



Associated Video ↓
[Video Link](#)
www.KootMed.com

Photone Grow Light Meter(Video) → <https://youtu.be/VcLkqjCwvc>
 Download Photone App → <https://growlightmeter.com>

Koot's - JACKS 3-2-1 Feed Chart Updated 011/26/2023

Base Nutes With Minimal Additives
 (All Measurements are Per Liquid Gallon)

Legend: gal = gallon ml = milliliters g = grams Tbsp = tablespoon tsp = teaspoon

Base Nutes In Reservoir (Normal Feedings)

Koot's Mixing Order →

5-12-26 0-0-0 15-0-0

Note: Light intensity shown in ppfd

Jacks Epsom** JACKS (B)

↓with No supplemental CO2.

Hydro Salt Cal-Nitrate

Seedling:

Straight Water Week 1	←100-150 ppfd	Feed Clones @50%	----	----	----	
25% Strength Week 2		Feed Clones @50%	0.9 g	0.3 g	0.6 g	

Vegative Cycle:

50% Strength Week 1	←3.5-4 inches tall	200-300 ppfd	1.8 g	0.6 g	1.2 g	Microbe Mix
80% Strength Week 2			3.0 g	1.0 g	2.0 g	----
100% Strength Week 3	←Early Veg -	350-400 ppfd	3.6 g	1.2 g	2.4 g	----
100% ↓ Week 4			3.6 g	1.2 g	2.4 g	Microbe Mix
Week 5			3.6 g	1.2 g	2.4 g	----
Week 6	←Mid Veg -	450 ppfd	3.6 g	1.2 g	2.4 g	----
Week 7			3.6 g	1.2 g	2.4 g	Microbe Mix
Week 8			3.6 g	1.2 g	2.4 g	----
Week 9	←1 Week Before Flip	500-550 ppfd	3.6 g	1.2 g	2.4 g	----

Flower Cycle:

Week 1	←Flip to Flower	650-750 ppfd	3.6 g	1.2 g	2.4 g	Microbe Mix
Week 2	←↓Weeks 2 & 3	800-850 ppfd	3.6 g	1.2 g	2.4 g	----
Week 3			3.6 g	1.2 g	2.4 g	----
Week 4	←↓900-950 ppfd (strain specific)		3.6 g	1.2 g	2.4 g	Microbe Mix
Week 5			3.6 g	1.2 g	2.4 g	----
Week 6			3.6 g	1.2 g	2.4 g	----
Week 7			3.6 g	1.2 g	2.4 g	Microbe Mix
Week 8			3.6 g	1.2 g	2.4 g	----
Week 9	↓Reduce ppfd last 7-10 days		----	----	----	----
Week 10	←800-850 ppfd (reduction optional)		----	----	----	----

□ = Minimal Inputs. All other Inputs are optional.

Optional Supplemental Top Feeding

(Every 3-4 weeks. Replaces Regular Feeding)

Microbe Mix	
----	wetting agent →
----	wetting agent →
Microbe Mix	

Microbe Mix	wetting agent →

Microbe Mix	

Microbe Mix	

Microbe Mix	

Note: pH 5.8-6.1 for all Normal & Supplemental Feedings
Grow Medium

Canna Coco (50 liter/1.75cf bag)

plus 1 cup/gal (pot size) BuildASoil Pumice (improves drainage)
 ↑ or 13 cups/50 liter bag of coco.

One Time Root Inoculation @ Trasnplant

1/8-1/4 tsp /gal - BuildASoil Beauveria Bassiana Plus (Root Application)
Microbe Mix

1 tsp (5 grams)/gal - Real Growers ReCharge (microbes/trichoderma)

1 Tbsp/gal - Plantation Organic Blackstrap Unsulfured Molasses †

1 ml/gal Impello Tribus Original (microbes)

1 Tbsp/gal - Neptune's Harvest Seaweed 0-0-1

1/2 tsp /gal - Jay Plantspeaker's Quillaja Saponaria Extract 20

or 1/32 tsp (0.15 grams)/gal - RAW Yucca by NPK Industries

Or Use In Place of Above Microbe Mix

1 tsp /gal - Rootwise Mycrobe Complete (veg stage) or ↓

1 tsp /gal - Rootwise Bio-Phos (flower stage)

1 tsp /gal - Rootwise Bio-Catalyst

1 tsp /gal - BuildASoil Horticultural Aloe

1 tsp /gal - Coconut Water Powder - Raw Freeze Dried Organic

1/2 tsp /gal - Jay Plantspeaker's Quillaja Saponaria Extract 20

or 1/8 tsp /gal - Jay Plantspeaker's Quillaja Saponaria Extract 60

Top Feed with Minimal to No Runoff. Apply every 2-3 weeks.

* Silica (Si)

Should be added before any other nutrients or additives.

Stop 2 weeks prior to harvest. Use only 1 product below:

GH Armor Si: @ 2.5ml/gal (10% Silicon Dioxide)

Alchemist Stout MSA: @ 3-5ml/gal (1.25% Mono Silicic Acid)

Calcium and/or Magnesium Deficiencies

Jacks Cal-Nitrate and Epsom may be increased to provide

additional calcium and/or magnesium.

or ** GH CaliMagic @ 2.5ml-5ml/gal may be used for deficiencies.

† Molasses: Unsulfured Molasses used as a food source for microbes.

†† (optional) Flush: Feed regular amounts using only water for the last 7-10 days of flower @pH 6.0-6.1(optional)

Jacks 3-2-1 Nute Recipe

PPM/EC

††† (optional) Jacks Flower Boost & Finish Recipes

	<u>Jacks 5-12-26</u>	<u>Epsom**</u>	<u>Cal-Nitrate</u>	<u>(Before Silica)</u>
Nute Strength (100%):	3.6 g	1.2g	2.4 g	1000-1100/2.0-2.2
Nute Strength (80%):	3.0 g	1.0 g	2.0 g	750-850/1.5-1.7
Nute Strength (50%):	1.8 g	0.6g	1.2g	500-550/1.0-1.1
Nute Strength (25%):	0.9 g	0.3 g	0.6 g	250-325/0.5-0.65

Jacks may be reduced to 80% strength for sensitive plants or none RO high ppm/ec water.

Koot's Mixing Order →

Jacks Bloom 10-30-20 Jacks Finish 7-15-30 Epsom Cal-Nitrate 15-0-0

First 7 Days of Flower: 3.5g/gal ----- 1.2g/gal 1.2g/gal (optional)
 1 Week Prior to Harvest/Flush: ----- 5.0g/gal 1.2g/gal 1.2g/gal (optional)

Greengenes Boost, pH Nutrient Availability & EC to PPM Covertion Charts available for download @:

<https://www.kootmed.com/Feeding.html>

<https://www.dropbox.com/sh/qo0041z2gufsc6m/AACSD3gbtVhrKp76HcHAo7Bia?dl=0>