

Greenhouse soil Tomatoes in Israel - proportional



Tomato soil GH- Israel Proportional

Crop cycle: 144 Days
Yield goal: 200.00 ton/ha
Plot: Israel
Plot size: 1 ha

Establishment

Nutrient supply for crop

Stage	Days	Macronutrients (ppm)						Secondary Nutrients (ppm)			Micronutrients (ppm)						
		N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC (ds/m)
Establishment	14	80.00	20.00	60.00	0.00	80.00	80.00	36.00	25.19	9.56	1.00	0.50	0.17	0.12	0.08	0.10	0.57

Fertilizers per stage

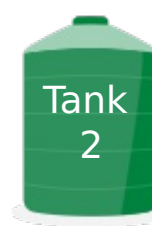
Fertilizers amounts for growth stage (per plot)

Multi-K GG 13-0-46 Potassium Nitrate	Haifa MAP - Mono Ammonium Phosphate	Ammonium Sulphate	Haifa Mag / Magnisal Magnesium Nitrate	Haifa Cal GG Calcium Nitrate	Haifa Micro Combi	Borax - Disodium Tetraborate Decahydrate
2.42 kg	1.84 kg	185 gram	2.27 kg	1.90 kg	194 gram	12 gram

Nutrigation system



Volume: **1000 liter**
 Content: **Phosphorus**
 Injection rate: **1.62 l/m3**
 Fertilizer concentration: **20 %**



Volume: **1000 liter**
 Content: **Calcium**
 Injection rate: **1.56 l/m3**
 Fertilizer concentration: **20 %**

Multi-K GG 13-0-46 Potassium Nitrate **107.07 kg**

Haifa MAP - Mono Ammonium Phosphate **81.09 kg**

Ammonium Sulphate **8.15 kg**

Borax - Disodium Tetraborate Decahydrate **545 gram**

Haifa Mag / Magnisal Magnesium Nitrate **104.10 kg**

Haifa Cal GG Calcium Nitrate **87.04 kg**

Haifa Micro Combi **8.86 kg**

Stock solution nutrients content:

Tanks	Macronutrients (gram/liter)						Secondary Nutrients (gram/liter)			Micronutrients (mg/liter)						
	N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC
Phosphorus Tank 1	25.90	11.44	14.45	-	49.47	49.46	-	-	5.91	-	-	-	-	-	60	-
Calcium Tank 2	24.42	0.96	23.46	-	-	-	23.06	16.14	-	640	320	110	80	50	-	-

Irrigation:

Interval (Days)	Volume (m3/ha/day)
1	1

flowering

Nutrient supply for crop

Stage	Days	Macronutrients (ppm)						Secondary Nutrients (ppm)			Micronutrients (ppm)						
		N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC (ds/m)
flowering	10	97.16	22.16	75.00	0.00	100.00	100.00	60.00	26.00	17.44	1.00	0.50	0.17	0.12	0.08	0.10	0.71

Fertilizers per stage

Fertilizers amounts for growth stage (per plot)

Multi-K GG 13-0-46 Potassium Nitrate	Haifa MAP - Mono Ammonium Phosphate	Haifa BitterMag Magnesium Sulphate	Haifa Mag / Magnisal Magnesium Nitrate	Haifa Cal GG Calcium Nitrate	Haifa Micro Combi	Borax - Disodium Tetraborate Decahydrate
2.16 kg	1.64 kg	409 gram	1.25 kg	2.26 kg	138 gram	9 gram

Nutrigation system



Volume: **1000 liter**
 Content: **Phosphorus**
 Injection rate: **2.18 l/m3**
 Fertilizer concentration: **20 %**



Volume: **1000 liter**
 Content: **Calcium**
 Injection rate: **1.83 l/m3**
 Fertilizer concentration: **20 %**

