PROFESSIONAL HOPS APPLICATION GUIDE

Commercial Recipe	Cuttings	Vege	Vegetative Growth			Fruiting/Flowering Period							
	Transplanting	Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week8	
Mix with Water Foliar Spraying (All measurements per Gallon/3.75L of water) 1Tsp=5ml / 1Tbsp=15ml Always use unchlorinated water! Rates of application may vary / *strain specific													
A.C.E.™ Spray		15ml	15ml	15ml	30ml	30ml	30ml						

Top Dressing (1x / Month)	(All measurements per 1000 ft 2 / 93 m 2) 1 lb = 0.45 kg Rates of application may vary / *strain specific									
*Discontinue 2-3 weeks prior to harvest	Cuttings Transplanting	Month 1	Month 2	Month 3	Month 4	Month 5				
High Phos 3-6-1 Bat Guano				25lbs	25lbs	25 lbs				
MPP™: Mineral Phosphate Powder™ 0-9-0				25 lbs	25 lbs	25 lbs				
Seabird Guano 0-13-0				25 lbs	25 lbs	25 lbs				
High Nitro 8-3-1 Bat Guano			22lbs	22lbs						
Land & Sea Ultra Blend™ 9-1-5	11 lbs	22 lbs	22 lbs	22 lbs						
TLB™: Teak Leaves Blend™	25lbs	25lbs	25lbs	25lbs	25lbs	25lbs				
Soluble Seaweed Extract 0-0-17	20 lbs	20lbs	20lbs	20lbs	20lbs	20 lbs				
Crab Meal 60 mesh / Crab Powder 400 mesh	20lbs	20lbs	20lbs	20lbs	20lbs	20 lbs				

Bulk Mixing Guide *Review of so	l labs required	Amount used depends on size of plants being fed. When combining more than one type of guano, be sure not to exceed more than a combined total of 1-2 Tsp. per gallon / 5-10ml per 4 liters of soil.							
High Phos 3-6-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	VOC: Volcanic Ore Concentrate	4-12 lbs/yd (2-5.5kg / 0.76m³)						
High Nitro 8-3-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	VRD: Volcanic Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m³)						
Land & Sea Ultra Blend™ 9-1-5	4-8 lbs/yd (2-4kg / 0.76m³)	Glacial Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m³)						
MPP™: Mineral Phosphate Powder™ 0-9-0	4-8 lbs/yd (2-4kg / 0.76m³)	TLB™: Teak Leaves Blend™	2-12% total volume						
Seabird Guano 0-13-0	4-8 lbs/yd (2-4kg / 0.76m³)	Crab Meal 60 mesh / Crab Powder 400 mesh	4-8 lbs/yd (2-4kg / 0.76m³)						
High Nitro 5-1-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	Soluble Seaweed Extract 0-0-17	4-8 lbs/yd (2-4kg / 0.76m³)						

Commercial Recipe	Cuttings	Vegetative Growth				Fruiting/Flowering Period							
Commercial Necipe	Transplanting	Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week8	
Mix with Water Foliar Spraying (A)	measurements pe	er Gallon/3.7	5L of water)	1Tsp=5n	nl / 1Tbsp=15ml	Always u	se unchlorina	ted water!	Rates of app	olication may	<i>ı</i> vary / *strair	n specific	
A.C.E.™ Spray		15ml	15ml	15ml	30ml	30ml	30ml						
Top Dressing (1x / Month)		(All measurements per 1000 ft² / 93 m²) 1 lb = 0.45 kg Rates of application may vary / *strain specific											
*Discontinue 2-3 weeks prior to harvest	Cuttings Transpla	anting	nting Month 1		Month 2	onth 2 Month 3			Month 4		Month 5		
High Phos 3-6-1 Bat Guano							25lbs		25lbs		25 lbs	3	
MPP™: Mineral Phosphate Powder™ 0-9-0							25 lbs		25 lbs		25 lbs	3	
Seabird Guano 0-13-0							25 lbs		25 lbs		25 lbs	3	
High Nitro 8-3-1 Bat Guano					22lbs		22lbs						
High Nitro 5-1-1 Bat Guano	22 lbs		22 lbs		22 lbs		22 lbs						
TLB™: Teak Leaves Blend™	25lbs		25lbs		25lbs		25lbs		25lbs		25lbs		
Soluble Seaweed Extract 0-0-17	20 lbs		22 lbs		20lbs		20lbs		20lbs		20 lbs		
Crab Meal 60 mesh / Crab Powder 400 mesh	20lbs		20lbs		20lbs		20lbs		20lbs		20 lbs	3	

