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**USDA/OICD
RESEARCH AND SCIENTIFIC EXCHANGES**

**TRINATIONAL (EGYPT-ISRAEL-U.S.)
NUBASEED RESEARCH PROJECT**

**ANNUAL FISCAL REPORT
FY-90**

TRINATIONAL (Egypt-Israel-U.S.) NUBASEED RESEARCH PROJECT
Fiscal Progress Report Summary: Egypt, Israel, U.S.

	A	B	C	D	E
	Approved Budget	FY-90 Expense	Cumulative Expense	Balance Available	Projected Expenses Next 12 mo.
EGYPT:					
Irrigation Equipment	145,000	146,520	167,667	(22,667)	
Harvest/On-Farm Equipment	55,000	17,105	29,493	25,507	
Vehicles	85,000	4,548	45,032	39,968	
Inputs/Expendible Supplies, Materials*	190,000	49,706	62,370	127,630	
Inputs/Miscellaneous & General Support	135,000	9,458	13,846	121,154	
Total Expenditures Egypt:	610,000	227,337	318,408	291,592	194,592
ISRAEL					
Irrigation Equipment	177,000	113,967	165,049	11,951	
Nursery Equipment	30,000	8,974	8,974	21,026	
Farm Machinery	29,200	20,958	27,272	1,928	
Saplings \$65000 offset from Egypt	100,000	33,361	57,715	42,285	
Seeds	30,000	15,185	15,185	14,815	
Early Maturation Research	45,000	22,500	22,500	22,500	
Planning	15,000	0	5,116	9,884	
Technical Support: Long Term	270,000	90,000	153,750	116,250	
Technical Support: Short Term	22,500	0	22,500	0	
Total Expenditures Israel:	718,700	304,945	478,061	240,639	202,000
U.S.A.					
Direct Costs:					
Communication and					
Printing/Copying:	13,500	327	327	13,173	100
International Travel:	62,650	26,274	26,274	36,376	18,188
Grant Pmts to Egypt:	610,000	0	315,000	295,000	182,900
Grant Pmts to Israel:	718,700	242,480	557,480	161,220	161,220
Evaluation:					
Transport (2 persons @ \$2500 each)	0	0	0	0	
Per Diem (10 days Egy, 7 days Isr)	0	0	0	0	
Misc. Costs	0	0	0	0	
Subtotal Direct U.S. Expenditures:	1,404,850	269,081	899,081	505,769	362,408
Retained Overhead:	194,032	59,877	140,629	53,403	77,850
Total U.S. Expenditures	1,598,882	328,958	1,039,710	559,172	802,666

* \$65,000 offset from Egyptian budget to Israeli budget to purchase saplings.

FISCAL REPORTS - EGYPT
(QUARTERLY)

TRILATERAL NUBASEED DEVELOPMENT PROJECT

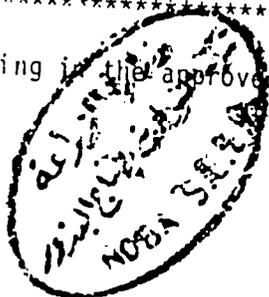
--- Subrecipient and Participating Institution Financial Status Report ---

1. Subrecipient Agreement or Control Number:	2. Report Number: (2)
3. Name & Address of Subrecipient or Participating Institution: Nuba Seed Development Project	4. Reporting Period (should coincide with required schedule): from: 1-10-1989 to: 31-12-1989

PART I - EXPENDITURE REPORT

5. Budget Categories	A. Approved Budget	B. Current Expense	C. Cumulative Exps	(A - C =) Balance Avail.
Irrigation Equipment *(attach details)	\$ 145000	\$ 27685	\$ 48832	\$ 96168
Harvest/On-farm Equipment *(attach details)	55000	-	12388	42612
Vehicles *(attach details)	85000	-	40484	44516
Expendable Supplies/materials *(attach details)	255000	225	12889	242111
Misc./General Support Inputs *(attach details)	135000	81	4469	130531
R & D Activities in Summary *(attach detailed report)	-	-	-	-
Technical Support *(attach details)	-	-	-	-
6. TOTALS	675000	27991	119062	555938

* - by line-items appearing in the approved budget



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PART II - SUMMARY STATUS OF FUNDS

7. Total Funds Received to Date:	315000
8. Interest Earned on Fund Deposits	-
9. Total Funds to be Accounted For (7. + 8. =)	315000
10. Total Expenditures Including This Report Period (= Cumulative Expenses, line 5, column C)	119062
11. BALANCE OF FUNDS ON HAND (9. - 10. =)	195938

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PART III - ESTIMATED FUNDS REQUIRED NEXT PERIOD

12. Estimated Funds Required for Next 5 Months	
13. Estimated Funds Required for the following 6 Months	
14. Less Funds on Hand, End of this Report Period (= 11.)	
15. NET AMOUNT OF ADVANCE PAYMENT APPLIED FOR (12 + 13 - 14 =)	

* * *

PART IV - CERTIFICATION

We certify that the expenditures reported were made in accordance with the Subrecipient Agreement terms and conditions and in furtherance of the applicable "Trilateral Nubaseed Development Project" scope of work.

16. Signature of Project's Technical Coordinator:

17. Title:

18. Date:

19. Signature of Subrecipient or Participating Institution Fiscal Officer:

20. Title:

21. Date:



NUBA SEED

NOUBARIA SEED PRODUCTION Co.
Kilo 75 Alex. - Cairo Desert Road
POSTE OFFICE Janaklees Behira
Cable : Noubaseed Janaklees
Tel. : 03-980208 Alexandria

نوباسيد
شركة النوبارية لإنتاج البذور
ن ٧٥ طريق الاسكندرية القاهرة الصحراوى
مكتب بريد جناكليس بحيرة - تلفرافيا: نوباسيد جناكليس
تليفون: ٠٣/٩٨٠٢٠٨ - اسكندرية

Report Number (2)

Details

=====

* Irrigation Pumps	\$ 2820	
Installation of Irrigation	24865	
Total		\$ 27685
* Chemicals , Fertilizers & Pesticides	225	
Total		225
* General Support		
Fuel & electricity	4	
Spare parts	2	
contingencies	75	
Total		81
Total		<u>27991</u>
		=====



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TRILATERAL NUBASEED DEVELOPMENT PROJECT

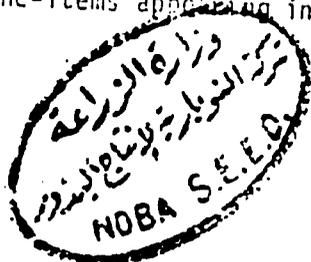
--- Subrecipient and Participating Institution Financial Status Report ---

1. Subrecipient Agreement or Control Number:	2. Report Number: (3)
3. Name & Address of Subrecipient or Participating Institution: Nuba Seed Development Project	4. Reporting Period (should coincide with required schedule): from: 1-1-1990 to: 31-3-1990

PART I - EXPENDITURE REPORT

5. Budget Categories	A. Approved Budget	B. Current Expense	C. Cumulative Expense	(A - C =) Balance Avail.
Irrigation Equipment *(attach details)	\$ 145000	\$ 28360	\$ 77192	\$ 67808
Harvest/On-farm Equipment *(attach details)	55000	1520	13908	41092
Vehicles *(attach details)	85000	-	10484	44516
Expendable Supplies/materials *(attach details)	255000	13663	26552	228448
Misc./General Support Inputs *(attach details)	135000	160	4629	130371
R & D Activities in Summary *(attach detailed report)	-	-	-	-
Technical Support *(attach details)	-	-	-	-
6. TOTALS	675000	43703	162765	512235

* - by line-items appearing in the approved budget



* * *

PART II - SUMMARY STATUS OF FUNDS

7. Total Funds Received to Date:	315000
8. Interest Earned on Fund Deposits	-
9. Total Funds to be Accounted For (7. + 8. =)	315000
10. Total Expenditures Including This Report Period (= Cumulative Expenses, line 5, column C)	162765
11. BALANCE OF FUNDS ON HAND (9. - 10. =)	152235

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PART III - ESTIMATED FUNDS REQUIRED NEXT PERIOD

12. Estimated Funds Required for Next 5 Months	
13. Estimated Funds Required for the following 6 Months	
14. Less Funds on Hand, End of this Report Period (= 11.)	
15. NET AMOUNT OF ADVANCE PAYMENT APPLIED FOR (12 + 13 - 14 =)	

* * *

PART IV - CERTIFICATION

We certify that the expenditures reported were made in accordance with the Subrecipient Agreement terms and conditions and in furtherance of the applicable "Trilateral Nubaseed Development Project" scope of work.