Multi-K GG 13-0-46 Potassium Nitrate **99.35 kg**

Haifa MAP - Mono Ammonium Phosphate **75.25 kg**

Haifa BitterMag Magnesium Sulphate **18.79 kg**

Borax - Disodium Tetraborate Decahydrate **404 gram**

Haifa Mag / Magnisal Magnesium Nitrate **68.62 kg**

Haifa Cal GG Calcium Nitrate **123.82 kg**

Haifa Micro Combi **7.56 kg**

Stock solution nutrients content:

Tanks	Macronutrients (gram/liter)						Secondary Nutrients (gram/liter)			Micronutrients (mg/liter)						
	N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC
Phosphorus Tank 1	22.44	9.03	13.41	-	45.90	45.90	-	3.01	8.01	-	-	-	-	-	50	-
Calcium Tank 2	26.40	1.36	25.03	-	-	-	32.81	10.64	-	540	270	90	70	50	-	-

Irrigation:

Interval (Days)	Volume (m3/ha/day)
1	1

flowering and ripening

Nutrient supply for crop

Stage	Days	Macronutrients (ppm)						Secondary Nutrients (ppm)			Micronutrients (ppm)						
		N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC (ds/m)
flowering and ripening	10	120.00	15.53	104.47	0.00	92.59	216.00	108.67	48.00	165.83	1.00	0.50	0.17	0.12	0.08	0.20	1.20

Fertilizers per stage

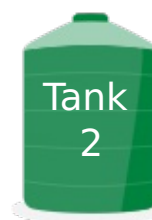
Fertilizers amounts for growth stage (per plot)

3.36 kg	525 gram	1.78 kg	3.00 kg	4.10 kg	138 gram	18 gram

Nutrigation system



Volume: **1000 liter**
 Content: **Phosphorus**
 Injection rate: **4.34 l/m3**
 Fertilizer concentration: **20 %**



Volume: **1000 liter**
 Content: **Calcium**
 Injection rate: **2.12 l/m3**
 Fertilizer concentration: **20 %**

Multi-K GG 13-0-46 Potassium Nitrate	77.46 kg
Haifa SOA Ammonium Sulphate	12.08 kg
Haifa MKP Soluble monopotassium phosphate	40.99 kg
Haifa BitterMag Magnesium Sulphate	69.06 kg
Borax - Disodium Tetraborate Decahydrate	406 gram

Haifa Cal GG Calcium Nitrate	193.47 kg
Haifa Micro Combi	6.53 kg

Stock solution nutrients content:

Tanks	Macronutrients (gram/liter)						Secondary Nutrients (gram/liter)			Micronutrients (mg/liter)						
	N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC
Phosphorus Tank 1	12.99	2.54	10.46	-	21.32	49.73	-	11.05	38.18	-	-	-	-	-	50	-
Calcium Tank 2	29.99	2.13	27.86	-	-	-	51.27	-	-	470	230	80	60	40	-	-

Irrigation:

Interval (Days)	Volume (m3/ha/day)
1	1

beginning of harvesting

Nutrient supply for crop

Stage	Days	Macronutrients (ppm)						Secondary Nutrients (ppm)			Micronutrients (ppm)						
		N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC (ds/m)
beginning of harvesting	10	150.00	25.00	125.00	0.00	90.30	240.00	174.30	90.00	385.35	1.00	0.50	0.17	0.12	0.08	0.20	1.76

Fertilizers per stage

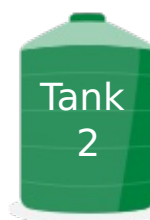
Fertilizers amounts for growth stage (per plot)

Multi-K GG 13-0-46 Potassium Nitrate	Haifa SOP Potassium Sulphate	Haifa MAP - Mono Ammonium Phosphate	Haifa BitterMag Magnesium Sulphate	Haifa Cal GG Calcium Nitrate	Haifa Micro Combi	Borax - Disodium Tetraborate Decahydrate
2.24 kg	2.67 kg	1.48 kg	5.62 kg	6.58 kg	138 gram	18 gram

Nutrigation system



Volume: **1000 liter**
 Content: **Phosphorus**
 Injection rate: **6.02 l/m3**
 Fertilizer concentration: **20 %**



