



GENERAL
HYDROPONICS®

BioThrive®



Professional 2-Part Nutrient System
WEEKLY FEEDCHART



All amounts per 3.79 liters (1 U.S. gallon)

	<div><div></div><div>AGGRESSIVE FEED</div></div>	GROW (18H PHOTOPERIOD)				BLOOM (12H PHOTOPERIOD)								
		1	2	3	4	1	2	3	4	5	6	7	8	9
		Seedling/ Clone	Early Growth	Early Growth	Late Growth	Early Bloom	Early Bloom	Mid Bloom	Mid Bloom	Mid Bloom	Late Bloom	Late Bloom	Ripen	Flush
		Total nitrogen (ppm)	70	120	150	180	130	130	110	110	110	80	80	50
		EC range (mS/cm)	0.4-0.6	0.6-0.8	0.8-1.0	1.0-1.2	1.5-1.8	1.5-1.8	1.2-1.5	1.2-1.5	1.2-1.5	0.9-1.1	0.9-1.1	0.6-0.8
		PPM range (500 scale)	200-300	300-400	400-500	500-600	750-800	750-800	600-750	600-750	600-750	450-550	450-550	300-400
BASE NUTRIENTS	BioThrive Grow (ml/gal)	5.0	8.0	10.0	12.5									
	BioThrive Bloom (ml/gal)					15.0	15.0	12.5	12.5	12.5	10.0	10.0	5.0	
	CaMg+ (ml/gal)	2.0	3.0	4.0	5.0	8.5	8.5	7.5	7.5	7.5	5.0	5.0	5.0	

	<div><div></div><div>MEDIUM FEED</div></div>	GROW (18H PHOTOPERIOD)				BLOOM (12H PHOTOPERIOD)								
		1	2	3	4	1	2	3	4	5	6	7	8	9
		Seedling/ Clone	Early Growth	Early Growth	Late Growth	Early Bloom	Early Bloom	Mid Bloom	Mid Bloom	Mid Bloom	Late Bloom	Late Bloom	Ripen	Flush
		Total nitrogen (ppm)	60	100	120	140	100	100	90	90	90	60	60	40
		EC range (mS/cm)	0.3-0.5	0.5-0.7	0.7-0.9	0.9-1.1	1.2-1.5	1.2-1.5	1.0-1.3	1.0-1.3	1.0-1.3	0.8-1.0	0.8-1.0	0.5-0.7
		PPM range (500 scale)	150-250	250-350	350-450	450-550	600-750	600-750	500-650	500-650	500-650	400-500	400-500	250-350
BASE NUTRIENTS	BioThrive Grow (ml/gal)	4.0	6.5	8.0	10.0									
	BioThrive Bloom (ml/gal)					12.0	12.0	10.0	10.0	10.0	8.0	8.0	4.0	
	CaMg+ (ml/gal)	1.5	2.5	3.2	4.0	6.5	6.5	6.0	6.0	6.0	4.0	4.0	4.0	

	<div><div></div><div>LIGHT FEED</div></div>	GROW (18H PHOTOPERIOD)				BLOOM (12H PHOTOPERIOD)								
		1	2	3	4	1	2	3	4	5	6	7	8	9
		Seedling/ Clone	Early Growth	Early Growth	Late Growth	Early Bloom	Early Bloom	Mid Bloom	Mid Bloom	Mid Bloom	Late Bloom	Late Bloom	Ripen	Flush
		Total nitrogen (ppm)	50	80	100	130	90	90	80	80	80	50	50	30
		EC range (mS/cm)	0.2-0.4	0.4-0.6	0.6-0.8	0.8-1.0	1.1-1.4	1.1-1.4	0.9-1.1	0.9-1.1	0.9-1.1	0.7-0.9	0.7-0.9	0.4-0.6
		PPM range (500 scale)	100-200	200-300	300-400	400-500	550-700	550-700	450-550	450-550	450-550	350-500	350-500	200-300
BASE NUTRIENTS	BioThrive Grow (ml/gal)	3.5	5.5	7.0	8.5									
	BioThrive Bloom (ml/gal)					10.5	10.5	8.5	8.5	8.5	7.0	7.0	3.5	
	CaMg+ (ml/gal)	1.5	2.0	2.8	3.5	6.0	6.0	5.2	5.2	5.2	3.5	3.5	3.5	

Base Nutrients



BioThrive® Grow 4-3-3
provides plants with essential
nutrients for roots, stems,
and foliage.



