# PROBLEMS ENCOUNTERED IN TOMATO CULTIVATION AND SOLUTIONS WITH 2000 TARIM PRODUCTS (FOR WINTER CULTIVARS)

(Planting time in autumn until summer. For planting from moderate, slightly cooler to hot temperatures)

# **SEEDLING STAGE**

# **PROBLEM 1**

Seedling dipping. Dip seedlings into water with 70-80 cc SupKor-Cu per 20 liters.

(GRAFTED) Planting rules must be followed in order to avoid disease transmission from grafting sites, which must remain above the soil level. Additionally, in order to prevent disease transmission and to open the veins;



## **DRIP IRRIGATION SYSTEM (1000 m2)**

CHEMICAL	
FOLKAR-K 1-2 LT	(
1 OLNAN-N 1-2 LI	

SUPKOR-Cu.....1 LT

or

#### FOR PROBLEM 1. APPLICATION FROM TOP

FOLKAR-K	200 cc/100 LT of water
+	
PROLİUM	200-300 cc/100 LT of water

SUPKORCU...... 200-250 cc/100 LT of water

# **PROBLEM 2**

If there is an excessive longitudinal growth of the plant stem, make sure to carry out fertilization frequently depending on the variety and the greenhouse conditions.

If the plant is thin and growing fast;

or

or

#### **DRIP IRRIGATION SYSTEM (1000 m2)**

FULLBAS 69 1 KG
RATOON 15 2,5 KG
0-30-40 2-3 KG

OrgAPEX-NK2 LT
RATOON 152,5 KG
0-30-40 2-3 KG

# If it is growing normally or thick;

## DRIP IRRIGATION SYSTEM (1000 m2)

DURAN	2,5 LT
0-30-40	2 KG
+	
FOLKAR-K+	
OrgAPEX-NK	2 LT

DURAN 202,5 LT
FULLBASS 69 1 KG
0-30-40 2-3 KG

## FOR PROBLEM 2, APPLICATION FROM TOP

MAXIFORTE	150-200 GR/100 LT of water
	+
FOLKAR-K	250-300 cc/100 LT of water

FULLBASS 69......200-250 GR/100 LT of water 2 Aplication every 5 days

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# **FLOWERING STAGE**

# **PROBLEM 1**

If the pedicles are not fully formed, the stems of those which are formed turn yellow and there is dropping due to shock, inhibitors, hormones and similar reasons (abscisic acid accumulation). At the same time, in cases where the flowers may bloom early before the root and vegetative part are ready for pollination (inhibitor, etc.).

## **DRIP IRRIGATION SYSTEM (1000 m2)**

CALVİN 2-3 LT
+ NOABSES 1-2 LT
+ CALCIUM NITRATE 3-4 KG
+ PROFER 6 (Fe)150-200 GR

	ZENİTH 1-2 LT
	NOABSES 1 LT
days	20-20-20 veya 18-18-18 5 KG
	OrgAPEX-NK 2 LT

## FOR PROBLEM 1, APPLICATION FROM TOP

NOABSES	200 cc/100 LT of water
	200 cc, 100 21 01 1141c.
THE THEORY	100 /100 IT ( )
FULL ENERGY /	100 cc/100 LT of water
+	
7ENITH	150 cc/100 LT of water
∠LINIIII	130 CC/ 100 LI OI Water



# **PROBLEM 2**

If the plant is thin and has rapid longitudinal growth;

or

2

#### DRIP IRRIGATION SYSTEM (1000 m2)

FULLBASS 69	1 KG
RATOON 15	2,5 KG
0-30-40	
ZENİTH	1-2 LT

FULLBASS 69	1 KG
RATOON 15	2,5 KG
OrgAPEX-NK	2-2,5 LT
ZENİTH	1-2 LT

# If the plant is normal or growing a little thick;

## DRIP IRRIGATION SYSTEM (1000 m2)

DURAN 2,5 LT	
0-30-40 3-4 KG	
+ FOLKAR-K 1 LT	

DURAN	2.5 LT
1	,
FULLBASS 69	1-2 KG
+	
0-30-40	3-4 KG

## FOR PROBLEM 2, APPLICATION FROM TOP

## If the plant is thin and has rapid longitudinal growth;

MAXİFORTE 100-150 GR/100 LT of water
+
TRANS-POL 150 GR/100 LT of water

MAXIFORTE 150-200 GR/100 LT of water
PROMAX COMBİ 100 GR/100 LT of water
FULL ENERGY 7 150-300 cc/100 LT of water

