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GARDENING MATH ESSENTIALS

YOUR GREEN THUMB COMPANION

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GROWING MIX POTTING GUIDE

Note: This potting guide outlines approximately how many units can be filled using 1 x 3.8 cu. ft. bale of soil-less growing mix at each given unit size (results may vary).

CELL PACKS					HANGING BASKETS				
Size	Top	Height	Volume (Cu. In.)	Fills Approx. # Trays	Size	Top	Height	Volume (Cu. In.)	Fills Approx. # Baskets
606D	10x20	3.25"	323	39	8"	8.75"	5.5"	178	71
804	10x20	2.75"	316	40	10"	10.75"	6.75"	329	38
806	10x20	2.75"	281	45	11"	11.75"	7.25"	400	31
1004	10x20	2.625"	292	43	12"	12.75"	7.5"	550	23
1201	10x20	2.75"	359	35	AZALEA POTS				
1203	10x20	2.5"	320	39					
1204	10x20	2.25"	264	48					
1206	10x20	2.75"	238	53					
1801	10x20	3.125"	398	32					
1803	10x20	2.75"	217	58					
STANDARD ROUND POTS									
					3"	3"	2.75"	14	900
3.5"	3.5"	3"	20	638	5"	5"	3.5"	37	340
4"	4"	3.5"	28	454	5.5"	5.5"	4.25"	47	271
4.5"	4.5"	3.75"	40	317	6"	6"	4.25"	81	157
5"	5"	5"	66	193	7"	7"	5"	127	100
6"	6"	5.75"	112	114	8"	8"	5.625"	189	67
8"	8"	2.25"	231	55	10"	10"	7.25"	376	34
SQUARE POTS					PERENNIAL & NURSERY CONTAINERS				
					Size	Top	Height	Volume (Cu. In.)	Fills Approx. # Containers
3.5"	3.5"	2.875"	30	424	3.5"	3.5"	4"	34	375
4"	4"	3.5"	39	326	4.5"	4.5"	5"	58	220
4.5"	4.25"	3.875"	57	224	5.5"	5.375"	6.125"	124	103
5.5"	5.375"	5.25"	102	125	1 Quart	4.5"	5"	58	220
					1 Gallon	6.25"	6.375"	146	87
					300	6.5"	7"	173	73
					600	8.5"	8.5"	462	27
					1200	11"	9.625"	692	18

GENERAL FERTILIZER DILUTION

Note: This example uses Peters Professional 20-20-20 general purpose fertilizer. For all other fertilizers, please refer to their products information sheet.

Weight (in ounces) of Product Needed to Mix One Gallon of Concentrate							Gallons of Water Required to Dissolve One 25 lbs Bag of Fertilizer						
Target Fertilizer Concentration (N/ppm) After Dilution	Common Injector Ratios (ounces)					EC (mmhos/cm) of Target Feed Rate After Dilution	Target Fertilizer Concentration (N/ppm) After Dilution	Common Injector Ratios (gallons)					EC (mmhos/cm) of Target Feed Rate After Dilution
	1:15	1:00	1:128	1:200	1:300			1:15	1:00	1:128	1:200	1:300	
25	0.3	1.7	2.2	3.4	5.1	0.10	25	1580.2	237.0	185.2	118.5	79.0	0.10
50	0.5	3.4	4.3	6.8	10.1	0.21	50	790.1	118.5	92.6	59.3	39.5	0.21
75	0.8	5.1	6.5	10.1	15.2	0.31	75	526.7	79.0	61.7	39.5	26.3	0.31
100	1.0	6.8	8.6	13.5	20.2	0.41	100	395.1	59.3	46.3	29.6	19.8	0.41
125	1.3	8.4	10.8	16.9	25.3	0.51	125	316.1	47.4	37.0	23.7	15.8	0.51
150	1.5	10.1	13.0	20.3	30.4	0.62	150	263.4	39.5	30.9	19.8	13.2	0.62
175	1.8	11.8	15.1	23.6	35.4	0.72	175	225.7	33.9	26.5	16.9	11.3	0.72
200	2.0	13.5	17.3	27.0	40.5	0.82	200	197.5	29.6	23.1	14.8	9.9	0.82
250	2.5	16.9	21.6	33.8	50.6	1.03	250	158.0	23.7	18.5	11.9	7.9	1.03
300	3.0	20.3	25.9	40.5	***	1.23	300	131.7	19.8	15.4	9.9	***	1.23
350	3.5	23.6	30.2	47.3	***	1.44	350	112.9	16.9	13.2	8.5	***	1.44
400	4.1	27.0	34.6	54.0	***	1.64	400	98.8	14.8	11.6	7.4	***	1.64
450	4.6	30.4	38.9	***	***	1.85	450	87.8	13.2	10.3	***	***	1.85
500	5.1	33.8	43.2	***	***	2.05	500	79.0	11.9	9.3	***	***	2.05
600	6.1	40.5	51.8	***	***	2.46	600	65.8	9.9	7.7	***	***	2.46
*** Exceeds Maximum Solubility							*** Exceeds Maximum Solubility						

