"You can't improve an optimum result"





by **Bob**: Kitesurfer & **Grower**

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		Cultivation	Light / Day	coco	RHIZOTONIC	CANNAZYM	CANNABOOST	PK 13/14	EC +	EC Total
		period In weeks	In hours	ml/ 10 litres	ml/ 10 litres	ml/ 10 litres	ml/ 10 litres	ml/ 10 litres	in m\$/cm	in mS/cm
	VEGETATIVE PHASE									
GROWTH	Start / rooting (3 - 5 days) Make the substrate wet	<1	18	15-25	40				0.7-1.1	1.1-1.5
HIM	Vegetative phase I Plants develop in volume	0-3 ¹	18	20-30	20	25			0.9-1.3	1.3-1.7
	Vegetative phase II - Up to growth stagnation after fructification or appearance of the formation of flowers	2-4 ²	12	25-35	20	25	20 ⁵	-	1.1-1.5	1.5-1.9
	GENERATIVE PHASE									
FLOV	Generative Period I - Flowers or fruits develop in length. Growth in height achieved	2-3	12	30-40	5	25	20-40	-	1.4-1.8	1.8-2.2
FLOWERING	Generative period II - Development of the volume (breadth) of flowers or fruit	1	12	30-40	5	25	20-40	15	1.6-2.0	2.0-2.4
	Generative Period III - Development of the mass (weight) of flowers or fruit	2-3	12	20-30	5	25	20-40	-	1.0-1.4	1.4-1.8
	Generative Period IV - Flowers or fruit ripening process	1-2	10-12 ³	-		25-50 ⁴	20-40	-	0.0	0.4

- 1. This period varies depending on the species and number of plants per m2. Mother plants remain in this phase until the end (6 12 months).
- 2. The changeover from 18 to 12 hours varies depending on the variety. The rule of thumb is to change after 2 weeks.
- 3. Reduce hours of light if ripening goes too fast.
 Watch out for increasing Relative Humidity
- 4. Double CANNAZYM dosage to 50 ml/10 litres, if substrate is reused.
- 20 ml/10 litres standard. Increase to a maximum of 40 ml/10 litres for extra flowering power
- EC: EC+ value is based in mS/cm when EC water = 0.0 by 25°C, pH 6.0 Add the EC of the tap water that is used to the recommended EC! The EC total in the example is with tap water with an EC of 0.4
- pH: Recommended pH is between 5.5 and 6.2 Adding pH- can increase EC.

Use pH- grow in the vegetative as in the generative phase to lower the pH. $\,$



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		Cultivation	Light / Day	Buffer-agent			RHIZOTONIC	CANNAZYM	CANNABOOST	PK 13/14	EC +	EC Total
		period in weeks	in hours	ml/ 10 litres	ml A/ 10 litres ml B/ 10 litres	ml A/ 10 litres ml B/ 10 litres	ml/ 10 litres	ml/ 10 litres	ml/ 10 litres	ml/ 10 litres	in mS/cm	in m\$/cm
	VEGETATIVE PHASE								AL INC			
GROWIH	Start / rooting (3 –5 days) Make substrate wet	<1	18	20			40				1,0	1,4
HTW	Vegetative phase I. Plants develop in volume	0-31	18		25-35	·	20	25			0,9-1,3	1,3-1,7
	Vegetative phase II. - Up to growth stagnation after fructification or appearance of the formation of flowers	2-4 ²	12		30-40	-	20	25	20 ⁵	-	1,2-1,6	1,6-2,0
	GENERATIVE PHASE											
FLOV	Generative Period I. - Flowers or fruits develop in length. Growth in height achieved	2-3	12			35-45	5	25	20-40	-	1,4-1,8	1,8-2,2
FLOWERING	Generative Period II Development of the volume (breadth) of flowers or fruit	1	12			35-45	5	25	20-40	15	1,5-1,9	1,9-2,3
	Generative Period III Development of the mass (weight) of flowers or fruit	2-3	12			30-40	5	25	20-40	-	1,1-1,5	1,5-1,9
	Generative Period IV Flowers or fruit ripening process	1-2	10-12 ³			-		25-50 ⁴	20-40	-	0,0	0,4

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Reduce hours of light if ripening goes too fast.
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4. Double CANNAZYM dosage to 50 ml/10 litres, if substrate is reused.