Volume: **1000 liter**
 Content: **Calcium**
 Injection rate: **3.36 l/m3**
 Fertilizer concentration: **20 %**

Multi-K GG 13-0-46 Potassium Nitrate	37.26 kg
Haifa SOP Potassium Sulphate	44.41 kg
Haifa MAP - Mono Ammonium Phosphate	24.59 kg
Haifa BitterMag Magnesium Sulphate	93.44 kg
Borax - Disodium Tetraborate Decahydrate	293 gram

Haifa Cal GG Calcium Nitrate	195.88 kg
Haifa Micro Combi	4.12 kg

Stock solution nutrients content:

Tanks	Macronutrients (gram/liter)						Secondary Nutrients (gram/liter)			Micronutrients (mg/liter)						
	N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC
Phosphorus Tank 1	7.98	2.95	5.03	-	15.00	39.87	-	14.95	64.01	-	-	-	-	-	30	-
Calcium Tank 2	30.36	2.15	28.21	-	-	-	51.91	-	-	300	150	50	40	20	-	-

Irrigation:

Interval (Days)	Volume (m3/ha/day)
1	1

Harvesting

Nutrient supply for crop

Stage	Days	Macronutrients (ppm)						Secondary Nutrients (ppm)			Micronutrients (ppm)						
		N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC (ds/m)
Harvesting	50	150.00	25.00	125.00	0.00	90.30	240.00	174.30	90.00	385.35	1.00	0.50	0.17	0.12	0.08	0.20	1.76

Fertilizers per stage

Fertilizers amounts for growth stage (per plot)

11.22 kg	13.37 kg	7.40 kg	28.12 kg	32.89 kg	692 gram	88 gram

Nutrigation system



Volume: **1000 liter**
 Content: **Phosphorus**
 Injection rate: **6.02 l/m3**
 Fertilizer concentration: **20 %**



Volume: **1000 liter**
 Content: **Calcium**
 Injection rate: **3.36 l/m3**
 Fertilizer concentration: **20 %**

Multi-K GG 13-0-46 Potassium Nitrate	37.26 kg
Haifa SOP Potassium Sulphate	44.41 kg
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Haifa BitterMag Magnesium Sulphate	93.44 kg
Borax - Disodium Tetraborate Decahydrate	293 gram

Haifa Cal GG Calcium Nitrate	195.88 kg
Haifa Micro Combi	4.12 kg

Stock solution nutrients content:

Tanks	Macronutrients (gram/liter)						Secondary Nutrients (gram/liter)			Micronutrients (mg/liter)						
	N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC
Phosphorus Tank 1	7.98	2.95	5.03	-	15.00	39.87	-	14.95	64.01	-	-	-	-	-	30	-
Calcium Tank 2	30.36	2.15	28.21	-	-	-	51.91	-	-	300	150	50	40	20	-	-

Irrigation:

Interval (Days)	Volume (m3/ha/day)
1	1

Harvesting end

Nutrient supply for crop

Stage	Days	Macronutrients (ppm)						Secondary Nutrients (ppm)			Micronutrients (ppm)						
		N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC (ds/m)
Harvesting end	50	150.00	25.00	125.00	0.00	90.30	240.00	174.30	90.00	385.35	1.00	0.50	0.17	0.12	0.08	0.20	1.76

Fertilizers per stage

Fertilizers amounts for growth stage (per plot)

11.22 kg	13.37 kg	7.40 kg	28.12 kg	32.89 kg	692 gram	88 gram

Nutrigation system



Volume: **1000 liter**
 Content: **Phosphorus**
 Injection rate: **6.02 l/m3**
 Fertilizer concentration: **20 %**



Volume: **1000 liter**
 Content: **Calcium**
 Injection rate: **3.36 l/m3**
 Fertilizer concentration: **20 %**

