

# **Poly-Feed™ Crop Nutrition Program**





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# Poly-Feed™

#### Soluble NPK fertilizers

Poly-Feed $^{\text{TM}}$  is a range of fully water-soluble NPK fertilizers, designed to provide complete plant nutrition throughout the growth season. The wide choice of formulae and compositions meets the needs of vegetable crops, fruit-trees and flowers at all growth environments.

Poly-Feed™ products enable growers feed crops according to their developing needs by means of Nutrigation™ and Foliar Feeding, application methods that offer maximum efficiency of nutrient use, optimal growth and minimized pollution of soil, water and air.

#### The special advantages of Poly-Feed™ products

- Fully water soluble, safe for use with all irrigation and spraying systems
- Consist of pure plant nutrients exclusively
- Free of chloride, sodium, and other detrimental elements
- · Made of high quality ingredients
- · Enriched with high levels of micronutrients

#### Poly-Feed™ product lines

- Poly-Feed™ GG For soil and soilless grown greenhouse crops
- Poly-Feed™ Foliar Special formulae for foliar feeding
- Poly-Feed™ Stim Combined solutions for better crop production

## **Poly-Feed™ GG**

#### Greenhouse-grade formulae



Intensive crop production in greenhouse requires maximum control over all growth parameters. Under fully controlled environment, precise supply of plant nutrients is a prerequisite to ensure optimal development and maximal yields.

Poly-Feed™ GG is a range of rich, balanced fertilizers for soil and soilless greenhouse crops.

Nutrigation™ with Poly-Feed™ GG provides complete plant nutrition through all growth stages.

#### The advantages of using Poly-Feed™ GG pre-calculated formulae

- · Saving on time and efforts in preparations
- · Accurate composition of the nutrient solution, with no errors
- No wastes and losses of expensive raw materials

Poly-Feed™ GG formulae are also suitable for foliar application.

Poly-Feed™ GG is easily identified by the red color of both the bag and the product.

## **Poly-Feed™ Foliar**

## NPK fertilizers for foliar feeding

Poly-Feed™ Foliar nourishes crops with their exact needs during critical growth phases, for maximum yields and top quality. Foliar spraying with Poly-Feed™ Foliar is commonly used as a supplement to soil-applied fertilizers. Under certain growth conditions, foliar feeding with Poly-Feed™ Foliar can replace soil application of fertilizers, mainly for short-season crops.

Poly-Feed™ Foliar formulae are based on low-biuret urea and contain high concentrations entrations of micro-nutrients in the form of EDTA chelates.

Poly-Feed™ Foliar is easily identified by the green color of both the bag and the product.



# **Poly-Feed™ Stim**

#### Combined solutions for better crop production

Poly-Feed™ Stim is a range of products that combine Haifa's high-quality water-soluble fertilizers with natural bio-stimulant compounds. Poly-Feed™ Stim products provide the growing plant with optimal nutrition, while enhancing the performance of physiological mechanisms and improving the entire growth system. This results in healthy development and better yield.

Complete fertilization program should include continuous supply of nutrients by Nutrigation $^{\text{m}}$ , and supplemental foliar application to support growth at critical stages. See reverse side of this sheet.





# **Tomato Open Field**, Target Yield = 70 MT/Ha

Foliar application				
Product	Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 12-5-40+1MgO+ME	
Application rate	1-2 kg/ha	1-2 kg/ha	2-4 kg/ha	
Spray Conc. / Volume	0.5%-1% / 200 l/ha	0.5%-1% / 200 l/ha	1.5%-2% / 300-400 l/ha	
Application frequency	Every 14 days	Every 14 days	Every 14 days	
Growth stage				
Stage duration (days)	Vegetative stage 25	First flowering cluster and first fruit-set 30	Fruit filling + new flowering clusters 20	Ripening and harvest 20
Soil application / N	lurtigation™			
Product	Poly-Feed™ 20-20-20+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	8 kg/ha/day	16 kg/ha/day	19.25 kg/ha/day	19.25 kg/ha/day