5. 20 ml/ 10 litres standard. Increase to a maximum of 40 ml/10 litres for extra flowering power

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pH: Recommended pH is between 5.5 and 6.2 Adding pH- can increase EC.

Use pH- grow in the vegetative phase to lower the pH. Use pH- bloom in the generative phase to lower the pH.



"The decision to grow for ourselves was made quickly!"





by Brian: Hedonist & Grower

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4	THE WALL THE TANK	Cultivation period In weeks	Light / Day In hours	Terra Vega ml/ 10 litres	Terra Flores ml/ 10 litres	RHIZOTONIC ml/ 10 litres	CANNAZYM ml/ 10 litres	CANNABOOST ml/ 10 litres	PK 13/14 ml/ 10 litres	EC + in mS/cm	EC Total in mS/cm
	VEGETATIVE PHASE		and the		A CONTRACTOR	Market N		No. of the		Manager 1	
GROWTH	Start / rooting (3 –5 days) - Make the substrate wet	<1	18	15-35	-	40			-	0.4-0.8	0.8-1.2
HIM	Vegetative phase I Plant develops in volume	0-31	18	30-50		20	25			0.7-1.1	1.1-1.5
	Vegetative phase II - Up to growth stagnation after fructification or appearance of the formation of flowers	2-4 ²	12	35-55	-	20	25	20 ⁵	-	0.9-1.3	1.3-1.7
7	GENERATIVE PHASE	7			3 1						
FLOW	Generative Period I - Flowers or fruits develop in length. Growth in height achieved	2-3	12		50-70	5	25	20-40	- 100 A 1100A	1.2-1.6	1.6-2.0
FLOWERING	Generative period II - Development of the volume (breadth) of flowers or fruit	1	12		50-70	5	25	20-40	15	1.5-1.9	1.9-2.3
	Generative Period III - Development of the mass (weight) of flowers or fruit	2-3	12		40-60	5	25	20-40	-	1.0-1.4	1.4-1.8
	Generative Period IV - Flowers or fruit ripening process	1-2	10-12 ³		-	-	25-504	20-40	-	0.0	0.4

This period varies depending on the species and number of plants per m2.
 Mother plants remain in this phase until the end (6 – 12 months).



^{2.} The changeover from 18 to 12 hours varies depending on the variety. The rule of thumb is to change after 2 weeks.

^{3.} Reduce hours of light if ripening goes too fast. Watch out for increasing Relative Humidity

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pH: Recommended pH is between 5.8 and 6.2 Adding pH- can increase EC.

Use pH- grow in the vegetative phase to lower the pH Use pH- bloom in the generative phase to lower the pH

"As soon as the pH drops towards 5.2 the plants show that they want to flower"





by Jeff: Mountaineer & Grower

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		Cultivation	Light / Day	Aqua Vega	Aqua Flores	RHIZOTONIC	CANNAZYM	CANNABOOST	PK 13/14	EC +	EC Total
		period In weeks	In hours	ml/ 10 litres	ml/ 10 litres	mI/ 10 litres	ml/ 10 litres	ml/ 10 litres	ml/ 10 litres	in m\$/cm	in mS/cm
	VEGETATIVE PHASE										
GROWTH	Start / rooting (3 –5 days) - Make the substrate wet	<1	18	15-25		40				0.7-1.1	1.1-1.5
HTW	Vegetative phase I - Plants develop in volume	0-3 ¹	18	20-30		20	25			0.9-1.3	1.3-1.7
Г	Vegetative phase II - Up to growth stagnation after fructification or appearance of the formation of flowers	2-4 ²	12	25-35		20	25	20 ⁵	-	1.2-1.6	1.6-2.0
	GENERATIVE PHASE										
판	Generative Period I - Flowers or fruits develop in length. Growth in height achieved	2-3	12		30-40	5	25	20-40	-	1.4-1.8	1.8-2.2
×		2.7						100			
FLOWERING	Generative period II - Development of the volume (breadth) of flowers or fruit	1	12	-	30-40	5	25	20-40	15	1.6-2.0	2.0-2.4
47	Generative Period III - Development of the mass (weight) of flowers or fruit	2-3	12		20-30	5	25	20-40	-	1.0-1.4	1.4-1.8
	Generative Period IV - Flowers or fruit ripening process	1-2	10-12 ³	-			25-50 ⁴	20-40	-	0.0	0.4