16. Signature of Project's Technical Coordinator:

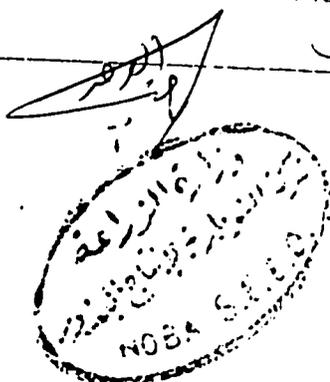
17. Title:

18. Date:

19. Signature of Subrecipient or Participating Institution Fiscal Officer:

20. Title:

21. Date:



NUBA SEED

NOUBARIA SEED PRODUCTION Co.
Kilo 75 Alex. - Cairo Desert Road
BOSTE OFFICE Janaklees Behira
Cable : Noubaseed Janaklees
Tel. : 03-980208 Alexandria

نوباسيد

شركة النوبارية لإنتاج البذور
ك ٧٥ طريق الاسكندرية القاهرة الصحراوي
مكتب بريد هناكليس بحيرة - تلفرافيا: نوباسيد هناكليس
تليفون: ٠٣/٩٨٠٢٠٨ - اسكندرية

Report Number (3)

Details

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* Irrigation Pumps	\$ 2380	
Installation of Irrigation	25980	
Total		\$ 28360
* Farm equipment	1520	
Total		1520
* Splings	5085	
Chemicals , Fertilizers & Pesticides	8578	
Total		13663
* General Support		
Fuel & electricity	87	
Contingencies	73	
Total		160
Total		<u>43703</u>
		=====



IR-EG-2
(Nubaseed
Egy Fiscal)

TRILATERAL NUBASEED DEVELOPMENT PROJECT

--- Subrecipient and Participating Institution Financial Status Report ---

1. Subrecipient Agreement or Control Number:	2. Report Number: (4)
3. Name & Address of Subrecipient or Participating Institution: Nuba Seed Development Project	4. Reporting Period (should coincide with required schedule): from: 1-4-1990 to: 30-6-1990

PART I - EXPENDITURE REPORT

5. Budget Categories	A. Approved Budget	B. Current Expense	C. Cumulative Exps	(A - C =) Balance Avail.
Irrigation Equipment *(attach details)	\$ 145000	\$ 50505	\$ 127697	\$ 17303
Harvest/On-farm Equipment *(attach details)	55000	9285	23193	31807
Vehicles *(attach details)	85000	4548	45032	39968
Expendable Supplies/materials *(attach details)	255000	19741	46293	208707
Misc./General Support Inputs *(attach details)	135000	663	5292	129708
R & D Activities in Summary *(attach detailed report)	-	-	-	-
Technical Support *(attach details)	-	-	-	-
6. TOTALS	675000	84742	247507	427493

* - by line-items appearing in the approved budget



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PART II - SUMMARY STATUS OF FUNDS

7. Total Funds Received to Date:	315000
8. Interest Earned on Fund Deposits	-
9. Total Funds to be Accounted For (7. + 8. =)	315000
10. Total Expenditures Including This Report Period (= Cumulative Expenses, line 5, column C)	247507
11. BALANCE OF FUNDS ON HAND (9. - 10. =)	67493

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PART III - ESTIMATED FUNDS REQUIRED NEXT PERIOD

12. Estimated Funds Required for Next 6 Months	180000
13. Estimated Funds Required for the following 6 Months	247493
14. Less Funds on Hand, End of this Report Period (= 11.)	67493
15. NET AMOUNT OF ADVANCE PAYMENT APPLIED FOR (12 + 13 - 14 =)	360000

* * *

PART IV - CERTIFICATION

We certify that the expenditures reported were made in accordance with the Subrecipient Agreement terms and conditions and in furtherance of the applicable "Trilateral Nubaseed Development Project" scope of work.

16. Signature of Project's Technical Coordinator:

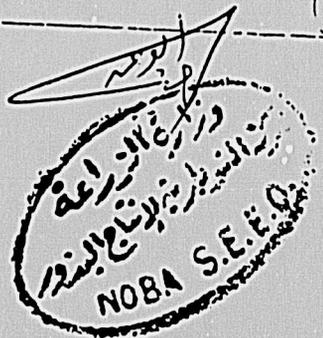
17. Title:

18. Date:

19. Signature of Subrecipient or Participating Institution Fiscal Officer:

20. Title:

21. Date:



NUBA SEED

NOUBARIA SEED PRODUCTION Co.
Hilo 75 Alex. - Cairo Desert Road
POST OFFICE Janaklees Behira
Cable : Noubaseed Janaklees
Tel. : 03-980208 Alexandria

نوباسيد

شركة النوبارية لإنتاج البذور
ك ٧٥ طريق الاسكندرية القاهرة الصحراوي
مكتب بريد هناكليس بحيرة - تلغرافيا: نوباسيد هناكليس
تليفون: ٠٣/٩٨٠٢٠٨ - اسكندرية

Report Number (4)

Details	
=====	
* Irrigation Pumps	\$ 48585
Installation of Irrigation	1920
Total	\$ 50505
* Farm Equipment	9285
Total	9285
* 2 Motor-cycle	4548
Total	4548
* Splings	5553
Chemicals , Fertilizers & Pesticides	14188
Total	19741
* General Support	
Fuel & electricity	255
Contingencies	408
Total	663
* Total	<u>84742</u>
	=====



Post-It™ brand low transmittal (10/1) # of pages 1	
To: Mr. Mark B. Allen	From: CAR
Dept: USDA	Phone: 712937
Fax:	Ext:

--- Subrecipient ---

Report ---

1. Subrecipient Agreement or Control Number: _____

2. Report Number: (5)

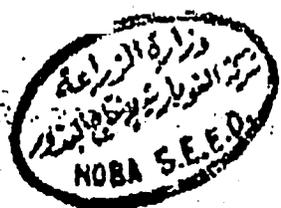
3. Name & Address of Subrecipient or Participating Institution:
Haba Seed Development Project

4. Reporting Period (should coincide with required schedule):
from: 1-7-1990 to: 30-9-1990

PART I - EXPENDITURE REPORT

Budget Category	Approved Budget	Current Expense	C. Cumulative Exps	(A - C) Balance Avail.
Irrigation Equipment *(attach details)	\$ 145000	\$ 39970	\$ 167667	\$ (22667)
Harvest/On-farm Equipment *(attach details)	55000	6300	29497 29493	25507
Vehicles *(attach details)	85000	-	45032	39968
Expendable Supplies/materials *(attach details)	255000	16077	62370 62370	192630 192630
Misc./General Support Inputs *(attach details)	135000	8554 8554	15846 13846	121154
R & D Activities in Summary *(attach detailed report)	-	-	-	-
Technical Support *(attach details)	-	-	-	-
6. TOTALS	675000	70901	318408	356592

* - by line-items appearing in the approved budget



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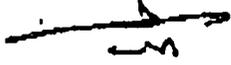
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PART II - SUMMARY STATUS OF FUNDS	
7. Total Funds Received to Date	315000
8. Interest Earned on Fund Deposits	-
9. Total Funds to be Accounted For (7. + 8. =)	315000
10. Total Expenditures Including This Report Period (= Cumulative Expenses, line 5, column C)	318408
11. BALANCE OF FUNDS ON HAND (9. - 10. =)	(3408)

#

PART III - ESTIMATED FUNDS REQUIRED	
12. Estimated Funds Required for the following 6 Months	180000
13. Estimated Funds Required for the following 6 Months	176592
14. Less Funds on Hand, End of this Report Period (= 11.)	(3408)
15. NET AMOUNT OF ADVANCE PAYMENT APPLIED FOR (12 + 13 - 14 -)	360000

* * *

PART IV - CERTIFICATION	
We certify that the expenditures reported were made in accordance with the Subrecipient Agreement terms and conditions and in furtherance of the applicable "Trilateral Nubased Development Project" scope of work.	
16. Signature of Project's Technical Coordinator:	
17. Title:	
18. Date:	
19. Signature of Subrecipient or Participating Institution Fiscal Officer:	20. Title:
	
	21. Date:



NUBA SEED

NOUBARIA SEED PRODUCTION Co.
Kilo 75 Alex. - Cairo Desert Road
POST OFFICE Janaklca Behira
Cable : Noubaseed Janaklca
Tel. : 03-980208 Alexandria

نوباء سید

شركة النوبارية لإنتاج البذور
ك ٧٥ طرقة الإسكندرية القاهرة، الجيزة
مكتبه بهيئة جنالكيس جيزة - تلفرنيا، نوباء سید جنالكيس
تليفون: ٠٣/٩٨٠٢٠٨ إسكندرية

Report Number (5)

Details

* Irrigation Pumps	\$ 39970	
Total		\$ 39970
* Farm Equipments	6300	
Total		6300
* Suplings	1227	
Chemicals Fertilizers and pesticides	14850	
Total		16077
* General Support		
Fuel & Electricity	373	
Contingencies	8181	
Total		8554
* Total		70901



FISCAL REPORTS - ISRAEL

(BI-ANNUAL)