Bulk Mixing Guide *Review of soi	il labs required	Amount used depends on size of plants being fed. When combining more than one type of guano, b sure not to exceed more than a combined total of 1-2 Tsp. per gallon / 5-10ml per 4 liters of soil.						
High Phos 3-6-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	VOC: Volcanic Ore Concentrate	4-12 lbs/yd (2-5.5kg / 0.76m³)					
High Nitro 8-3-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	VRD: Volcanic Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m³)					
High Nitro 5-1-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	Glacial Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m³)					
MPP™: Mineral Phosphate Powder™ 0-9-0	4-8 lbs/yd (2-4kg / 0.76m³)	TLB™: Teak Leaves Blend™	2-12% total volume					
Seabird Guano 0-13-0	4-8 lbs/yd (2-4kg / 0.76m³)	Crab Meal 60 mesh / Crab Powder 400 mesh	4-8 lbs/yd (2-4kg / 0.76m³)					
High Nitro 5-1-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	Soluble Seaweed Extract 0-0-17	4-8 lbs/yd (2-4kg / 0.76m³)					

PROFESSIONAL HOPS APPLICATION GUIDE

Commercial Recipe	Cuttings	Vege	Vegetative Growth			Fruiting/Flowering Period							
	Transplanting	Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week8	
Mix with Water Foliar Spraying (All measurements per Gallon/3.75L of water) 1Tsp=5ml / 1Tbsp=15ml Always use unchlorinated water! Rates of application may vary / *strain specific													
A.C.E.™ Spray		15ml	15ml	15ml	30ml	30ml	30ml						

Top Dressing (1x / Month)	(All	measurements per 1000	ft² / 93 m²) 1 lb :	= 0.45 kg Rates of a	pplication may vary / *stra	ain specific
*Discontinue 2-3 weeks prior to harvest	Cuttings Transplanting	Month 1	Month 2	Month 3	Month 4	Month 5
High Phos 3-6-1 Bat Guano				25lbs	25lbs	25 lbs
High Nitro 8-3-1 Bat Guano			22lbs	22lbs		
Land & Sea Ultra Blend™ 9-1-5	11 lbs	22 lbs	22 lbs	22 lbs		
Crab Meal 60 mesh / Crab Powder 400 mesh	20lbs	20lbs	20lbs	20lbs	20lbs	20 lbs

Bulk Mixing Guide *Review of soi	il labs required	Amount used depends on size of plants being fed. When combin sure not to exceed more than a combined total of 1-2 Tsp. per g	0 ,1 0 ,
High Phos 3-6-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	VOC: Volcanic Ore Concentrate	4-12 lbs/yd (2-5.5kg / 0.76m³)
High Nitro 8-3-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	VRD: Volcanic Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m³)
Land & Sea Ultra Blend™ 9-1-5	4-8 lbs/yd (2-4kg / 0.76m³)	Glacial Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m³)
MPP™: Mineral Phosphate Powder™ 0-9-0	4-8 lbs/yd (2-4kg / 0.76m³)	TLB™: Teak Leaves Blend™	2-12% total volume
Seabird Guano 0-13-0	4-8 lbs/yd (2-4kg / 0.76m³)	Crab Meal 60 mesh / Crab Powder 400 mesh	4-8 lbs/yd (2-4kg / 0.76m³)
High Nitro 5-1-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m³)	Soluble Seaweed Extract 0-0-17	4-8 lbs/yd (2-4kg / 0.76m³)