BioThrive® Grow 2-4-4
offers flowering and fruiting
plants essential nutrients
for superior blooms and
bountiful harvests.



CaMg +
is a blend of calcium and
magnesium. Helps optimize
plant nutrition resulting in
enhanced growth and vibrant
flowers and fruits.

Products available in 1 quart, and 1, 2.5, 6, 15, 55 and 275 gallon sizes. Visit generalhydroponics.com for more details.



Aggressive feed is most suitable for:

- ≤1 irrigation event per day during peak production
- >#5 pot size, slow drybacks
- Low planting density
- Large, multi-topped cropping style



Medium feed is most suitable for:

- 1-5 irrigation events per day during peak production
- #2-5 pot size, intermediate drybacks
- Intermediate planting density
- Intermediate, topped/pinched cropping style



Light feed is most suitable for:

- >5 irrigation events per day during peak production
- 4", 6", #1 pot or block size, fast drybacks
- High planting density
- Small, untopped crops: sea of green style

Feeding charts are recommendations only. Adjustments may be needed based upon environmental conditions, individual grow structure, and use of additional products. Actual results may vary.

GH_BioThriveSeries_FeedCharts_WeeklyBasic_USD_210113



GENERAL
HYDROPONICS®

BioThrive®



Professional 2-Part Nutrient System
WEEKLY FEEDCHART



All amounts per 3.79 liters (1 U.S. gallon)

AGGRESSIVE FEED		GROW (18H PHOTOPERIOD)		BLOOM (12H PHOTOPERIOD)	
Growth stage		Early Growth	Late Growth	Early Bloom	Bloom
Total nitrogen (ppm)		120	180	130	110
EC range (mS/cm)		0.6-0.8	1.0-1.2	1.5-1.8	1.2-1.5
PPM range (500 scale)		300-400	500-600	750-800	600-750
BASE NUTRIENTS	BioThrive Grow (ml/gal)	8.0 ml/gal	12.5 ml/gal		
	BioThrive Bloom (ml/gal)			15.0 ml/gal	12.5 ml/gal
	CaMg+ (ml/gal)	3.0 ml/gal	5.0 ml/gal	8.5 ml/gal	7.5 ml/gal

MEDIUM FEED		GROW (18H PHOTOPERIOD)		BLOOM (12H PHOTOPERIOD)	
Growth stage		Early Growth	Late Growth	Early Bloom	Bloom
Total nitrogen (ppm)		100	140	100	90
EC range (mS/cm)		0.5-0.7	0.9-1.1	1.2-1.5	1.0-1.3
PPM range (500 scale)		250-350	450-550	600-750	500-650
BASE NUTRIENTS	BioThrive Grow (ml/gal)	6.5 ml/gal	10.0 ml/gal		
	BioThrive Bloom (ml/gal)			12.0 ml/gal	10.0 ml/gal
	CaMg+ (ml/gal)	2.5 ml/gal	4.0 ml/gal	6.5 ml/gal	6.0 ml/gal

LIGHT FEED		GROW (18H PHOTOPERIOD)		BLOOM (12H PHOTOPERIOD)	
Growth stage		Early Growth	Late Growth	Early Bloom	Bloom
Total nitrogen (ppm)		80	130	90	80
EC range (mS/cm)		0.4-0.6	0.8-1.0	1.1-1.4	0.9-1.1
PPM range (500 scale)		200-300	400-500	550-700	450-550
BASE NUTRIENTS	BioThrive Grow (ml/gal)	5.5 ml/gal	8.5 ml/gal		
	BioThrive Bloom (ml/gal)			10.5 ml/gal	8.5 ml/gal
	CaMg+ (ml/gal)	2.0 ml/gal	3.5 ml/gal	6.0 ml/gal	5.2 ml/gal

Base Nutrients



BioThrive® Grow 4-3-3 provides plants with essential nutrients for roots, stems, and foliage.



BioThrive® Grow 2-4-4 offers flowering and fruiting plants essential nutrients for superior blooms and bountiful harvests.