TRILATERAL HUBBASED DEVELOPMENT PROJECT

--- Subrecipient and Participating Institution Financial Status Report ---

1. Subrecipient Agreement or Control Number:	2. Report Number: (1)
3. Name & Address of Subrecipient or Participating Institution: Nuba Seed Development Project	4. Reporting Period (should coincide with required schedule): from: 1-10-1988 to: 30-9-1989

PART I - EXPENDITURE REPORT

5. Budget Categories	A. Approved Budget	B. Current Expense	C. Cumulative Exps	(A - C =) Balance Avail.
Irrigation Equipment *(attach details)	\$ 145000	\$ 21147	\$ 21147	\$ 123853
Harvest/On-farm Equipment *(attach details)	55000	12388	12388	42612
Vehicles *(attach details)	85000	40484	40484	44516
Expendable Supplies/materials *(attach details)	255000	12664	12664	242336
Misc./General Support Inputs *(attach details)	135000	4388	4388	130612
R & D Activities in Summary *(attach detailed report)	-	-	-	-
Technical Support *(attach details)	-	-	-	-
6. TOTALS	675000	91071	91071	583929

* - by line-items appearing in the approved budget



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PART II - SUMMARY STATUS OF FUNDS

7. Total Funds Received to Date	315000
8. Interest Earned on Fund Deposits	-
9. Total Funds to be Accounted For (7. + 8. =)	315000
10. Total Expenditures Including This Report Period (= Cumulative Expenses, line 5, column C)	91071
11. BALANCE OF FUNDS ON HAND (9. - 10. =)	223929

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PART III - ESTIMATED FUNDS REQUIRED NEXT PERIOD

12. Estimated Funds Required for Next 5 Months	
13. Estimated Funds Required for the following 6 Months	
14. Less Funds on Hand, End of this Report Period (= 11.)	
15. NET AMOUNT OF ADVANCE PAYMENT APPLIED FOR (12 + 13 - 14 =)	

* * *

PART IV - CERTIFICATION

We certify that the expenditures reported were made in accordance with the Subrecipient Agreement terms and conditions and in furtherance of the applicable "Trilateral Nubaseed Development Project" scope of work.

16. Signature of Project's Technical Coordinator:

17. Title:

18. Date:

19. Signature of Subrecipient or Participating Institution Fiscal Officer:

20. Title:

21. Date:



NUBA SEED

NUBARIA SEED PRODUCTION Co.
No 75 Alex. - Cairo Desert Road
DISTRICT OFFICE Janaklees Behira
Cable : Noubaseed Janaklees
Tel. : 03-980208 Alexandria

نوباسيد
شركة النوبارية لإنتاج البذور
٧٥ طريق الاسكندرية القاهرة الصحراوي
مكتب بريد منهاكليس بحيرة - تلفرافيا: نوباسيد منهاكليس
تليفون: ٠٣/٩٨٠٢٠٨ - اسكندرية

Report Number (1)

Details

* Irrigation Pumps	\$ 3372	
Installation of Irrigation	17775	
Total		\$ 21147
* Farm Equipment	148	
Tractors	12240	
Total		12388
* 5 4-Wheel drive vehicles	38588	
2 Motor cycle	1896	
Total		40484
* Splings	1388	
Chemicals , Fertilizers & Pesticides	11276	
Total		12664
* General Support		
Fuel & lelectricity	15	
Spare Parts	1116	
Contingencies	3257	
Total		4388
* Total		91071



TRILATERAL NUBASEED DEVELOPMENT PROJECT

Subrecipient and Participating Institution Financial Status Report

1. Subrecipient Agreement
or Control Number: Grant No. IR-IS-2

2. Report No. 2

3. Name & Address of Subrecipient
or Participating Institution:
Agridev, Ltd.
P.O. Box 213, Rehovot 76101, Israel

4. Reporting Period:
from: Oct. 1, 89 to: March 31, 90

PART I - EXPENDITURE REPORT

5. Budget Categories	A Approved Budget	B Current Expense	C Cumulative Expense	(A - C =) Balance Available
	US\$	US\$	US\$	US\$
Irrigation equipment	177,000	113,966.70	165,048.88	11,951.12
Nursery equipment	30,000	---	---	30,000
Farm Machinery	29,200	---	6,313.90	22,886.10
Saplings	100,000*	32,271	56,625.50	43,374.50
Seeds	30,000	1,025	1,025	28,975
Early Maturation Research	45,000	---	---	45,000
Planning	15,000	---	5,116	9,884
Long Term Expert	270,000	45,000	108,750	161,250
Short Term Consultant	22,500	---	22,500	---
6. TOTALS	718,700* *****	192,262.70 *****	365,379.28 *****	353,320.72 *****

* Includes US\$ 65,000 transferred from the Egyptian budget to the Israeli budget.

PART II - SUMMARY STATUS OF FUNDS

7. Total Funds Received to Date	557,400
8. Interest Earned on Fund Deposits	---
9. Total Funds to be Accounted For (7. + 8. =)	557,400
10. Total Expenditures Including this Report Period (line 6, column C)	365,379.28
11. Balance of Funds on Hand (9. - 10. =)	192,020.72

PART III - ESTIMATED FUNDS REQUIRED NEXT PERIOD

12. Estimated Funds Required for Next 6 Months	140,000
13. Estimated Funds Required for the following 6 Months	150,000
14. Less Funds on Hand, End of this Report Period (= 11.)	192,000
15. NET AMOUNT OF ADVANCE PAYMENT APPLIED FOR (12 + 13 - 14 =)	98,000

PART IV - CERTIFICATION

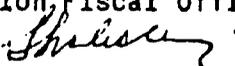
We certify that the expenditures reported were made in accordance with the Subrecipient Agreement terms and conditions and in furtherance of the applicable "Trilateral Nubased Development Project" scope of work.

16. Signature of Project's Technical Coordinator: 

17. Title: Projects Director

18. Date: April 13, 1990

19. Signature of Subrecipient or Participating Institution, Fiscal Officer:

20. Title: Chief Treasurer 

21. Date: April 13, 1990

TRILATERAL NUBASEED DEVELOPMENT PROJECT

Subrecipient and Participating Institution Financial Status Report

1. Subrecipient Agreement

or Control Number: Grant No. IR-IS-2

2. Report No. 3

3. Name & Address of Subrecipient
or Participating Institution:

Agridev, Ltd.

P.O. Box 213, Rehovot 76101, Israel

4. Reporting Period:

from: April 1, 90 to: Sept 30, 90

PART I - EXPENDITURE REPORT

5. Budget Categories	A Approved Budget	B Current Expense	C Cumulative Expense	(A - C =) Balance Available
	US\$	US\$	US\$	US\$
Irrigation equipment	177,000	---	165,048.88	11,951.12
Nursery equipment	30,000	8,973.80	8,973.80	21,026.20
Farm Machinery	29,200	20,958.35	27,272.25	1,927.75
Saplings	100,000*	1,090	57,715.50	42,684.45
Seeds	30,000	14,159.60	15,184.60	14,815.40
Early Maturation Research	45,000	22,500	22,500	22,500
Planning	15,000	---	5,116	9,884
Long Term Expert	270,000	45,000	153,750	116,250
Short Term Consultant	22,500	---	22,500	---
6. TOTALS	718,700* =====	112,681.75 =====	478,061.03 =====	240,638.97 =====

* includes US\$ 65,000 transferred from the Egyptian budget to the Israeli budget.

PART II - SUMMARY STATUS OF FUNDS

7. Total Funds Received to Date	557,400
8. Interest Earned on Fund Deposits	---
9. Total Funds to be Accounted For (7. + 8. =)	557,400
10. Total Expenditures Including this Report Period (line 6, column C)	478,061.03
11. Balance of Funds on Hand (9. - 10. =)	79,338.97

PART III - ESTIMATED FUNDS REQUIRED NEXT PERIOD

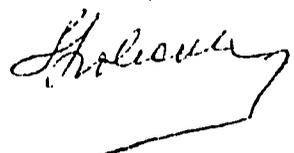
12. Estimated Funds Required for Next 6 Months	170,000*
13. Estimated Funds Required for the following 6 Months	82,000
14. Less Funds on Hand, End of this Report Period (= 11.)	79,000
15. NET AMOUNT OF ADVANCE PAYMENT APPLIED FOR (12 + 13 - 14 =)	173,000*

* Includes about US\$ 50,000 for purchases in Israel from the funds allocated to the Egyptian budget. A formal request from Egypt to transfer this payment to Agridev will be sent soon.

PART IV - CERTIFICATION

We certify that the expenditures reported were made in accordance with the Subrecipient Agreement terms and conditions and in furtherance of the applicable "Trilateral Nubaseed Development Project" scope of work.