# If the plant is normal or growing a little thick;

MAXIFORTE 200	GR/100 LT of water
+	
FOLKAR-K 250-30	0 cc/100 LT of water

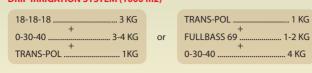
+ FOLKAR-K 250-300 cc/100 LT of water	FULLBASS 69	. 200 -250 GR/100LT of water
	EUIKVDK 350 3	100 cc/100 IT of water

or

or

If there is delay in flowering, shortage of pollen or poor development, pollination problems;

## **DRIP IRRIGATION SYSTEM (1000 m2)**



## FOR PROBLEM 1, APPLICATION FROM TOP

MAXIFORTE ..... 100-150 GR/100 LT of water TRANS-POL ..... 150 GR/100 LT of water



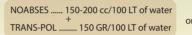
# **PROBLEM 4**

Thinning, excessive longitudinal growth, breakage or twisting (distortion) in flower-fruit stem

## **DRIP IRRIGATION SYSTEM (1000 m2)**

NOABSES		1 LT
TRANS-POL	+	1 KG
0-30-40	+	5-6 KG
	+	
Organex-NK		2-3 LT

## FOR PROBLEM 4, APPLICATION FROM TOP



FULLBASS 69 ...... 200 GR/100 LT of water

As it facilitates the pollen formation, this mixture also speeds up the feeding (working) of the bee.

# **PROBLEM 5**

(For flowering and fruiting stages) Leaf blades turning slightly yellow during the cold period Cause: Increased carbohydrate accumulation (cold-dry weather), chemical stress, water stress, weakening of root development and activity (Prolongation of root development period)

#### 1. Application

# **DRIP IRRIGATION SYSTEM (1000 m2)**

NOABSES	1-1,5 LT
ZENİTH	217
+	
18-18-18	6 KG
FULL ENERGY 7	1 LT

#### 2. Application

# **DRIP IRRIGATION SYSTEM (1000 m2)**

SULPHUR3 K	G
+	
18-18-18 6 KG	
MAGNESIUM SULFATE or MAGNESIUM NITRATE 2,5 KG	ò
GLUKOMİX Mn-Fe 2 LT	

#### FOR PROBLEM 5, APPLICATION FROM TOP

NOABSES	. 200 cc/100 LT of water
+	
GLUKOMİX Mn-Fe	250 cc/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

## **PROBLEM 6**

(For flowering and fruiting stages) If there is calyx tip burn;

or

Cause: Sudden change in humidity, prolongation of root development period (capillary root hair development), excessively and incorrectly applied chemicals, etc.

## **DRIP IRRIGATION SYSTEM (1000 m2)**

TRANS-POL 1-2 KG	
NOABSES 1-2 LT	
18-18-18 5-6 KG	

## FOR PROBLEM 6, APPLICATION FROM TOP

NOABSES 200 cc/100 LT of water
+ TRANS-POL 150 GR/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

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**FRUITING STAGE** 

# PROBLEM 1

# If there is fruit drop and / or cracking;

Cause: Temperature and humidity change (air and soil), application of improper chemicals and inappropriate fertilization, nematodes, root diseases and other factors which cause plant aging (abscisic acid accumulation in the fruit stem)

## **DRIP IRRIGATION SYSTEM (1000 m2)**

This mixture should be given, in case of nematodes, 2-3 days before or after, and, in case of disease, 3-4 days after

If the plant was subject to excessive watering or it is left without water for long periods and then watered;

## **DRIP IRRIGATION SYSTEM (1000 m2)**

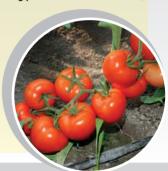
NOABSES	1,5-2 LT
CALVÍN	4-5 IT
+	¬ J Li
18-18-18	6 KG
PROFER 6	150 GR

#### FOR PROBLEM 4, APPLICATION FROM TOP

NOABSES ...... 200 cc/100 LT of water ZENİTH ...... 150 cc/100 LT of water

## If there is a problem with irrigation

NOABSES ..... 200 cc/100 LT of water CALVÍN ........ 200-300 cc/100 LT of water



# **PROBLEM 2**

## If there are fruit deformities:

Cause: Pollination failures (insufficient pollen, unpollinated fruit), root deficiency, malnutrition, etc.

