

Potting Media Comparisons with Saturated Media Extract Test Results (March 2018)

UK Horticulture Research Farm
Steve Diver, Farm Superintendent

		pH	EC	NO3-N	P	Ca	Mg	K	Na	B	Fe	Mn	Cu	Zn
		mmho/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Desired Range-1		5.5—6.5	0.2—1.5	40—120	2—20	30—120	20—75	35—300	4—80	0.2—0.8	0.0—1.0			
Desired Range-2	Sample ID	5.5—7.0	3.5 to 10 max	30—250	5—50	20—200	20—100	175—250		0.05—0.5	0.3—3.0	0.02—3.0	0.1—0.5	0.3—3.0
Raw Horticultural Media														
Berger Peat Moss (BPM)	PM13	3.8	0.6	2	4.9	8.5	9.3	11.1	7.2	0.1	28.4	0.4	0.1	2.4
Pro-Moss (Pro-Moss)	PM25	4.2	0.3	1	0.2	57.0	22.5	2	2.6	0.0	30.4	3.9	0	0.6
Morton Vermiculite (MVL)	PM15	7.9	2.6	123	19.6	290.8	209.7	170.4	14.9	0.7	3.3	3.9	2.1	2.6
ThermoRock Vermiculite (TRVL)	TR03	9.3	0.3	2	1	18.8	33.5	40.0	13.8	0.0	21.9	6.9	1.6	0.4
Rice Hulls (RH)	PM23	6.1	0.9	3	78.4	13.8	24.8	254.9	5.1	0.1	1.0	23.1	0.1	1.2
Vermicomposts, Dairy Manure Bedding, Azolla Biomass														
Worm Power Vermicompost (WVC)	PM17	6.9	56.2	4618	65.5	1464.4	1134.5	13,083.7	3520.9	1.1	7.6	3.8	28.7	39.4
Prather Worm Castings (PWC)	TR07	8.4	5.4	379	7.7	133.9	80.9	1667.3	28.0	0.8	33.7	0.1	0.4	12.5
Coldstream Dairy Manure Bedding (CDMB)	TR09	9.9	26.3	27	96.3	65.6	138.4	5942.6	2282.4	1.3	30.2	45.8	1.8	28.9
Azolla Dried Biomass	TR19	5.9	12.9	13	810.2	120.8	540.3	1958.8	1349.5	0.4	16.6	7.6	1.2	6.7
Commercial Potting Mixes														
Pro-Mix Organik (ORG)	PM01	6.0	1.5	3	19.9	61.6	13.2	200.8	71.1	0.2	8.0	4.4	0.2	1.2
Pro-Mix BX (CONV)	TR01	5.8	0.9	2	23.4	152.5	26.7	74.8	19.1	0.2	7.6	6.0	0.5	4.0
Jiffy Mix (CONV)	PM21	6.1	1.1	54	9.7	102	117.8	43.4	36.7	0.1	14.9	7.1	0.6	0.8
Vermont Compost Co--Fort Lite (ORG)	PM19	5.6	7.5	602	36.5	1016.1	170.8	573.4	227.4	0.2	29.1	22.2	0.8	4.9
		pH	EC	NO3-N	P	Ca	Mg	K	Na	B	Fe	Mn	Cu	Zn
		mmho/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Desired Range-1		5.5—6.5	0.2—1.5	40—120	2—20	30—120	20—75	35—300	4—80	0.2—0.8	0.0—1.0			
Desired Range-2		5.5—7.0	3.5 to 10 max	30—250	5—50	20—200	20—100	175—250		0.05—0.5	0.3—3.0	0.02—3.0	0.1—0.5	0.3—3.0
Homemade Base Mix: Peat Moss & Vermiculute														
BPM + MVL 60:40 Base Mix	PM03	6.3	1.5	54	5	104.1	114.6	82.4	13.8	0.2	8.8	10.7	1.1	1.8
Pro-Moss + TRVL 70:30 Base Mix	TR05	5.8	0.4	1	0.6	35.6	25.8	37.9	8.7	0.0	34.9	7.9	1.2	0.8
Homemade Base Mix plus Vermicomposts and Dairy Manure Bedding														
BPM + MVL + WVC 40:40:20	PM05	5.9	11.7	991	117.2	434.6	353.4	1839.5	564.9	0.8	9.2	8.7	10.5	10.5
Pro-Moss + TRVL 70:30 PWC 10%	TR13	5.9	0.8	21	4.8	44.4	27.4	174.4	11.0	0.3	35.0	5.9	1.0	2.2
Pro-Moss + RH 70:30 CDMB 10%	TR15	6.8	3.4	4	117.7	109.7	55.5	602.4	245.4	0.3	16.9	28.5	0.1	4.7
Best Peforming Mixes														
Vermont Compost Co--Fort Lite	PM19	5.6	7.5	602	36.5	1016.1	170.8	573.4	227.4	0.2	29.1	22.2	0.8	4.9
BPM + MVL + WVC 40:40:20	PM05	5.9	11.7	991	117.2	434.6	353.4	1839.5	564.9	0.8	9.2	8.7	10.5	10.5
Pro-Moss + RH 70:30 CDMB 10%	TR15	6.8	3.4	4	117.7	109.7	55.5	602.4	245.4	0.3	16.9	28.5	0.1	4.7
Pro-Moss + TRVL 70:30 PWC 10%	TR13	5.9	0.8	21	4.8	44.4	27.4	174.4	11.0	0.3	35.0	5.9	1.0	2.2