PROFESSIONAL HOPS APPLICATION GUIDE

Milk with Water	Craft Booing	Cuttings	Veg	etative	ve Growth Fruiting/Flow					vering Period			
A.C.E.™ Spray Similar Similar	Craft Recipe	Transplanting	Week 1	Week 2	2 Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week8
Soluble Sawwed Extract Q-0-17 Smill Smi	Mix with Water (All n	measurements per Gallo	n/3.75L of w	rater)	1Tsp=5ml / 1Tbs	sp=15ml	Always use	unchlorinate	d water!	Rates of ap	oplication ma	ay vary / *stra	in specific
Amount and depends on sow of plants being field. Amount and agreew water for 12-24 frozer with improved ratios of specific plants on the field of the control of the con	A.C.E.™ Spray		15ml	15ml	15ml	30ml	30ml	30ml					
High Phos 3-6-1 Bat Guano High Nitro 5-1-1 Bat Gua	Soluble Seaweed Extract 0-0-17	5ml	5ml	10ml	15ml	30ml	30ml	30ml					
MPP™ Mineral Phosphate Powder™ 0-9-0 Senit Guano 0-13-0 Senit G	Foliar Spraying											filter and spr	ay. When
Seabird Guano 0-13-0	High Phos 3-6-1 Bat Guano			5ml		7ml	7ml	7ml					
High Nitro 8-3-1 Bat Guano	MPP™: Mineral Phosphate Powder™ 0-9-0		5ml		5ml	5ml		5ml					
Figh Nitro 5-1-1 Bat Guano	Seabird Guano 0-13-0		5ml		5ml	5ml		5ml					
Seawed Powder	High Nitro 8-3-1 Bat Guano		5ml	5ml	7ml	7ml	7ml	7ml					
Seawed Powder Smile Smi	High Nitro 5-1-1 Bat Guano		5ml	5ml	7ml	7ml	7ml	7ml					
Soluble Seaweed Extract 0-0-17 Sml	TLB™: Teak Leaves Blend™		5ml	5ml	7ml	7ml	7ml	7ml					
Teal Applications	Seaweed Powder	5ml	5ml	10ml	15ml	30ml	30ml	30ml					
All measurements per gallon of water. Aerate and agitate water for 12-24 hours with ingredients in NOREY POT Stir vigorously and water horse blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea applications per week as a substitute for the nutrients muser with water. Patter of application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application may vary / recorp specific blaze 2-3 tea application m	Soluble Seaweed Extract 0-0-17		5ml	5ml	5ml	5ml	5ml	5ml					
High Phos 3-6-1 Bat Guano	Crab Powder 400 mesh		5ml		5ml	5ml		5ml					
MPP™: Mineral Phosphate Powder™ 0-9-0	Tea Applications											and water ir	nmediately.
Seabird Guano 0-13-0	High Phos 3-6-1 Bat Guano			10ml	15ml	15ml	15ml	15ml		30ml	30ml	30ml	
Seabird Guano 0-13-0	MPP™: Mineral Phosphate Powder™ 0-9-0			10ml	15ml	15ml	15ml	15ml		30ml	30ml	30ml	
High Nitro 8-3-1 Bat Guano	•			-	+		-					+	
High Nitro 5-1-1 Bat Guano	High Nitro 8-3-1 Bat Guano			5ml	5ml	7ml	7ml	7ml					
TLB™: Teak Leaves Blend™ Sml				 	+								
Seaweed Powder Sml 15ml 15ml 15ml 15ml 30ml	-	5ml		 	+		-	-		30ml	30ml	30ml	
Soluble Seaweed Extract 0-0-17	Seaweed Powder	<u> </u>	15ml		+							 	
Top Dressing	Soluble Seaweed Extract 0-0-17		 	10ml	10ml	15ml	15ml		15ml	15ml			
Top Dressing	Crab Powder 400 mesh	5ml	15ml		15ml	15ml		15ml		<u> </u>	<u> </u>		
MPP™: Mineral Phosphate Powder™ 0-9-0 5ml	Top Dressing	(All measure	ments per ga	illon/3.75 l					=65ml l	Rates of appl	lication may	vary / *strain	specific
Seabird Guano 0-13-0 5ml	High Phos 3-6-1 Bat Guano		5ml			5ml		5ml		5ml	5ml		
Land & Sea Ultra Blend™ 9-1-5 5ml 10ml 5ml 10ml 5ml	MPP™: Mineral Phosphate Powder™ 0-9-0		5ml			5ml		5ml		5ml	5ml		
High Nitro 8-3-1 Bat Guano Sml	Seabird Guano 0-13-0		5ml			5ml		5ml		5ml	5ml		
High Nitro 5-1-1 Bat Guano 5ml 5ml 5ml 5ml 5ml 5ml 5ml 5m	Land & Sea Ultra Blend™ 9-1-5			5ml	5ml		5ml	5ml					