# **DRIP IRRIGATION SYSTEM (1000 m2)**

#### In root deficiency;

If there are root diseases, etc. and vascular occlusion;

or

## **DRIP IRRIGATION SYSTEM (1000 m2)**

NOABSES 1,5-2 LT
ZENİTH 2 LT
+ 16-8-24 6 KG

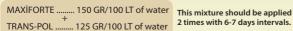
NOABSES 1,1,5 LT	
FOLKAR-K 1,5-2 LT	
+ 16-8-24 6 KG	

**DRIP IRRIGATION SYSTEM (1000 m2)** 

SUPKOR-Cu1-2 LT
301 NON-Cu1-2 LI

#### FOR PROBLEM 2, APPLICATION FROM TOP

If there are pollination problems;



#### If there are fruit deformities caused by nutrition;

ULTRA K30	2 LT
FULLBASS 69	1-2 KG
+ 16-8-24	5-6 KG

# If the fruit becomes brittle:

Cause: Sudden change in humidity and temperature, improper chemical application, unbalanced irrigation and root drowning, delay in the development of capillary roots, etc.

#### **DRIP IRRIGATION SYSTEM (1000 m2)**

ZENİTH	1-2 LT
NOABSES+	1-1 <i>.</i> 5 LT
FULL ENERGY 7	1 LT
16-8-24	6 KG

This mixture should be applied twice with 15 days intervals.

#### FOR PROBLEM 3. APPLICATION FROM TOP

ZENİTH	150 cc/100 LT of water
NOABSES	. 200 cc/100 LT of water
FULL ENERGY 7	150 cc/100 LT of water

This mixture should be applied 2 times with 1 week intervals.

## **PROBLEM 4**

Lack of homogeneity in the development (growth) of the fruits in and between the clusters

#### DRIP IRRIGATION SYSTEM (1000 m2)

SULPHUR	3 KG
MAXIEND 10-7-17	5 KG
FULLBASS 69	1 KG
ZENİTH	1-2 LT

#### FOR PROBLEM 4, APPLICATION FROM TOP

This mixture should be applied 2 times with 6-7 days intervals.

# **PROBLEM 5**

Fruit coloration problems, delay in coloration, non-uniform coloration

1. Aplication

2. Aplication

# **DRIP IRRIGATION SYSTEM (1000 m2)**

MAXIEND 10-7-17 4-5 KG
GLUKOMİX Mn-Fe 1-2 LT
6-0-49 2-3 KG

**DRIP IRRIGATION SYSTEM (1000 m2)** MAXİEND 10-7-17 ...... 4-5 KG

POTANİA-NK ...... 2 KG 6-0-49 .....

#### FOR PROBLEM 5, APPLICATION FROM TOP



or POTANÍA-NK .... 250 GR/100 LT of water

#### For homogeneous coloring

MAXIFORTE	200 GR/100 LT of water
GLUKOMİX Mn-Fe 2	00-250 cc/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

#### For fast coloring

MAXİFORTE	200 GR/100 LT of water	
GOLDEN Ka.Te.Se	400-1000 cc/100 LT of wate	91

This mixture should be applied 2 times with 6-7 days intervals.

# **PROBLEM 6**

Yellow-red color formation, especially due to whitefly damage

#### DRIP IRRIGATION SYSTEM (1000 m2)





#### FOR PROBLEM 6, APPLICATION FROM TOP

MAXIFORTE ...... 200 GR/100 LT of water FOLKAR-K.... 250-300 cc/100 LT of water FULL ENERGY 7 ..... 150 cc/100 LT of water

> This mixture should be applied 2 times with 6-7 days intervals.