16. Signature of Project's Technical Coordinator: 
17. Title: Projects Director
18. Date: October 14, 1990

19. Signature of Subrecipient or
Participating Institution Fiscal Officer: 
20. Title: Chief Treasurer
21. Date: October 14, 1990

**FISCAL REPORT
U.S. EXPENSES**

(ANNUAL)

TRINATIONAL PROGRAM, USDA/OICD
RESEARCH AND SCIENTIFIC EXCHANGES DIVISION

NUBASEED
Fiscal Year 90
U.S. Expenditures

<u>TOTAL FOR TRAVEL ADMIN - USA</u>	\$3,863	
<u>TOTAL FOR TRAVEL - EGY</u>	\$5,967	
<u>TOTAL FOR TRAVEL - ISR</u>	\$5,690	
<u>TOTAL FOR TRAVEL SCIENTISTS - USA</u>	\$10,754	
<u>TOTAL FOR OVERHEAD - ISR</u>		\$27,200
<u>TOTAL FOR SUPPL/COMMUNICATION - USA</u>	\$327	
<u>TOTAL FOR OFFSET FROM/GRANT PMT TO - ISR</u>	\$215,280	
Total Direct Costs:	\$241,880	
Total Overhead Pass Through:	\$27,200	
Total OICD Retained Overhead:	<u>\$59,877</u>	
Total Direct Costs and Overhead:	\$328,957	

Note: All travel costs during fiscal year 1990 were associated with the Steering Committee Meeting held in Copenhagen, Denmark in June 1990. A summary of the meeting is attached in the Technical Report.

**USDA/OICD
RESEARCH AND SCIENTIFIC EXCHANGES**

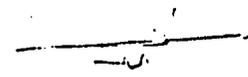
**TRINATIONAL (EGYPT-ISRAEL-U.S.)
NUBASEED RESEARCH PROJECT**

**ANNUAL TECHNICAL REPORT
FY-90**

TECHNICAL REPORT

TRILATERAL NUBASEED DEVELOPMENT PROJECT

1. Report Period: April 1st, 1990 - September 30, 1990
2. Reporting Institutions: Nubaseed Co. and Agridev Co.
3. Certifying Officials:

Esmat Metually (Nubaseed Co.) 

Zeev Bogger (Agridev Co.) 

4. Technical Work Performed During Reporting Period:

- a. Fruit Plantation

In general terms the plantation continues to develop satisfactorily. Vegetative growth is good, showing that varieties which require less chilling temperatures develop faster than others. First fair yield was obtained and sold from the trees planted on 1989.

The irrigation system was adapted so as to enable a centralized operation and monitoring, thus obtaining a more efficient and effective work. In addition, it will enable to computerize the system in the future, if so desired. The irrigation applied was, in the average, 2.5 mm/day in a daily irrigation cycle for 1989 trees, and every other day for 1990 trees. Tensiometers of two types (vacuum and mercury) were installed to monitor irrigation needs.

Power failures continued to disrupt the irrigation application, but the problem is being solved by the installation of a diesel powered pump.

Weed eradication was done by disc and with manual labor. The latter showed to be not too effective. An overhead sprayer was acquired lately and it will ease and make more effective the combat against pests.

Some difficulties were encountered with the shipment by land, from Israel to the farm, of the saplings planted in 1990. As a consequence, some trees suffered, particularly apples and apricots, and did not succeed in developing a fair root system, and will be replaced in the 1991 planting season. However a success of more than 94% in the whole plantation is quite satisfactory. In order to overcome this problem it was decided to ship goods by sea to Alexandria port (near to the farm). The first delivery of equipment by sea was successful.

The irrigation network for the last third of the planned area will be installed on December 1990, and the trees will be planted by the end of January 1991, including nectarines, apples, peaches, apricots and pecans.

b. Seed/Vegetables Production

Installation of the irrigation system has been completed, including the underground PVC network, the drip and sprinkler pipes, the filter battery station, as well as a motor-powered stand by pump.

New machinery acquired: paraplough sub-soiler for land preparation and a mulch/fumigation machine for injecting Methyl-bromide to the soil.

Follows a description of crops grown.

Melons

Variety: Makdimon. Area: 12.3 Feddan. Previous crop: onion.
Sowing dates: 20.12.89 - 5.1.90, 2 seeds every 0.50 m.
Operations: disking; irrigation; ridging; application of manure and fertilizers (per feddan: 30m³ manure, 300 kg Superphosphate, 50 kg Amonium Sulphate, 300 kg Potasium Sulphate); installation of dripper lines (one lateral per bed at 1.80 m between laterals); machine mulch spreading and hot Methyl Bromide fumigation (100 kg/feddan); spreading of low plastic tunnels (70 micron, 2.4 m width). installation of 50 bee hives around the plot.

78

Picking period: 24.4.90 - 8.7.90 (80 days). The harvest work was done by a merchant to whom the produce was sold.

Daily data and cumulative figures of quantities picked, as obtained from the merchant's books, are shown in Tables 1 and 2 and Graphs 1,2,3 (estimations for periods 24.4.90 - 2.5.90 and 26.6.90 - 4.7.90). Produce was graded according to the quality: export (to England and Kwait), 1,2 and 3.

Total yield: 213,00 kg (i.e. 17.3 per feddan) of which: export - 12.1%, grade 1 - 34.9%, grade 2 - 25.7%, grade 3 - 27.3%.

Since the missing data has been calculated by extropolation, and knowing that the first pickings produce a higher rate of export and first grade, it can be assumed that the real total percentage of these grades was higher than shown (47%).

Onions

Total area: 20 feddan. Varieties: Giza 20 - 20 feddan, Grano 4 - 5 feddan. Previous crop: melons. Sowing dates: 1.11.89 - 20.11.89; rates: Giza 20 - 1.25 kg/feddan, Grano 4 - 1.75 kg/feddan.

Operations: as in melons. Irrigation: drippers (2 laterals per bed) - 12.5 feddan, and sprinklers-12.5 feddan.

Yields: Giza 20 - 15 tons, Grano 4 - 4 tons.

The yield was relatively low, for the following reasons: half of the plots was sown too late; use of uncomposted manure and heavy infestation of weeds; lack of suitable herbicides. In addition, although the crop was ready for harvesting in June, the harvest was done only in August/September, when prices were low. The crop could be profitable if several conditions are met; grow earlier varieties, apply composted manure, use solar sterilization, availability of pre- and post-emergence herbicides. Otherwise it would be advisable to replace it for other crops.

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Tomatoes variety trial

Perthenocarpic open-field tomatoes is an innovation recently introduced. This tomato has the advantage of not being affected by low temperatures, producing seedless fruits during the relatively cold season when grown in open field or low plastic tunnels. To assess this the trial was set-up.

Varieties: 5083, 5084, 5202, 5449, with Naama as control

Area: three varieties - 27 m² each (5 m length in 3 replicates), variety 5084 - 18 m² (two replicates).

Seedling nursery: 13.11.89 - 26.12.89. Planting: 26.12.89, at 0.50 m distance.

Picking dates: 19.4.90 - 28.5.90. After this period the market prices dropped sharply and picking was stopped. However much produce was still in the plants. Fruit were counted and weighed by variety; results are shown in Tables 3,4,5 and graphs 4,5.

The yields of the 4 varieties are very similar, as well as their firmness. Variety 5449 produces the biggest fruits and 5202 the smallest.

In general terms, our assessment was verified and it is recommended to grow these varieties, exception made of 5202 for its small fruit.

Squash for seed production

Total area: 5 feddan. Previous crop: onion. Local variety. Sowing: March 1990. Operations: as for onion, sprinkler irrigated. Picking: August 1990. Yield: 750 kg.

Pepper for seed production

Variety: Hazera hybrid parent seeds. Area: 0.5 feddan.
Operation: as for onions; drip irrigated. Pollination by hand. Crop is still under growth.

Production programme for next seasons:

Tomatoes:	September-February - 16 feddan
Beans:	October-March - 16 feddan
Tomatoes (parthenocarpic):	December-May - 16 feddan
Water melons:	December-June - 36 feddan

c. Nursery

One plastic walking tunnel, area: 500 m². One third of the trays for "speedling" production are on tables; the rest on aluminium pipes on ground level.

Most irrigation system is under installation. An anti-virus net was acquired to fully cover the tunnel thus reducing the need to spray against white fly.

Production: 30 trays of pepper, 1150 trays of tomatoes. 1300 trays of parthenocarpic tomatoes are planned for November.

d. Research and Development

Introduction of stone fruit varieties with adaptability to arid regions and improvement of fruit tree quarantin system.

The objectives of the project are to introduce and to select early maturing varieties of peaches and nectarines with greater adaptability to arid zone conditions.

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Imported budwoods of peaches and nectarines have been grafted in Nemaguard rootstock. The plants are grown in an introduction plot of about 1 hectare in the Besor Experimental Station located at the Negev region, in the southern part of Israel. The spacing is 3x5 m. Each cultivar is examined in duplicates of 3 trees each. The examination of the cultivars in the introduction plot is done coincidentally with the inspection procedure in the quarantine station. Therefore, the trees in the plot are grown under strictly closed and isolated conditions.