# **Tomato Greenhouse Soil,** Target Yield = 160 MT/Ha

Foliar application				
Product		Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 21-11-21+2MgO+ME	Poly-Feed™ 12-5-40+1MgO+ME
Application rate		1-2 kg/ha	2-4 kg/ha	2-4 kg/ha
Spray Conc. / Volume		1%-1.5% / 200-300 l/ha	1.5%-2% / 300-400 l/ha	1.5%-2% / 300-400 l/ha
Application frequency		Every 14 days	Every 14 days	Every 14 days
Growth stage				
	Vegetative stage	First flowering cluster and first fruit-set	Fruit filling + new flowering clusters	Ripening - end of growth cycle
Stage duration (days)	8	25	30	110
Soil application / N	urtigation™			
Product	Poly-Feed™ 15-30-15+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	8 kg/ha/day	13 kg/ha/day	21.5 kg/ha/day	19.5 kg/ha/day
Total volume per stage	64 Kg/ha	325 Kg/ha	650Kg/ha	2145 Kg/ha

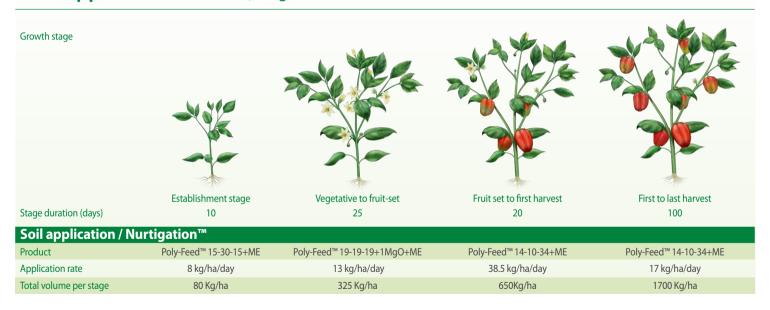


# **Bell Pepper Open Field,** Target Yield = 80 MT/Ha

	-			
Foliar application				
Product		Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 21-11-21+2MgO+ME	Poly-Feed™ 12-5-40+1MgO+ME
Application rate		1-2 kg/ha	2-4 kg/ha	2-4 kg/ha
Spray Conc. / Volume		1%-1.5% / 200-300 l/ha	1.5%-2% / 300-400 l/ha	1.5%-2% / 300-400 l/ha
Application frequency		Every 14 days	Every 14 days	Every 14 days
Growth stage				
	Establishment stage	Vegetative	Fruit set to first harvest	First to last harvest
Stage duration (days)	14	14	40	75
Soil application / N	urtigation™			
Product	Poly-Feed™ 20-20-20+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	8 kg/ha/day	20 kg/ha/day	30 kg/ha/day	19 kg/ha/day
Total volume per stage	80 Kg/ha	325 Kg/ha	650Kg/ha	1700 Kg/ha

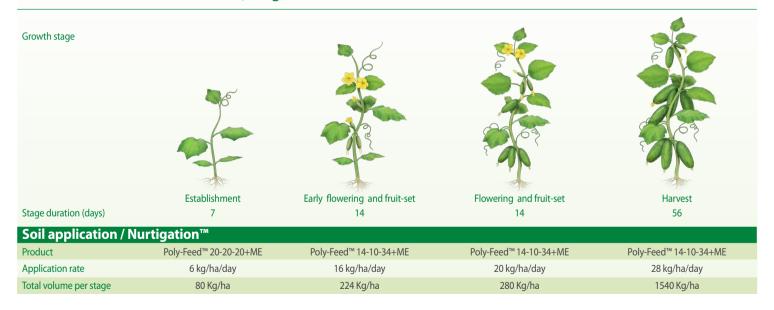


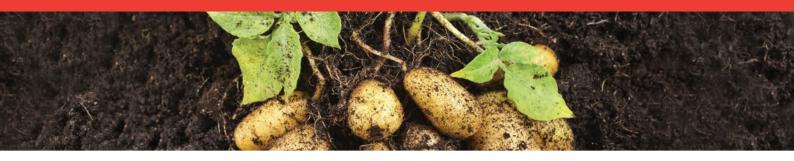
## **Bell Pepper Protected Soil**, Target Yield = 100 MT/Ha