CaMg + is a blend of calcium and magnesium. Helps optimize plant nutrition resulting in enhanced growth and vibrant flowers and fruits.

Products available in 1 quart, and 1, 2.5, 6, 15, 55 and 275 gallon sizes. Visit generalhydroponics.com for more details.



Aggressive feed is most suitable for:

- ≤1 irrigation event per day during peak production
- >#5 pot size, slow drybacks
- Low planting density
- Large, multi-topped cropping style



Medium feed is most suitable for:

- 1-5 irrigation events per day during peak production
- #2-5 pot size, intermediate drybacks
- Intermediate planting density
- Intermediate, topped/pinched cropping style



Light feed is most suitable for:

- >5 irrigation events per day during peak production
- 4", 6", #1 pot or block size, fast drybacks
- High planting density
- Small, untopped crops: sea of green style

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GH_BioThriveSeries_FeedCharts_GrowthStageBasic_USD_210113



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Professional 7-Part Nutrient System
WEEKLY FEEDCHART



All amounts per 3.79 liters (1 U.S. gallon)

	 AGGRESSIVE FEED	All amounts per 3.79 liters (1 U.S. gallon)												
		GROW (18H PHOTOPERIOD)				BLOOM (12H PHOTOPERIOD)								
	Week	1	2	3	4	1	2	3	4	5	6	7	8	9
	Growth stage	Seedling/ Clone	Early Growth	Early Growth	Late Growth	Early Bloom	Early Bloom	Mid Bloom	Mid Bloom	Mid Bloom	Late Bloom	Late Bloom	Ripen	Flush
	Total nitrogen (ppm)	70	150	180	220	160	160	150	150	150	120	120	60	
	EC range (mS/cm)	0.4-0.6	0.8-1.0	1.0-1.2	1.2-1.4	1.5-1.8	1.5-1.8	1.4-1.7	1.4-1.7	1.4-1.7	1.0-1.2	1.0-1.2	0.6-0.8	
	PPM range (500 scale)	200-300	400-500	500-600	600-700	750-900	750-900	700-850	700-850	700-850	500-600	500-600	300-400	
BASE NUTRIENTS	BioThrive Grow (ml/gal)	5.0	7.0	9.0	12.0									
	BioThrive Bloom (ml/gal)					12.5	12.5	8.5	8.5	8.5	8.0	8.0	5.0	
	CaMg+ (ml/gal)	2.0	5.0	6.5	7.5	8.5	8.5	8.5	8.5	8.5	7.0	7.0	5.0	
SUPPLEMENTS	BioRoot (ml/gal)	5.0	5.0	5.0	5.0	5.0	5.0							
	BioWeed (ml/gal)		5.0	5.0	5.0	5.0	5.0							
	BioBud (ml/gal)					2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	BioMarine (ml/gal)		5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5	5.0	5.0		
	Diamond Black (ml/gal)		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				

	 MEDIUM FEED	GROW (18H PHOTOPERIOD)				BLOOM (12H PHOTOPERIOD)								
		1	2	3	4	1	2	3	4	5	6	7	8	9
	Week	Seedling/ Clone	Early Growth	Early Growth	Late Growth	Early Bloom	Early Bloom	Mid Bloom	Mid Bloom	Mid Bloom	Late Bloom	Late Bloom	Ripen	Flush
	Total nitrogen (ppm)	60	120	140	180	130	130	120	120	120	100	100	50	0
	EC range (mS/cm)	0.3-0.5	0.7-0.9	0.9-1.1	1.1-1.3	1.2-1.5	1.2-1.5	1.1-1.4	1.1-1.4	1.1-1.4	0.8-1.0	0.8-1.0	0.4-0.6	
	PPM range (500 scale)	150-250	350-450	450-550	550-650	600-750	600-750	550-700	550-700	550-700	400-500	400-500	200-300	
	BASE NUTRIENTS	BioThrive Grow (ml/gal)	4.0	5.5	7.2	9.5								
BioThrive Bloom (ml/gal)						10.0	10.0	6.8	6.8	6.8	6.5	6.5	4.0	
CaMg+ (ml/gal)		1.5	4.0	5.2	6.0	6.8	6.8	6.8	6.8	6.8	5.5	5.5	4.0	
SUPPLEMENTS	BioRoot (ml/gal)	4.0	4.0	4.0	4.0	4.0	4.0							
	BioWeed (ml/gal)		4.0	4.0	4.0	4.0	4.0							
	BioBud (ml/gal)					2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	BioMarine (ml/gal)		4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	4.0	4.0		
	Diamond Black (ml/gal)		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0				

