CHAPTER 6

PROGRESS OF THE THIRD FIVE-YEAR DEVELOPMENT PLAN

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The long-term development strategies in Oman which were established in February, 1975 were reflected in the First Five-year Development Plan (1976-1980), carried over to the Second Five-year Development Plan (1981-1985), and then to the Third Five-year Development Plan (1986-1990). The main contents of the strategies are as follows:

- (1) To diversify the resources of national income by developing new resources to augment and to eventually replace oil resources;
- (2) To increase the ratio of investment directed to income-generating projects particularly in activities of manufacturing, mining, agriculture and fisheries; and
- (3) Fair distribution of national investment among geographic regions with a view to spreading progress and prosperity to all districts of the Sultanate. Special priority is assigned to the less-developed areas in order to reduce differences in the standard of living among regions.

In addition to the above, the strategies include commitments to the support of regions in order to slow urbanization and to conserve the environment, the development of water resources, the development of human resources by enhancing education programs, the improvement of infrastructures, the promotion of commercial activities and private enterprises, raising the efficiency of the government's administration system, intensifying regional economic cooperation among GCC countries, etc.

In order to accomplish these long-term strategies, short-term targets and policies were sanctioned for the Third Five-year Development Plan in December 1985 in accordance with Royal Decree No. 103/85. The short-term targets concerning agriculture are set out below:

- (1) To achieve an average growth rate of 4% in national income, estimated in current prices;
- (2) To give priority to the development of natural resources and to income-generating projects in such sectors as agriculture, fisheries,

manufacturing, mining, and natural gas;

- (3) To expand regional development in the field of social services such as education, health, vocational training and subsidized housing; and
- (4) To give due attention to the completion of public infrastructure, as permitted by the available resources, and to attach high priority to sanitary drainage projects, drinking water services, electricity, means of communication and establishment of local markets.

Soon after the sanction of the Royal Decree for the Third Five-year Development Plan, oil prices started to decline. They reached US\$ 8 per barrel in July 1986, the lowest level since 1983. Although the price recovered somewhat, the revenues of the Sultanate were reduced by almost half. The Sultanate tried to minimize the effects of reduced national income and decided to reduce government spending in the Third Five-year Development Plan by 10%, as well as to devalue the Omani Rial against the US\$ by 10.2%. As a result, the targets of the short-term policies of the Third Five-year Development Plan have been reformulated. The main factors to be considered are:

- (1) To stabilize the economy and assist private and governmental sectors to cope with the new environment;
- (2) To tackle the deficit in the national budget;
- (3) To concentrate on increasing the value of products in non-oil producing sectors so as to compensate for the reduction in revenues; and
- (4) To maintain the development of the social and health services, vocational training and subsidized housing.

In accordance with these policies, the total amount of R.O. 1,483 million which was originally allocated for development expenditures was finally reduced by 8.7% to R.O. 1,354 million. The plan was then amended by the Council of Financial Affairs in its session held on October 19th, 1986.

Examining the trend of actual government revenues and expenditures for three years (1986-88) of the Third Five-year Development Plan, shows the deficit has reached over R.O. 1.0 billion, despite cutbacks in expenditures. Most of this deficit was financed by the country's reserves, which were built up by the government in previous years, withdrawals from SGRF (State General Reserve Fund) and external borrowing.

In contrast to the original Third Five-year Development Plan, the amended plan was almost completely accomplished due to the relatively stabilized oil prices after the fall in 1986; the actual achievements during those three years are illustrated in Table 6.1 and Figure 6.1. The 3-year total achievement rate shows revenue of 78.1% and expenditure of 91.8%. If the contents of expenditures are examined, the achievement of development expenditure and support for the private sector is obviously hindered, as indicated by the 3-year achievement rates of 78.3% and 53.0%, respectively, because of the budget reductions made in the amended Third Five-year development Plan.

With respect to the development budget for MAF, the detailed amount is shown in Table 6.2. From the table, the total development budget allocated in the Third Five-year Development Plan is R.O. 132 million and the difference between planned and actual budget, R.O.119 million, is R.O. 13 million. If the indicated budget for 1990 is halved because of the amount requested by the Development Council, the total actual development budget for MAF will be approximately R.O. 107 million. The sector-wise distribution of MAF's development budget is shown in Table 6.3. The largest share (43%) of the budget is distributed to the irrigation and dam sectors, followed by the agriculture and livestock sectors (29%) and the fisheries sector (19%).

MAF's share in national civil development expenditure is 3.7% on average, in spite of fluctuations ranging from 2.5-4.8% as shown in Table 6.4. From the viewpoint of its importance in both the workforce and the rural economy, the share should be raised to an appropriate level.

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Actual and Planned Public Finance Table 6.1

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Actual and Planned Public Finance (Million R.O., 2)

tomu	đ.	Actual				Planned (3rd	5 Year	Development	Plan)	Achievement	Rate (Rotus	(Rotus I/P) anned)	_
		1986	1987	1988 Total	[ots]	1986	1987	19891	Total	1986	1987	1989 3Y. Total	1
Revenues	•						-						
	Oil Revenue	928.9	1.194.9	853. 6	3.117.4	1.489.8	1,398.8	1.466.9	4,273.8	65.3	85.5	67.8	
	Ges Revenue	37.9	39.6	44.2	121.1	.15	34.8	39.8	194.9	122.3	114.7	113.3	
	Custom Duties	37.8	26, 9	29.6	93.5								
	Corporate Income Tax	25.6	21.2	23.4	78.2								
	interest from investments	25.1	30.5	8.5	64.1				<u></u>				
	Other Revenue	133.5	166.8	141.5	441.8	213.0	222.8	235.8		62.7	75.1	68.2	
	Repayment of Loans	32.8	32.7	6.8	72.3		19.8	19.8	53.8	252.3	181.7	35.8	
	to the Government												
	Total Revenue	1.228.8	1,512,8	1.247.6	3,988.4	1.668.8	1.872.8	1,759.8	5.897.8	13.3	98.4	78.3	
Expenditures	tures				. -								1
	Defence & Security	665.4	583.6	589.2	1.838.2	691.8	684.8	669 B	1.814.8	1:8.7	38.6	96.7	
	Civil Recurrent	648.2	648.5	681.9	1.978.6	658.8		756.8	2,115.0	88.7	91 S	38.2	
	All Ministries	599.8	509.1	535.2	1.544.3	512.8	547.8	585.0	1.844.8	97.7	83.1	91.5	
	Interest on Government Loan	75.9	72.9	84.8	232.8	65.8	82.8	85,8	232.8	116.8	88.9	98.8	
	Gov. Share in Operating	72.3	66.5	52.7	281.5	13.8	88.8	86.8	238.0	83.8	83.1	72.8	
	expenditure of PDO				•.	•				:			
•	Development Expenditure	532.4	328.8	298.2	1.141.4	547.8	498.8	421.8	1.458.8	87.3	87.1	56.6	
	Bli Hinistries	363.1	238.8	203,8	796.9	488.8	358.8	278.8	1,028.8		65.7.	73.3	
	Gov. Share in Operating	163.3	90.5	69.6	323.4	141.8	134.8	136.8	411.8	115.8	87.5	51.2	
	expenditure of PDO			-									
	Exploration for Gas	6.9	8.3	e 9	21:1	6.8	6.8	7.8	18.8	188.0	138.3	97.1	
	Support to Private Sector	10.7	11.0	15.9	37.6	23.8	24.8	24.8	8.17	46.5	45.8	66.3	
	Industrial Sector	8.9		0'2 0	8.5	19.0	18.8	18.8	38.8	8.8	8.8	5.8	
	Internations! Regional &	1.3	8.7	12.1	14.1								
-	Local Organization											х.	
	Oman Housing Bank	7.1	7.8	2.8	16.1	7.8	7.8	. 7.8	21.8	161.4	188,8	28.8	
•	Oman Development Bank	2.8	2.1	1.3	5.4	5.9	3.8	3.8	8.8	163.6	78.8	43.3	
	Omen Sank for A.F. in	6.9	1.2	8.8	1.5	4.8	4.0	4.8	12.8	7.5	38.8	88	
	Gov. Loans & Participation in	38.1	37.2		67.3	28.8	28.8	29.8	68.8	158.5	185.8	8.8	
	tocal & Foreign Enterprises				. '						•		
	Total Expenditures	1.886.8	1.609.1	1,567.2	5,863.1	1.841.8	1,847.8	1,830.8	5.518.0	182.5	87.1	85 . 6	
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The Third Five-Year Development Pign

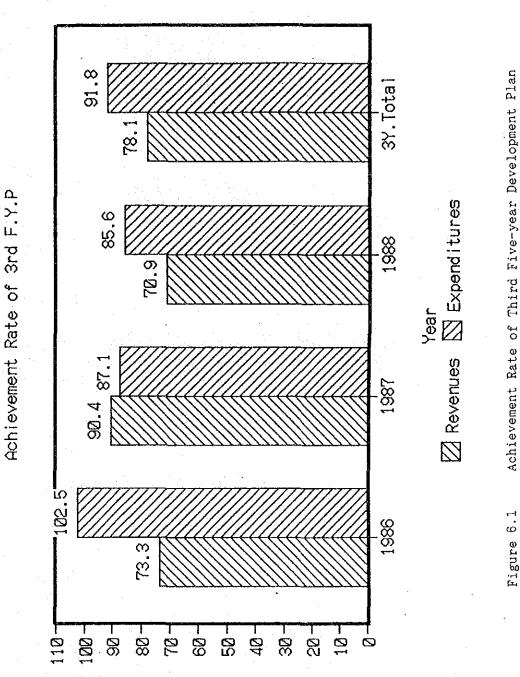


Figure 6.1 Achievement Rate of Third Five-year Development Plan from 1986-1988

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Development Expenditure of MAF Table 6.2

