



Nutrient Manual



BC NORTHERN LIGHTS
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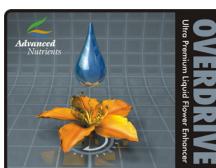
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Sensi (Grow and Bloom) is the quick and easy way to improve growth and quality of plants. This easy to use two-part formula contains special ratios of premium ingredients like calcium, iron and zinc. Sensi two-part has a comprehensive range of major and minor nutrients carefully arranged so your plants produce an exciting harvest of tasty flowers. These ingredients make stronger, healthier plants, resulting in a better platform for a higher-yielding bloom cycle.



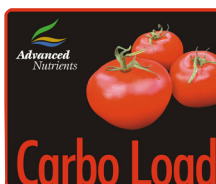
Big Bud Among the 18 amino acids in Big Bud are L-tryptophan and L-cysteine. Big Bud's L-amino acids stimulate floral production and provide increased resistance to stress, heat and disease. Although Big Bud is famous for its unique ability to quickly and massively increase flower size, it also gives you stronger plants. Big Bud makes flower structures form better so flowers have more aroma, taste and attractive appearance.



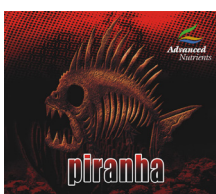
Overdrive contains special forms of folic acid that work on a genetic level to reprogram blooming plants so they produce larger flowers late in bloom. Overdrive also contains plant-friendly forms of Vitamin C. These special vitamins increase photosynthesis efficiency and strengthen plants against heat, high intensity lighting and stress.



Voodoo Juice is a miracle of plant science that unlocks the relationship between roots and harvest. Voodoo Juice greatly increases the intake of fertilizers, bloom boosters, carbohydrates and other bloom-enhancing formulas. Not only does Voodoo Juice make roots larger, hungrier and more efficient so you get stronger plants, it makes roots so strong and dense that diseases can't get a foothold.



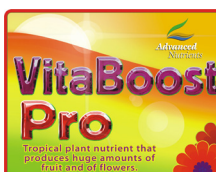
Carboload has all the essential sugars needed for maxed out, energy-rich blooming. This formula combines perfectly with other bloom additives, fits well with an all-organic feed program, and is very effective at maintaining growth and improving flavor. Carbo Load gets rid of carbohydrate depletion so you get better bloom production for larger harvests faster.



Piranha contains organic beneficial fungi that create faster hydroponic growth and bigger yields. It's the only beneficial fungi formula to receive official approval from OMRI- the Organic Materials Review Institute. Piranha helps roots uptake nutrients faster, and turns root zone debris into nutrients. Piranha's beneficial fungi protect crops safely and easily.



Bud Blood pushes a biological button that catapults your plants into bloom cycle exactly when you want it to happen. Instead of changing your lights to 12 hour cycles and waiting, waiting, waiting for plants to flower, just feed them Bud Blood, switch the lights and watch them start flowering.



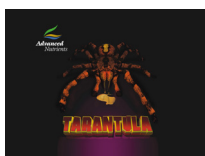
VitaBoost Pro is a multi-purpose booster that gives plants an energizing dose of vitamins, nutrients, natural hormones, antibiotics, enzymes, and root zone enhancers. VitaBoost Pro contains top-quality B vitamins, magnesium, calcium and other important components specifically designed to increase growth rates, yield, vigor and quality in vegetable, flower, and fruit crops.



Final Phase purges pollutants, toxins, fertilizer salts and other debris from inside your plants. Final Phase has flushing compounds that remove bad stuff while maintaining plant health and vigor so plants put out bigger, cleaner yields.



B52's B Vitamins make plants grow faster and use nutrients more efficiently, which gives you earlier harvests and decreased production costs. Plants fed B vitamins get boosts in energy, stress resistance and endurance, which means you get faster growth and bigger yields, even in the relentless conditions of today's high-tech gardens.



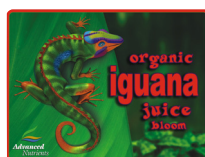
Tarantula's 19 types of beneficial bacteria form a bioactive shield that prevents predatory microscopic organisms from attacking and killing clones, mature plants and buds. Tarantula's exclusive beneficial organisms release natural substances that encourage flowering plants to produce extra buds, shorter growth and more branching. When there is debris in the root zone, Tarantula's organisms are there to digest the debris so it becomes nutrients and not pollution.



Sensi Zym accelerates growth of beneficial growth-stimulating microbes when used with Voodoo Juice, Tarantula and Piranha. Sensi Zym helps crops utilize water and water-borne elements, which increases growth, yield and drought resistance. Sensi Zym speeds maturation, cell replication, and harvest production.



