

Technofert Demo Trial Gazipaşa - Antalya 2009-2010

Prepared by:

**Market Development Department
Doktor Tarsa / Turkey**

Farmer Name : **Muhsin Özyiğit**
Plant : **Eggplant**
Trial Area : **0,1 ha**
Control Plot : **0,12 ha**
Variety : **Phaselis F1**
Planting : **25/09/2009**
Plant Density : **25.000 plant/ha**
Water Source : **Well**



TOTAL FERTILIZER USED BY FARMER

* X brand is a well known brand in the market.

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	
1.Month	0 - 30	X brand 14-40-5	4	25	100	14,0	40,0	5,0				0,150	0,015	0,030	0,030	0,001	0,010	
		X brand 15-5-35	4	25	100	15,0	5,0	35,0				0,150	0,015	0,030	0,030	0,001	0,010	
		CalMAG	4	10	40,00	5,6				7,0	2,6							
		0 - 0 - 51	1	5	5,00			2,6	1,7									
		Ferrostrene	2	1	2,0							0,120						
		Docto - Combi Foliar	2	1	2,0						0,120	0,010	0,060	0,050	0,002	0,008		
2.Month	30 - 60	X brand 15-5-35	4	40	160	24,0	8,0	56,0				0,240	0,024	0,048	0,048	0,002	0,016	
		X brand 14-40-5	4	25	100	14,0	40,0	5,0				0,150	0,015	0,030	0,030	0,001	0,010	
		0 - 0 - 51	1	5	5,00			2,6	1,7									
		CalMAG	4	10	40,00	5,6				7,0	2,6							
		Ferrostrene	2	1	2,0							0,120						
		Docto - Combi Foliar	2	1	2,0						0,120	0,010	0,060	0,050	0,002	0,008		
3.Month	60 - 90	X brand 15-5-35	4	40	160	24,0	8,0	56,0				0,240	0,024	0,048	0,048	0,002	0,016	
		X brand 14-40-5	4	15	60	8,4	24,0	3,0				0,090	0,009	0,018	0,018	0,001	0,006	
		CalMAG	4	15	60,00	8,4				10,5	3,9							
		Ferrostrene	2	2	4,0							0,240						
		Docto - Combi Foliar	2	2	4,0							0,240	0,020	0,120	0,100	0,004	0,016	
4.Month	90 - 120	X brand 15-5-35	4	40	160	24,0	8,0	56,0				0,240	0,024	0,048	0,048	0,002	0,016	
		X brand 14-40-5	4	15	60	8,4	24,0	3,0				0,090	0,009	0,018	0,018	0,001	0,006	
		CalMAG	4	15	60,00	8,4				10,5	3,9							
		Ferrostrene	2	2	4,0							0,240						
		Docto - Combi Foliar	2	2	4,0							0,240	0,020	0,120	0,100	0,004	0,016	
5.Month	120 - 150	X brand 15-5-35	4	40	160	24,0	8,0	56,0				0,240	0,024	0,048	0,048	0,002	0,016	
		X brand 14-40-5	4	10	40	5,6	16,0	2,0				0,060	0,006	0,012	0,012	0,000	0,004	
		CalMAG	4	20	80,00	11,2				14,0	5,2							
		Ferrostrene	2	2	4,0							0,240						
		Docto - Combi Foliar	2	2	4,0							0,240	0,020	0,120	0,100	0,004	0,016	
6.Month	150 - 180	Hydroponica Pot.Nt.	4	45	180	27,9		81,9										
		CalMAG	4	15	60	8,4				10,5	3,9							
TOTAL FERTILIZING					1.662	236,9	181,0	364,0	3,4	59,5	22,1	3,6	0,2	0,8	0,7	0,0	0,2	