About 60 different cultivars of peach and nectarine were examined during 1990 season. The cultivars were imported from P. Zaiger, Modesto, California and W.B. Sherman, Gainesville, Florida. Almost all the cultivars were originally selected for low chilling requirement.

Cultivars that were found to be infected with virus diseases either in the introduction plot or in the quarantine station were immediately uprooted.

The cultivars had a prolonged time of blossom which resulted also in a long period of fruit maturation. Irrigation, pruning, fertilization and plant protection were conducted according to the regular recommendations for the commercial plantations in the area. Rest-breaking treatments were applied chemically for advancing the fruiting time.

Information about the tree, flower and leaf characteristics of each cultivar, such as the time of full bloom, fruit maturity, fruit shape and size, color, flesh firmness and flavor was recorded for each cultivar.

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Follows a summary of this information.

Peach

- (i) Cultivars which their examination in the introduction plot was completed and were therefore uprooted; 26 G 520, Flordagem, Flordastar, 8-3, 6-4, June Gold.
- (ii) Cultivars which were promising and left for further examination:
84-4, 19 R 147, Flordaglo, 8 GE 182, 37 EB 416, 60 EE 126, 30 EB 320.
- (iii) Cultivars which were inferior in the Besor region.
Textar, 23.5 GA End, 7-11, Tasty Zee, 3-2, Desert Red, 9-14, 36 EB 34, White Lady, 95 ED 1, GHB 22, GHB 23.
- (iv) Cultivars which died:
13 EE 453, 62 RA 286, Flordacrest

Nectarine

- (i) Cultivars which their examination in the introduction plot was completed and were therefore uprooted:
28 GA 1176, Mayglo, 29 G 798, April glo, 20 GB 745, 20 GB 618.
- (ii) Cultivars which are promising and left for further examination:
9-12, 9-15, 20 GB 624, 9-11, 1 GC 100, 1 GC 74, 1 GC 92, 31 EB 222, 162 RA 2818, 107 ED 621
- (iii) Cultivars which were inferior in the Besor region:
Sunhome, 9 R 265, 16 GA 1057, 9 R 307, 30 RA 156-1

e. Technical support

Agridev's specialist in deciduous fruit, Mr. Arie Zerem paid a short follow-up visit to the project on June 1990. The two resident

- 8 -

specialists in fruit and irrigated vegetables production continue to cooperate with the Nubaseed team in the technical management of the project.

5. Forecast of work for the next reporting period.

Detailed in 4 a-d above.

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TABLE 1 : MELONS - DAILY AND TOTAL PICKINGS (Kg.)

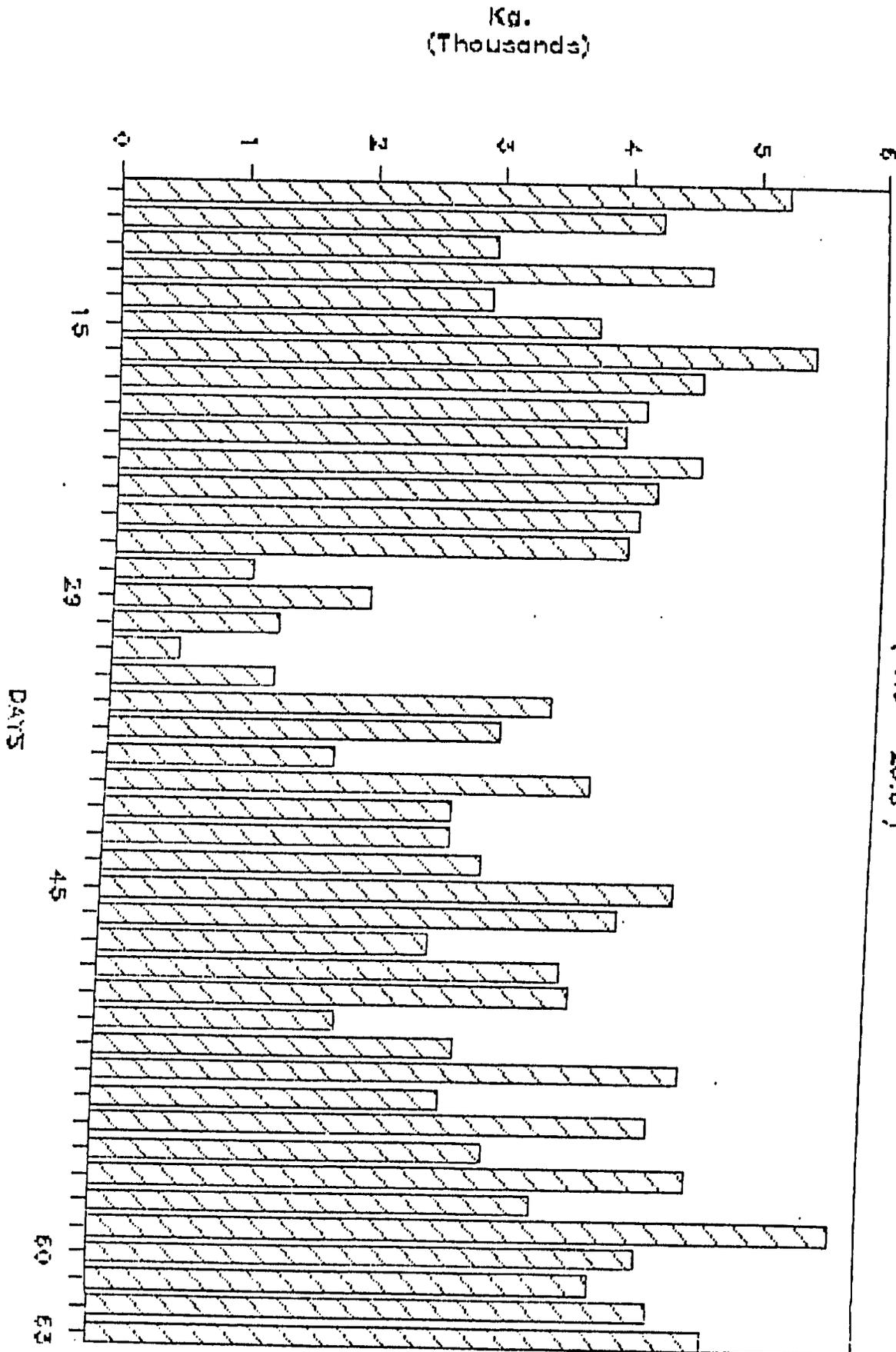
	DAY	EXPORT	GRADE			TOTAL
			1	2	3	
24.4-2.5	9					30000
3.5	10	1000	3198	178	855	5231
4.5	11	1070	2100	85	999	4254
5.5	12	1000	640	675	641	2956
6.5	13	2000	1272	577	760	4609
7.5	14		1348	642	923	2913
8.5	15	1000	1472	578	708	3758
9.5	16	1000	2656	1000	782	5438
10.5	17	1000	1658	1763	140	4561
11.5	18	1000	1758	984	385	4127
12.5	19		2242	1000	726	3968
13.5	20	1000	2000	1000	550	4550
14.5	21		1454	1557	1223	4234
15.5	22	1000	1063	667	1351	4081
17.5	24	770	800	938	1500	4008
19.5	26		82	500	500	1082
22.5	29	500	361	268	880	2009
25.5	32	320	322	165	500	1307
27.5	34	500		32		532
28.5	35		794	195	301	1290
30.5	37		1227	1567	660	3454
31.5	38		1258	539	1281	3078
1.6	39		611	398	767	1776
2.6	40	640	1932	815	400	3787
3.6	41		959	1230	525	2714
4.6	42		1542	753	425	2720
6.6	44		1280	490	1200	2970
7.6	45	1000	1570	1113	802	4485
8.6	46		2467	571	1017	4055
9.6	47		867	670	1040	2577
10.6	48		1834	1012	766	3612
11.6	49	340	1271	523	1564	3698
12.6	50		684	827	362	1873
13.6	51		552	870	1393	2815
14.6	52		1069	1946	1574	4589
15.6	53		1175	1200	350	2725
16.6	54		1423	950	1964	4337
17.6	55		371	1102	1594	3067
18.6	56		1234	1700	1715	4649
19.6	57		1092	718	1644	3454
21.6	59	1440	489	2383	1475	5787
22.6	60		1285	1438	1550	4273
23.6	61	1045	685	1143	1059	3932
24.6	62		666	1492	2225	4383
25.6	63	1065	1138	1500	1111	4814
26.6-4.7	72					20000
5.7	73			1105		1105
6.7	74			3570		3570
7.7	75			900		900
9.7	77			1610		1610
10.7	78			1190		1190
TOTAL		18690	53901	48129	42187	212907

TABLE 2 : MELONS - ACCUMULATING DAILY AND TOTAL PICKINGS (Kg.)

