



3-2-2

STOCK CONCENTRATE

USA



Mixing Instructions

1. Start with clean stock tanks marked at target volume.
2. Add **RO** water to 50% of target volume; begin agitating the tank.
3. Add fertilizer over 5 minutes, while continuing to agitate the tank.
4. Add **RO** water to target volume; mix for 10 more minutes.
5. Validate and adjust stock tank as necessary.



What does 3-2-2 Stock Concentrate mean?

A 'stock concentrate' is created by dissolving a dry powder into RO water to create a liquid concentrate in a 'stock tank'. **3-2-2** refers to the number of 25 lb bags of each product that are added to a stock tank - Part A with three 25 lb bags per 50 gal, Part B with two 25 lb bags per 50 gal, and Bloom with two 25 lb bags per 50 gal.

Mixing with the 3-2-2 method allows each fertilizer part to be injected equally when using the stock recipe. This method is best for most situations as it allows the use of whole bags and creates equal volumes of stock concentrates which are used at the same rate.

VALIDATION INSTRUCTIONS

- Remove exactly 50 ml of well-mixed stock concentrate and add to gallon of RO water.
- Mix and check EC against validation chart. Adjust stock concentrate strength as necessary to match validation EC
- Repeat for each stock concentrate, validating against EC.

BEST PRACTICES

- Stock concentrates should be used within 2-4 weeks of mixing.
- Only mix enough stock concentrates with RO water
- Store in covered, opaque containers in a climate controlled area.

WARNING: Never mix oxidizing compounds into your stock concentrates.

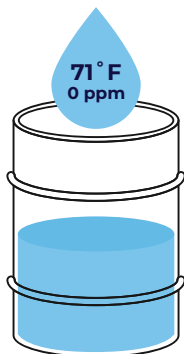
3-2-2 STOCK RATES				3-2-2 VALIDATION		
Tank	Part	gal	lbs	lbs/gal	ml/gal	Validation EC
1	A	50	75	1.50	50	2.9
2	B +PhosZyme	50	50	1.00	50	1.53
		50	6	0.12	50	+0.16 = 1.69
3	Bloom	50	50	1.00	50	1.2

VISUAL GUIDE: HOW TO MAKE STOCK CONCENTRATE

1

ADD R.O. WATER

Fill stock tank to 50% of final volume



2

ADD FRONT ROW & MIX

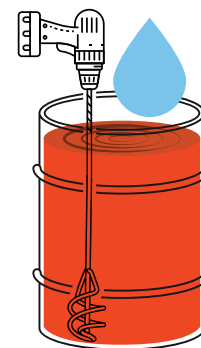
Start agitation, add total LBS/GAL for final volume, mix for 5 minutes



3

FILL

Continue agitation while filling to final volume, mix for 10 more minutes



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3-2-2 STOCK CONCENTRATE FEED CHARTS

STANDARD STRENGTH

Chart Units mL/gal		Phase	Veg/Moms	Week 1-2	Week 3-5	Week 6-8/9	Final 1-2 Weeks
		Phase Recipe	Veg	Stretch	Stack*	Swell	Ripen
		Total EC	2.6	2.4	2.2	2.0	1.6
Base Fertilizer	Stock Rate						
PART A	1.5 lbs/gal	mL/gal	29	23	20	15	10
		EC	1.7	1.3	1.1	0.9	0.6
PART B	1.0 lbs/gal	mL/gal	29	23	20	15	16
		EC	0.9	0.7	0.6	0.5	0.5
BLOOM	1.0 lbs/gal	mL/gal		16	20	27	23
		EC		0.4	0.5	0.7	0.6

Optional Inputs:

FRONT ROW Si (mL)	200 mL/gal	mL/gal	7.1	7.1	9.5	9.5	9.5
PhosZyme	54 g/gal	mL/gal	Injected with Part B				
		EC	0.09	0.07	0.06	0.05	0.05

HIGH STRENGTH

Chart Units mL/gal		Phase	Veg/Moms	Week 1-2	Week 3-5	Week 6-8/9	Final 1-2 Weeks
		Phase Recipe	Veg	Stretch	Stack*	Swell	Ripen
		Total EC	3.0	3.0	2.7	2.4	1.8
Base Fertilizer	Stock Rate						
PART A	1.5 lbs/gal	mL/gal	34	28	24	18	11
		EC	2.0	1.7	1.4	1.1	0.6
PART B	1.0 lbs/gal	mL/gal	34	28	24	18	18
		EC	1.0	0.9	0.7	0.6	0.5
BLOOM	1.0 lbs/gal	mL/gal		20	24	33	26
		EC		0.5	0.6	0.8	0.6

Optional Inputs:

FRONT ROW Si (mL)	200 mL/gal	mL/gal	4.7	4.7	4.7	7.1	9.5
PhosZyme	54 g/gal	mL/gal	Injected with Part B				
		EC	0.11	0.09	0.08	0.06	0.06

* "Stack" recipe can be used from start to finish of the flower cycle.

ADDITIVE USAGE RATES:

Additive	Usage Rate	Notes
Front Row Si	0 - 0.5 mL/gal	Si usage rate depends on feed EC, please refer to Si vs EC Table.
Triologic	1 - 2 mL/gal	Recommended to be used 1x per week.
BioFlo	30 mL/gal	Use as necessary to remove biofilm from irrigation lines.
Front Row pH Up	2.1 mL/gal (0.06%) min. 10.5 mL/gal (0.28%) max.	Usage rate shown is for 0.03-0.3% injector at 90g/gal stock rate. Contact us for alternate usage rates.

PART	CONTRIBUTED EC/G/GAL
PART A	0.322
PART B	0.255
BLOOM	0.200

Si vs EC TABLE

Feed EC	Si Usage Rate (mL/Gal)
< 2.3	0.5
2.3 - 2.7	0.375
2.7 - 3.1	0.25
3.1 - 3.5	0.125
> 3.5	0

FEED CHART NOTES: These feed charts are not a prescription, but an example of the general ranges and relationship of EC and recipes that can be used. Each facility and cultivation methodology will require customization of EC values. See the "EC Considerations" section on the Supplemental Information page of our brochure.

