

GENERAL HYDROPONICS® Expert Feed Program

Go ahead and take it to the next level with the Expert Feed Program.

Start with the Flora Series®, the most reliable, widely recognized nutrient in the industry and combine with select supplements for faster, more vigorous growth. FloraBlend® contains a surplus of naturally derived organic acids that are formed during our exclusive fermentation process. Use FloraBlend from the germinating/cutting stage to the middle of flowering. FloraBlend greatly enhances structural growth, including roots and foliage, and gives your plants the best shot at becoming superstars. To accelerate nutrient absorption in the root zone, Diamond Nectar® optimizes nutrient uptake, supercharging your fast growing garden. Diamond Nectar also stimulates plant growth by increasing cell division and the rate of development in root systems for bigger, more robust yields. Use Diamond Nectar for both foliar applications and in your reservoir. The super vegan formula of Floralicious® Grow will enhance your plant's ability to build superior root and leaf mass. For phenomenal flavor, fruit swelling and enhanced oil production switch to Floralicious® Bloom and your plants will be stoked by this vegan formulation. FloraNectar™ is an advanced supplement designed to provide carbohydrates and amino acids that will help regulate your plants metabolism. Liquid KoolBloom® goes way beyond your typical bloom booster. Enriched with stress reducing vitamins and nutrient transporting acids, Liquid KoolBloom promotes production of essential oils, enhances flavor, and increases fruiting and flower development. Finally, add Dry KoolBloom® in the last two weeks for optimal weight gain and ripening to perfection.



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GH Expert Recirculating Program (Amounts per US Gallon)

Recirculating (many hydroponic systems)

Flora Series

Amounts per 3.79 liters (1 US Gallon)

1 gal	FloraGro®	FloraMicro®	FloraBloom®	Diamond Nectar®	Floralicious® Grow	Floralicious® Bloom	FloraBlend®	FloraNectar™	Liquid KoolBloom®	Dry KoolBloom®
Seedling	2.5 ml	2.5 ml	2.5 ml	5 ml	5 ml	0	15 ml	0	0	0
Mild Growth	10 ml	5 ml	5 ml	10 ml	5 ml	0	10 ml	5 ml	0	0
Growth	12.5 ml	7.5 ml	2.5 ml	10 ml	5 ml	0	10 ml	5 ml	0	0
Aggressive Growth	15 ml	10 ml	5 ml	10 ml	5 ml	0	10 ml	10 ml	0	0
Transition	10 ml	10 ml	10 ml	5 ml	0	5 ml	10 ml	10 ml	2.5 ml	0
Bloom	5 ml	10 ml	15 ml	0	0	5 ml	10 ml	10 ml	5 ml	0
Aggressive Bloom	0	10 ml	20 ml	0	0	5 ml	10 ml	10 ml	5 - 10 ml	0
Ripen	0	5 ml	15 ml	0	0	5 ml	5 ml	10 ml	0	1 g

CAUTION: Do not premix nutrients, add to water only. Monitor plants for signs of stress when feeding aggressive formulas.

customize your feed charts online!

www.genhydro.com/calculator

- Easy to use for any reservoir size.
- Custom mixing table with shopping list feature.
- Choose english or metric units.
- Design your own custom GH programs.
- Let our calculator do the math and don't sweat it...it's simple.



Recirculating Nutrient Solution Tips

- Keep nutrient solution temperature below 75° F (24° C).
- Change nutrient solution every 7-10 days.
- Top off with fresh water between nutrient changes.
- Keep nutrient solution aerated for best results.
- If your water is above 200ppm total or 70ppm calcium, use Hardwater FloraMicro instead of FloraMicro.



The pH (acidity or alkalinity) of a nutrient solution affects the availability of the elements contained within. Use GH pH adjusters to maintain nutrient pH between 5.5 - 6.5.

Useful Conversions

1 TSP	=	5 ml
1 TBSP	=	15 ml
1 oz	=	30 ml
1 Qt	=	946 ml
1 Gal	=	3.785 L
1 Gal	=	128 oz

These programs are starting points for developing your own program. Results will vary based on environmental factors. Using a conductivity or PPM meter will allow you to make accurate measurements and more informed decisions about your nutrient strength. Monitoring and adjusting the pH of your nutrient will help assure nutrient availability.

Roots



Combine SubCulture®-B and SubCulture®-M to create a diverse microbial community beneficial for plant health. These microbes enhance nutrient uptake and also attack disease-causing bacteria maximizing your plant's potential.

Mix SubCulture-M with water and apply as a root drench to help build a thriving root network. Once roots are established, add SubCulture-M and SubCulture-B to nutrient solution in order to further reinforce and protect roots.