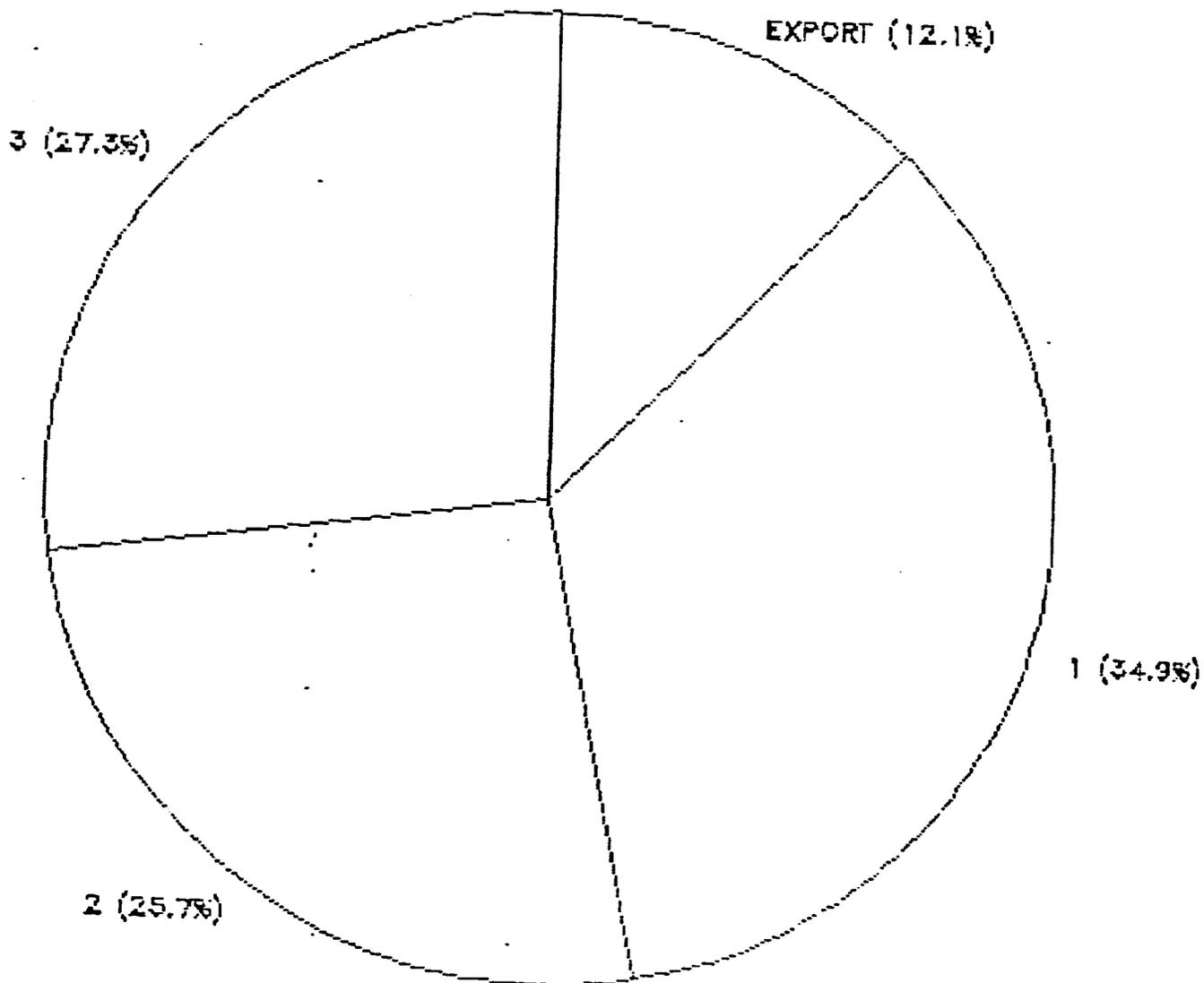
DATE	DAY	EXPORT	GRADE			TOTAL
			1	2	3	
24.4-2.5	9					30000
3.5	10	1000	3198	178	855	35231
4.5	11	2070	5298	263	1854	39485
5.5	12	3070	5938	938	2495	42441
6.5	13	5070	7210	1515	3255	47050
7.5	14	5070	8558	2157	4178	49963
8.5	15	6070	10030	2735	4886	53721
9.5	16	7070	12686	3735	5668	59159
10.5	17	8070	14344	5498	5808	63720
11.5	18	9070	16102	6482	6193	67847
12.5	19	9070	18344	7482	6919	71815
13.5	20	10070	20344	8482	7469	76365
14.5	21	10070	21798	10039	8692	80599
15.5	22	11070	22861	10706	10043	84680
17.5	24	11840	23661	11644	11543	88688
19.5	26	11840	23743	12144	12043	89770
22.5	29	12340	24104	12412	12923	91779
25.5	32	12660	24426	12577	13423	93086
27.5	34	13160	24426	12609	13423	93618
28.5	35	13160	25220	12804	13724	94908
30.5	37	13160	26447	14371	14384	98362
31.5	38	13160	27705	14910	15665	101440
1.6	39	13160	28316	15308	16432	103216
2.6	40	13800	30248	16123	16832	107003
3.6	41	13800	31207	17353	17357	109717
4.6	42	13800	32749	18106	17782	112437
6.6	44	13800	34029	18596	18982	115407
7.6	45	14800	35599	19709	19784	119892
8.6	46	14800	38066	20280	20801	123947
9.6	47	14800	38933	20950	21841	126524
10.6	48	14800	40767	21962	22607	130136
11.6	49	15140	42038	22485	24171	133834
12.6	50	15140	42722	23312	24533	135707
13.6	51	15140	43274	24182	25926	138522
14.6	52	15140	44343	26128	27500	143111
15.6	53	15140	45518	27328	27850	145836
16.6	54	15140	46941	28278	29814	150173
17.6	55	15140	47312	29380	31408	153240
18.6	56	15140	48546	31080	33123	157889
19.6	57	15140	49638	31798	34767	161343
21.6	59	16580	50127	34181	36242	167130
22.6	60	16580	51412	35619	37792	171403
23.6	61	17625	52097	36762	38851	175335
24.6	62	17625	52763	38254	41076	179718
25.6	63	18690	53901	39754	42187	184532
26.6-4.7	72	18690	53901	39754	42187	204532
5.7	73	18690	53901	40859	42187	205637
6.7	74	18690	53901	44429	42187	209207
7.7	75	18690	53901	45329	42187	210107
9.7	77	18690	53901	46939	42187	211717
10.7	78	18690	53901	48129	42187	212907
TOTAL		18690	53901	48129	42187	212907

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GRAPH 1 MELONS - TOTAL DAILY PICKINGS
 (3.5 - 25.6)