Connoisseur Bloom Connoisseur's benefits include the stimulation of budding sites so plants produce more flowers. What's more, after this increased number of flowers has developed, Connoisseur makes flowers bigger, healthier and more stable so they better support large growth. Connoisseur stimulates production of volatile oils, aromatics and other compounds that give crops their taste, aroma and medicinal qualities.



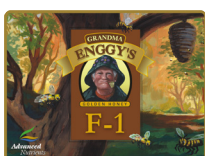
Iguana Juice is the only organic fertilizer that gives you all the many benefits of organic nutrition with none of the problems. Iguana has a lot more of what plants need like fish extract, guano, earthworm castings, yucca, krill, alfalfa, volcanic ash and other all-natural ingredients that spur metabolism, budding sites, floral development, and enhanced taste and aroma.



Scorpion Juice Plants vaccinated with Scorpion Juice are given advanced preparation so they can stand up to insects, disease, drought and stress. They'll rebound from attacks, keep growing strong, and give you the profitable harvest you're counting on.

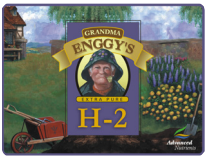


Organic B Just like weight lifters, plants need vitamins - especially B vitamins. B vitamins help plants handle stress, heat, and recovery time. B vitamins help plants repair and reproduce DNA. They help cells use nutrients, produce energy, and replicate.



Fulvic Acid Grandma's Fulvic Acid has been found to produce quicker nutrient absorption, nutrient transport, and more cellular metabolism than any other Fulvic extract. Grandma's Fulvic contains hydrogen, carbon, oxygen, nitrogen, phosphorus, sulfur, and complex chain acid compounds necessary for plant vigor and harvest potency.

Nutrient Descriptions



Humic Acid provides natural carrier compounds that transport nutrients and vitamins into plants more efficiently. Humic stimulates root branching, plant enzyme function, and plant immune systems. Grandma's extra-strength Humic can be used on foliage to provide a natural barrier to pests, pathogens and other attackers.

SPECIALTY PACKS



Mother Earth Tea (Grow and Bloom) Mother Earth Tea contains chlorophyll-rich alfalfa extract and at least 80 other beneficial organic substances. Earthworm castings, kelp and complex vitamins like potassium and phosphorus make for lush growth and fatter, tastier flowers.





SPECIALTY PACKS



Wet Betty Wet Betty's surfactants rocket nutrients and other growth enhancers directly into plants. She accelerates growth and makes plants bushier and healthier so they deliver larger than average yields, especially in indoor gardens under high intensity lighting.

SPECIALTY PACKS

Nutrient Packs

	Bronze Pack	SensiGrow A+B, SensiBloom A+B
	Silver Pack	SensiGrow A+B, SensiBloom A+B, Juicy Roots, Big Bud, Vitaboost
	Gold Pack	SensiGrow A+B, SensiBloom A+B, Juicy Roots, Big Bud, Overdrive, VoodooJuice, Carboload, Bud Blood, Final Phase, B-52
	Platinum Pack	SensiGrow A+B, Connoisseur Bloom A+B, Juicy Roots, Big Bud, Overdrive, Scorpion, VoodooJuice, Carboload, Piranha, Bud Blood, Final Phase, B-52, Tarantula, SensiZym
Specialty Packs		
Attack Pack		Piranha, Tarantula, Scorpion Juice, SensiZym
Organics Mechanics		Iguana Juice Grow & Bloom, Humic Acid, Fulvic Acid, Carboload, SensiZym, Piranha, Tarantula Voodoo Juice, GE Seaweed Extract , Organic B
Connoisseur Upgrade		Connoisseur A, Connoisseur B
Pest Control		Neem Oil, Wet Betty & Pump Sprayer w/ wand

BloomBox Feeding Schedule

When plants are approx. 1" tall, they can be hand watered with Week 1 @ ½ strength.

Below are custom feeding schedules for the majority of the Advanced Nutrients line. If you don't have some of the products you see in the recipe, don't panic. Add the products that you have in the according week.

You can buy all the below products, which will help with crop protection, but they are not a necessity. To try more of the products you see below or any questions, please contact your BCNL sales rep.

HELPFUL HINT We have done each recipe with ML being the unit of measurement. The unit of measurement on the measuring syringe is CC's. ML's and CC's are the same. CC = ML

WARNING If using Big Bud powder divide recipe amount by 10. (To get gram amount, see bottom of flowering schedule)

WARNING If using Carboload powder divide recipe amount by 3.33

WARNING If using Bud Blood, use 0.5g per liter and use on the first 2 weeks of flowering. DO NOT USE BUD BLOOD IF YOU ARE USING BUD IGNITOR. Use one or the other.