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22040517 Falaj & velta       (1957)         22040517 Falaj & velta       (1967)         22040517 Falaj & velta       (1957)         22040501       (1975)         22040517 E Importation of zgraultural stations (1968)       (1968)         22040519 Fanctoriation of zgraultural stations (1968)       (1968)         22040501 Development of anial       (1968)       (1968)         22040503 Parformant of attic       (1968)       (1968)         22040505 Falto       (1968)       (1968)       (1968)         22040505 Falto       (1968)       (1968)       (1968)       (1968)         22040505 Falto       (1968)       (1968)       (1968)       (1968)       (1968)         22040505 Falto       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)         22040505 Falto       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (1968)       (	46 2.		158.896	1				464	464	8	[ I U S
22048719       Khackultural & Vateriary materials in Buraiai (1967)       13,084       0       122       122       122       1292       12,982       16,000       0         22048719       Khash colu store       236,000       192,000       126,579       0       10,000       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td< td=""><td>47 2</td><td></td><td>105,429</td><td>105</td><td></td><td></td><td></td><td>83, 684</td><td>63, 684</td><td>G</td><td>finist</td></td<>	47 2		105,429	105				83, 684	63, 684	G	finist
2204813       Diveripsment, of Antroultural FastArch Stalions (1988)       10,000       10,000       10,000       10,000       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       10,000       0       0	48	(1987)	13,084	13	•			12,962	12,962	<b>0</b>	finist
220488081       Development. Or Afticultural extension (1988)       175,000       125,000       126,05       126,742       115,722       115,72       115,72       0         220488081       Development. Or Antall restations (1983)       175,000       125,000       53,196       135,72       135,72       0         220488081       Development. of Antall restations (1983)       175,000       2.950       000       2.956       000       2.956       0       3,793       143,752       123,524       0       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       2.643       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0<	49		10,000	2				10,000	10,036	8	finish
2244883       Texture Low and the restrict of the reservice of the restres the restrict of the reservice of the restri	9 DC		808 662	667	1.59.			15, 7, 2	13, 972	s	11115
22048834       Development & Construction of artiultural extension & service centers       2.950,000       2.950,000       19,50       3,938       14,438       265,52       199,606       6,562         220488365       Finitual Venith Incrovement & Construction of artiultural extension & service centers       2.950,000       190,000       123,578       264,308       96,400       256,408       123,578       264,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,408       96,808       96,808       96,808       96,808       96,808       96,808 <td></td> <td>88)</td> <td>175 000</td> <td>1 7 6</td> <td>, 52 7 2 4</td> <td></td> <td></td> <td>41.964</td> <td>107 CC</td> <td></td> <td></td>		88)	175 000	1 7 6	, 52 7 2 4			41.964	107 CC		
22848883 Animal wealth marcovement       2,956,088       2,956,088       1,249,752       1,768,248       1,233,578       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       2,448       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td>•</td> <td>rvice centers</td> <td>220.000</td> <td>220</td> <td></td> <td></td> <td></td> <td>285.562</td> <td>199.668</td> <td>6.562</td> <td></td>	•	rvice centers	220.000	220				285.562	199.668	6.562	
22043806 Al Khabura Improvement. and development. project (1988)       156,000       166,000       156,000       166,000       26,430         22043806 Al Khabura Improvement. and development. project (1988)       40,000       40,000       6       20,430       6       20,430         22043806 Fitzment of development. project (1988)       11,100,000       190,000       100,000       8       20,555       77,966       77,966       77,966       77,966       77,966       77,966       72,949       77,966       72,949       72,949       72,949       72,949       72,949       72,949       72,949       72,949       72,949       72,949       75,946       75,946       75,946       75,946       75,946       75,945       7,56       26       26,03,900       8       26,04,109       72,949       75,945       7,56       26       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04       26,04 <t< td=""><td>e,</td><td></td><td>2.958.680</td><td>2.950</td><td>693.</td><td></td><td></td><td>1:708.248</td><td>1.236.248</td><td>464,900</td><td>•</td></t<>	e,		2.958.680	2.950	693.			1:708.248	1.236.248	464,900	•
22043807 Citizens componisation against natural crisis (1989)       40,000       100,000       109,000       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	;		160.000	168	130.			26.430	0	26 430	
2204808 Matter plan for development of date saim cultivation (1988) 1.100,000 1.00,000 189,239 202,855 392,894 797,906 0 707,906 2048808 Matter plan for development of date saim cultivation (1988) 1.00,000 1.00,000 3,669 1.00,000 3,669 1.00,000 2.2048809 forestrip development portam (1988) 72,949 72,949 72,949 2.2048810 Bevelopment of veterinary quarantines services 1.00,000 1.00,000 5,662 1.00,000 5,522 1.01,478 1.34,778 1.34,978 3.548 2.2048810 1.00,000 5,522 1.01,478 1.34,778 1.34,978 2.548 2.548 2.2048811 Falal & wells matthemone. (1988) 1.00,000 1.00,000 5,600 1.50,000 1.50,000 5,600 1.50,000 5,522 1.01,478 1.34,378 1.01,988 2.2048811 Falal & wells matthemone. (1988) 1.00,000 2.120,000 2.103,500 1.002,159 0.00 2.2048810 1.01,922,012 4.9490 988 900,000 4.34,749 1.94,988 2.2048810 1.010478 1.0144 1.014,988 2.120,000 2.100,000 2.103,500 1.002,159 0.00 2.2048810 1.0122,000 2.000,000 2.103,500 1.002,159 0.000 2.000 2.000,000 2.2048810 1.0122,000 2.000,000 2.103,500 1.000,000 2.2048810 1.0122,000 2.000,000 2.000,000 2.000,000 2.2048810 1.0122,000 2.000,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.000,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200 2.200,000 2.200,000 2.200,000 2.200 2.200 2.200 2.200 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200,000 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200 2.200			40.000	46				40,698	6	40, 600	
220438895       Forestry develoament program (1988)       72,949       7         220438895       Forestry develoament program (1988)       159,000       159,000       159,000       159,000       5,522       139,745       2,56         22043815       Develoament of vertinery quarantines services       159,000       159,000       1,522,119       131,455       131,485       2,56         22043815       Develoament of vertinery quarantines services       5,103,500       1,322,119       6,522       131,485       131,485       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,60       2,90       2,60       2,90       2,60       2,90       2,60       2,90 <td></td> <td>8)</td> <td>1.100,000</td> <td>1,100</td> <td>189,</td> <td>202,8</td> <td></td> <td>787,986</td> <td>0</td> <td>707,906</td> <td></td>		8)	1.100,000	1,100	189,	202,8		787,986	0	707,906	
9         22848818         Development of veterinary quarantines services         156,000         156,000         6.522         143,478         139,978         3,560           0         22848818         Fally, & Hellis, mainthennier         103,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         101,485         590,500         4,141,49         902         900         200         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,600         29,6	1	048809 Forestry development program (1988)	0	190.000	с <b>о</b>	18.9		12,949	72,949	е <b>э</b>	f1015
0 22040891. Falal 6. Mells. main. Monarge. (1988) 181. 485 1146 000 5. 103.500 1. 202.157 519. 455 191.455 191.485 4146.988 1. 462 5145 191.485 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 455 1. 45	59 2	048810 Development of veterinary quarantines services	158.6	so a	, ç		6 523	143,478	139,978		,
1 22040815.0101 more ground watch recharge Schwaes (1700) 1900 000 5,000 356,110 002,978 959,121 4,942 880,900 4,149,928 959,020 39,020 39,020 39,020 39,020 39,020 39,020 39,020 39,020 39,020 39,020 38,025 40,021 425 59,023 59,020 38,025 40,021 400,000 100,000 2,441,746 541,745 541,725 555 39,020 38,025 555 39,020 38,025 555 39,020 38,025 555 39,020 38,025 555 39,020 38,025 555 39,020 38,025 555 39,020 38,025 555 39,020 38,025 555 39,025 555 39,020 38,055 555 39,025 555 39,020 38,055 555 39,025 555 39,025 555 39,020 38,055 541,025 555 39,020 38,055 555 39,020 38,055 555 39,020 38,055 555 39,020 38,055 555 39,020 38,055 555 39,020 38,055 555 39,020 38,055 555 39,020 35,050 38,055 555 39,020 35,050 38,055 555 39,020 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050 35,050	60 2	l Falaj 6 wells maintenance (1988) 2 Postereto 6 Studioscova (1985)	120 0	ro. c	1, 302,		6 1,922,015	131,445	181,485	9000 07.7	121013
z zewisti zu meri zirzi vorzusi meriovemi i zirzi vorzu za		2 CONSULUCTION Of UNDERSTOURD MATER FECTATES SCHOMES 3 Diffimating workshoos improvement	9 89 . 199 9				2 757, 914, 8 R 7 2 4 2 5	4,740,750	800,000	4,149,760	
5. Animal weith development (1988) 5. Animal weith development (1988) 5. Fitaman annutssedart find (1988) 5. Fitaman annutssedart find (1988)	100	24				1.135.25	4 1 782 035	124 614	122.023		f1015h
K Fistarman antwirstamati find (1928)	6.4	er,			2	•	7 798.713	429.287	429.287		1. i n i s h
	65 2.	6	500, 000		8		6 391,538	128,462	108,462	69	finish

Table 6.2 (Continued)