	 LIGHT FEED	GROW (18H PHOTOPERIOD)				BLOOM (12H PHOTOPERIOD)								
		1	2	3	4	1	2	3	4	5	6	7	8	9
	Week	Seedling/ Clone	Early Growth	Early Growth	Late Growth	Early Bloom	Early Bloom	Mid Bloom	Mid Bloom	Mid Bloom	Late Bloom	Late Bloom	Ripen	Flush
	Total nitrogen (ppm)	50	110	130	150	110	110	100	100	100	80	80	40	
	EC range (mS/cm)	0.2-0.4	0.6-0.8	0.8-1.0	1.0-1.2	1.0-1.3	1.0-1.3	0.9-1.2	0.9-1.2	0.9-1.2	0.7-0.9	0.7-0.9	0.3-0.5	
	PPM range (500 scale)	100-200	300-400	400-500	500-600	500-650	500-650	450-600	450-600	450-600	350-450	350-450	150-250	
BASE NUTRIENTS	BioThrive Grow (ml/gal)	3.5	5.0	6.2	8.5									
	BioThrive Bloom (ml/gal)					8.5	8.5	6.0	6.0	6.0	5.5	5.5	3.5	
	CaMg+ (ml/gal)	1.2	3.5	4.6	5.2	6.0	6.0	6.0	6.0	6.0	5.0	5.0	3.5	
SUPPLEMENTS	BioRoot (ml/gal)	3.5	3.5	3.5	3.5	3.5	3.5							
	BioWeed (ml/gal)		3.5	3.5	3.5	3.5	3.5							
	BioBud (ml/gal)					2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	BioMarine (ml/gal)		3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3	3.5	3.5		
	Diamond Black (ml/gal)		3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5				

Base Nutrients

Customized Performance



BioThrive® Grow 4-3-3
provides plants with essential
nutrients for roots, stems,
and foliage.



BioThrive® Bloom 2-4-4
offers flowering and fruiting plants
essential nutrients for superior
blooms and bountiful harvests.



CaMg +
is a blend of calcium and magnesium. Helps
optimize plant nutrition resulting in enhanced
growth and vibrant flowers and fruits.



BioRoot® 0-1-1
Helps plants establish
vibrant, vigorous
root systems.



BioWeed® 0-0-0.5
a plant and soil vitality
booster featuring cold
processed seaweed.



BioBud® 0.5-0-1
encourages profuse
flowering and vigorous
fruit development.



BioMarine® 2-3-1
a soil amendment that
contains humic acids aiding
in micronutrient uptake.



Diamond Black®
contains digested squid
protein that boosts
plant growth.

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- Low planting density
- Large, multi-topped cropping style



Medium feed is most suitable for:

- 1-5 irrigation events per day during peak production
- #2-5 pot size, intermediate drybacks
- Intermediate planting density
- Intermediate, topped/pinched cropping style



Light feed is most suitable for:

- >5 irrigation events per day during peak production
- 4", 6", #1 pot or block size, fast drybacks
- High planting density
- Small, untopped crops: sea of green style

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GH_BioThriveSeries_FeedCharts_WeeklyCustom_USD_210113



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Professional 7-Part Nutrient System
WEEKLY FEEDCHART



All amounts per 3.79 liters (1 U.S. gallon)