CONVERSION A

LIQUID VOLUME CONVERSIONS		
Convert From	Multiply (x)	Converted To
Millilitres	1	cc
Ounces	29.57	Millilitres
	6	Teaspoon
	2	Tablespoons
Teaspoon	4.93	Millilitres
	0.167	Ounces
Tablespoon	14.785	Millilitres
	0.5	Ounces
	3	Teaspoon
	16	Cup
Cup	237.56	Millilitres
	8	Ounces
Pints	473.2	Millilitres
	16	Ounces
	2	Cups
Quarts	946.24	Millilitres
	0.94624	Litres
	32	Ounces
	4	Cups
	2	Pints
Gallons (US)	0.8327	Imperial Gallons
	16	Cups
	8	Pints
	4	Quarts
	128	Fluid Ounces
	3.785	Litres
	3785	Millilitres
Gallons (Imperial)	1.20094	US Gallons
	4.546	Litres
Litres	61.024	Cubic Inches
	0.22642	US Gallons
	0.2200	Imperial Gallons
Ounces, Fluid	1.8046	Cubic Inches
	0.02957	Litres
	29.6	Millilitres
Pound/Gallon	119.84	Grams/Litre
Grams/Litre	0.00834	Pound/Gallon
1 lb./1000 Gal	0.117	Grams/Litre

WEIGHT CONVERSIONS		
Convert From	Multiply (x)	Converted To
Ounce	28.3495	Grams
Grams	1000	Milligrams
	0.001	Kilograms
	0.035274	Ounce
	0.00225	Pounds
Pounds	453.6	Grams
	0.4536	Kilograms
	16	Ounce
	0.005	Ton (Short)
	0.000446	Ton (Long)
	0.000454	Ton (Metric)
Kilograms	1000	Grams
	35.2734	Ounces
	2.2046	Pounds
	0.0001	Ton (Short)
	0.0011	Ton (Long)
Ton (Short)	0.00098	Ton (Metric)
	2000	Pound
	0.893	Ton (Long)
	0.9135	Ton (Metric)
Ton (Long)	2239.642	Pounds
	1.1198	Ton (Short)
	1.0162	Ton (Metric)
Ton (Metric)	2204	Pounds
	1000	Kilograms
	1.1023	Ton (Short)
	0.984	Ton (Long)

PRESSURE CONVERSIONS		
Convert From	Multiply (x)	Converted To
Atmosphere	14.7	PSI (lbs./in ²)
	1.03	Kg/cm ²
	101.325	Kilopascals (kPa)
Pounds/Square Inch (PSI)	0.06805	Atmospheres
	0.1451	Kilopascals (kPa)
	0.0701	Kg/cm ²
Kilopascals (kPa)	0.001	Atmospheres
	8.34	PSI (lbs./in ²)
	8.34	Kg/cm ²
	0.06805	Atmospheres
Kg/cm ²	0.1451	Kilopascals (kPa)
	0.0701	PSI (lbs./in ²)

PARTS PER MILLION (PPM) CONVERSION					
Convert From	Multiply (x)	Converted To	Convert From	Multiply (x)	Converted To
Grams/Litre	1000	PPM	PPM	0.001	Grams/Litre
Milligrams/Litre	1	PPM	PPM	8.34	Pounds/Million Grams

CONVERSION B

TEMPERATURE CONVERSION

Convert From	Calculate	Converted To
Celsius	(Item # x 1.8) + 32	Fahrenheit
Fahrenheit	(Item # x 0.5556) x (-32)	Celsius

AREA CONVERSIONS

Convert From	Multiply (x)	Converted To
Meters ²	0.0001	Hectares
	1550	Inches ²
	10.77	Feet ²
Inches ²	6.452	Centimeters ²
Feet ²	929.0304	Centimeters ²
	144	Meters ²
	0.0929	Inches ²
Yard ²	9	Feet ²
	0.8361	Meters ²
Hectares	10,000	Meters ²
	100	Kilometers ²
	2.471	Acres
Kilometers ²	0.386	Miles ²
	0.01	Hectares
	0.004047	Acres
Miles ²	259	Hectares
	2.590	Kilometers ²
	640	Acres
Acre	43,560	Feet ²
	4840	Yards ²
	4047	Meters ²
	0.4047	Hectares
	247.097	Kilometers ²

SOLUTION CONVERSION

Convert From	Multiply (x)	Converted To
Litres/Hectare	0.09	Gallons/Acre
	0.36	Quarts/Acre
	0.854	Pints/Acre
Pints/Acre	1.17	Litres/Hectare
Millilitres/Hectare	0.015	Fluid Oz./Acre
Millilitres/100 Meters	0.0314	Fluid Oz./1000ft
Grams/Hectare	0.015	Ounces/Acre
Grams/100 Meters	0.327	Ounces/1000ft
Kilograms/Hectare	0.89	Pounds/Acre

DISTANCE / LENGTH CONVERSIONS

Convert From	Multiply (x)	Converted To
Centimeters	0.3917	Inches
	91.44	Yards
Inches	2.540	Centimeters
Feet	30.480	Centimeters
	0.30480	Meters
	12	Inches
Yards	0.3333	Yards
	0.9144	Meters
Meters	3.281	Feet
	39.37	Inches
	1.0936	Yards
Kilometers	3280.99	Feet
	1093.66	Yards
	0.6214	Miles
Miles	1000	Meters
	5280	Feet
	1760	Yards
	1609.3	Meters
	1.6093	Kilometers

VOLUME CAPACITY CONVERSION

Convert From	Multiply (x)	Converted To
Cubic Inch	16.387	Cubic Centimeter
Cubic Feet	1728	Cubic Inches
	0.02832	Cubic Meters
	28.32	Litres
	7.481	Gallons (US)
	6.229	Gallons (Imperial)
	0.80357	Bushels
Cubic Yards	27	Cubic Feet
	46.656	Cubic Inches
	21.696	Bushels
	0.7646	Cubic Meters
	201.97	Gallons (US)
	168.17	Gallons (Imperial)
Gallons (Imperial)	764.6	Litres
	4546	Meters
Gallons (US)	0.16054	Feet
	3785	Yards
	0.13368	Meters
	231	Kilometers