 to 7.5	400 to 900	560 to 1260
4	Asparagus	1.4 to 1.8	6.0 to 6.8	700 to 900	980 to 1260
5	Banana	1.8 to 2.2	5.5 to 6.5	900 to 1100	1260 to 1540
6	Basil	1.0 to 1.6	5.5 to 6.0	500 to 800	700 to 1120
7	Bean (Common)	2.0 to 4.0	6	1000 to 2000	1400 to 2800
8	Bean (Italian Bush)		6.0 to 6.5		
9	Bean (Lima)		6.0 to 6.5		
10	Bean (Pole)		6.0 to 6.5		
11	Beetroot	0.8 to 5.0	6.0 to 6.5	400 to 2500	560 to 3500
12	Bell Peppers	2.0 to 2.5	6.0 to 6.5	1000 to 1250	1400 to 1750
13	Black Currant	1.4 to 1.8	6	700 to 900	980 to 1260
14	Blueberry	1.8 to 2.0	4.0 to 5.0	900 to 1000	1260 to 1400
15	Broadbean	1.8 to 2.2	6.0 to 6.5	900 to 1100	1260 to 1540
16	Broccoli	2.8 to 3.5	6.0 to 6.8	1400 to 1750	1960 to 2450
17	Brussel Sprouts	2.5 to 3.0	6.5 to 7.5	1250 to 1500	1750 to 2100
18	Cabbage	2.5 to 3.0	6.5 to 7.0	1250 to 1500	1750 to 2100
19	Capsicum	1.8 to 2.2	6.0 to 6.5	900 to 1100	1260 to 1540
20	Carnation	2.0 to 3.5	6	1000 to 1750	1400 to 2450
21	Carrots	1.6 to 2.0	6.3	800 to 1000	1120 to 1400
22	Cauliflower	0.5 to 2.0	6.0 to 7.0	250 to 1000	350 to 1400
23	Celery	1.8 to 2.4	6.5	900 to 1200	1260 to 1680
24	Chicory	1.0 to 1.6	5.5 to 6.0	500 to 800	700 to 1120

25	Chives	1.8 to 2.4	6.0 to 6.5	900 to 1200	1260 to 1680
26	Collard Greens		6.5 to 7.5		
27	Courgettes	1.8 to 2.4	6	900 to 1200	1260 to 1680
28	Cucumber	1.7 to 2.0	5.0 to 5.5	850 to 1000	1190 to 1400
29	Eggplant	2.5 to 3.5	6	1250 to 1750	1750 to 2450
30	Endive	2.5 to 3.5	5.5 to 6.5	1250 to 1750	1750 to 2450
31	Fennel	1.0 to 1.4	6.4 to 6.8	500 to 700	700 to 980
32	Ficus	1.6 to 2.4	5.5 to 6.0	800 to 1200	1120 to 1680
33	Fodder	2.0 to 2.4	5.5	1000 to 1200	1400 to 1680
34	Garlic	1.4 to 1.8	6	700 to 900	980 to 1260
35	Hot Peppers	3.0 to 3.5	6.0 to 6.5	1500 to 1750	2100 to 2450
36	Lavender	1.0 to 1.4	6.4 to 6.8	500 to 700	700 to 980
37	Leek	1.4 to 1.8	6.5 to 7.0	700 to 900	980 to 1260
38	Leek	1.4 to 1.8	6.5 to 7.0	700 to 900	980 to 1260
39	Lemon Balm	1.0 to 1.6	5.5 to 6.5	500 to 800	700 to 1120
40	Lettuce	1.2 to 1.8	6.0 to 7.0	600 to 900	840 to 1260
41	Marjoram	1.6 to 2.0	6	800 to 1000	1120 to 1400
42	Marrow	1.8 to 2.4	6	900 to 1200	1260 to 1680
43	Melon	2.0 to 2.5	5.5 to 6.0	1000 to 1250	1400 to 1750
44	Mint	2.0 to 2.4	5.5 to 6.0	1000 to 1200	1400 to 1680
45	Mustard Cress	1.2 to 2.4	6.0 to 6.5	600 to 1200	840 to 1680
46	Okra	1.0 to 2.4	6.5	500 to 1200	700 to 1680
47	Onions	1.4 to 1.8	6.0 to 6.7	700 to 900	980 to 1260
48	Pak Choi	1.5 to 2.0	7	750 to 1000	1050 to 1400
49	Parsley	1.8 to 2.2	6.0 to 6.5	900 to 1100	1260 to 1540
50	Parsnip	1.4 to 1.8	6	700 to 900	980 to 1260
51	Passionfruit	1.6 to 2.4	6.5	800 to 1200	1120 to 1680
52	Paw-Paw	1.6 to 2.4	6.5	800 to 1200	1120 to 1680
53	Pea	0.8 to 1.8	6.0 to 7.0	400 to 900	560 to 1260
54	Peas (Sugar)		6.0 to 6.8		
55	Pepino	2.0 to 5.0	6.0 to 6.5	1000 to 2500	1400 to 3500
56	Peppers	0.8 to 1.8	5.5 to 6.0	400 to 900	560 to 1260
57	Pineapple	2.0 to 2.4	5.5 to 6.0	1000 to 1200	1400 to 1680
58	Potato	2.0 to 2.5	5.0 to 6.0	1000 to 1250	1400 to 1750
59	Pumpkin	1.8 to 2.4	5.5 to 7.5	900 to 1200	1260 to 1680

60	Radish	1.6 to 2.2	6.0 to 7.0	800 to 1100	1120 to 1540
61	Red Currant	1.4 to 1.8	6	700 to 900	980 to 1260
62	Rhubarb	1.6 to 2.0	5.5 to 6.0	800 to 1000	1120 to 1400
63	Rose	1.5 to 2.5	5.5 to 6.0	750 to 1250	1050 to 1750
64	Rosemary	1.0 to 1.6	5.5 to 6.0	500 to 800	700 to 1120
65	Sage	1.0 to 1.6	5.5 to 6.5	500 to 800	700 to 1120
66	Silverbeet	1.8 to 2.3	6.0 to 7.0	900 to 1150	1260 to 1610
67	Spinach	1.8 to 2.3	6.0 to 7.0	900 to 1150	1260 to 1610
68	Squash (Summer)		5.0 to 6.5		
69	Squash (Winter)		5.0 to 6.5		
70	Strawberry	1.8 to 2.2	6	900 to 1100	1260 to 1540
71	Sweet Corn	1.6 to 2.4	6	800 to 1200	1120 to 1680
72	Sweet Potato	2.0 to 2.5	5.5 to 6.0	1000 to 1250	1400 to 1750
73	Swiss Chard		6.0 to 6.5		
74	Taro	2.5 to 3.0	5.0 to 5.5	1250 to 1500	1750 to 2100
75	Thyme	0.8 to 1.6	5.5 to 7.0	400 to 800	560 to 1120
76	Tomato	2.0 to 4.0	6.0 to 6.5	1000 to 2000	1400 to 2800
77	Turnip	1.8 to 2.4	6.0 to 6.5	900 to 1200	1260 to 1680
78	Watercress	0.4 to 1.8	6.5 to 6.8	200 to 900	280 to 1260
79	Watermelon	1.5 to 2.4	5.8	750 to 1200	1050 to 1680
80	Zucchini	1.8 to 2.4	6	900 to 1200	1260 to 1680

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