Va Destock [111]a	Total	Adjusted	Total	Total	r ce: 1	Balance Depar Balance	Finance Department in MAP Balance Estimated	Balance	Remarks
	(4)	Total Cost (5)	till 198\$ (6)	1989 (7)	till 1989 (8)	(6)	1998 (10)	(11)	(12)
Falaj & wells maintenance in Buraimi (1988)	120,060	123,806	9	20,000	20,000	129, 509	186,886	0	finish 90'
67 22048818 Importation of agricultural & vetorinary materials to Buraimi (1988)	30,096	30, 699	69 I	\$	6	30,000	20, 020	18, 860	
22048819	120,000	120,900	<b>6</b> 9 (	689	999	119,480	116,488	3,989	
	35, 898	35, 696	90	56	26	20,000	20,000	15,000	
19	000 01	000000		19 999	999	1	000		Finish Dar
72 22048823 Planting Frees around Salah arrort	150.000	150.000		103.966		.46.	46, 034		finish 90'
22048824 Construction of	2, 280, 999	2.000.000	7.631	0	7.631	1 992.369	250,099	1.742.369	
	2,000,000	2,000,000	7,631	8	7,631	1, 992; 369	258,008		
22048826 Drganization of	250,000	250,000	105,027	110,294	215,321	34,679	34,679		finish 90'
22048901 Development of agricultural research stations (1939)	416,000	416,000.	0	252, 621	253,621	162,379	162,379	8	finish
22048902 Development of animal research stations (1989)	179,000	170,000	<b>9</b>	14,722	14,722	155,278	155,278		finish
	175,000	175,800	<b>B</b>	28,580	20,580	154,420	154,428		finish 98
	160,900	168,000	69 1	66,292	66,292	93,708	39,788		
22048386 Citizens compensation againet netwich crizie. (1282)	40,000	40,000	8	9	9	48, 868	8	43, 808	
	1, 000,000	1,009,098	0	0	59	1,600,000.	588,888		
22848968	1, 666, 696	1,069,098	<b>.</b>	393,967	393,967	696,033	686, 833	•	finish 90'
	5,460,688	5,468,008	© 1	136, 871	136,871	5, 323, 929	5,123,929		
22048910 SMALL UNDERSOUND FECHARGE SCHOMES IN SOUTHER FESTOR	1, 550, 888	1,658,000		6 U	8.0	1,650,000	8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1,6	
	999,90	AAA AC				AAA 7 6 6	900/07	aaa'ez	
85 2.26448417 Parmer's Supsidy (1.484) 55 5.54448417 Parmer's Supsidy (1.484)	1,000,000	1,608,099	50 0	274, 613	274,613	1,325,387	1,320,357		
47404077	338,131	038,101	96	20	90	101,336,101	101,000	9 9 9 7	A6 USIULI
	35 000	126, 888	9 G	\$ 6	50	999,921 25,699,921	25.000		finich ogs
	380,000	250 000		00	• e	250 000	350,000		
	170,000	000 001	8 <b>6</b>	š	8	170 000	170.099		e finish car
	175,000	175,020	• es		. 62	175.008	175.980		inish
22049005 Al Khabura improvement and development project (1990)	160,000	160.000	- 63	. 63	.0	169,099	158.998		finish
	30.000	30, 828	0	63	0	30,096	63	30.999	
	200,000	288, 608		. 69	0	200,000	200,898		
22849008 Falaj & wells maintenance (1998)	1,660,666	1,666,969	9	6	6	1, 230, 090	1,000,000	e	finish
97 22049010 Fåraer's subsidy (1990)	1,558,888	1,550,000	8	6	6	1,550,000	1,550,000	0	finish 96'
98 22044012 Fishermen encouragement fund (1990)	675,000	675,000	8	• •	0	675,000	5	675,009	
99 22049181 Master plan for development of date palm cultivation (1991)	680, 868	666,868	8	8	8	690,063	0	689, 666	
«"htstal 22048101 - 22048167.	75.856.745	75 856 745	70 189 068	1.984.182	71.273.258	4 583 495	4.116.284	112 266 211	
22048203 -	16, 292, 447	16.292.447		2,800,053	13,839,784	2.452.663	2,361,753	96,918	
22048601 -	36,963,151	36,878,417	4,199,815	5,529,072	9.728,887	27,149,530	15,691;386	Ξ	
subtotal 22049010 - 22049181	2,625,990	2,825,000		0	0	2,825,000	1,558,888		
Tatal	131,937,343	131,852,609	85,423,614	9.413,307	94,841,921	37.010,688	23, 719, 923	13, 298, 765	

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Table	6.3	Sector-wise	Development	Budget	in	MAF

Sector	Adjusted	<b>fotal</b>	1990	Balance
	Fotal	till 1989_		
Agriculture & Livestock	38,620	26,456	9,455	2,709
General	18,285	10,183	5,450	2,652
Support to Farmers	20,335	16,273	4,005	57
Irrigation & Dam	56,282	41,175	9,100	6,007
<i>isheries</i>	25,475	16,695	4,221	4,558
General	20,329	13,141	3,306	3,883
Support to Fishermen	5,145	3,555	916	67
lousing	2,227	2,199	28	
Administration	2,869	2,665	204	
(building, furnitures)				
General Consultancy Studies	6,380	5,652	711	1
<u>Fotal</u>	131,853	94,842	23,720	13,29

Table 6.4 Development Expenditure by Ministries and Government Organizations

			(R.O. Mill	ion)
Ministries	1985	1986	1987	1988
Diwan of Royal Court	94.1	38.9	41.2	63.8
lealth	25.9	31.2	10.6	3.8
Education and Youth	16.2	18.1	16.5	11.9
Communication	68.4	54.4	27.4	18.2
Electricity and Water	41.6	41.4	28.5	24.0
Agriculture and Fisheries	25.4	17.5	8.3	10.9
Petroleum and Minerals	13.8	13.5	3.0	14.9
Social Affairs and Labor	10.1	1.2	1.3	1.5
Sultan Qaboos University	38.7	42.7	29.9	19.5
Others	199.5	273.6	162.1	111.7
lotal	533.7	532.5	328.8	280.2
Share of MAF (%)	4.8	3.3	2.5	3.9

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Source: Statistic Yearbook 1989, Development Council Note: This Table does not include capital expenditures of civil nature carried out by Defence and National Security

ANNEX 1

PROGRESS OF WATER RESOURCES AND IRRIGATION UNDER THE THIRD FIVE-YEAR DEVELOPMENT PLAN

ANNEX 1

### <u>Progress</u> of Water Resources and Irrigation under the Third Five-year Development Plan

During the past four years (1986 - 1989) many projects have been completed by MAF in the areas of irrigation and water resources. This section summarizes the accomplishments of that period .

(1) Repair and Maintenance of Aflaj

(a) Outline of the Project

The purpose of the project is to maintain the functions of existing aflaj. The project is subsidized 100% by MAF. The components of the project are, in principle, rehabilitation of collecting tunnels and transporting channels and sharia.

Falaj owners who are facing problems must make a formal application to H.E. the Wali. The Wali in turn informs MAF that a particular falaj needs repair and the application is then examined by the Department of Maintenance of Aflaj and Wells which sends one of its engineers to the site. Discussions are held with the villagers to determine the extent of the problem and whether the assistance should be purely financial or whether technical advice is also required.

Assistance for the repair and maintenance of aflaj is assessed by the technical staff of the Department of Maintenance of Aflaj and Wells who consider a number of related aspects:

- size of community dependent upon the aflaj

- number of active (flowing) aflaj

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- importance of the area

- size of irrigated area

- type of crops grown

- previous problems

- efforts of local falaj organization to maintain falaj

- previous assistance received

If the application is approved, the Department of Maintenance of Aflaj and Wells will produce designs, specifications and costs for the work required. In a situation where the falaj organization agrees to carry out the work, funds are forwarded directly to them. If outside contractors are required, the designs and specifications are forwarded to the appropriate Wali who selects a suitable contractor from the local market by sealed tender.

For both situations, the engineers from the Department of Maintenance of Aflaj and Wells supervise the repairs and the expenditure. This, however, is time consuming and difficult to execute due to the insufficient number of staff available in the department.

(b) Progress of the Project

Annex Table 5.2.1 represents the number of falaj systems repaired during each of the past five years, as well as the related annual cost.

The total budget between 1986 and 1989 for falaj repairs was approximately R.O. 4.939 million. The average cost of falaj repair per system was R.O. 11,500, including repairs and adjacent wells.

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## Annex Table 5.2.1 Falaj Repairs 1986 - 1989

Year	1986	1987	1988	1989	Total
Number of systems	78	100	100	152	430
Total costs of Maintenance (R.O.)	· .	From 1	986 to 1		39,000

Annex Table 5.2.2 Well Repairs and Construction 1986 - 1989

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Year	1986	1987	1988	1989	Total
Number of well	S				
Repaired	90	170	800	20	1,080
Total Cost(R.O.	) N.A.	N.A.	560,000	14,000	

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#### (2) Repair and Construction of Wells

### (a) Outline of the Project

The objectives of the project are to stabilize the provision of agricultural water by means of repairing private wells and drilling new wells to augment falaj systems. According to estimates by MAF, there are about 30,000 hand-dug wells, of which about 20,000 need repairs. Approximately 6,000 hand-dug wells have been repaired from 1976 to 1989.

The project was subsidized 100% by MAF until 1982, and then only 40% of total repair costs was subsidized from 1983 to 1987. A flat rate of R.O. 700 per well has been allotted since 1988. Under this scheme, the well, the pump and the basin adjacent to the well are repaired under this scheme. Repairs of distribution channels are not included in the project. As for falaj augmentation, that project is also completely subsidized by MAF.

