



The Secret to Success is Yours

Cutting Edge Nutrients®

Bringing Northern Cali-formulas® to your garden! The Cutting Edge Solutions® product line is developed from extensive research at real farms throughout Northern California.

CES products are:

- Simple to use
- Made with the finest, most bio-available ingredients
- Created for farmers, by farmers

Cutting Edge Beneficials

Put some wildlife in your water!

Be on the **Cutting Edge** with natural beneficial microorganisms isolated from the pristine soils of Northern California. Our beneficials are always fresh, alive and never dehydrated. Cutting Edge beneficials work to optimize soil biology and plant health with selected microflora and specialized nutrition.

We stand by our products and our customers.

Product Mixing Chart and Reference Chart

Plant Stage	Light Hours	Duration	MICRO	BLOOM	GROW	PLANT AMP	UNCLE JOHN'S	MAG AMPED	SUGAREE or SOUR-DEE	BULLET-PROOF Si	pH	EC	PPM
MIXTURE			RECIRCULATING SYSTEMS					Using Coco Coir, Rock Wool, Hydro Rock, etc.					
Cuttings Rooted	18 Hours	Customer Preference	5 ml	5 ml	10 ml	10 ml	10 ml	2 ml	0 ml	0 ml	4.0 ~ 6.5	1 ~ 2.5	500 ~ 1250
Vegetative Mix	18 Hours	1-2 Weeks	8 ml	5 ml	15 ml	10 ml	10 ml	2 ml	0 ml	1-2.5 ml	4.0 ~ 6.5	3 ~ 4	1200 ~ 2000
‡Transition Mix	12 Hours	1-2 Weeks	8 ml	15 ml	5 ml	10 ml	10 ml	2 ml	** 5-10 ml	2.5-5 ml	4.0 ~ 6.5	1.7 ~ 3.5	850 ~ 1700
Bloom Mix	12 Hours	4-8 Weeks	8 ml	20 ml	0 ml	10 ml	10 ml	5 ml	** 10-30 ml	2.5-5 ml	4.0 ~ 6.5	2.5 ~ 3.2	1400 ~ 1600
Optional Flush	12 Hours	4-7 Days	4 ml	10 ml	0 ml	10 ml	10 ml	0 ml	* 5-15 ml	0 ml	4.0 ~ 6.5	1.5 ~ 2.5	750 ~ 1250
MIXTURE			DRAIN TO WASTE SYSTEMS / SOIL					Using Coco Coir, Rock Wool, Hydro Rock, or 100% Soil					
Cuttings Rooted	18 Hours	Customer Preference	5 ml	5 ml	10 ml	10 ml	10 ml	2 ml	0 ml	0 ml	4.0 ~ 6.5	1 ~ 2.5	500 ~ 1250
Vegetative Mix	18 Hours	1-2 Weeks	5 ml	5 ml	10 ml	10 ml	10 ml	2 ml	0 ml	1-2.5 ml	4.0 ~ 6.5	1 ~ 2.5	1000 ~ 1500
‡Transition Mix	12 Hours	1-2 Weeks	5 ml	10 ml	5 ml	10 ml	10 ml	2 ml	** 5-10 ml	2.5-5 ml	4.0 ~ 6.5	1.3 ~ 2.3	900 ~ 1200
Bloom Mix	12 Hours	4-8 Weeks	5 ml	15 ml	0 ml	10 ml	10 ml	5 ml	** 10-30 ml	2.5-5 ml	4.0 ~ 6.5	1.2 ~ 2.2	850 ~ 1200
Optional Flush	12 Hours	4-7 Days	2 ml	5 ml	0 ml	10 ml	10 ml	0 ml	* 5-15 ml	0 ml	4.0 ~ 6.5	0.5 ~ 1.2	230 ~ 600
FOLIAR SPRAY MIXES	For Vegetative Cycle / Root Cuttings												
	N/A	N/A	N/A	N/A	2.5 ml	10 ml	10 ml	0 ml	N/A	1-2.5 ml	N/A	N/A	N/A
	For Cal-Mag Solution												
	N/A	N/A	N/A	N/A	N/A	10 ml	0 ml	2.5 ml	N/A	N/A	N/A	N/A	N/A
	For Low-Light Situations or Light Depravity												
	N/A	N/A	N/A	N/A	2.5 ml	0 ml	0 ml	5 ml	N/A	2.5-5 ml	N/A	N/A	N/A

Measurements in Milliliters Per Gallon

NOTE Plant Amp™ contains Organic Acids which cause a temporary low pH reading. **Do Not Adjust pH up.** The pH will rise naturally as the plant uptakes the chelated calcium in one or two days.

Bulletproof Si® must be added to nutrient mix prior to any other product "Add Bulletproof first"

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‡ used for slower growing plants

* optional

‡ If used through the entire cycle, use @ 10ml/gal. If used only the last 4 weeks, use 10ml/gal with an increase to 30ml per gal for the final two weeks. Sugaree and Sour-Dee can be used together to create the powerful Sweet-N-Sour mix.

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