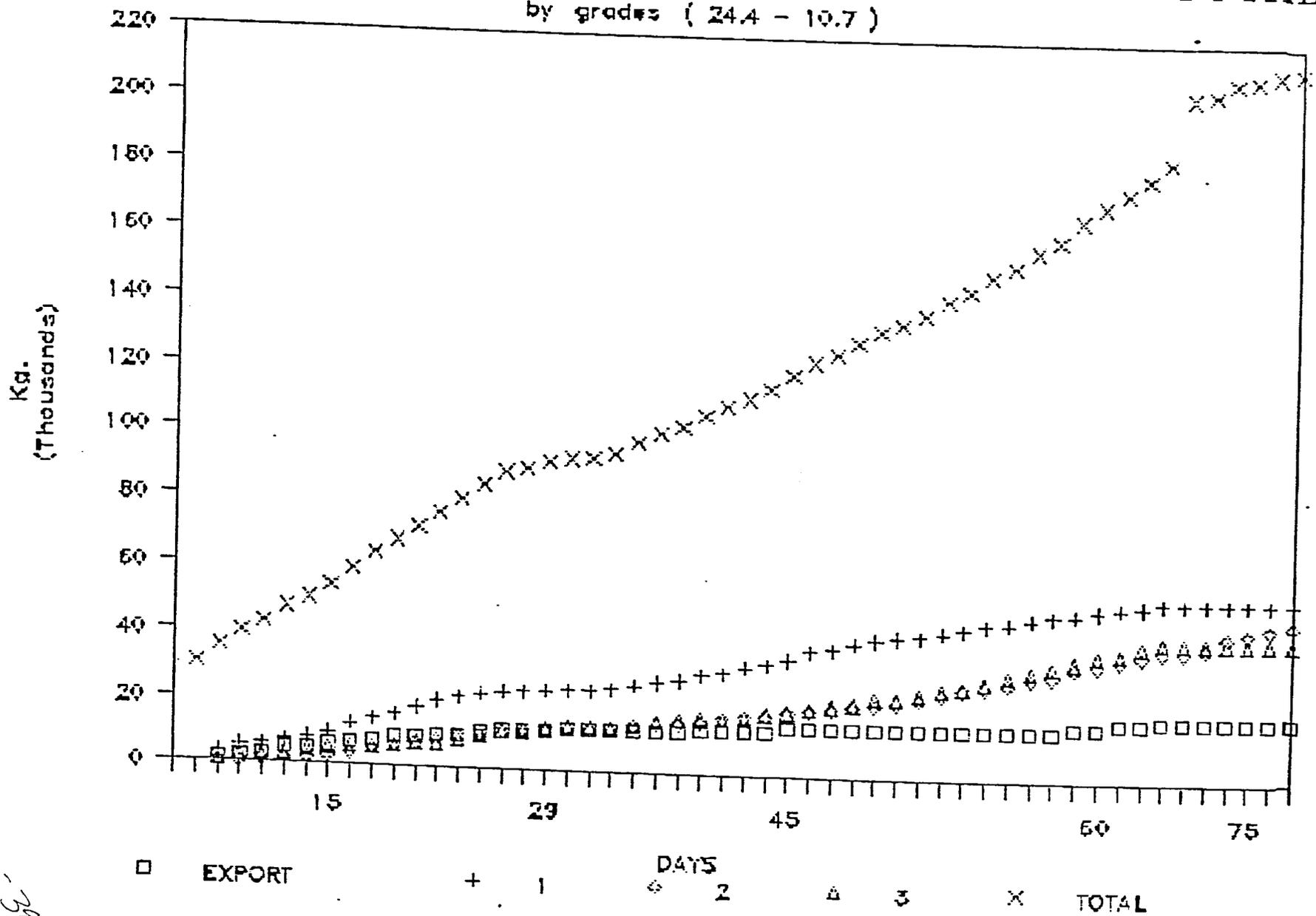


GRAPH 2 :MELONS- TOTAL YIELD IN %
(3.5 - 25.6)



GRAPH 3: MELONS - ACCUMU. DAILY AND TOTAL

by grades (24.4 - 10.7)



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TABLE 3 : TOMATOES DAILY PICKINGS

VARIETIES : 1 - 5083 ; 2 - 5084 ; 3 - 5202 ; 4 - 5449 ; 5 - NAAMA

DATE	WEIGHT (Kg. / 27 m ²) VARIETIES					QUANTITY / 27 m ² VARIETIES				
	1	2 *	3	4	5	1	2 *	3	4	5
19.4	3	4.5	6	3.5	0	46	54	78	43	0
24.4	6	5	9	6	0	67	53	100	62	0
29.4	15	14	17	18	0	130	131	180	162	0
2.5	18.3	12.2	15	15.5	0	233	163	214	174	0
5.5	11	5.3	9.5	12.3	0	142	91	142	145	0
7.5	13	11	8	12	0	130	138	108	130	0
9.5	15.5	7	15.5	13	0	198	153	257	150	0
12.5	20	12	20	22	0	230	160	284	220	0
14.5	13	8	10	10	0	156	97	120	90	0
16.5	12	13	12	14	0	129	140	148	136	0
20.5	14	9	13.5	10	0	170	112	154	108	0
22.5	10.5	8	10.5	8		146	90	130	96	
26.5	15	10	11	11		194	115	170	115	
28.5	19	10	7	16		205	124	73	184	
TOTAL	185.3	129	164	171.3	0	2176	1621	2158	1815	0
1 m ²	6.9	4.8	6.1	6.3	0.0 *	80.6	60.0	79.9	67.2	0.0

TABLE 4 : TOMATOES FRUITE WEIGHT (gr.)

DATE	VARIETIES				
	1	2 *	3	4	5
19.4	65	83	77	81	0
24.4	90	94	90	97	0
29.4	115	107	94	111	0
2.5	79	75	70	89	0
5.5	77	58	67	85	0
7.5	100	80	74	92	0
9.5	78	46	60	87	0
12.5	87	75	70	100	0
14.5	83	82	83	111	0
16.5	93	93	81	103	0
20.5	82	80	88	93	
22.5	72	89	81	83	
26.5	77	87	65	96	
28.5	93	81	96	87	
AVER.	85	81	78	94	0

* VARIETY 2 GROWING AREA - 18 m²

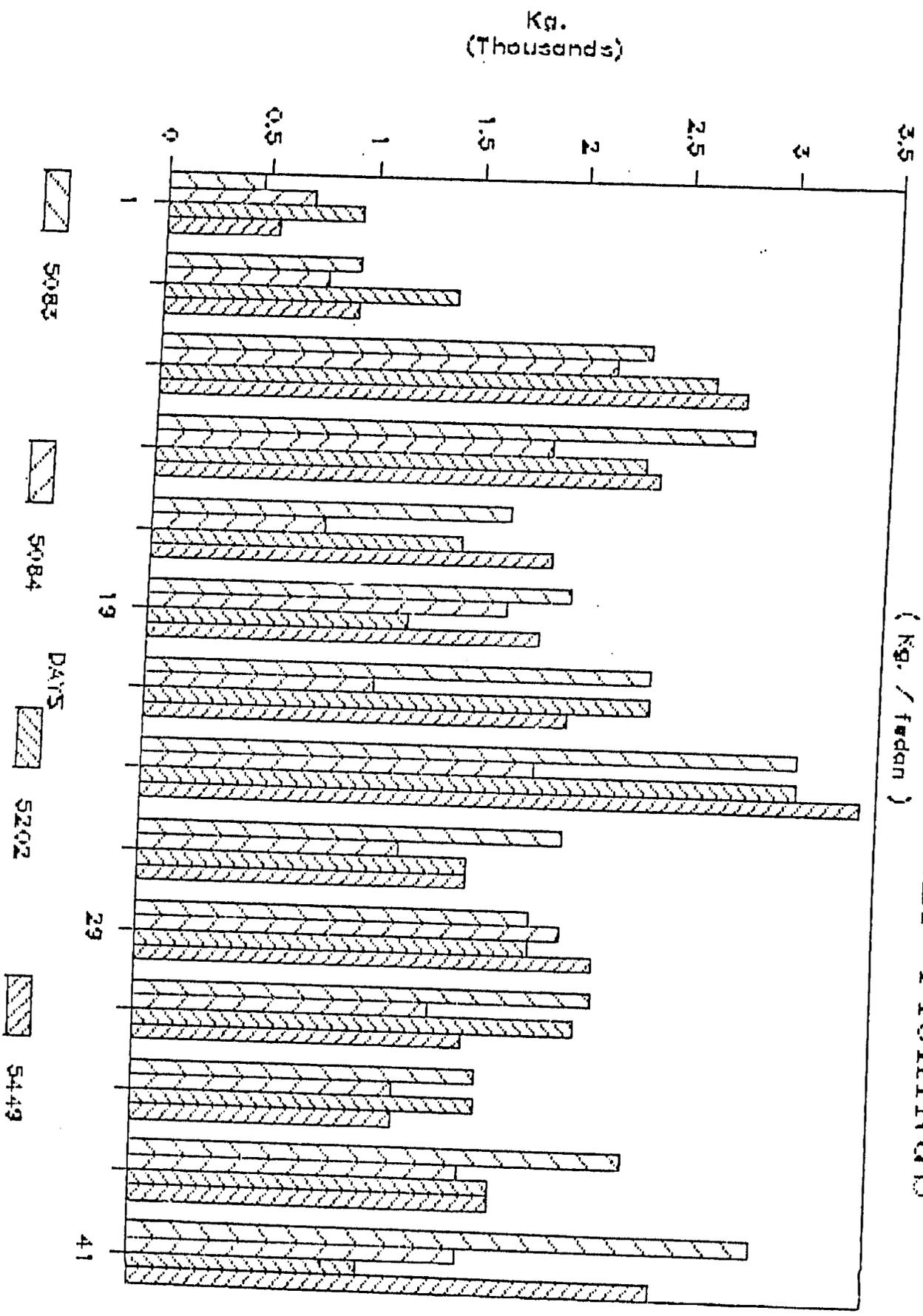
TABLE 5 : TOMATOES YIELD FOR 1 FEDAN

DATE	DAILY (Kg.) VARIETIES					ACCUMULATING (Kg.) VARIETIES				
	1	2 *	3	4	5	1	2 *	3	4	5
19.4	467	700	934	545	0	467	700	934	545	0
24.4	934	778	1400	934	0	1400	1478	2334	1478	0
29.4	2334	2178	2645	2801	0	3734	3657	4979	4279	0
2.5	2847	1898	2334	2412	0	6582	5555	7313	6691	0
5.5	1712	825	1478	1914	0	8293	6380	8791	8605	0
7.5	2023	1712	1245	1867	0	10316	8091	10036	10472	0
9.5	2412	1089	2412	2023	0	12728	9180	12448	12495	0
12.5	3112	1867	3112	3423	0	15840	11048	15560	15918	0
14.5	2023	1245	1556	1556	0	17863	12292	17116	17474	0
16.5	1867	2023	1867	2178	0	19730	14315	18983	19652	0
20.5	2178	1400	2101	1556	0	21908	15716	21084	21208	0
22.5	1634	1245	1634	1245	0	23542	16960	22718	22453	0
26.5	2334	1556	1712	1712	0	25876	18516	24429	24165	0
28.5	2956	1556	1089	2490	0	28833	20072	25518	26654	0
TOTAL	28833	20072	25518	26654	0	28833	20072	25518	26654	0