The following claim procedures must be followed in order to get a subsidy from MAF. Well owners who are having problems with their wells submit an application form to H.E. the Wali or MAF. A list of the applications is prepared by MAF. In accordance with the list, an engineer from the Department of Maintenance of Aflaj and Wells visits the site, determines whether repairs are necessary, and fills in an Once necessity is confirmed, he decides the investigation form. nature of the work to be done and produces designs, specifications, Then he reports his findings to the Director of the and costs. Department of Maintenance of Aflaj and Wells. The well owner selects a suitable contractor after he accepts the designs and specifications prepared by the engineer from MAF. When the work is completed, the engineer of MAF again checks whether the work was done according to the specifications of the contract or not. A certificate is issued after approval by the General Director of the Department of Maintenance of Aflaj and Well. And, finally, MAF pays out R.O. 700 to the well owner.

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The procedures for falaj augmentation work are the same as those for well repairs up to the site investigation by an engineer of MAF. When it is necessary to drill a new well or deepen an existing well permission must be sought from MWR.

There are two ways to get this permission. One is for the falaj owners to request it from MWR and the other for MAF to consult with MWR. After MWR approves, MAF produces designs, specifications and cost estimates for the construction work. Then it calls for a tender for drilling a well and selects a suitable contractor from the local market. Other work, such as pump and switching board installation, and the setting of a pipeline from the well to the sharia, and in some cases, work from the well to the transporting section of the falaj, are contracted locally, after confirming the quality and quantity of water from the newly drilled well. First priority for falaj augmentation work is given to dry aflaj.

(b) Progress of the Project

In the Third Five-year Development Plan, funds were available for:

- Provision of repair materials.

- Contract repair by commercial firms.

Annex Table 5.2.2 indicates the number of wells repaired during each of the past five years as well as the related annual cost. The total budget in the years 1986 - 1989 for well repairs has been approximately R.O. 0.57 million.

(3) Recharge Dam

The total budget in the years 1986 - 1989 for recharge dams has been approximately R.O. 4.564 million. Projects undertaken during the Third Five-year Development Plan are listed below and information on the projects is presented in Annex Table 5.2.3. Annex Table 5.2.3 Recharge Scheme Projects Undertaken During the Third Five-year Development Plan

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No.	Stage	Project/Study No. Name	_ Near City	Region	Name of Scheme(Wadi)	Remarks
	1 Complete Implementation	1 Wadi Ghul	Al Hamra	Interior	Wadi Ghul	Construct. Cost Period R.O. 1.25 mil. Aug. 1988 - Jun. 1989
2	ł	2 Wadi Al Jizzi	Sohar	North Batinah	Wadi Al Jizzi	R.O. 2.6 mil. Feb. 1988 - Aug. 1989
°°		3 Wadi Tanuf	Nizwa	Interior	Wadi Tanuf	R.O. 1.25 mil. Nob. 1988 - Oct. 1989
<b>-1</b> 1	4 Under Construction	l Wadi Ma'awil	Barka/Rumais	South Batinah	Wadi Ma'awil	D/D by MacDonald(UK), - Mar. 1989 Construct. Cost Period R.O. 2.88 mil. Oct. 1989-
ഹ	•	2 Ibri/Araqi	Ibri	Dhahira	1 scheme Wadi Al Khabir	S
9		3 Wadi Sahalnawt Salalah	Salalah	Southern	Wadi Sahalnawt	걸고
~		4 Wadi Fulayj	Sur / Al Kamil Sharqiya	Sharqiya	Sur(Wadî Fulayî)	y Weidleplan ruct. Cost mil.
80	8 Detail Design(finished)	1 Barka/Rumais	Barka/Rumais	South Batinah	3 scheme Wadi Bani Kharus Wadi Rubkah Wadi Taww	D/P by MacDonald(UK), - Mar. 1989 R.O. 2.84 mil. R.O. 2.74 mil. Included in above (Wadi Rubkah)
တ		2 Jabal Al Akhdar	4	Interior	64 small water collecting bunds	lecting bunds
<u> </u>	10 Detail Design(on-going)	1 Rustag (Far)	Rustag	South Batinah	Wadi Far	
Π.	<pre>11 Feasibility Study (finished)</pre>	l Sur & Al Kamil	Sur	Sharqiya	Al Kamil(Wadi Bani Khalid) by Weid	Khalid) by Weidleplan & Hydroplan(WGER)
12	•	2 Salalah	Salalah	Southern	2 schemes Wadi Jarsis Wadi Nahiz	by MacDonald(UK) Aug. 1989
13	<b>1</b> 	3 Wadi Semail		South Batinah	3 schemes Wadi Rawaha Rajimi Qera	by Warcos(India) Dec. 1987 -
14	•	4 Nizwa - Bahla Nizwa, Bahla	Nizwa, Bahla	Interior	2 schemes Wadi Al Abyadh Wadi Bahla	by Atkins(UK) Dec. 1987 - Hay 1989

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Stage	Project/Study No. Name	Near City	Region	Name of Scheme(Wadi)	Remarks
15 Feasibility Study (on-going)	1 Saham - Sohar	Saham, Sohar	North Batinah	4 schemes Wadi Ahin Wadi Sakhin Wadi Sarami	by MacDonald(UK) Nov. 1989 -
	2 Shinas	Shinas	North Batinah	2 schemes Wadi Hatta Wadi Favd	by Wapcos(India) May 1989 -
· · · ·	<u>3 Khaburah -</u> Bani Khalid - Al Bu Qrain		North Batinah		by MacDonald(UK) Nov. 1969 -
	4 Jabal Al Akhdar 6 dams	ur 6 dams			
<pre>19 Preliminary Study (finished)</pre>	1 Coastal Area	Salalah & Batinah Coast 	Southern st North Batinah	1 scheme by Mamurah(Razat) Ju 4 schemes Nabr(Fizh) Rustaq(Far) Wadi Bu Baqarah(Qанг) Haiir(Marh)	by Atkins(UK) Jul. 1988 - awr)
	2 Dhahira		Dhahira	8 schemes by Dank(Dank) Ju Dariz(Kabir) Yanqul(Rakah(W.Bank)) Arid(Arid) Arid(Arid) Miskin(Ibat, Qurta) Magabil(Hijir) Sulayf(Salayf)	by MacDonald(UK) Jul. 1988 - Oct. 1989 nk)) a)
	3 Interior		Interior	Leyer (Naru (Halfayn) Jul Imti/(Jarut(Halfayn) Jul Sur qadim(Halfayn) Shafa(Halfayn) Karshah/Manah(Muaydin) Firq(Nizwa) Adam(Lathil?) Jabrin(Bahla) Bisyah(Bahla)	acyca (Action 1988 - Aug. 1989 9 Schemet (Halfayn)Jul. 1988 - Aug. 1989 Sur qadim(Halfayn) Shafa(Halfayn) Karshah/Manah(Muaydin) Karshah/Manah(Muaydin) Adam(Lathil?) Jabrin(Bahla) Bisyah(Bahla)

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Annex Table 5.2.3 Recharge Scheme Projects Undertaken During the Third Five-year Development Plan (continued)

	.) g. 1589			(X)		
Stage Project/Study Near City Region Name of Remarks No. Name	8 schemes by Wakuti(WGER) Rawdah(Samad) Jul. 1988 - Aug. 1989 Lizq(Samad) Sudayrah(Samad) Fath(Fath) Bu Said(Ithil) Ibra(Ibra) Al Ghulaji(Ashda) Az Zahir(Az Zahir)			by HacDonald(UK)		
Near City Region	Sharqiya				· · · ·	di Adunb
Project/Study	4 Sharqiya	1 Buraimi Region	2 Husandam Region	1 Jabal Al Akhdar	l Masirah Island	2 Wadi Dirbat & Wadi Adunb
No. Stage	22 Freliminary Study (finished)	23 Preliminary Study (on-going)	24	25 Reconnaisance Study (finished)	26 Reconnaisance Study (on-roing)	27

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(a) Projects constructed and under construction in the Third Five-year Development Plan:

- Wadi Al Jizzi	(Sohar, North Batinah)
- Wadi Ghul	(Al Hamra, Dakhliya)
- Wadi Tanuf	(Nizwa, Dakhliya)
- Wadi Ma'awil	(Barka-Rumais, South Batinah)
- Wadi Al Khabir	(Ibri/Araqi, Dhahira)
- Wadi Sahalnawt	(Salalah, Southern Region)
- Wadi Fulayj	(Sur, East of Oman)
	,

(b) Projects in the stage of final design and preparation of tender documents:

- Wadi Bani Kharus (Barka-Rumais, South Batinah)
  Wadi Rubkah (Barka-Rumais, South Batinah)
  Wadi Taww (Barka-Rumais, South Batinah)
- Jabal Al Akhdar (64 small water collecting bunds)

(c) Project in the stage of detail design:

Wadi	$\mathbf{Far}$	(Rustaq,	South

(d) Projects with finished feasibility studies:

- Wadi Samail	(South Batinah)
- Sharqiya	(Wadi Bani Khalid/Al Kamil, Sharqiya)
- Nizwa-Bahla	(Nizwa, Bahla, Dakhliya)
– Wadi Jarsis	(Salalah, Southern Region)
- Wadi Nahiz	(Salalah, Southern Region)

Batinah)

(e) Projects in the stage of feasibility studies:

Saham - Sohar	(Saham. Sohar, North Batinah)
Shinas	(Shinas, North Batinah)
Khaburah	(North Batinah)

- Bani Khalid

- Al Bu Qrain

- Jabal Al Akhdar 6 dams

(f) Projects with finished preliminary studies:

- Coastal area	(Salalah and Batinah coast)
- Dhahira	(Dhahira)
- Interior	(Dakhliya)
- Sharqiya	(Sharqiya)
- Jabal Al Akhdar	

(g) Projects under preliminary studies:

- Buraimi region

- Musandam Region

(h) Projects under reconnaissance studies:

- Masirah Island

- Wadi Dirbat & Wadi Adunb

(4) Survey

In the Third Five-year Development Plan, the "Aerial Photography And Orthophoto Mapping Project" is proposed to plan water resources for optimal development via aflaj and wells and the surveying and taking inventory of aflaj, hand-dug wells, and boreholes. Such a survey should establish a knowledge of their geographic distribution, capacity condition, present stage of utilization, and scope for further development. Surveying can be effectively accomplished via aerial photography.

