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JACKS 3-2-1 Feed Chart

Updated 11/28/2021

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

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

Base Nutes In Reservoir (Normal Feedings)

Silica (Si)*	15-0-0	5-12-26	0-0-0
(optional)	JACKS (B)	JACKS (A)	Epsom
see notes*	Cal-Nitrate	Hydo	Salt

Koot's Mixing Order->

Seedling:

Straight RO Week 1	----	----	----	----
25% Strength Week 2	----	0.6 g	0.9 g	0.3 g
33% Strength Week 3	1/4 Strength*	1.25 g	1.8 g	0.6 g
50% Strength Week 4	1/2 Strength*	2.0 g	3.0 g	1.0 g

Vegative Cycle:

Week 1	see notes*	2.4 g	3.6 g	1.2 g
Week 2	see notes*	2.4 g	3.6 g	1.2 g
Week 3	see notes*	2.4 g	3.6 g	1.2 g
Week 4	see notes*	2.4 g	3.6 g	1.2 g
Week 5	see notes*	2.4 g	3.6 g	1.2 g
Week 6	see notes*	2.4 g	3.6 g	1.2 g
Week 7	see notes*	2.4 g	3.6 g	1.2 g
Week 8	see notes*	2.4 g	3.6 g	1.2 g

Flower Cycle:

Week 1	see notes*	2.4 g	3.6 g	1.2 g
Week 2	see notes*	2.4 g	3.6 g	1.2 g
Week 3	see notes*	2.4 g	3.6 g	1.2 g
Week 4	see notes*	2.4 g	3.6 g	1.2 g
Week 5	see notes*	2.4 g	3.6 g	1.2 g
Week 6	see notes*	2.4 g	3.6 g	1.2 g
Week 7	see notes*	2.4 g	3.6 g	1.2 g
Week 8	Water Only††	----	----	----
Week 9	Water Only††	----	----	----

Optional Supplemental Top Feeding

(1x/every 1-2 weeks Replaces Regular Feeding)

Microbe Mix @ 1/2 Strength

Microbe Mix

General Notes

pH 5.8-6.1 for all Normal & Supplemental Feedings

Grow Medium

Canna Organic Coco or BioBizz Organic Coco Mix
plus 8 quarts of Organic Perlite per 50 liter bag of coco

Microbe Mix

Full strength for transplants, 1/2 for Clones & 1/4 strength for seedlings.

Top Feed with Minimal to No Runoff

2.5-5 grams/gal - Real Growers ReCharge (microbes/trichoderma)

1 ml/gal Impello Tribus Original (microbes)

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

1 Tbsp/gal - Plantation Organic Blackstrap Unsulfured Molasses †

0.1 gram/gal - Ferti-Organic Ferti-Fulvic Plus (optional)

0.14 grams/gal - RAW Yucca by NPK Industries (wetting agent) (optional)

* Silica (Si)

Should be added before any other nutrients or additives.

Stop 2 weeks prior to harvest. See application rates below:

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

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

** GH CaliMagic @ 1.25-2.5ml/gal

Supplement as required for Cal/Mag deficiencies.

**CaliMagic is Optional
Jacks Cal-Nitrate and
Epsom can be increased
to provide additional
calcium & magnesium.

Should be added After Silica is mixed well
& Before any other nutrients or additives.
Stop 2 weeks prior to harvest.
May be used to Pre-Charge coco coir
48-72hrs prior to planting @ 2.5-5ml/gal.

(Desired Cal/Mag Concentration of water 150-200ppm/0.3-0.4EC.)

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

†† Water Only: Feed regular amounts using only water
for last 2 weeks of flower @pH 6.0-6.1

Jacks 3-2-1 Nute Recipe

	Jacks	Hydo	Cal-Nitrate	Epsom	PPM/EC (Before Silica & CalMag)
Nute Strength (100%):	3.6 g	2.4 g	1.2 g	1.0 g	1000-1100/2.0-2.2
Nute Strength (80%):	3.0 g	2.0 g	1.0 g	0.8 g	750-850/1.5-1.7
Nute Strength (50%):	1.8 g	1.25 g	0.60 g	0.5 g	500-550/1.0-1.1
Nute Strength (33%):	1.2 g	0.83 g	0.40 g	0.3 g	350-425/0.7-0.85
Nute Strength (25%):	0.9 g	0.6 g	0.3 g	0.2 g	250-325/0.5-0.65

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

Greengenes Garden (boost recipe)

Cal-Nitrate	Jacks Hydro	Epsom	JR Peters Most	MKP (Monopotassium phosphate)
2.0 -2.4g	2.0	1.5-2.0 g	0.05-0.10g	1.2 g

Run Boost Recipe 1st 2 weeks of flower or may be run the entire flower cycle.

pH Nutrient Availability Chart: <http://www.kootmed.com/.downloads/FEED/pH-Chart.pdf>

EC to PPM Covertion Chart: <https://kootmed.com/.downloads/FEED/PPM-EC-CONVERSION-CHART.pdf>