* VARIETY 2 GROWING AREA - 18 m²

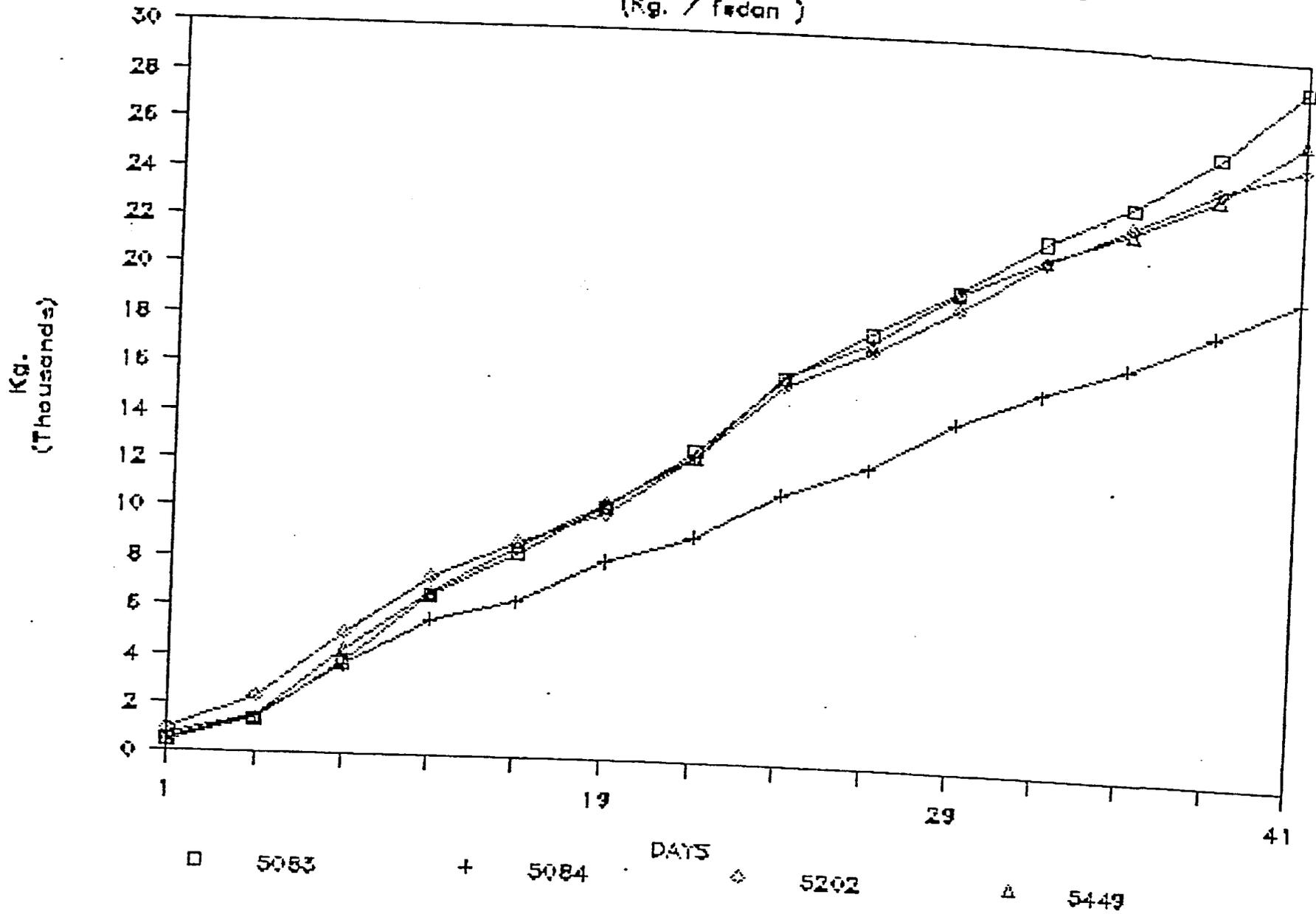
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GRAPH 4: TOMATOES DAILY PICKINGS
(Kg. / Fedan)



GRAPH 5: TOMATOES ACUMU. PICKINGS

(Kg. / fedan)



**STEERING COMMITTEE MEETING
REPORT**



United States
Department of
Agriculture

Office of
International
Cooperation
and Development

Washington, D.C.
20250-4300

June 27, 1990

page 1 of 3

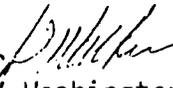
TO: Mr. M. M. Dessouki, Ministry of Agriculture / Dokki -- via fax --
Mr. Fouad Abu Hadb, Nubaseed Company (c/o Mr. Dessouki) --ditto--
Dr. Adel El-Beltagy, Ministry of Agriculture / Dokki -- via fax --
Mrs. Atiat El-Menshawy, Ministry of Agriculture

Prof. Samuel Pohoryles, Ministry of Agriculture / Tel Aviv (fax)

Mr. Yitzhak Abt, CINADCO / Tel Aviv (c/o Prof. Pohoryles)

Mr. Zeev Bogger, AGRIDEV / Rehovot -- via fax --

Dr. Arthur Wallace, UCLA / Los Angeles -- via fax --

FROM: Jerry S. Walker 
USDA OICD IRD // Washington (tel. 202-653-7520; fax 202-653-2974)

SUBJECT: Transmittal of Record of Decisions/Agreements made at
Nubaseed Steering Committee Meeting -- FOR YOUR REVIEW

Please review the following two pages for accuracy and completeness. If you have any additions or changes to suggest, please FAX them to me no later than Friday, July 6th, 1990.

If I do not hear from you by that date, I will assume that you concur entirely with the document.

Many thanks to you all for making the meeting very successful and fruitful!



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MEETING OF STEERING COMMITTEE,
Trinational (Egypt-Israel-U.S.) Nubaseed Development Project
(June 21-22, 1990)

Subjects: 1) Current Project's Operations & Progress to Date
2) Plans for a Follow-on Project

Place: Copenhagen, Denmark

Present: U.S.A. - Jerry S. Walker
- Arthur Wallace
- Mark C. Abbott (6/22/90 only)

Egypt - Mohamed M. Dessouki
- Adel El-Beltagy
- Fouad Abu Hadb
- Atiat El-Menshawy

Israel - Samuel Pohoryles
- Yitzhak Abt
- Zeev Bogger

1. Current Project's Operations & Progress.

It was agreed that:

- Project progress is satisfactory, with good possibilities of completing the physical development by March 1991.
- The report by Drs. Peter Andersen and Claude Phene recommends a number of professional options that may require specific decision-making regarding optimum utilization of the fertigation system.
- American experts need to visit the project site in Autumn 1990 (e.g. October), to advise on horticultural activity, monitoring / evaluation, reporting, and developing the performance-by-variety table. USDA needs a written request (with suggested names, dates, duration of visit) very soon, in order to program this travel.
- Several Egyptians and Israelis plan to visit U.S.A. (Florida, California, and possibly other sites) in Spring 1991 (e.g. March). This visit need not be tied to the time/site of the next Steering Committee meeting. USDA needs a written request with the names and C.V.'s, interests, and proposed sites to be visited, within the next two to three months, to begin scheduling this visit.
- A professional expert panel will be set up in both Egypt and Israel, to monitor project activities and contribute to planning a follow-on project. It is desirable to have this panel in place by the time of the Autumn 1990 visit of U.S. experts.

2. Plans for a Follow-on Project.

It was agreed that:

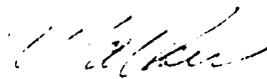
- The second phase of this project (i.e. a follow-on project) envisages expansion of the project to 500 feddan, via developing 300 additional feddan of diversified fruit production for both fresh consumption and processing.
- The title of the second phase/follow-on project will be Agro-Management of Agricultural Produce. It will include:
 - all aspects of post-harvest handling, from the field to the packing-house and/or processing plant. The latter aspects of grading and packing will be linked to the Maryut Trinational activity.
 - irrigation R & D, to be coordinated with the proposed "On-Farm Irrigation and Water Agro-Management Systems" component of the Intensive Agriculture for Arid Lands project discussed June 21.
- The proposal for the Agro-Management of Agr. Produce project needs to be fully elaborated by February 1991, for presentation to the Steering Committee at its next meeting.

3. Other Business.

It was agreed that:

- The next Steering Committee meeting will be held in Tallahassee, Florida on March 4, 5, and 6, 1991.

This record was drafted in Washington, D.C., June 25, 1990, from notes taken at the meeting. All present have reviewed this record and have authorized me to sign it, attesting to its accuracy.



(signed) Jerry S. Walker

(date)