At semi-detailed and detailed stages, aerial photography is a tool for data collection and resource appraisal. Ground controlled coordinated maps provide a basis for compiling collected data. These maps will be used to plan water management schemes and specific irrigation layouts, but the main objective of the project is to assist the process by which water resources for agriculture shall be systematically managed, evaluated, and mapped to provide an informational "Data Base" for water resources and agricultural management.

The main components of the project are:

Provision of standard color photography (scale 1:10,000) for photo interpretation purposes, and for a total area of approximately 4,000 sq. km distributed over 22 willayats(villages and scattered agricultural areas).

Orthophoto maps (scale 1:10,0000 contoured to 5 m intervals).

Pre-assigned ground markers to identify aflaj (10 m diameter) before photography.

Black and white panchromatic photos of smaller scale

From 1985-1987, the first step of the project was implemented in 16 areas as shown in Annex Figure 5.2.1. The total budget for aerial photography and orthophoto mapping of aflaj and related wells during the Third Five-year Development Plan has been R.O. 23 thousand.

(5) Pilot Project

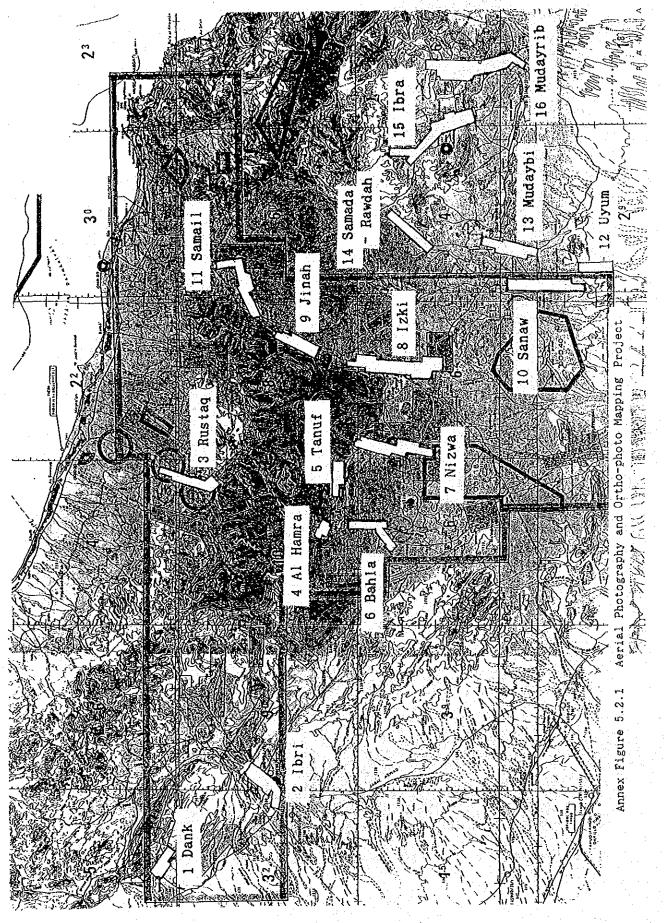
Some of the new components of the pilot project in contrast to traditional falaj systems are as follows:

i) Consolidation of the existing fragmented land holdings

ii) Introduction of new irrigation systems such as bubbler, sprinkler and drip irrigation

iii) Graduate farmers starting new small unit farms, and so on.

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The extension service would advise the farmers on the proper operation and management of their irrigation systems and assist with irrigation scheduling.

(6) Protection Walls

Detailed feasibility studies and tender documents on protection walls were conducted at the four areas listed below in 1987:

i)	Al	Kharma	(	(Izki)			
ii)	A1	Hamitha	(	(Izki)			
iii)	A1	Khadra Bin Da	uffa (	(west	side	Wadi	Andam)
iv)	A1	Hagir	(	(Wadi	Dima	& Ati	ayin)

Gabion wall was planned to protect agricultural land adjacent to wadi. The detailed design documents need to be checked again and updated according to the new available hydrological data, then the construction can begin in the Fourth Five-year Development Plan.

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ANNEX 2

ANNEX TABLES AND FIGURES

Economic farming conditions on a new farm (No 1) in the North Batinah Region, 1988/89 [ Address: Al Wekeba, Sohar, North Batinah. Owner: Saleem Bin Hamdan Ahmed El Esai ]

	Diantad	Product	Production cost	Val	Value of product			
Crop	area ha	Unit cost RO∕ha	Production cost RO	Unit yield ton ha	Unit price RO∕kg	Value of product RO	Balance RO	Note
Date palm	1.00	2,033	2,033.000	4.1	0.150	615.000	-1,418.000	Total acreage : 4.2ha
Orange	0.10	1,610	161.000	11.0	0.175	192.500	31.500	Infrastructure : 0.1ha
Mango	0.05	1,642	82.100	2.0	0.250	25.000	-57.100	Householder : male, 35 years old
Banana	0.05	1,790	89.500	13.6	0.140	95.200	5.700	Wife: 30 years old
Alfalfa	0.42	1,804	757.680	38.4	0.060	967.680	210.000	5 sons, 5 daughters
Wheat	0.21	536	112.560	1.5	0.256	80.640	-31.920	3 expatriate laborers
Barley	0.21	560	117.600	1.9	0.250	99.750	-17.850	I well, 22.7 m deep
Sorghum	0.21	1,250	262.500	53.3 (2.0)	0.050 (0.200)	559.650 (84.000)	297.150	l tractor, 65HP
Watarmelon	0.50	1,583	791.500	19.0	0.125	1,187.500	396.000	l high pressure sprayer
Tomato	0.50	1,537	768.500	22.2	0.146	1,620.600	852.100	l agricultural vehicle
Cabbage	0.43	1,280	550.400	23.2	0.065	648.440	98.040	2 Goats
Onion	0.42	1,404	589.680	13.7	0.090	517.860	-71.820	Concrete canal for irrigation : 150 m
								Storehouse : $28.5 \text{ m}_{1}^{2}$ Pump shed : $11 \text{ m}_{1}^{2}$
								Livestock shed : 4 m ²
								() : seed production
Total	4.10	-	6,316.020			6,609.820	293.800	•

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Economic farming conditions on a new farm (No.2) in the North Batinalı Region, 1988/89 [ Address: Al Agr. Shinas, North Batinah. Owner: Abdalla Khamis Hassan and his brother ]

	Danted	Production	ion cost	Vah	Value of product		-	
Crop	area		Production			Value of	Balance	Note
	ha	Unit cost RO/ha	cost RO	Unit yield ton ha	Unit price RO/kg	product RO	ß	
Date palm	0.22	2,033	447.260	4.1	0.150	135.300	-311.960	Total acreage : 4.2ha
Mango	0.21	1,642	344.820	2.0	0.250	105.000	-239.820	Infrastructure: 0.09ha
Lemon	0.53	1,609	852.770	15.0	0.150	1,192.500	339.730	Householder : male, 32 years old, 35 years old
Tomato	1.05	1,537	1,613.850	22.2	0.146	3,403.260	1,789.410	1,789.410 Wife: 25 years, 30 years old
Onion	0.05	1,404	70.200	13.7	0.090	61.650	-8.550	-8.550 In total: 6 sons, 4 daughters
Watermelon	1.05	1,583	1,662.150	19.0	0.125	2,493.750	831.600	831.600 2 expatriate laborers
Sweet-melon	1.00	1,528	1,528.000	13.1	0.290	3,799.000	2,271.000	I well, 45.5 m deep
		-			-			No tractor
								1 high pressure sprayer
								1 agricultural vehicle
								40 goats and sheep
			-				-	Concrete canal for irrigation: 1080 m
			-			· · ·		Store house: 28.5 m ¹ Pump shed: 15m ¹
								Livestock shed: 32m
Total	4.11		6,519.050			11,190.460	4.671.410	
				-			-	-

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Economic farming conditions on a new farm (No.3) in the North Batinah Region, 1988/89 C Address: Al Had I iwa North Batinah Owner

ned Salah Al Mamri ? T MAP Ć

•			L Ado	Iress: Al Hac	L Address: Al Had, Liwa, North Batinah.	h Batinah.	Owner	Owner: Omar Mohammed Saleh Al Mamri J
		Product	Production cost	Val	Value of product			
Crop	rianteo area ha	Unit cost RO⁄ha	Production cost RO	Unit yield ton/ha	Unit price RO⁄kg	Value of product RO	Balance RO	Note
Date palm	0.53	2,033	1,077.490	4.1	0.150	325.950	-751.540	Total acreage : 4.2ha
Mango	0.02	1,642	32.840	2.0	0.250	10.000	-22.840	Infrastructure: 0.1ha
Cucumber	0.84	1,147	963.480	14.9	0.202	2,528.232	1,564.752	Householder : male, 32 years old
Tomato	0.84	1,537	1,291.080	22.2	0.146	2,722.608	1,431.528	Wife: 30 years old
Chilli pepper	0.42	1,559	654.780	9.0	0.325	1,228.500	573.720	3 sons
Eggplant	0.11	1,600	176.000	19.0	0.061	127.490	-48.510	-48.510 1 expatriate laborer
Cow-pea	0.08	1,305	104.400	15.0	0.150	180.000	75.600	l well, 13.5 m deep
Radish	0.02	1,050	21.000	23.0	0.100	46.000	25.000	No tractor
Onion	0.40	1,404	561.600	13.7	060.0	493.200	-68.400	l high pressure sprayer
Alfalfa	0.84	1,804	1,515.360	38.4	0.060	1,935.360	420.000	l agricultural vehicle
			-					2 Goats
							-	Concrete canal for irrigation: 130m
						-		Pump shed: 8 m
			•					Livestock shed: 12 m
	•							
Total	4.10	-	6,398.030			9,597.340	3,199.310	•

