



4-3-3

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.



4-3-3 Stock Concentrate Notes

4-3-3 Stock Concentrate refers to the number of 25 lb bags of each product that are added to a stock concentrate drum - Part A with four 25 lb bags per 53.5 gal, Part B with three 25 lb bags per 60 gal, and Bloom with three 25 lb bags per 60 gal.

Mixing with the 4-3-3 method allows each fertilizer part to be injected equally. This method is best for situations where the injection equipment requires higher concentrations of stock concentrate and/or lower injection ranges.

4-3-3 STOCK RATES				4-3-3 VALIDATION		
Tank	Part	gal	lbs	lbs/gal	ml/gal	Validation EC
1	A	53.5	100	1.87	50	3.6
2	B	60	75	1.25	50	1.9
3	Bloom	60	75	1.25	50	1.5

VALIDATION INSTRUCTIONS:

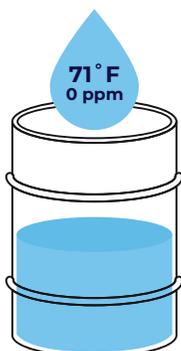
- Remove exactly 50 ml of well-mixed stock concentrate and add to 1 gallon of RO water.
- Mix and check EC against validation chart. Adjust stock concentrate strength as necessary to match validation EC
- Repeat for each stock concentrate, validating against EC.

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



4-3-3 STOCK CONCENTRATE FEED CHARTS

4-3-3 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
Base Fertilizer:		Total EC	2.6	2.4	2.2	2.0	1.6
PART A	1.87 lbs/gal	mL/gal	24	18	16	12	8
		Part A EC	1.7	1.3	1.1	0.9	0.6
PART B	1.25 lbs/gal	mL/gal	24	18	16	12	13
		Part B EC	0.9	0.7	0.6	0.5	0.5
BLOOM	1.25 lbs/gal	mL/gal		13	16	22	19
		Bloom EC		0.4	0.5	0.7	0.6

Optional Inputs:

FRONT ROW Si	200 mL/gal	mL/gal	7.1	7.1	9.5	9.5	9.5
PhosZyme	160 g/gal	mL/gal	9.5	9.5	9.5	9.5	9.5
		PhosZyme EC	0.1	0.1	0.1	0.1	0.1

4-3-3 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
Base Fertilizer:		Total EC	3.0	3.0	2.7	2.4	1.8
PART A	1.87 lbs/gal	mL/gal	27	23	19	15	9
		Part A EC	2.0	1.7	1.4	1.1	0.6
PART B	1.25 lbs/gal	mL/gal	27	23	19	15	14
		Part B EC	1.0	0.9	0.7	0.6	0.5
BLOOM	1.25 lbs/gal	mL/gal		16	19	26	21
		Bloom EC		0.5	0.6	0.8	0.6

Optional Inputs:

FRONT ROW Si	200 mL/gal	mL/gal	4.7	4.7	4.7	7.1	9.5
PhosZyme	160 g/gal	mL/gal	9.5	9.5	9.5	9.5	9.5
		PhosZyme EC	0.1	0.1	0.1	0.1	0.1

* For facilities that want to run one recipe throughout flower, use "Stack" recipe.

ADDITIVE USAGE RATES:

Additive	Usage Rate	Notes
Front Row Si	0 - 0.13 mL/L	Si usage rate depends on feed EC, please refer to SI vs EC Table.
Triologic	0.26-0.53 mL/L	Recommended to be used 1x per week.
BioFlo	8 mL/L	Use as necessary to remove biofilm from irrigation lines.

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.