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"It's important that the EC doesn't rise to much in the slabs"





by Karel: Gardener &Grower

										-	
		Cultivation period In weeks	Light / Day In hours	Hydro Vega ml A/ 10 litres ml B/ 10 litres	Hydro Flores ml A/ 10 litres ml B/ 10 litres	RHIZOTONIC ml/ 10 litres	CANNAZYM ml/ 10 litres	CANNABOOST ml/ 10 litres	PK 13/14 ml/ 10 litres	EC + in mS/cm	EC Total in mS/cm
GROWTH	VEGETATIVE PHASE Start / rooting (3 –5 days) Make the substrate wet	<1	18	10-20	·	40				0.7-1.1	1.1-1.5
HTW	Vegetative phase I Plants develop in volume	0-31	18	15-25	·	20	25		·	0.9-1.3	1.3-1.7
FLOWERING	Vegetative phase II - Up to growth stagnation after fructification or appearance of the formation of flowers	2-42	12	20-30	·	20	25	20 ⁵	-	1.2-1.6	1.6-2.0
	GENERATIVE PHASE Generative Period I - Flowers or fruits develop in length. Growth in height achieved	2-3	12		25-35	5	25	20-40	-	1.4-1.8	1.8-2.2
	Generative period II - Development of the volume (breadth) of flowers or fruit	1	12	-	25-35	5	25	20-40	15	1.5-1.9	1.9-2.3
	Generative Period III - Development of the mass (weight) of flowers or fruit	2-3	12	·	15-25	5	25	20-40	-	1.0-1.4	1.4-1.8
L	Generative Period IV - Flowers or fruit ripening process	1-2	10-12 ³	·		·	25-50 ⁴	20-40	-	0.0	0.4

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GROW

BLOOM

The same of the sa	ught per day	Bio Vega	Bio Flores	EHIZOTONIC	PIOPOO21
	(hours)	ml/GAL	ml/GAL	mi/GAL	ml/GAL
Start Root formation - Duration +/- 1 week	18	4 - 8	-	15	
Vegetative stage - Duration +/- 1 to 3 weeks fast growth	18/12	8 - 12	-	4 - 8	
Generative stage 1 - Durofion */- 1 to 2 weeks Growth stagnates first signs of trult formationpistels appear	12		12 - 15	2	15
Generative stage 2 - Duration */- 2 to 6 weeks Floral development spreads throughout the plant	12		12 - 15	2	8 - 152
100 - 100	11/11/11			7500	
Generative stage 3 - Duration +/- 1 to 2 weeks Increase in size	12				8 - 152

- 1. When to switch from 18 to 12 hours of light is dependent on the plant species. General rule of thumb is after 2 weeks.
- 2. Standard: 8 ml/Gal, for extra flowering strength 15 ml/Gal

Measuring pH and/or EC is needless in biological cultivation.

BIOCANNA nutrients are not recommended on bulk grade peat products that lack a nurient starter charge and longterm pH control. We advise to use Bio Terra Plus with our BIOCANNA nutrients.

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The Bio Solution for growth and bloom

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Adjusting the pH, when growing organic is not advised, as it can release the wrong nutrient elements at the wrong time.

Measuring the EC when growing organics is not necessary (EC measures the salts in a liquid) as organic nutrients are not salt-based it will give you an incorrect reading!

1 Give 20 ml per LOL for the most effective results; raise to 40ml per LOL for optimum results!

For more information on BIOCANNA ask for the BIOCANNA InfoPaper or download online.