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Economic farming conditions on a traditional farm (Na 1) in the South Batinah Region, 1988/89 ( Address: Al Lagal Village, Wadi Al Mawil (willat). Owner: Khamis Bin Drwich Bin Ahmed Al Bahary and two relatives ]

	-384.960	855.540			1,240.500		0.62	Total
2 diesel engine pumps for irrigation								
Water source: Falaj								
Water tank: Concrete, $64n^2 \times 4m$				••••				
Concrete canal for irrigation: 180m								
4 goats, livestock shed: 6 $m^2$								
No agricultural vehicle								
1 hand sprayer					• .			
from the extension center						-		
No tractor. Plowing by a tractor						· ·		
Falaj: basin irrigation			:				-	· · ·
1 expatriate laborer		- - -						
In total: 4 sons, 4 daughters	15.840	47.500	0.125	19.0	31.660	1,583	0.02	Watermelon
Wife: 35 years, 30 years and 60 years old	136.260	227.940	0.290	13.1	91.680	1,528	0.06	Sweet-melon
42 years and 67 years old	17.050	29.750	0.175	17.0	12.700	1,270	0.01	Leek
Householder : male, 45 years old,	-8.550	61.650	0.090	13.7	70.200	1,404	0.01	Onion
Infrastructure : 0.01ha	50.000	230.400	0.060	38.4	180.400	1,804	0.10	Alfalfa
Total acreage : 0.63ha	-595.560	258.300	0.150	4.1	853.860	2,033	0.42	Date palm
Note	Balance RO	Value of product RO	Unit price RO∕kg	Unit yield ton⁄ha	Production cost RO	Unit cost RO∕ha	area ha	Сгор
			Value of product	Val	ion cost	Production	Planted	· ·

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Economic farming conditions on a traditional farm (Na 2) in the South Batinah Region, 1988/89

Annex Table 5.4.5

**Owner: Suliman Nasser**] from the extension center 5 m to water surface No tractor. Plowing by a tractor Concrete canal for irrigation: 100m Householder : male, 60 years old Householder is a fisher man 10m deep No agricultural vehicle Total acreage : 0.53ha 90.000 Infrastructure : 0.01ha Livestock shed: 5 m Note 8 sons, 3 daughters l expatriate laborer Wife: 50 years old Pump shed: 6 m Livestock: 1 cow I hand sprayer I well, [ Address: Al Marag village, Barka. -241.060 -14.450 -165.510RO Balance 104.550 414.720 80.750 600.020 Value of RO product Value of product 0.060 Unit price RO/kg 0.150 0.25038.4 1.9 4 1 Unit yield ton/ha 324.720 **Production** cost 95.200 345.610 765.530 RO Production cost 2,033 1,804 560 Unit cost RO⁄ha 0.18 0.52 0.17 0.17 ha Planted area Crop Date palm Alfalfa Barley Total

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Economic farming conditions on a traditional farm (No 3) in the South Batinah Region, 1988/89 [ Address: Al Gahila village, Barka. Owner: Mohamed Galel Abdul Rahman Al Blushi ]

-	Planted	Production cost	cost	Value of pro	product		-	
Сгор	area ha	Unit cost RO∕ha	Production cost RO	Unit yield ton⁄ha	Unit price RO⁄kg	Value of product RO	Balance RO	Note
Date paim	2.73	2,033	5,550.090	4.1	0.150	1,678.950	-3,871.140	Total acreage: 14.7ha
Mango	1.05	1,642	1,724.100	2.0	0.250	525.000	-1,199.100	Fallow land: 3.99ha Infrastructure: 0.05ha
Lime	1.05	1,609	1,689.450	10.8	0.120	1,360.800	-328.650	Householder: male, 66 years old
Alfalfa	1.26	1,804	2,273.040	38.4	0.060	2,903.040	630.000	Wife: 60 years old
Rhodes grass	0.84	1,800	1,512.000	57.6	0.050	2,419.200	907.200	I son, 2 daughters
Sorghum	0.42	1,250	525.000	53.3	0.050	1,119.300	594.300	3 expatriate laborers
Watermelon	1.26	1,583	1,994.580	19.0	0.125	2,992.500	997.920	3 wells, 8m, 10m, 10m deep
Sweet-melon	1.26	1,528	1,925.280	13.1	0.290	4,786.740	2,861.460	No tractor. Plowing by a tractor from the extension center
Cucumber	0.12	1,147	137.640	14.9	0.202	361.176	223.536	Sprayer: 2 high pressure sprayers I hand sprayer
Tomato	0.12	1,537	184.440	22.2	0.146	388.944	204.504	l agricultural vehicle
Eggplant	0.12	1,600	192.000	19.0	0.061	139.080	-52.920	Livestock: 2 cows, 105 goats
Cabbage	0.12	1,280	153.600	23.2	0.065	180.960	27.360	Concrete canal for irrigation: 80m, iron pipe(90m )200m
Onion	0.12	1,404	168.480	13.7	0:090	147.960	-20.520	Storehouse: 20 m
Okra	0.12	1,499	179.880	13.2	0.255	403.920	224.040	Pump shed: $\delta m$
Carrot	0.12	1,400	168.000	23.8	0.200	571.200	403.200	Livestock shed:40m
Total	10.71	· · · · · · · · · · · · · · · · · · ·	18,377.580			19,978.770	1,601.190	

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Owner: Abdulla Mohamed Habeeb Alyhyee ] Annex Table 5.4.7 Economic farming conditions on a new farm (Na 4) in the Oman Interior Region, 1988/89 [ Address: Al Khatwa, Bahla, Oman Interior. Owner: Abdulla

		Production cost	cost	Value of products	oducts			
Crop	rianteo area ha	Unit cost RO∕ha	Production cost RO	Unit yield ton/ha	Unit price RO⁄kg	Value of product RO	Balance RO	Note
Date palm	0.42	2,033	853.860	4.1	0.150	258.300	-595.560	Total acreage : 27.72ha
Lime	0.21	1,609	337.890	10.8	0.120	272.160	-65.730	Uncultivated area: 16.40ha
Chilli pepper	0.84	1,559	1,309.560	9.0	0.325	2,457.000	1,147.440	Infrastructure: 0.02ha
Tomato	0.42	1,537	645.540	22.2	0.146	1,361.304	715.764	Householder: male, 50 years old
Potato	0.42	1,272	534.240	25.0	0.117	1,228.500	694.260	
Cucumber	0.42	1,147	481.740	14.9	0.202	1,264.116	782.376	Wife: 35 years old
Watermelon	1.26	1,583	1,994.580	19.0	0.125	2,992.500	997.920	5 sons, 6 daughters
Sweet-melon	1.26	1,528	1,925.280	13.1	0.290	4,786.740	2,861.460	6 expatriate laborers
Onion	1.26	1,404	1,769.040	13.7	060.0	1,553.580	-215.460	•
Garlic	0.84	1,302	1,093.680	8.0	0.550	3,696.000	2,602.320	2 wells, 33 and 42m deep
Cabbage	0.42	1,280	537.600	23.2	0.065	633.360	95.760	1 tractor, 65HP
Carrot	0.82	1,400	1,148.000	23.8	0.200	3,903.200	2,755.200	3 high pressure sprayers
Maize	0.21	1,500	315.000	42.8	0.050	449.400	134.400	2 agricultural vehicles
Alfalfa	1.26	1,804	2,273.040	38.4	0.060	2,903.040	630.000	12 cattles, 30 goats
Rhodes grass	0.42	1,800	756.000	57.6	0.050	1,209.600	453.600	Concrete canal: 670m
Sugarcane	0.84	1,600	1,344.000	40.0	0.175	5,880.000	4,536.000	2 storehouses, 36m ² ,12m ²
	-							1 pump shed, 25m 1 livestock shed, 90m
Total	11.32		17,319.050			34,848.800	17,529.750	•

Economic farming conditions on a new farm (No 5) in the Oman Interior Region, 1988/89 [ Address: Sulaise, Ibri, Oman Interior. Owner: Hamad Fazili Sail All-Menthery ]

	Diantod	Production cost	cost	Value of product	oduct		-	
Crop	r tatted area ha	Unit cost RO⁄ha	Production cost RO	Unit yield ton/ha	Unit price RO⁄kg	Value of product RO	Balance RO	Note
Date palm	0.42	2,033	853.860	4.1	0.150	258.300	-595.560	Total acreage : 6.3ha
Lime	0.05	1,609	80.450	10.8	0.120	64.800	-15.650	
Lemon	0.05	1,609	80.450	15.0	0.150	112.500	32.050	Uncultivated area : 2.1ha
Mango	0.05	. 1,642	82.100	2.0	0.250	25.000	-57.100	Infrastructure : 0.2ha
Guava	0.05	1,600	80.000	8.3	0.140	58.100	-21.900	Honseholder: male, 65 years old
Wheat	0.42	536	225.120	1.5	0.256	161.280	63.840	
Barley	0.21	560	117.600	1.9	0.250	99.750	-17.850	3 wives,
Sorghum	0.21	1,250	262.500	53.3 (2.0)	0.050 (0.200)	559.650	297.150	4 sons, 9 daughters
Aifalfa	0.42	1,804	757.680	38.4	0.060	967.680	210.000	3 expatriate laborers
Tomato	0.42	1,230	516.600	22.2	0.146	1,361.304	844.704	I well
Potato	0.21	1,272	267.120	25.0	0.117	614.250	347.130	1 garden tractor (Honda)
Carrot	0.21	1,400	294.000	23.8	0.200	999.600	705.600	I high pressure spayer
Onion	0.21	1,404	294.840	13.7	0.090	258.930	-35.910	1 agricultural vehicle
Garlic	0.21	1,302	273.420	8.0	0.550	924.000	650.580	
Watermelon	0.42	1,583	664.860	19.0	0.125	997.500	332.640	
Sweet-melon	0.42	1,528	641.760	13.1	0.290	1,595.580	953.820	
Beet	0.02	1,050	21.000	1.5	0.256	7.680	-13.320	
Total	4.0		5,513.360			9,065.904	3,552.544	() : seed production