Multi-K GG 13-0-46 Potassium Nitrate	37.26 kg
Haifa SOP Potassium Sulphate	44.41 kg
Haifa MAP - Mono Ammonium Phosphate	24.59 kg
Haifa BitterMag Magnesium Sulphate	93.44 kg
Borax - Disodium Tetraborate Decahydrate	293 gram

Haifa Cal GG Calcium Nitrate	195.88 kg
Haifa Micro Combi	4.12 kg

Stock solution nutrients content:

Tanks	Macronutrients (gram/liter)						Secondary Nutrients (gram/liter)			Micronutrients (mg/liter)						
	N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC
Phosphorus Tank 1	7.98	2.95	5.03	-	15.00	39.87	-	14.95	64.01	-	-	-	-	-	30	-
Calcium Tank 2	30.36	2.15	28.21	-	-	-	51.91	-	-	300	150	50	40	20	-	-












Irrigation:

Interval (Days)	Volume (m3/ha/day)
1	1

Total nutrient supply for season

Stage	Days	Macronutrients (ppm)						Secondary Nutrients (ppm)			Micronutrients (ppm)						
		N_Total	N_NH4	N_NO3	N_NH2	P2O5	K2O	CaO	MgO	SO4	Fe	Mn	Zn	Cu	Mo	B	EC (ds/m)
Establishment	14	80.00	20.00	60.00	0.00	80.00	80.00	36.00	25.19	9.56	1.00	0.50	0.17	0.12	0.08	0.10	0.57
flowering	10	97.16	22.16	75.00	0.00	100.00	100.00	60.00	26.00	17.44	1.00	0.50	0.17	0.12	0.08	0.10	0.71
flowering and ripening	10	120.00	15.53	104.47	0.00	92.59	216.00	108.67	48.00	165.83	1.00	0.50	0.17	0.12	0.08	0.20	1.20
beginning of harvesting	10	150.00	25.00	125.00	0.00	90.30	240.00	174.30	90.00	385.35	1.00	0.50	0.17	0.12	0.08	0.20	1.76
Harvesting	50	150.00	25.00	125.00	0.00	90.30	240.00	174.30	90.00	385.35	1.00	0.50	0.17	0.12	0.08	0.20	1.76
Harvesting end	50	150.00	25.00	125.00	0.00	90.30	240.00	174.30	90.00	385.35	1.00	0.50	0.17	0.12	0.08	0.20	1.76

Total for season per plot

Stage	Establishment	flowering	flowering and ripening	beginning of harvesting	Harvesting	Harvesting end	Total
 Multi-K GG 13-0-46 Potassium Nitrate	2.42 kg	2.16 kg	3.36 kg	2.24 kg	11.22 kg	11.22 kg	32.63 kg
 Haifa SOP Potassium Sulphate	-	-	-	2.67 kg	13.37 kg	13.37 kg	29.41 kg
 Haifa SOA Ammonium Sulphate	-	-	525 gram	-	-	-	525 gram
 Haifa MAP - Mono Ammonium Phosphate	1.84 kg	1.64 kg	-	1.48 kg	7.40 kg	7.40 kg	19.76 kg
 Haifa MKP Soluble monopotassium phosphate	-	-	1.78 kg	-	-	-	1.78 kg
 Ammonium Sulphate	185 gram	-	-	-	-	-	185 gram
 Haifa BitterMag Magnesium Sulphate	-	409 gram	3.00 kg	5.62 kg	28.12 kg	28.12 kg	65.28 kg
 Haifa Mag / Magnisal Magnesium Nitrate	2.27 kg	1.25 kg	-	-	-	-	3.53 kg
 Haifa Cal GG Calcium Nitrate	1.90 kg	2.26 kg	4.10 kg	6.58 kg	32.89 kg	32.89 kg	80.62 kg
 Haifa Micro Combi	194 gram	138 gram	138 gram	138 gram	692 gram	692 gram	1.99 kg
 Borax - Disodium Tetraborate Decahydrate	12 gram	9 gram	18 gram	18 gram	88 gram	88 gram	233 gram