TLB™: Teak Leaves Blend™ 5ml	High Nitro 8-3-1 Bat Guano			5ml	5ml		5ml	5ml					
Soluble Seaweed Extract 0-0-17 5ml	High Nitro 5-1-1 Bat Guano	5ml		5ml			10ml	5ml		10ml			
Crab Meal 60 mesh / Crab Powder 400 mesh Bulk Mixing Guide Amount used depends on size of plants being fed. When combining more than one type of guano, to sure not to exceed more than a combined total of 1-2 Tsp. per gallon / 5-10ml per 4 liters of soil. High Phos 3-6-1 Bat Guano 4-8 lbs/yd (2-4kg / 0.76m³) VOC: Volcanic Ore Concentrate™ 4-12 lbs/yd (2-5.5kg / 0.76m³) MPP™: Mineral Phosphate Powder™ 0-9-0 4-8 lbs/yd (2-4kg / 0.76m³) Glacial Rock Dust™ 4-12 lbs/yd (2-5.5kg / 0.76m²) 4-12 lbs/yd (2-5.5kg / 0.76m²)	TLB™: Teak Leaves Blend™	5ml		5ml			10ml			10ml	10ml		
Bulk Mixing Guide Amount used depends on size of plants being fed. When combining more than one type of guano, to sure not to exceed more than a combined total of 1-2 Tsp. per gallon / 5-10ml per 4 liters of soil. WOC: Volcanic Ore Concentrate TM 4-12 lbs/yd (2-5.5kg / 0.76m ³) WRD: Volcanic Rock Dust TM 4-12 lbs/yd (2-5.5kg / 0.76m ³) Seabird Guano 0-13-0 4-8 lbs/yd (2-4kg / 0.76m ³) Glacial Rock Dust 4-12 lbs/yd (2-5.5kg / 0.76m ³)	Soluble Seaweed Extract 0-0-17	5ml		5ml			10ml	5ml		10ml			
sure not to exceed more than a combined total of 1-2 Tsp. per gallon / 5-10ml per 4 liters of soil. High Phos 3-6-1 Bat Guano 4-8 lbs/yd (2-4kg / 0.76m³) VOC: Volcanic Ore Concentrate TM 4-12 lbs/yd (2-5.5kg / 0.76m³) MPP TM : Mineral Phosphate Powder TM 0-9-0 4-8 lbs/yd (2-4kg / 0.76m³) VRD: Volcanic Rock Dust TM 4-12 lbs/yd (2-5.5kg / 0.76m³) Seabird Guano 0-13-0 4-8 lbs/yd (2-4kg / 0.76m³) Glacial Rock Dust 4-12 lbs/yd (2-5.5kg / 0.76m³)	Crab Meal 60 mesh / Crab Powder 400 mesh	5ml		5ml	5ml		5ml		5ml				
MPP™: Mineral Phosphate Powder™ 0-9-0 4-8 lbs/yd (2-4kg / 0.76m³) VRD: Volcanic Rock Dust™ 4-12 lbs/yd (2-5.5kg / 0.76m³) Seabird Guano 0-13-0 4-8 lbs/yd (2-4kg / 0.76m³) Glacial Rock Dust 4-12 lbs/yd (2-5.5kg / 0.76m²)	Bulk Mixing Guide												
Seabird Guano 0-13-0 4-8 lbs/yd (2-4kg / 0.76m³) Glacial Rock Dust 4-12 lbs/yd (2-5.5kg / 0.76m²)	High Phos 3-6-1 Bat Guano	4-8 lbs/yd (2-4k	g / 0.76m ³	3)	/OC: Volcanio	Ore Con	centrate™	M		4-12	lbs/yd (2-	5.5kg / 0.7	′6m³)
,	MPP™: Mineral Phosphate Powder™ 0-9-0	4-8 lbs/yd (2-4k	g / 0.76m ³	3) 1	/RD: Volcanio	c Rock Du	ıst™			4-12 lbs/yd (2-5.5kg / 0.76m³)			
	Seabird Guano 0-13-0	4-8 lbs/yd (2-4k	g / 0.76m ³	3) (Glacial Rock	Dust				4-12	lbs/yd (2-	5.5kg / 0.7	′6m³)
Land & Sea Ultra Blend™ 9-1-5 4-8 lbs/yd (2-4kg / 0.76m³) TLB™: Teak Leaves Blend™ 2-12% total volume	Land & Sea Ultra Blend™ 9-1-5	4-8 lbs/yd (2-4k	g / 0.76m ³	3) 1	ΓLB™: Teak I								
High Nitro 8-3-1 Bat Guano 4-8 lbs/yd (2-4kg / 0.76m³) Seaweed Powder 4-8 lbs/yd (2-4kg / 0.76m³)	High Nitro 8-3-1 Bat Guano	4-8 lbs/yd (2-4k	g / 0.76m ³	3) 9	Seaweed Pov	vder				4-8	B lbs/yd (2-	-4kg / 0.76	m³)
High Nitro 5-1-1 Bat Guano 4-8 lbs/yd (2-4kg / 0.76m³) Soluble Seaweed Extract 0-0-17 4-8 lbs/yd (2-4kg / 0.76m³)	High Nitro 5-1-1 Bat Guano	4-8 lbs/yd (2-4k	g / 0.76m ³	3)	Soluble Seawe	eed Extrac	t 0-0-17			4-8	B lbs/yd (2-	-4kg / 0.76	m³)
Crab Meal 60 mesh / Crab Powder 400 mesh 4-8 lbs/yd (2-4kg / 0.76m³		·		1	Crab Meal 60	mesh / C	rab Powd	ler 400 me	esh	4-8	3 lbs/yd (2-	-4kg / 0.76	im³)