## **Cucumber Protected Soil,** Target Yield = 120 MT/Ha





# Potato, Target Yield = 60 MT/Ha

- 10			
Foliar application			
Product		Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 12-5-4+1MgO+ME
Application rate		2-4 kg/ha	2-4 kg/ha
Spray Conc. / Volume		2%-5% / 50-80 l/ha	2%-4% / 50-80 l/ha
Application frequency		Every 14 days	2 aplications
Growth stage		"Hock" stage "Swelling" stage	
Stage duration (days)	Planting and establishment 30	*Initiation* stage*  Tuber initiation 25	Tuber growth 55
Soil application / Nu	urtigation™		
Product	Poly-Feed™ 20-20-20+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	6 kg/ha/day	18 kg/ha/day	18 kg/ha/day
Total volume per stage	180 Kg/ha	450 Kg/ha	990 Kg/ha

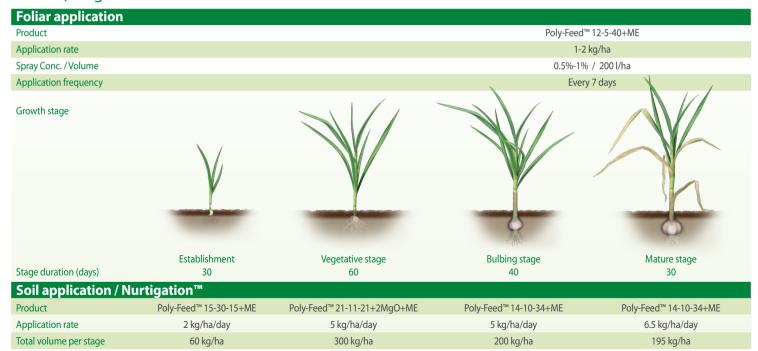


# **Onion**, Target Yield = 50 MT/Ha

Foliar application			
Product	Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 19-19-19+1MgO+ME	
Application rate	1-2 kg/ha	1-2 kg/ha	
Spray Conc. / Volume	0.5%-1% / 200 l/ha	0.5%-1% / 200 l/ha	
Application frequency	Every 14 days	Every 14 days	
Growth stage			
Stage duration (days)	Planting and establishment 40	Onion development 60	Onion growth 70
Soil application / N	lurtigation™		
Product	Poly-Feed™ 20-20-20+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	3 kg/ha/day	6 kg/ha/day	9 kg/ha/day
Total volume per stage	120 kg/ha	360 kg/ha	630 kg/ha



### **Garlic,** Target Yield = 20 MT/Ha





# **Apple,** Target Yield = 50 MT/Ha

Foliar application	20%-3	30% flowers Afte	r petal fall	During fruit development
Product	Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 19-19-19+1MgO+ME	Haifa Cal GG and/or Poly-Feed™ 12-5-40+ME	Poly-Feed™ 19-19-19+1MgO+M
Application rate	10-30kg/ha	10-30kg/ha	20-40kg/ha	10-30kg/ha
Spray Conc. / Volume	0.5%-1% / 1000-3000 l/ha	0.5%-1% / 1000-3000 l/ha	1%-2% / 1000-4000 l/ha	0.5%-1% / 1000-3000 l/ha
Application frequency	Every 14 days	Every 14 days	Every 14 days	Every 14 days
Growth stage				
Stage duration (days)	Blooming to flowering	Petal fall to fruit set 20	Fruit-set to harvest	Post harvest 30
Soil application / Nurt	<del>**</del>			
Product	Poly-Feed™ 20-20-20+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	5 kg/ha/day	4 kg/ha/day	4.5 kg/ha/day	2 kg/ha/day
Total volume per stage	150 kg/ha	80 kg/ha	315 kg/ha	60 kg/ha

<sup>\*</sup> Do not apply N fertilizers during fruit ripening for color braking varieties



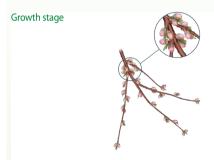
# **Pear**, Target Yield = 25 MT/Ha

Foliar application	20%-30%	% flowers A	fter petal fall	During fruit development
Product	Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 12-43-12+ME	Poly-Feed™ 12-5-40+ME	Poly-Feed™ 19-19-19+1MgO+ME
Application rate	10-30kg/ha	10-30kg/ha	15-40kg/ha	10-30kg/ha
Spray Conc. / Volume	0.5%-1% / 1000-3000 l/ha	0.5%-1% / 1000-3000 l/ha	1%-2% / 1000-4000 l/ha	0.5%-1% / 1000-3000 l/ha
Application frequency	Every 14 days	Every 14 days	Every 14 days	Every 14 days
Growth stage				
Stage duration (days)	Blooming to flowering 30	Petal fall to fruit set 20	Fruit-set to harvest 70	Post harvest 30
Soil application / N	**	20	,,	30
Product	Poly-Feed™ 20-20-20+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	3 kg/ha/day	3.5 kg/ha/day	3.5 kg/ha/day	1.5 kg/ha/day
Total volume per stage	90 kg/ha	70 kg/ha	250 kg/ha	45 kg/ha