# If cracking occurs in the stem of ripe fruits;

#### FOR PROBLEM 3, APPLICATION FROM TOP

During periods of rapid change in the weather or irrigation conditions, apply



## **PROBLEM 8**

# If blossom-end rot exists;

#### DRIP IRRIGATION SYSTEM (1000 m2)

NOABSES	1-2 LT
CALVÍN	+ 2-4 LT
CALVIN	+
FERTILIZER	

#### FOR PROBLEM 7, APPLICATION FROM TOP

NOABSES	. 200 cc/100 LT of water
CALVÍN	. 300 cc/100 LT of water

This mixture should be applied 2 times with 5-6 days intervals.

## **PROBLEM 9**

During periods of transition from cold to spring time, thinning of the apical development, dormancy, lack of fruit enlargement due to excessive fruit formation, etc.

Apply fertilizer in between walkways (POTASSIUM NITRATE 20-25 KG + CALCIUM NITRATE 10-15 KG) Water with a light flush.

or

or

After:

#### DRIP IRRIGATION SYSTEM (1000 m2)

18-18-18 veya 20-20-20 6 KG	
NOABSES 1,5-2 LT	
ZENİTH2 LT	
OrgAPEX-NK2,5 LT	

SULPHUR 3 KG
+
NOABSES 1-2 LT
_
16-8-24 2 KG
10021

#### FOR PROBLEM 9, APPLICATION FROM TOP

NIMBUS 52 ............ 200-250 GR/100 LT of water FULL ENERGY 7 ............ 200 cc/100 LT of water 

# **PROBLEM 10**

If there is the problem of loosening or softening in the green fruit or that which has just begun to color;

#### **DRIP IRRIGATION SYSTEM (1000 m2)**



CALCIUM NITRATE	2-3 KG
CALVÍN	2-2,5 LT
NOABSES	1 LT
PROFER 6 (Fe)	150 GR

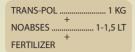
## FOR PROBLEM 10, APPLICATION FROM TOP

MAXIFORTE	200 GR/100 LT of water
+	
CALVÍN	. 250-300 cc/100 LT of water

or	NOABSES200 cc/100 LT of water	r
	CALVIN 250-300 cc/100 LT of water	er

Blackening in the fruit, thickening of the skin, blackening in the seed, etc.

#### **DRIP IRRIGATION SYSTEM (1000 m2)**



#### FOR PROBLEM 11, APPLICATION FROM TOP

If there is blackening in the fruit and / or blackened seeds, nutrient deficiency (boron), hormonal imbalance (plant adaptation to climate conditions), abscisic acid accumulation, etc.

## If there is thickening in the fruit skin;

Cause: Disease (Bacterial, viral) or nutrient deficiency, stress

ZENİTH	150 cc/100 LT of water
+ NOABSES or MAXİFORTE	200 cc veya 200 GR/100 LT of water
+ FULL ENERGY 7	



## **PROBLEM 12**

If, in grafted tomatoes (especially in double grafts), grafting sites (crotch) are contaminated with Fusarium sp. and there is blackening (abscisic acid accumulation) in the main root fibers due to root taking in the soil over the grafting sites;

#### **DRIP IRRIGATION SYSTEM (1000 m2)**

FOLKAR-K 1-3 LT		SI
CHEMICAL	or	

NOABSES	. 1-2 LT
GLUKOMİX Mn-Fe	1 LT
GRONZİN L7	. 1-2 LT
FERTILIZER +	

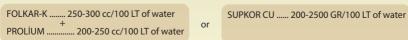
# **PROBLEM 13**

If there is contamination or possibility of contamination by P. corrugata in plants which have thickened and / or softened stem due to excessive use of phosphorus and organic nitrogen (organic matter), lack of fertilizer, excessive irrigation, and insufficient light;

## **DRIP IRRIGATION SYSTEM (1000 m2)**



#### FOR PROBLEM 13, APPLICATION FROM TOP



This mixture should be applied 2 times with 6-7 days intervals.