



Bee Friendly™

PROFESSIONAL HOPS APPLICATION GUIDE V1

Commercial Recipe	Cuttings Transplanting	Vegetative Growth			Fruiting/Flowering Period							
		Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
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 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 soil 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)

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PROFESSIONAL HOPS APPLICATION GUIDE V2

Commercial Recipe	Cuttings Transplanting	Vegetative Growth			Fruiting/Flowering Period							
		Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8

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						
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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 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		
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	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 soil 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 / 0.76m ³)	VOC: Volcanic Ore Concentrate	4-12 lbs/yd (2-5.5kg / 0.76m ³)
High Nitro 8-3-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m ³)	VRD: Volcanic Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m ³)
High Nitro 5-1-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m ³)	Glacial Rock Dust	4-12 lbs/yd (2-5.5kg / 0.76m ³)
MPP™: Mineral Phosphate Powder™ 0-9-0	4-8 lbs/yd (2-4kg / 0.76m ³)	TLB™: Teak Leaves Blend™	2-12% total volume
Seabird Guano 0-13-0	4-8 lbs/yd (2-4kg / 0.76m ³)	Crab Meal 60 mesh / Crab Powder 400 mesh	4-8 lbs/yd (2-4kg / 0.76m ³)
High Nitro 5-1-1 Bat Guano	4-8 lbs/yd (2-4kg / 0.76m ³)	Soluble Seaweed Extract 0-0-17	4-8 lbs/yd (2-4kg / 0.76m ³)

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Commercial Recipe	Cuttings Transplanting	Vegetative Growth			Fruiting/Flowering Period							
		Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
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 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
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 soil 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)

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PROFESSIONAL HOPS APPLICATION GUIDE

Craft Recipe	Cuttings Transplanting	Vegetative Growth			Fruiting/Flowering Period							
		Week 1	Week 2	Week 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Mix with Water		(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					
Soluble Seaweed Extract 0-0-17	5ml	5ml	10ml	15ml	30ml	30ml	30ml					
Foliar Spraying		Amount used depends on size of plants being fed. Aerate and agitate water for 12-24 hours with ingredients in cloth mesh bag then filter and spray. When combining more than one type of guano, be sure not to exceed more than a combined total of 15-30ml per 3.75 liters of water.										
High Phos 3-6-1 Bat Guano			5ml		7ml	7ml	7ml					
MPP™: Mineral Phosphate Powder™ 0-9-0		5ml		5ml	5ml		5ml					
Seabird Guano 0-13-0		5ml		5ml	5ml		5ml					
High Nitro 8-3-1 Bat Guano		5ml	5ml	7ml	7ml	7ml	7ml					
High Nitro 5-1-1 Bat Guano		5ml	5ml	7ml	7ml	7ml	7ml					
TLB™: Teak Leaves Blend™		5ml	5ml	7ml	7ml	7ml	7ml					
Seaweed Powder	5ml	5ml	10ml	15ml	30ml	30ml	30ml					
Soluble Seaweed Extract 0-0-17		5ml	5ml	5ml	5ml	5ml	5ml					
Crab Powder 400 mesh		5ml		5ml	5ml		5ml					
Tea Applications		All measurements per gallon of water. Aerate and agitate water for 12-24 hours with ingredients in  . Stir vigorously and water immediately. Use 2-3 tea applications per week as a substitute for the nutrients mixed with water. Rates of application may vary / *crop specific										
High Phos 3-6-1 Bat Guano			10ml	15ml	15ml	15ml	15ml		30ml	30ml	30ml	
MPP™: Mineral Phosphate Powder™ 0-9-0			10ml	15ml	15ml	15ml	15ml		30ml	30ml	30ml	
Seabird Guano 0-13-0			10ml	15ml	15ml	15ml	15ml		30ml	30ml	30ml	
High Nitro 8-3-1 Bat Guano			5ml	5ml	7ml	7ml	7ml					
High Nitro 5-1-1 Bat Guano			5ml	15ml	5ml	10ml	10ml					
TLB™: Teak Leaves Blend™	5ml		5ml	5ml	7ml	7ml	7ml		30ml	30ml	30ml	
Seaweed Powder	5ml	15ml		15ml	30ml		30ml		30ml	30ml	30ml	
Soluble Seaweed Extract 0-0-17		10ml	10ml	10ml	15ml	15ml	15ml	15ml	15ml	15ml		
Crab Powder 400 mesh	5ml	15ml		15ml	15ml		15ml					
Top Dressing		(All measurements per gallon/3.75 Liters of soil)			1Tsp=5ml / 1Tbsp=15ml 1/4cup=65ml			Rates of application may vary / *strain specific				
High Phos 3-6-1 Bat Guano		5ml			5ml		5ml		5ml	5ml		
MPP™: Mineral Phosphate Powder™ 0-9-0		5ml			5ml		5ml		5ml	5ml		
Seabird Guano 0-13-0		5ml			5ml		5ml		5ml	5ml		
Land & Sea Ultra Blend™ 9-1-5			5ml	5ml		5ml	5ml					
High Nitro 8-3-1 Bat Guano			5ml	5ml		5ml	5ml					
High Nitro 5-1-1 Bat Guano	5ml		5ml			10ml	5ml		10ml			
TLB™: Teak Leaves Blend™	5ml		5ml			10ml			10ml	10ml		
Soluble Seaweed Extract 0-0-17	5ml		5ml			10ml	5ml		10ml			
Crab Meal 60 mesh / Crab Powder 400 mesh	5ml		5ml	5ml		5ml		5ml				
Bulk Mixing Guide		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)					
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 / 0.76m³)					
Land & Sea Ultra Blend™ 9-1-5	4-8 lbs/yd (2-4kg / 0.76m³)	TLB™: Teak Leaves Blend™					2-12% total volume					
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 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)					
		Crab Meal 60 mesh / Crab Powder 400 mesh					4-8 lbs/yd (2-4kg / 0.76m³)					