Feed Chart - Uniform Dosage Rates

Per gallon of finished water | mL of 1:1 stock solution or grams for hand batching

Each dose cell shows: **mL** 1:1 stock / grams hand batch	Stocking Ratio	Vegetative Phase (wks)				Flowering Phase (wks)							
	(lb) : Gal	Rooting Clones	1	2	3+	1	2	3	4	5	6	7	8+
VPS 3-22-36	**1:1**	**14 mL** 1.7 g	**18 mL** 2.2 g	**24 mL** 2.9 g		**30 mL** 3.6 g			**35 mL** 4.2 g			**30 mL** 3.6 g	
VPS Calcium Nitrate	**1:1**	**19 mL** 2.3 g	**30 mL** 3.6 g	**32 mL** 3.8 g		**32 mL** 3.8 g			**25 mL** 3.0 g			**20 mL** 2.4 g	
VPS Magnesium Sulfate	**1:1**	**12 mL** 1.4 g	**22 mL** 2.6 g	**22 mL** 2.6 g		**26 mL** 3.1 g			**26 mL** 3.1 g			**30 mL** 3.6 g	
VPS pH Up		As needed to target pH - approx. 0.25 - 2.5 mL / gal											
Est. Expected EC		1.5	2.1	2.4		2.6			2.5			2.4	
Ideal pH		5.7 - 6.2 pH											

RECOMMENDED WEEKLY DRENCH													
VPS Commercial Silicon	1 mL / gal				1 mL / gal								
Mammoth P	0.6 mL / gal				0.6 mL / gal								
VPS Microbes	0.3 g / Week				0.3 g / Week								
VPS FlaVUH 0-0-4	3 mL / Week				4 mL / Week								
VPS Commercial Seaweed				1 g/wk	1-2 g/wk	1-2 g/wk				1-2 g/wk	1-2 g/wk		

Notes

1. Rates are per gallon of finished water. **Stock solution:** dose mL of a 1:1 stock (1 lb product made up to 1 gal of solution, ~0.12 g per mL). **Hand batching:** weigh grams of dry product. Based on ideal conditions (1000+ PPFD, 1000+ PPM CO_2, ideal airflow). EC values are estimates; a range of ± 0.3 EC is acceptable.
2. Rates are based on ***optimized*** growth conditions in inert media (Stonewool/Coco Coir). Feeding rates and watering schedules will vary depending on the environment (VPD, CO_2, PPFD) and size of the crop. Fertilizer rates may be adjusted to suit cultivar and/or environmental conditions.
3. VPS Nutrients are formulated to not contain heavy metals, unnatural organic compounds or unnecessary additives. **Optional pre-harvest recommendation:** run 4 days of Magnesium Sulfate alone at 30 mL/gal (3.6 g/gal) prior to harvest, or prior to an additional 4-day straight RO flush. High magnesium at the end of the cycle can promote a cleaner-burning product.
4. Mixing order: 3-22-36, Calcium Nitrate, Magnesium Sulfate, then VPS pH Up last. Keep Calcium Nitrate stock in its own tank, separate from 3-22-36 and Magnesium Sulfate stocks.
5. **VPS pH Up is dosed as needed to reach the target pH range**, typically 0.25 - 2.5 mL/gal. The amount will vary with water quality, seasonal water changes and RO output, so dose to meter reading rather than by volume.
6. **Recommended weekly drench:** apply Silicon, Mammoth P, FlaVUH, Microbes and Seaweed with plain water only. Stash Blend can also be incorporated into this mix at 1 tsp per gal. Add Silicon to the water first and mix fully before adding anything else. Post-irrigation line clearing with RO or treated RO is recommended for drip irrigation after a drench.
7. 10-15% runoff target is encouraged to maintain proper media EC. Weekly runoff readings are strongly recommended to adjust runoff % to achieve desired results.