

Technofert Demo Trial Yeşilköy – Antalya 2009-2010

Prepared by:

**Market Development Department
Doktor Tarsa - SQM / Turkey**

Farmer Name : İbrahim Oğuz
Plant : Tomato
Trial Area : 0,05 ha
Control Plot : 0,05 ha
Variety : Tayfun F1
Planting : 10/10/2009
Plant Density : 28.000 plant/ha
Water Source : Well





TOTAL FERTILIZER USED BY FARMER

CULTIVATION PERIOD (MONTH)	Day	FERTILIZER	App. Time	Kg/ Ha	Dosage (Kg/ Ha)	NUTRIENTS													
						Kg/ Ha													
						N	P ₂ O ₅	K ₂ O	S	CaO	MgO	Fe	Cu	Zn	Mn	Mo	B		
October	0 - 30	Phosphoric Acid	1	20	20														
		Urea Phosphate	1	20	20	3,6	8,8												
		X brand 10-52-10	2	20	40	4,0	20,8	4,0				0,060	0,006	0,012	0,012	0,000	0,004		
		X brand 20-20-20	2	25	50	10,0	10,0	10,0				0,075	0,008	0,015	0,015	0,001	0,005		
		CaIMag	2	15	30,00	4,2				5,3	2,0								
		0-0-51	2	10	20,00			10,2	6,8										
		Ferrostrene	2	1	2,0							0,120							
Docto - Combi Foliar	2	1	2,0	0,7						0,120	0,010	0,060	0,050	0,002	0,008				
November	30 - 60	X brand 20-20-20	4	25	100	20,0	20,0	20,0			0,150	0,015	0,030	0,030	0,001	0,010			
		X brand 15-10-30	4	15	60	9,0	6,0	18,0			0,090	0,009	0,018	0,018	0,001	0,006			
		CaIMag	4	15	60,00	8,4				10,5	3,9								
		Ferrostrene	2	1	2,0							0,120							
		Docto - Combi Foliar	2	1	2,0	0,7						0,120	0,010	0,060	0,050	0,002	0,008		
December	60 - 90	X brand 20-20-20	4	10	40	8,0	8,0	8,0			0,060	0,006	0,012	0,012	0,000	0,004			
		X brand 20-5-30	4	35	140	28,0	7,0	42,0			0,210	0,021	0,042	0,042	0,001	0,014			
		0-0-51	4	12,5	50			25,5	9,0										
		CaIMag	4	10	40,00	5,6				7,0	2,6								
		Ferrostrene	2	1	2,0							0,120							
		Docto - Combi Foliar	2	1	2,0	0,7						0,120	0,010	0,060	0,050	0,002	0,008		
January	90 - 120	X brand 20-20-20	4	7,5	30	6,0	6,0	6,0			0,045	0,005	0,009	0,009	0,000	0,003			
		X brand 20-5-30	4	50	200	40,0	10,0	60,0			0,300	0,030	0,060	0,060	0,002	0,020			
		0-0-51	4	20	80			40,8	14,4										
		CaIMag	4	10	40,00	5,6				7,0	2,6								
		Ferrostrene	2	1	2,0							0,120							
		Docto - Combi Foliar	2	1	2,0	0,7						0,120	0,010	0,060	0,050	0,002	0,008		
February	120 - 150	X brand 20-20-20	4	20	80	16,0	16,0	16,0			0,120	0,012	0,024	0,024	0,001	0,008			
		X brand 15-10-30	4	50	200	30,0	20,0	60,0			0,300	0,030	0,060	0,060	0,002	0,020			
		0-0-51	4	15	60			30,6	10,8										
		CaIMag	4	15	60,00	8,4				10,5	3,9								
		Ferrostrene	2	2	4,0							0,240							
		Docto - Combi Foliar	2	2	4,0	1,3						0,240	0,020	0,120	0,100	0,004	0,016		
March	150 - 180	MAP	4	20	80	9,6	48,8												
		X brand 15-10-30	4	50	200	30,0	20,0	60,0			0,300	0,030	0,060	0,060	0,002	0,020			
		Hydroponica	4	25	100	15,5		45,5											
		CaIMag	4	15	60,00	8,4				10,5	3,9								
		Ferrostrene	2	2	4,0							0,240							
		Docto - Combi Foliar	2	2	4,0	1,3						0,240	0,020	0,120	0,100	0,004	0,016		
April	180 - 210	X brand 15-10-30	4	45	180	27,0	18,0	54,0			0,270	0,027	0,054	0,054	0,002	0,018			
		Hydroponica	4	25	100	15,5		45,5											
		CaIMag	4	15	60,00	8,4				10,5	3,9								
		Ferrostrene	2	2	4,0							0,240							
		Docto - Combi Foliar	2	2	4,0	1,3						0,240	0,020	0,120	0,100	0,004	0,016		
May	210 - 240	Ammonium Nitrate	6	60	360	118,8													
		Potassium Nitrate	6	60	360	55,8		162,8											