Bloombox Feeding Schedule VEG (3Gal/11L Tub)

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4	
PPM	100		200		300		400	
Product	ml/CC 1L	ml/CC 11L	ml/CC 1L	ml/CC 11L	ml/CC 1L	ml/CC 11L	ml/CC 1L	ml/CC 11L

Sensi Grow Part A	.34	4	.68	7	1	11	1.3	14
Part B	.34	4	.68	7	1	11	1.3	14
Total ppm A+B	<97>		<197>		<290>		<377>	
Voodoo Juice	2	22	2	22				
Total	<97>		<197>		<290>		<377>	

Bloombox Feeding Schedule VEG (6Gal/23L Tub)

Use This Chart When Using 36 Site VEG Lid

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4	
PPM	100		200		300		400	
Product	ml/CC 1L	ml/CC 23L	ml/CC 1L	ml/CC 23L	ml/CC 1L	ml/CC 23L	ml/CC 1L	ml/CC 23L

Sensi Grow Part A	.34	8	.68	16	1	24	1.3	30
Part B	.34	8	.68	16	1	24	1.3	30
Total ppm A+B	<97>		<197>		<290>		<377>	
Voodoo Juice	2	46	2	46				
Total	<97>		<197>		<290>		<377>	

Bloombox Feeding Schedule BLOOM (6Gal/23L Tub)

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4		5		6		7		8	
PPM	800		1000		1100		1200		1100		1000		800			
PRODUCT	ml/ CC 1L	ml/ CC 23L	ml/ CC 1L	ml/ CC 23L	ml/ CC 1L	ml/ CC 23L	ml/ CC 1L	ml/ CC 23L	ml/ CC 1L	ml/ CC 23L	ml/ CC 1L	ml/ CC 23L	ml/ CC 1L	ml/ CC 23L	ml/ CC 1L	ml/ CC 23L

Sensi Bloom Part A	2.75	63	3	69	3.25	75	3.5	80	3.25	75	2.5	57	2	46		
Part B	2.75	63	3	69	3.25	75	3.5	80	3.25	75	2.5	57	2	46		
Connoisseur Part A	2.75	63	3	69	3.25	75	3.5	80	3.25	75	2.5	57	2	46		
Part B	2.75	63	3	69	3.25	75	3.5	80	3.25	75	2.5	57	2	46		
CarboLoad	2	46	2	46	2	46	2	46	2	46	2	46	2	46		
Big Bud			2	46	2	46	2	46	2	46						
Voodoo Juice	2	46	2	46												
Overdrive											2	46	2	46		
Vita Boost Pro					2	46	2	46	2	46	2	46	2	46		
Piranha	2	46	2	46												
Bud Candy	2	46	2	46	2	46	2	46	2	46	2	46	2	46		
Final Phase															2	46
Tarantula	2	46	2	46												
Nirvana					2	46	2	46	2	46	2	46	2	46		
Sensizym	2	46	2	46	2	46	2	46	2	46	2	46	2	46		
Bud Ignitor	2	46	2	46												
Rhino Skin	2	46	2	46	2	46	2	46	2	46	2	46	2	46		
Bud Factor X	2	46	2	46	2	46	2	46	2	46	2	46	2	46		
B 52					2	46	2	46	2	46	2	46	2	46		

For weeks 6, 7, and 8, if you are not using Overdrive, use Big bud, but at half of the week 5 strength.

Mother Maintenance - Per Hydro Pot - 2L or 1/2 Gal Water

Same Every Week (after week 3 of veg)

Sensi Grow A 2 ml/cc
Sensi Grow B 2 ml/cc



Producer Feeding Schedule

Producer Feeding Schedule VEG (9Gal/34L Tub)

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4	
PPM	100		200		300		400	
Product	ml/CC 1L	ml/CC 34L	ml/CC 1L	ml/CC 34L	ml/CC 1L	ml/CC 34L	ml/CC 1L	ml/CC 34L

Sensi Grow Part A	.34	12	.68	23	1	34	1.3	44	
Part B	.34	12	.68	23	1	34	1.3	44	
Total ppm A+B	<97>		<197>		<290>		<377>		
Voodoo Juice	2	68	2	68					
Total	<97>		<197>		<290>		<377>		

Producer Feeding Schedule BLOOM (9Gal/34L Tub)

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4		5		6		7		8	
PPM	800		1000		1100		1200		1100		1000		800			
PRODUCT	ml/ CC 1L	ml/ CC 34L	ml/ CC 1L	ml/ CC 34L	ml/ CC 1L	ml/ CC 34L	ml/ CC 1L	ml/ CC 34L	ml/ CC 1L	ml/ CC 34L	ml/ CC 1L	ml/ CC 34L	ml/ CC 1L	ml/ CC 34L	ml/ CC 1L	ml/ CC 34L