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Economic farming conditions on a new farm (No.6) in the Sharquia Region, 1988/89 [ Address: El Marrany, Ibra, Sharquia. Owne

Owner: Suliman bin Sief bin Ali El Maskary ]

8 cows, 1 bull, 12 camels, 50 goats, Householder: male, 60 years old Uncultivated area : 14.7ha () : seed production 1 high pressure sprayer Total acreage : 29.4ha 12 expatriate laborers 453.600 | Infrastructure : 0.5ha I agricultural vehicle Note 20 sheep, 30 poultry 8 sons, 4 daughters Livestock shed: 4m 7 wells, 1 is usable Storehouse: 28.5m Wife: 35 years old I tractor, 65 HP 594.300 (-357.000) 782.376 -3,828.600 2,100.000 245.700 1,995.840 -115.920 3,578.820 95.760 -71 820 209.000 6,039.056 SO Balance 1,119.300 (168.000) 374.000 29,984.936 1,660.500 152.880 517.860 9,676.800 1,209.600 6,806.520 5,985.000 1,264.116 585.000 633.360 Value of product RO 0.150 0.060 0.050 0.050 (0.200) 0.146 0.125 0.202 0.065 0.090 0.200 0.150 0.080 Unit price RO/kg Value of product 38.4 57.6 15.0 22.2 19.0 14.9 23.2 17.0 4.1 53.3 (2.0) 9.1 13.7 Unit yield ton/ha 756.000 525.000 589.680 339.300 481.740 537.600 268.800 165.000 7,576.800 23,945.880 5,489.100 3,989.160 3,227.700 Production RO cost Production cost 1,804 1,583 2,033 1,800 1,305 1,280 1,404 1,500 1,250 1,537 1,147 1,280 RO/ha Unit cost 0.42 14.20 4.200.42 0.420.262.10 2.520.42 0.420.11 2.700.21Planted ha area Rhodes grass Crop Watermelon Cauliflower Date palm Cucumber Cow-pea Cabbage Sarghum Tomato Lettuce Alfalfa Onion Total

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Ì ķ Economic farming conditions on a new farm (Na 7) in the Sharquía Region, 1988/89

	Planted	Production cost	cost	Value of product	oduct			
Crop	area	Unit cost RO∕ha	Production cost RO	Unit yield ton/ha	Unit price RO⁄kg	Value of product RO	Balance RO	Note
Date palm	0.05	2,033	101.650	4.1	0.150	30.750	-70.900	Total acreage: 8.4ha
Lime	0.25	1,609	402.250	10.8	0.120	324.000	-78.250	-78.250 Uncultivated area : 3.16ha
Sweet Lime	0.50	1,610	805.000	11.0	0.150	825.000	20.000	Infrastructure : 0.30ha
Mango	0.10	1,642	164.200	2.0	0.250	50.000	-114.200	Householder : Male, 36 years old
Banana	0.05	1,790	89.500	13.6	0.140	95.200	5.700	Wife: 30 years old
Alfalfa	1.68	1,804	3,030.720	38.4	0.060	3, 870, 720	840,000	3 sons, 6 daughters
Rhodes grass	0.84	1,800	1,512.000	57.6	0.050	2,419.200	907.200	1 brother, 1 father
Barley	0.42	560	235.200	1.9	0.250	199.500	-35.700	4 expatriate laborers
Tomato	0.84	1,537	1,271.080	22.2	0.146	2,722.608	1,431.528	1 well, 24 m deep
							· · · · · · · · · · · · · · · · · · ·	1 tractor, 30 HP
Garlic	0.21	1,302	273.420	8.0	0.550	924.000	650.580	1 high pressure sprayer
				:	• •			1 agricultural vehicle
	:				-			12 cows, 4 bulls, 4 camels,
	:	- - -				- :		80 goats and sheep,
								50 poultry, 30 rabbits
		. ·-			· .			
Total	4.94		7.905.020			11.460.978	3.555.958	Side work:Brick manufacture
						212122111		

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Economic farming conditions on a new farm (Na 8) in the Southern Region, 1988/89

Owner: Ahmed Awad Al Najer] Concrete canal for irrigation : 90m Drip irrigation pipe : 1600m Householder : male, 50 years old Wife: 45 years old 2 expatriate laborers Total acreage: 1.89ha Infrastructure:0.05ha 5 sons, 8 daughters i high pressure, 1 hand sprayer No agricultural vehicle No pump shed and storehouse Labor room : 18m 2 wells 135m, 100m deep 2 sprayers : No livestock Note No tractor 14.0ml/plant 30.25mt/plant 36.000 3.0m²/plant density Planted 187.920 -6.260 805.940 405.300 -92.610 -115.920 (Address: Al Dharis Area, Salalah. Balance RO 453.600 25.920 126.000 152.880 2,284.800 1,725.750 243.390 Value of product RO 0.160 0.175 0.150 0.325 0.080 0.120 0.061 Unit price RO/kg Value of product 13.6 16.8 10.812.0 9.0 19.0 9.1 Unit yield ton/ha 32.180 919.810 265.680 336.000 90.000 Production 1,879.500 268.800 RO cost Production cost 1,790 1,476 1,609 1,500 1,559 1,600 1,280 Unit cost RO⁄ha 0.06 1.05 0.18 0.02 0.590.21 0.21Ъа Planted агеа Crop Chilli pepper Cauliflower Eggplant Coconut Papaya Banana Lime

1,220.370

5,012.340

3,791.970

2.32

Total

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Economic farming conditions on a Traditional farm (Na 4) in the Southern, Region, 1988/89

Annex Table 5.4.12

CAddress: Al Hafakarat, Salalah.

Owner: Neroze Azboot Bin Balal)

Total acrage : 1.89ha 6 cows, No livestock shed Householder : male, 55 years old Wife : 50 years old Infrastructure:0.05ha Concrete canal for irrigation : 200m Storehouse : 9 m 7 sons, 5 daughters l expatriate laborer 2 sprayers : 1 high pressure, 1 hand Pump shed : 12m Labor room : 16m sprayer No agricultural vehicle 2 wells,10.5m Note deep each No tractor 14.0 m/plant30.25ml/plant 3.0ml/plant Planted density -6.260 48.000 187.920 405.300 238.700 805.940 1,679.600 RO Balance 168.000 392.700 5,050.770 453.600 25.920 1,725.750 2,284.800 Value of product RO 0.325 0.160 0.150 0.120 0.175 0.150 RO/kg Unit price Value of product 9.0 13.6 16.810.8 12.0 23.8 Unit yield ton/ha 265.680 32.180 120.000 154.000 919.810 3,371.170 1,879.500 Production RO cost Production cost 1,790 1,476 1,609 1,500 1,400 1,559 RO/ha Unit cost 2.03 1.05 0.18 0.02 0.08 0.11 0.59 ha. Planted area Sweet potato Crop Chilli pepper Coconut Papaya Banana Lime Total

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Economic farming conditions on the Oman Modern Farm in  $1988 \diagup 89$ 

	Ţ	Production cost	l cost	Value of product	product			
Cron Recilities	נומחופת	Unit	Production	Unit	Unit	Value of	Ralance	Note
Crop, r aciituca	910	cost	cost	yield	price	product	Datalice	21012
	, Pr	RO/ha	RO	ton/ha	RO/kg	RO	RO	
Date palm	1.0	2,033	2,033.000	4.1	0.150	615.000	-1,418.000	Address:Barka, South Batinah Region
Lime	3.0	1,609	4,827.000	10.8	0.120	3,888.000	-939.000	Owner : H. E. Salim Bin Nassir Al Busaidi
Lemon	5.0	1,609	8,045.000	15.0	0.150	11,250.000	3,205.000	Establishment year : 1982
Orange	5.0	1,610	8,050.000	11.0	0.175	9,625.000	1,575.000	Establishment capital : 350,000RO
Mango	1.0	1,642	1,642.000	2.0	0.250	500.000	-1,142.000	Total area : 55ha
Total	15.0		24,597.000		-	25,878.000	1,281.000	Fruit fields : 15ha
Tomato	2.4			24.0	0.089	5,126.400		Vegetable fields : 25ha
Cabbage	10.0			24.0	0.165	39,600.000		Greenhouse : Pad and fan system,
Cauliflower	1.5			14.0	0.115	2,415.000		$0.5ha \times 3 = 1.5ha$
Sweet-melon	11.0			16.0	0.350	61,600.000		Construction cost : 302,000RO
Watermelon	2.0			22.0	0.060	2,640.000		Hydroponic facilities : 1.0ha
Squash	6.3			22.0	0.085	11,781.000		Construction cost : 136,000RO
Sweet potato	2.7			24.0	0.125	8,100.000		Field irrigation :
Sweet corn	1.5			10.5	. 0.147	2,315.250		Fruit : Bubbler system
Total	37.4		52,700.000			133,577.650	80,877.650	Initial cost : 43,000RO
Greenhouse	1.5		$26,700.000^{*1}$ 138,076.000* ²			64,332.000	-100,444.000	Vegetable : Drip system Initial cost : 102,000RO
Hydroponic facilities	1.0		18,700.000* ¹ 53,576.000* ²			30,246.000	-42,030.000	3 tractors (70HP, 45HP, 40HP) 2 high pressure sprayers
Total	54.9		314, 349, 000			254,033.650	-60,315.350	3 agricultural vehicles
Note. 1) Balance in f and statistic 2) Balances in actual figure 3) &, Crop prc 4) Rate of land	ruit produc s(Table6.4.) vegetable <i>i</i> s on the C duction co duction co	tion was cartin was cartin was cartin and facilitie Dman Mode st included by double	Balance in fruit production was calculated from unit values obtained by Department of Agriculture and statistics(Table6.4.1). Production cost does not include depreciation cost. Balances in vegetable and facilities(greenhouse, hydroponic facilities)were calculated by the actual figures on the Oman Modern farm itself. Production cost includes depreciation cost. $*_1$ Crop production cost included labor expense. $*_2$ Facilities operation cost + depreciation cost. Rate of land utilization by double cropping : $\frac{37.4ha}{25.0ha} \times 100 = 149.6\%$	it values of include de droponic fa oduction cc c2 Facilities +×100=149	otained by preciation c cilities)were ost includes operation .6%	unit values obtained by Department of Agricultur of include depreciation cost. ydroponic facilities)were calculated by the Production cost includes depreciation cost. *2 Facilities operation cost + depreciation cost. hax 100=149.6%	Agriculture the ost. ation cost.	10 staff 45 laborers Labor fee:65RO/month 4 wells, : about 30m deep each