** Brand «X» is a well known brand in the market.





TOTAL FERTILIZERS USED BY DRT

CULTIVATION PERIOD (MONTH)	Day	FERTILIZER	App. Time	Kg/ Ha	Dosage (Kg/ Ha)	NUTRIENTS												
						Kg/ Ha												
						N	P ₂ O ₅	K ₂ O	S	CaO	MgO	Fe	Cu	Zn	Mn	Mo	B	
October	0 - 30	Phosphoric Acid	1	20	20		12,2											
		Urea Phosphate	1	20	20	3,6	8,8											
		Technofert 10-38-17	2	30	60	6,0	22,8	10,2				0,090	0,009	0,018	0,018	0,001	0,006	
		Technofert 18-17-21	2	20	40	7,2	6,8	8,4				0,060	0,006	0,012	0,012	0,000	0,004	
		CaIMag	2	15	30,00	4,2				5,3	2,0							
		Iron	2	2	4,0							0,240						
		Trace Element	2	2	4,0	1,3						0,240	0,020	0,120	0,100	0,004	0,016	
November	30 - 60	Technofert 18-17-21	4	25	100	18,0	17,0	21,0			0,150	0,015	0,030	0,030	0,001	0,010		
		Technofert 14-13-30	4	15	60	8,4	7,8	18,0			0,090	0,009	0,018	0,018	0,001	0,006		
		CaIMag	4	15	60,00	8,4				10,5	3,9							
		Ferrostrene	2	2	4,0						0,240							
		Docto - Combi Foliar	2	2	4,0	1,3					0,240	0,020	0,120	0,100	0,004	0,016		
December	60 - 90	Technofert 18-17-21	4	15	60	10,8	10,2	12,6			0,090	0,009	0,018	0,018	0,001	0,006		
		Technofert 14-13-30	4	35	140	19,6	18,2	42,0			0,210	0,021	0,042	0,042	0,001	0,014		
		Hydroponica	4	12,5	50	7,8		22,8										
		CaIMag	4	10	40,00	5,6				7,0	2,6							
		Ferrostrene	2	1	2,0						0,120							
		Docto - Combi Foliar	2	1	2,0	0,7					0,120	0,010	0,060	0,050	0,002	0,008		
January	90 - 120	Technofert 18-17-21	4	10	40	7,2	6,8	8,4			0,060	0,006	0,012	0,012	0,000	0,004		
		Technofert 14-13-30	4	50	200	28,0	26,0	60,0			0,300	0,030	0,060	0,060	0,002	0,020		
		Hydroponica	4	15	60	9,3		27,3										
		CaIMag	4	10	40,00	5,6				7,0	2,6							
		Ferrostrene	2	1	2,0						0,120							
		Docto - Combi Foliar	2	1	2,0	0,7					0,120	0,010	0,060	0,050	0,002	0,008		
February	120 - 150	Technofert 18-17-21	4	10	40	7,2	6,8	8,4			0,060	0,006	0,012	0,012	0,000	0,004		
		Technofert 14-13-30	4	50	200	28,0	26,0	60,0			0,300	0,030	0,060	0,060	0,002	0,020		
		Hydroponica	4	10	40	6,2		18,2										
		CaIMag	4	15	60,00	8,4				10,5	3,9							
		Ferrostrene	2	2	4,0						0,240							
		Docto - Combi Foliar	2	2	4,0	1,3					0,240	0,020	0,120	0,100	0,004	0,016		
March	150 - 180	Technofert 14-13-30	4	60	240	33,6	31,2	72,0			0,360	0,036	0,072	0,072	0,002	0,024		
		Hydroponica	4	25	100	15,5		45,5										
		CaIMag	4	15	60,00	8,4				10,5	3,9							
		Ferrostrene	2	2	4,0						0,240							
		Docto - Combi Foliar	2	2	4,0	1,3					0,240	0,020	0,120	0,100	0,004	0,016		
April	180 - 210	Technofert 14-13-30	4	60	240	33,6	31,2	72,0			0,360	0,036	0,072	0,072	0,002	0,024		
		Hydroponica	4	30	120	18,6		54,6										
		CaIMag	4	15	60,00	8,4				10,5	3,9							
		Ferrostrene	2	2	4,0						0,240							
		Docto - Combi Foliar	2	2	4,0	1,3					0,240	0,020	0,120	0,100	0,004	0,016		
May	210 - 240	Ammonium Nitrate	6	60	360	118,8												
		Potassium Nitrate	6	60	360	55,0		162,0										