Sensi Bloom Part A	2.75	94	3	102	3.25	111	3.5	119	3.25	111	2.5	85	2	68		
Part B	2.75	94	3	102	3.25	111	3.5	119	3.25	111	2.5	85	2	68		
Connoisseur Part A	2.75	94	3	102	3.25	111	3.5	119	3.25	111	2.5	85	2	68		
Part B	2.75	94	3	102	3.25	111	3.5	119	3.25	111	2.5	85	2	68		
CarboLoad	2	68	2	68	2	68	2	68	2	68	2	68	2	68		
Big Bud			2	68	2	68	2	68	2	68						
Voodoo Juice	2	68	2	68												
Overdrive											2	68	2	68		
Vita Boost Pro					2	68	2	68	2	68	2	68	2	68		
Piranha	2	68	2	68												
Bud Candy	2	68	2	68	2	68	2	68	2	68	2	68	2	68		
Final Phase															2	68
Tarantula	2	68	2	68												
Nirvana					2	68	2	68	2	68	2	68	2	68		
Sensizym	2	68	2	68	2	68	2	68	2	68	2	68	2	68		
Bud Ignitor	2	68	2	68												
Rhino Skin	2	68	2	68	2	68	2	68	2	68	2	68	2	68		
Bud Factor X	2	68	2	68	2	68	2	68	2	68	2	68	2	68		
B 52					2	68	2	68	2	68	2	68	2	68		



Mothership/Roommate Feeding Schedule

Roommate/Mothership Feeding Schedule VEG (4.2Gal/16L Tub)

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4	
PPM	100		200		300		400	
Product	ml/CC 1L	ml/CC 16L	ml/CC 1L	ml/CC 16L	ml/CC 1L	ml/CC 16L	ml/CC 1L	ml/CC 16L

Sensi Grow Part A	.34	5	.68	11	1	16	1.3	21
Part B	.34	5	.68	11	1	16	1.3	21
Total ppm A+B	<97>		<197>		<290>		<377>	
Voodoo Juice	2	32	2	32				
Total	<97>		<197>		<290>		<377>	

Roommate/Mothership Feeding Schedule BLOOM (4.2Gal/16L Tub)

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4		5		6		7		8	
PPM	800		1000		1100		1200		1100		1000		800			
PRODUCT	ml/ CC 1L	ml/ CC 16L	ml/ CC 1L	ml/ CC 16L	ml/ CC 1L	ml/ CC 16L	ml/ CC 1L	ml/ CC 16L	ml/ CC 1L	ml/ CC 16L	ml/ CC 1L	ml/ CC 16L	ml/ CC 1L	ml/ CC 16L	ml/ CC 1L	ml/ CC 16L

Sensi Bloom Part A	2.75	44	3	48	3.25	52	3.5	56	3.25	52	2.5	40	2	32		
Part B	2.75	44	3	48	3.25	52	3.5	56	3.25	52	2.5	40	2	32		
Connoisseur Part A	2.75	44	3	48	3.25	52	3.5	56	3.25	52	2.5	40	2	32		
Part B	2.75	44	3	48	3.25	52	3.5	56	3.25	52	2.5	40	2	32		
CarboLoad	2	32	2	32	2	32	2	32	2	32	2	32	2	32		
Big Bud			2	32	2	32	2	32	2	32						
Voodoo Juice	2	32	2	32												
Overdrive											2	32	2	32		
Vita Boost Pro					2	32	2	32	2	32	2	32	2	32		
Piranha	2	32	2	32												
Bud Candy	2	32	2	32	2	32	2	32	2	32	2	32	2	32		
Final Phase															2	32
Tarantula	2	32	2	32												
Nirvana					2	32	2	32	2	32	2	32	2	32		
Sensizym	2	32	2	32	2	32	2	32	2	32	2	32	2	32		
Bud Ignitor	2	32	2	32												
Rhino Skin	2	32	2	32	2	32	2	32	2	32	2	32	2	32		
Bud Factor X	2	32	2	32	2	32	2	32	2	32	2	32	2	32		
B 52					2	32	2	32	2	32	2	32	2	32		

Nursery Feeding Schedule VEG (21Gal/80L Tub)

15 drops of nutrient solution = 1 ml

WEEK	1		2		3		4		5		6		7	
PPM	100		200		300		400		500		600		700	
Product	ml/CC 1L	ml/CC 80L	ml/CC 1L	ml/CC 80L	ml/CC 1L	ml/CC 80L	ml/CC 1L	ml/CC 80L	ml/CC 1L	ml/CC 80L	ml/CC 1L	ml/CC 80L	ml/CC 1L	ml/CC 80L

Sensi Grow Part A	.34	28	.68	54	1	80	1.3	104	1.75	140	2	160	2.4	192
Part B	.34	28	.68	54	1	80	1.3	104	1.75	140	2	160	2.4	192
Total ppm A+B	<97>		<197>		<290>		<377>		<507>		<580>		<696>	
Voodoo Juice	2	160	2	160										
Total	<97>		<197>		<290>		<377>		<507>		<580>		<696>	