Flush



To ensure optimum flavor, crops should be flushed with FloraKleen® prior to harvest. FloraKleen can also be used to minimize the effects of overfertilization. FloraKleen works by breaking the bond that attaches fertilizer salts to growing media.

Add 5-10 ml FloraKleen per gallon of fresh water. Irrigate thoroughly for 2-4 days before harvest.

Defend



Prevent and solve root rot problems with the amazing ability of FloraShield™. FloraShield can be used in your reservoir and as a foliar spray.

Use 37ml/gallon in your reservoir. If using SubCulture, re-inoculate after using FloraShield. Do not use SubCulture with FloraShield.

GH Expert Drain To Waste Program (Amounts per US Gallon)

Drain to Waste (soil & some hydroponics)

Flora Series

Amounts per 3.79 liters (1 US Gallon)

1 gal	FloraGro®	FloraMicro®	FloraBloom®	Diamond Nectar®	Floralicious® Grow	Floralicious® Bloom	FloraBlend®	FloraNectar™	Liquid KoolBloom®	Dry KoolBloom®
Seedling	1.5 ml	1.5 ml	1.5 ml	5 ml	5 ml	0	15 ml	0	0	0
Mild Growth	5 ml	2.5 ml	2.5 ml	10 ml	5 ml	0	10 ml	5 ml	0	0
Growth	7.5 ml	5 ml	2.5 ml	10 ml	5 ml	0	10 ml	5 ml	0	0
Aggressive Growth	10 ml	5 ml	2.5 ml	10 ml	5 ml	0	10 ml	10 ml	0	0
Transition	5 ml	5 ml	5 ml	5 ml	0	5 ml	10 ml	10 ml	1.5 ml	0
Bloom	2.5 ml	5 ml	7.5 ml	0	0	5 ml	10 ml	10 ml	2.5 ml	0
Aggressive Bloom	0	5 ml	10 ml	0	0	5 ml	10 ml	10 ml	2.5 - 5 ml	0
Ripen	0	2.5 ml	7.5 ml	0	0	5 ml	5 ml	10 ml	0	1 g

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Drain To Waste Nutrient Solution Tips

- Keep nutrient solution temperature below 75° F (24° C).
- Allow 25% run off during each irrigation.
- Apply fresh water irrigation after three nutrient applications to flush excess mineral accumulation.
- Keep nutrient solution aerated for best results.
- If your water is above 200ppm total or 70ppm calcium, use Hardwater FloraMicro instead of FloraMicro.



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GENERAL HYDROPONICS® Keep It Simple Solution

Keep It Simple Solution is an easy method to supply the complex nutrition your plants need.

Whether Recirculating or Drain To Waste, start by choosing between either the most widely recognized, reliable nutrient in the industry - Flora Series®, or the technological breakthrough of FloraNova®. FloraNova provides accelerated performance of mineral nutrients enriched with the healthy, flavorful characteristics of organics. Supplement with three of our trusted and economical formulas; FloraBlend®, Floralicious® Plus and Liquid KoolBloom®. FloraBlend is a Vegan Plant Booster that is fermented from a proprietary blend of plant materials, plus seaweed, rock powders and micronized leonardite. Floralicious Plus is a vegan bio stimulator that combines several products in one concentrate, maximizing your resources. Floralicious Plus activates many plant functions to produce healthier and faster growing plants rich in organic flavor with vivid colors, pungent fragrances, and increased yields. In blooming, Liquid KoolBloom provides the additional phosphorous and potassium your flowers need. Enriched with stress reducing vitamins and nutrient transporting acids, Liquid KoolBloom promotes production of essential oils, enhances taste, and increases fruiting and flower development.

Keep it simple and enjoy your thriving garden.



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Troubleshooting factors to consider:

- Arid, bright, hot environments cause plants to drink more than if they are grown where it's humid, dim, and cool. Thus gardeners should use less concentrated nutrient solutions when growing conditions are more intense in order to lessen the risk of overfeeding.
- The carbonates in hard waters may inhibit nutrient uptake. Using pH adjusters, Liquid Kool Bloom, Subculture, Diamond Nectar, and Hard Water Flora Micro may help plants cope with hard waters. If your water is above 200ppm total or 70ppm calcium, use Hardwater FloraMicro instead of FloraMicro.