## **Peach-Nectarine**, Target Yield = 35 MT/Ha

Foliar application	20%-30% flowers	After petal fall	During fruit development	
Product	Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 12-43-	12+ME Poly-Feed™ 12-5-40+ME	Poly-Feed™ 19-19-19+1MgO+ME
Application rate	10-30kg/ha	10-30kg/ha	10-30kg/ha	10-30kg/ha
Spray Conc. / Volume	0.5%-1% / 1000-3000 l/ha	0.5%-1% / 1000-3	000 l/ha 1%-2% / 1000-3000 l/ha	0.5%-1% / 1000-3000 l/ha
Application frequency	Every 14 days	Every 14 day	s Every 14 days	Every 14 days



Soil application / Nurtigation™









Blooming to flowering Stage duration (days) 35

Petal fall to fruit set 15

Fruit develoment 90

Post harvest 30

Joil application / Nul	ugauon			
Product	Poly-Feed™ 20-20-20+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME	Poly-Feed™ 14-10-34+ME
Application rate	3 kg/ha/day	3 kg/ha/day	3.5 kg/ha/day	1.5 kg/ha/day
Total volume per stage	105 kg/ha	45 kg/ha	315 kg/ha	45 kg/ha

<sup>\*</sup>Do not apply N fertilizers during fruit ripening for color braking varieties



# Wheat, Target Yield = 40-60 MT/Ha

Foliar application					
Product	Poly-Feed™ 19-1	9-19+1MgO+ME	Poly-Feed™ 2	1-11-21+2MgO+ME	
Application rate	5 kg	g/ha	:	5 kg/ha	
Spray Volume	200-4	00 l/ha	200	0-400 l/ha	
Application frequency	Every	14 days	Eve	ry 14 days	
Growth stage					
	Tillering	Stem extension	Booting	Heading	Ripening
Stage duration (days)	25	30	10	20	30



# **Sugar Beet**, Target Yield = 40-50 MT/Ha

Foliar application				
Product	Poly-Feed™ 19-1	9-19+1MgO+ME	Poly-Feed™ 15-7-30+	-2MgO+ME
Application rate	3-5 k	kg/ha	5 kg/ha	
Spray Volume	200-4	00 l/ha	200-400 l/h	na
Application frequency	Every	14 days	Every 14 da	ys
Growth stage				
	Establishment	Vegetative and beet formation	Beet growth	Ripening
Stage duration (days)	30	30	60	50



# **Maize-Corn**, Target Yield = 15-23 MT/Ha

Foliar application	Dalu Fandiii 10 10 10 1444 - O 1445	Dalu Faced M 21 11 21 224 - C : MF	
Product	Poly-Feed™ 19-19-19+1MgO+ME	Poly-Feed™ 21-11-21+2MgO+ME	
Application rate	3-5 kg/ha	3-5 kg/ha	
Spray Volume	200 l/ha	200 l/ha	
Application frequency	Every 14 days	Every 14 days	
Growth stage			
Stage duration (days)	Establisment Veg 20		seling Silking 15 15



## **Soybean,** Target Yield = 3-4 MT/Ha

Joybean, raigo	et field = 3 + M1/1	ıu				
Foliar application						
Product	Poly-Feed™ 19-19	Poly-Feed™ 19-19-19+1MgO+ME		Poly-Feed™ 12-5-40+ME		
Application rate	5 kg/ha		6 kg/ha			
Spray Volume	200-400	200-400 l/ha		200-400 l/ha		
Application frequency	Every 14 days		Every 7 days			
Growth stage						
	Establishment	Vegetative	Flowering	Pod developmant	Ripening	
Stage duration (days)	10	30	35	40	15	



## Rape Seed-Canola (Spring), Target Yield = 4 MT/Ha