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	
1st month	0 - 30	Technofert 10-38-17	4	32,5	130	13,0	49,4	22,1				0,195	0,020	0,039	0,039	0,001	0,013	
		Technofert 14-13-30	4	22,5	90	12,6	11,7	27,0				0,135	0,014	0,027	0,027	0,001	0,009	
		CaMAG	4	11,5	46,00	6,4				8,1	3,0							
		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	
2nd month	30 - 60	Technofert 18-17-21	4	18	72,0	13,0	12,2	15,1				0,108	0,011	0,022	0,022	0,001	0,007	
		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	
		CaMAG	4	15	60	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	
3rd month	60 - 90	Technofert 18-17-21	4	40	160,0	28,8	27,2	33,6				0,240	0,024	0,048	0,048	0,002	0,016	
		Technofert 14-13-30	4	20	80	11,2	10,4	24,0				0,120	0,012	0,024	0,024	0,001	0,008	
		CaMAG	4	15	60	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	
4th month	90 - 120	Technofert 18-17-21	4	15	60,0	10,8	10,2	12,6				0,090	0,009	0,018	0,018	0,001	0,006	
		Technofert 14-13-30	4	40	160	22,4	20,8	48,0				0,240	0,024	0,048	0,048	0,002	0,016	
		CaMAG	4	10	40	5,6				7,0	2,6							
		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	
5th month	120 - 150	Technofert 14-13-30	4	40	160	22,4	20,8	48,0				0,240	0,024	0,048	0,048	0,002	0,016	
		CaMAG	4	20	80	11,2				14,0	5,2							
		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	
6th month	150 - 180	Hydroponica Pot.Nt.	4	50	200	31,0		91,0										
		CaMAG	4	15	60	8,4				10,5	3,9							
TOTAL FERTILIZING					1.630	238,5	180,9	363,4	0,0	60,6	22,5	3,5	0,2	0,8	0,7	0,0	0,2	

COMPARISON OF TOTAL FERTILIZERS

	N	P ₂ O ₅	K ₂ O	S	CaO	MgO	Fe	Cu	Zn	Mn	Mo	B	
TOTAL FARMER FERTILIZING	1.662	236,9	181,0	364,0	3,4	59,5	22,1	3,6	0,2	0,8	0,7	0,0	0,2
TOTAL DRT FERTILIZING	1.630	238,5	180,9	363,4	0,0	60,6	22,5	3,5	0,2	0,8	0,7	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 – 82 Days Later

16.12.2009



FARMER

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Technofert Trial – 104 Days Later

07.01.2010



FARMER

 **technofert[®]**



Technofert Trial – 104 Days Later

07.01.2010



FARMER

 **technofert[®]**



Technofert Trial – 104 Days Later

07.01.2010



FARMER

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Technofert Trial – 125 Days Later

28.01.2010



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Technofert Trial – 125 Days Later

28.01.2010



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Technofert Trial – 160 Days Later

04.03.2010



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Technofert Trial – 160 Days Later

04.03.2010



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Technofert Trial – 160 Days Later

04.03.2010



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Technofert Trial – 227 Days Later

12.05.2010



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Technofert Trial – 227 Days Later

12.05.2010



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Benefit & Cost (TL)

	Unit	Farmer	DRT&SQM	Difference
Total Fertilizer Cost	TL/ha	11.480,00	6.880,00	-4.600,00

Yield	Ton/ha	100,93	126,24	25,31
Price	TL/Ton	1.400,00	1.400,00	0,00
Gross Income	TL/ha	141.302,00	176.736,00	35.434,00

Net Income	TL/ha	129.822,00	169.856,00	40.034,00
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Increase in Income 31%

Increase in Yield 25%

Benefit & Cost (\$)

	Unit	Farmer	DRT&SQM	Difference
Total Fertilizer Cost	\$/ha	7.653,00	4.586,00	-3.067,00

Yield	Ton/ha	100,13	126,24	26,11
Price	\$/Ton	933,33	933,33	0,00
Gross Income	\$/ha	93.454,67	117.824,00	24.369,33

Net Income	\$/da	85.801,67	113.238,00	27.436,33
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Increase in Income 32%

Increase in Yield 26%

\$ = 1,5 YTL

- ★ Plants were healthier, flowering was better in winter, yield increase observed at Technofert applied side.
- ★ Yield amount were better, even Technofert applied side 200 m² smaller than the other side. Both sides based on hectare in tables then calculated.
- ★ This study provided a good support to our distributor sells Technofert in this area. For the next year, a seminar planned in this area to demonstrate and explain the trial.
- ★ Technofert name spread in the area and farmers started to demand Tecnofert as “Green Fertilizer” from distributors.
- ★ As a observation, even equal amount of straight fertilizer applied, Technofert showed a clear difference. Also farmer satisfied from this result and reported to use Technofert for his other greenhouses next year.





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“Other expensive fertilizers so called quality is nothing against Technofert.” said by Muhsin Özyiğit.