	N	P ₂ O ₅	K ₂ O	S	CaO	MgO	Fe	Cu	Zn	Mn	Mo	B	
TOTAL FARMER FERTILIZING	2.960	502,4	231,6	719,9	41,0	61,3	22,8	4,4	0,3	1,0	0,9	0,0	0,2
TOTAL DRT FERTILIZING	2.948	500,1	231,8	725,2	0,0	61,3	22,8	5,0	0,3	1,1	1,0	0,0	0,2

- At this trial two different fertilizers applied to each side, but straight fertilizers amount kept approximately the same. In this way difference between fertilizers can be observed clearly.



Technofert Trial – 78 Days Later

29.12.2009



CONTROL



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Technofert Trial – 78 Days Later

29.12.2009



CONTROL



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Technofert Trial – 141 Days Later

01.03.2010



CONTROL

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Technofert Trial – 141 Days Later

01.03.2010



CONTROL



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Technofert Trial – 141 Days Later

01.03.2010



CONTROL



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01.03.2010



KONTROL



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Technofert Trial – 170 Days Later

30.03.2010



CONTROL



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Technofert Trial – 170 Days Later

30.03.2010



CONTROL



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Technofert Trial – 207 Days Later

05.05.2010



CONTROL

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Technofert Trial – 207 Days Later

05.05.2010



CONTROL



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Technofert Trial – 207 Days Later

05.05.2010



CONTROL

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Benefit & Cost (\$)

	Unit	Farmer	DRT&SQM	Difference
Total Fertilizer Cost	\$/ha	9.526,60	7.093,30	-2.433,30

Yield	Ton/ha	267,84	275,02	7,18
Price	\$/Ton	433,33	433,33	0,00
Gross Income	\$/ha	116.063,11	119.174,42	3.111,31

Net Income	\$/ha	106.536,51	112.081,12	5.544,61
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Increase in Income 5%

Increase in Yield 3%

\$ = 1,5 YTL

- ★ At this trial, even there are not much difference observed on both sides, Technofert applied side was better than other especially in cold winter season.
- ★ In winter; plants were higher, shoot development and flowering were better at Technofert applied side. Farmer told; “this fertilizer cause better nitrogen penetration to the plant in winter.”
- ★ Technofert introduced Farmers, in a seminar before season, started to apply Technofert in this area. If the results of this trial demonstrated to other farmers next year, Technofert sales will be quite better next season.
- ★ With the technical support given to farmers, next year Technofert sales can be increase.





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“it is more economic, Technofert proved that with its price” said by İbrahim Oğuz.

