

## Crop Density in Propagation & Ellepots

- 1 Increase crop density without increasing space
- 2 Maintain or improve crop quality
- 3 Turn the propagation space over more quickly

### RESULT

- Reduced cost
- Added revenue
- Improved profit
- Better plants

### In addition, you could:

- Grow a larger crop volume
- Grow a second crop
- Add a turn to the greenhouse
- Use less space for propagation and more for finishing

### How can we do this?

- A simple increase in crop density allows you to grow more plants in the same space
- Increases can range from 10% to 100% depending on the crop
- Growing as good or better plants is key

### EXAMPLES:

Current Tray	Switch To	Plant Increase /Tray	% Increase In Plant Volume/ Tray	Plant Increase/m <sup>2</sup>	m <sup>2</sup> /10,000 Plants (previous)	m <sup>2</sup> /10,000 Plants (new)	% Increase In Plants/m <sup>2</sup>	
144	209	65	45.1%	457	9.88	6.81	45.14%	Standard Size Trays - Unless Specified
128	209	81	63.3%	569	11.11	6.81	63.28%	
128	144	16	12.5%	112	11.11	9.88	12.50%	
105	209	104	99.0%	731	13.55	6.81	99.05%	
105	144	39	37.1%	274	13.55	9.88	37.14%	
105	128	23	21.9%	162	13.55	11.11	21.90%	
102	209	107	104.9%	752	13.95	6.81	104.90%	
102	144	42	41.2%	295	13.95	9.88	41.18%	
102	128	26	25.5%	183	13.95	11.11	25.49%	
102	105	3	2.9%	21	13.95	13.55	2.94%	
78	102	24	30.8%	169	18.24	13.95	30.77%	
78	105	27	34.6%	190	18.24	13.55	34.62%	
78	128	50	64.1%	351	18.24	11.11	64.10%	
72	128	56	77.8%	394	19.76	11.11	77.78%	
72	105	33	45.8%	232	19.76	13.55	45.83%	
72	102	30	41.7%	211	19.76	13.95	41.67%	
72	78	6	8.3%	42	19.76	18.24	8.33%	
55	72	17	30.9%	119	25.87	19.76	30.91%	
50	105	55	110.0%	387	28.45	13.55	110.00%	
50	102	52	104.0%	366	28.45	13.95	104.00%	
50	78	28	56.0%	197	28.45	18.24	56.00%	

Current Tray	Switch To	Plant Increase /Tray	% Increase In Plant Volume/ Tray	Plant Increase/m <sup>2</sup>	m <sup>2</sup> /10,000 Plants (previous)	m <sup>2</sup> /10,000 Plants (new)	% Increase In Plants/m <sup>2</sup>	
50	72	22	44.0%	155	28.45	19.76	44.00%	Standard Size Trays - Unless Specified
50	55	5	10.0%	35	28.45	25.87	10.00%	
32	72	40	125.0%	281	44.46	19.76	125.00%	
32	55	23	71.9%	162	44.46	25.87	71.88%	
32	50	18	56.3%	127	44.46	28.45	56.25%	
32	38	6	18.8%	42	44.46	37.44	18.75%	
32	25	-7	-21.9%	-49	44.46	56.24	-20.95%	32 Standard Tray vs RootSmart™
32	50	18	56.3%	119	47.25	28.45	66.05%	Air Tray 32 Deep vs 50 Star Deep
32	25	-7	-21.9%	-46	47.25	56.24	-15.99%	Air Tray 32 Deep vs RootSmart™
24	50	26	108.3%	163	66.41	28.45	133.40%	24 Deep Ellepot vs 50 Standard Tray
24	32	8	33.3%	50	66.41	44.46	49.38%	24 Deep Ellepot vs 50 Standard Tray
24	32	8	33.3%	50	66.41	47.25	40.56%	24 Deep Ellepot vs Air Tray 32 Deep
24	25	1	4.2%	6	66.41	56.24	18.08%	24 Deep Ellepot vs RootSmart™
18	38	20	111.1%	155	71.68	37.44	91.47%	18T Ellepot Tray vs 38 Standard Tray
18	32	14	77.8%	109	71.68	44.46	61.24%	18T Ellepot Tray vs 32 Standard Tray
18	25	7	38.9%	54	71.68	56.24	27.46%	18T Ellepot Tray vs RootSmart™
18	38	20	111.1%	141	79.04	37.44	111.11%	
18	32	14	77.8%	98	79.04	44.46	77.78%	
18	25	7	38.9%	49	78.12	51.61	51.35%	18 Standard Tray vs RootSmart™
18	18	0	0.0%	13	79.04	71.68	10.26%	18 Standard Tray vs 18T Ellepot Tray
18	25	7	38.9%	47	82.83	56.24	47.28%	Air Tray 18 Deep vs RootSmart™
15	32	17	113.3%	110	103.42	44.46	132.63%	15 Tray Ellepot vs 32 Standard Tray
15	25	10	66.7%	70	99.40	56.24	76.73%	15 Tray Ellepot vs RootSmart™
15	18	3	20.0%	19	103.42	79.04	30.85%	15 Tray Ellepot vs 18 Standard Tray
15	18	3	20.0%	19	103.42	82.83	24.86%	15 Tray Ellepot vs Air Tray 18 Deep
10	32	22	220.0%	196	112.20	44.46	152.36%	10 Tray Ellepot vs 32 Standard Tray
10	25	15	150.0%	134	112.20	56.24	99.48%	10 Tray Ellepot vs RootSmart™
10	18	8	80.0%	71	112.20	79.04	41.95%	10 Tray Ellepot vs 18 Standard Tray
10	18	8	80.0%	71	112.20	82.83	35.45%	10 Tray Ellepot vs Air Tray 18 Deep
10	15	5	50.0%	45	112.20	103.42	8.48%	10 Tray Ellepot vs 15 Tray Ellepot

Standard Size Plug Tray	= 220.50 sq in = 0.14226 m <sup>2</sup>	7.029 trays/m <sup>2</sup>
RootSmart™ 25 Tray	= 217.95 sq in = 0.14061 m <sup>2</sup>	7.112 trays/m <sup>2</sup>
Air Tray 18 Deep	= 231.10 sq in = 0.14910 m <sup>2</sup>	6.707 trays/m <sup>2</sup>
18T Ellepot Tray	= 200.00 sq in = 0.12903 m <sup>2</sup>	7.750 trays/m <sup>2</sup>
Air Tray 32 Deep	= 234.36 sq in = 0.15120 m <sup>2</sup>	6.614 trays/m <sup>2</sup>
24 Deep Ellepot	= 247.05 sq in = 0.15939 m <sup>2</sup>	6.274 trays/m <sup>2</sup>
15 Tray Ellepot	= 240.46 sq in = 0.15514 m <sup>2</sup>	6.446 trays/m <sup>2</sup>
10 Tray Ellepot	= 173.91 sq in = 0.11220 m <sup>2</sup>	8.913 trays/m <sup>2</sup>



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