AGGRESSIVE FEED		GROW (18H PHOTOPERIOD)		BLOOM (12H PHOTOPERIOD)	
Growth stage		Early Growth	Late Growth	Early Bloom	Bloom
Total nitrogen (ppm)		150	220	160	150
EC range (mS/cm)		0.8-1.0	1.2-1.4	1.5-1.8	1.4-1.7
PPM range (500 scale)		400-500	600-700	750-900	700-850
BASE NUTRIENTS	BioThrive Grow (grams/gal)	7.0 ml/gal	12.0 ml/gal		
	BioThrive Bloom (grams/gal)			12.5 ml/gal	8.5 ml/gal
	CaMg+ (ml/gal)	5.0 ml/gal	7.5 ml/gal	8.5 ml/gal	8.5 ml/gal
SUPPLEMENTS	BioRoot (ml/gal)	5.0 ml/gal	5.0 ml/gal	5.0 ml/gal	
	BioWeed (ml/gal)	5.0 ml/gal	5.0 ml/gal	5.0 ml/gal	
	BioBud (ml/gal)			2.5 ml/gal	2.5 ml/gal
	BioMarine (ml/gal)	5.0 ml/gal	5.0 ml/gal	5.0 ml/gal	7.5 ml/gal
	Diamond Black (ml/gal)	5.0 ml/gal	5.0 ml/gal	5.0 ml/gal	5.0 ml/gal

MEDIUM FEED		GROW (18H PHOTOPERIOD)		BLOOM (12H PHOTOPERIOD)	
Growth stage		Early Growth	Late Growth	Early Bloom	Bloom
Total nitrogen (ppm)		120	180	130	120
EC range (mS/cm)		0.7-0.9	1.1-1.3	1.2-1.5	1.1-1.4
PPM range (500 scale)		350-450	550-650	600-750	550-700
BASE NUTRIENTS	BioThrive Grow (grams/gal)	5.5 ml/gal	9.5 ml/gal		
	BioThrive Bloom (grams/gal)			10.0 ml/gal	6.8 ml/gal
	CaMg+ (ml/gal)	4.0 ml/gal	6.0 ml/gal	6.8 ml/gal	6.8 ml/gal
SUPPLEMENTS	BioRoot (ml/gal)	4.0 ml/gal	4.0 ml/gal	4.0 ml/gal	
	BioWeed (ml/gal)	4.0 ml/gal	4.0 ml/gal	4.0 ml/gal	
	BioBud (ml/gal)			2.5 ml/gal	2.5 ml/gal
	BioMarine (ml/gal)	4.0 ml/gal	4.0 ml/gal	4.0 ml/gal	6.0 ml/gal
	Diamond Black (ml/gal)	4.0 ml/gal	4.0 ml/gal	4.0 ml/gal	4.0 ml/gal

LIGHT FEED		GROW (18H PHOTOPERIOD)		BLOOM (12H PHOTOPERIOD)	
Growth stage		Early Growth	Late Growth	Early Bloom	Bloom
Total nitrogen (ppm)		110	150	110	100
EC range (mS/cm)		0.6-0.8	1.0-1.2	1.0-1.3	0.9-1.2
PPM range (500 scale)		300-400	500-600	500-650	450-600
BASE NUTRIENTS	BioThrive Grow (grams/gal)	5.0 ml/gal	8.5 ml/gal		
	BioThrive Bloom (grams/gal)			8.5 ml/gal	6.0 ml/gal
	CaMg+ (ml/gal)	3.5 ml/gal	5.2 ml/gal	6.0 ml/gal	6.0 ml/gal
SUPPLEMENTS	BioRoot (ml/gal)	3.5 ml/gal	3.5 ml/gal	3.5 ml/gal	
	BioWeed (ml/gal)	3.5 ml/gal	3.5 ml/gal	3.5 ml/gal	
	BioBud (ml/gal)			2.5 ml/gal	2.5 ml/gal
	BioMarine (ml/gal)	3.5 ml/gal	3.5 ml/gal	3.5 ml/gal	5.3 ml/gal
	Diamond Black (ml/gal)	3.5 ml/gal	3.5 ml/gal	3.5 ml/gal	3.5 ml/gal

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Customized Performance



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BioRoot® 0-1-1
Helps plants establish vibrant, vigorous root systems.



BioWeed® 0-0-0.5
a plant and soil vitality booster featuring cold processed seaweed.



BioBud® 0.5-0-1
encourages profuse flowering and vigorous fruit development.



BioMarine® 2-3-1
a soil amendment that contains humic acids aiding in micronutrient uptake.



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- Intermediate planting density
- Intermediate, topped/pinched cropping style



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- >5 irrigation events per day during peak production
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