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GH Keep It Simple Recirculating Program

Recirculating (many hydroponic systems)

Flora Series

Amounts per 3.79 liters (1 US Gallon)

1 gal	FloraGro®	FloraMicro®	FloraBloom®	Floralicious® Plus	FloraBlend®	Liquid KoolBloom®
Seedling	2.5 ml	2.5 ml	2.5 ml	0	15 ml	0
Mild Growth	10 ml	5 ml	5 ml	1 ml	10 ml	0
Growth	12.5 ml	7.5 ml	2.5 ml	1 ml	10 ml	0
Aggressive Growth	15 ml	10 ml	5 ml	1 ml	10 ml	0
Transition	10 ml	10 ml	10 ml	1 ml	10 ml	2.5 ml
Bloom	5 ml	10 ml	15 ml	1 ml	10 ml	5 ml
Aggressive Bloom	0	10 ml	20 ml	1 ml	10 ml	5 - 10 ml
Ripen	0	5 ml	15 ml	1 ml	5 ml	5 - 10 ml

CAUTION: Do not premix nutrients, add to water only. Monitor plants for signs of stress when feeding aggressive formulas.

Flora Nova

Amounts per 3.79 liters (1 US Gallon)

1 gal	FloraNova® Grow	FloraNova® Bloom	Floralicious® Plus	FloraBlend®	Liquid KoolBloom®
Seedling	2.5 ml	0	0	15 ml	0
Mild Growth	5 ml	0	1 ml	10 ml	0
Growth	10 ml	0	1 ml	10 ml	0
Aggressive Growth	12.5 ml	0	1 ml	10 ml	0
Transition	5 ml	5 ml	1 ml	10 ml	2.5 ml
Bloom	0	10 ml	1 ml	10 ml	5 ml
Aggressive Bloom	0	12.5 ml	1 ml	10 ml	5 - 10 ml
Ripen	0	5 ml	1 ml	5 ml	5 - 10 ml

CAUTION: Do not premix nutrients, add to water only. Monitor plants for signs of stress when feeding aggressive formulas.

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Recirculating (many hydroponic systems)

- Nutrient is reused.
- Nutrient is changed weekly.
- Irrigation runoff drains to reservoir.
- Typically, "soil" gardens are NOT recirculating.

Recirculating Nutrient Solution Tips

- Keep nutrient solution temperature below 75° F (24° C).
- Change nutrient solution every 7-10 days and top off with fresh water between nutrient changes.
- Keep nutrient solution aerated for best results.
- Maintain nutrient solution pH between 5.5 - 6.5.

GH Keep It Simple Drain To Waste Program

Drain to Waste (soil & some hydroponics)

Flora Series

Amounts per 3.79 liters (1 US Gallon)

1 gal	FloraGro®	FloraMicro®	FloraBloom®	Floralicious® Plus	FloraBlend®	Liquid KoolBloom®
Seedling	1.5 ml	1.5 ml	1.5 ml	0	15 ml	0
Mild Growth	5 ml	2.5 ml	2.5 ml	1 ml	10 ml	0
Growth	7.5 ml	5 ml	2.5 ml	1 ml	10 ml	0
Aggressive Growth	10 ml	5 ml	2.5 ml	1 ml	10 ml	0
Transition	5 ml	5 ml	5 ml	1 ml	10 ml	1.5 ml
Bloom	2.5 ml	5 ml	7.5 ml	1 ml	10 ml	2.5 ml
Aggressive Bloom	0	5 ml	10 ml	1 ml	10 ml	2.5 - 5 ml
Ripen	0	2.5 ml	7.5 ml	1 ml	5 ml	2.5 - 5 ml

CAUTION: Do not premix nutrients, add to water only. Monitor plants for signs of stress when feeding aggressive formulas.

Flora Nova

Amounts per 3.79 liters (1 US Gallon)

1 gal	FloraNova® Grow	FloraNova® Bloom	Floralicious® Plus	FloraBlend®	Liquid KoolBloom®
Seedling	1 ml	0	0	15 ml	0
Mild Growth	2.5 ml	0	1 ml	10 ml	0
Growth	5 ml	0	1 ml	10 ml	0
Aggressive Growth	7.5 ml	0	1 ml	10 ml	0
Transition	2.5 ml	2.5 ml	1 ml	10 ml	1.5 ml
Bloom	0	5 ml	1 ml	10 ml	2.5 ml
Aggressive Bloom	0	7.5 ml	1 ml	10 ml	2.5 - 5 ml
Ripen	0	2.5 ml	1 ml	5 ml	2.5 - 5 ml

CAUTION: Do not premix nutrients, add to water only. Monitor plants for signs of stress when feeding aggressive formulas.

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Drain to Waste (soil & some hydroponics)

- Nutrient is fed only once.
- Can be soil or hydroponic.
- Irrigation runoff goes to a drain or evaporates.
- Fresh nutrient solution is prepared as needed.

Drain to Waste Nutrient Solution Tips

- Keep nutrient solution temperature below 75° F (24° C).
- Allow 25% runoff during each irrigation.
- Apply fresh water irrigation after three nutrient applications to flush excess mineral accumulation.
- Keep nutrient solution aerated for best results.
- Maintain nutrient solution pH between 5.5 - 6.5.