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	REMARKS																									
	REM						÷		-																	
				100%	69%	63%	÷9	19:	14%	3	13%	112	12		100%	542	42%	12%	46%	262		1 *	20%	0%		
1984	WHOLE			949 2	653.5	598 1	55.4	176 2	132.0	44.1	119.6	108.1	11.5	100 A 100	2852.9	1537.2	1205.1	332.1	1299.5	743.9	555.6	16.2	10.8	5.4	•	
				188%	65%	59%	82	22%	17%	5%	14%	12%	21		100%	50%	40%	102	49%	27%	22%	1×	50%	22		
1985	многе			1088.9	784.4	639.6	64.8	237.3	186.5	50.9	147.2	135.4	11.8		3121.6	1565.2	1248.8	316 5	1535 0	857.5	677 S	21.3	15.5	5.8		
				100%-	66%	68%	62	19%	15%	4 %	14%	13%	1%		100%	5.6%	227	9%	4	22%	21%	1 %	9 X.	8 X		
1986	MHOLE			916.7	609-1	554.2	54.9		135.5	39.8		122.8	в, 5		2121.8	1188.8	997.4	191.4	916.2	461.1	455.1	16.8	10.4	6.4		
				100%	64%	59%	4%	21%	16%	52	16%	14%	1%		20%	68%	58%	1 0 %	31%	192	12%	1×	×0	8		
1987	MHOLE			7 2 2 2 . 7	445.3	416.5	28.7	146.6	112.5	34.1	128.9	100.1	8.8		1562.5	1059.9	899 3	160.7	491.4	298.4		11.2	6.2	5.0		
	చ			42		22 0			172			*			רא שא		× -			17%			32%		• :	
	ATABLE Court			100%		5%			73%		· .	4%	1		100%		22			70%			ж. Ю			
8.	VEGATABLE	2 L	i	30.0		ე ე			22.8			1.1			79.8		5 5			55.9			8.3 8			
1988				188%	66%	64%	\$ 0	20%	( )	4%	14%	12%	3%		2001	78%	58%	11%	30%	22%	8	 2	20	20		
	MHOLE			846.3	556 1	538.5	17.8	169.8	132.3	36.6	121.5	99.4	22.1		1524.1	1062.0	888.2	173.9	451.3	337.2	1.3	10.7	7.1	3.6		
ENTRY					S	SOC						CARGO				S	- SO(						CARGO			
	•				POR	MINA 0ABOOS	8 S H	. 0	٩Ŋ	RS		AIR	RS			PORT	MINA GABOOS	RS	D	ĴА	RS		SEEB AIR	RS		
POINT OF				TOTAL	BY SEA PORTS	MINA	OTHERS	BY LAND	ALALAU ALALAU	OTHERS	BY AIR	SEEB A	OTHERS		TOTAL	BY SEA	MINA	0 THERS	BY LAND	AUAJAJA	OTHERS	BY AIR	SEEB	OTHERS		
VALUE	QUANTITY		1	UALUE	(1688RO)									-	QUANTITY	(1200TON) BY SEA PORTS									-	
IMPORT	EXPORT		IMPORTS																							

Annex Table 5.8.1 Value and Quantity of Imports by Points of Entry

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SOURCE FOREIGN TRADE STATISTICS ON MARCH 1989 BY DEVELPOMENT COUNCIL FOREIGN TRADE STATISTICS 1988 BY ROYAL OMAN POLICE

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Annex Table 5.8.2 Organizational Structure of PAMAP

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1. DISTRIBUTION AND COLLECTION CENTRES

Location		Function	Total	Facilities Office	Area(m ¹ ) Packing & Grading	Cold Store	Cold Receving & Store Delivery Dock	Storage Crates so,on	(Type)	Retail Outlets inside Centres's Area	lets rea
		1		i i v	·	. !					
Capital Area I. Capital Area	pital Area	head UIIICe	1,400	1,400	I i	1	1			1 (	
	(Ghala)	Distribution	5,400	3,401	720	631	324	324	(D3)	O [°]	
2.Barka	rka	Collection	678	130	88	66	132	257	(2) )	×	
3.Qui	3.Quriyat	"	"	'n	"	"		"	(")	O	
4.Sumail	mail	ii	"			"	u	"	( " )	0	
North Batinah 5.Sohar	har	Collection &									
		Distribution	~	1,008	720	288	180	144	(D2)	0	
6.Shinas	inas	Cellection	678	130	83 83	99	132	257	$(c_{i}^{c})$	0	
South Batinah 7.Suwaig	waiq	Collection &									
		Distribution	1,028	246	175	238	120	249	(10)	0	
8.Kht	8.Khabura	Collection	678	130	83	66	132	257	(cc)	0	
9. Rostag	staq	ľ	"	"	"	"	"	"	(")	0	
Dakhliya 10.Nizwa	EWZ	Collection &			<b>.</b> .						
		Distribution	2,340	1,008	720	288	180	144	(D2)	×	
11.Ibri	ri	Collection	1,028	246	175	238	120	249	(ID)	0	
12.Bahla	hla	li .	678	130	93	66	132	257	( <u>2</u> )	0	
13. IZI	kî	11	u	"	#	и	n	"	(")	0	
14.Sayq	yq.	и	662	106	86	106	148	216	( ( ( ) )	0	
Sharqiya 15.1bra	ra	Collection &									
		Distribution		160	100	117	83	ł	Ĵ	0	
16.Kamil	mil	Collection	662	106	86	106	148	216	(,))	0	
17.Mudaibi	daibi	н	678	1:30	93	66	132	257	() ()	0	
Southern 18.Salalah	lalah	Collection &									
		Distribution	2,340	1,008	720	288	180	144	(D2)	0	
		-		-							

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Annex Table 5.8.2 Organiz (continued)	Organizational Structure of PAMA .nued)	of PAMAP			
2. RETAIL SALES OUTLETS (Outside	e Center's Area)				
Location	Nos.		Note	e	
All Collection and Distribution Centres Ruwi Sales Center	Centres 24 5	Capital Area Snos. Ruwi, Muttran, Inao	tal Area Snos., Sohar Salalah ; , Muttran, Inadi Hasas, Inadi I	2nos.×2places, Ot Kabir, Inadi Adei	Capital Area 5nos., Sohar Salalah 2nos.×2places, Others Inos.×15places Ruwi, Muttran, Inadi Hasas, Inadí Kabir, Inadi Adei
· · · · · · · · · · · · · · · · · · ·	C C C				
lutat	67				
3. Agricultural Produce-Processing Centres	ing Centres				
Location	Fanction			Note	
Capital Area (Ghala) Mawaleh Salalah	banana-ripening facilities pickle plant grading and packing for drie Busr dry dates, Busr banana packing and ripening	ed lime, • powder factory	powdered dried lime, and frankincense		
			· · · ·		
		•			

	Category I	Category II	Category III
• •	Produce which are restricted for import. these are produce which are available throughout the year in sufficient quantities.	Produce with fluctuating supplies during the season. Permits for these produce are issued depending on the demand and supply in the market.	Produce which are available during specific seasons and during the season they are obtainable in sufficient quantities. Permits for those produce are issued during offseason only.
	Dates	Tomato	
÷	Frankincense Lime	Eggplant Cucumber	Onion Potato
;	Papaya	Sweet Potato	Carrots
846 -	Coconut Drv Lime	Okhra Souash	Garlic Mango
	1 - c }	Sweet Pepper	Pomegranate
		Chilli Pepper	Grapefruit
	Note : On very special conditions,	Lettuce Cabbage	Sweet-helon Sweet Line
	mits for the abo	Cauliflower	Watermelon
	are considered and issued		
	th written approv	Karela (Bitter Guard)	
	H.E. the Executive President.	Pumpkins Garoca Porc	
		Radish	
		Banana	

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PAMAP Center-wise Purchase and Sales Quantities from 1986-89 5.8.4 Annex Table

6,549 17,479 2,914 718 10 429 450 490 644 264 935 188 2,2171,399 807 521 328 1,178 1,606 692 4,000 6,988 36,830 43,818 Total 122 913 262 405 138 4,685 114 174 113 274 566 337 555 219 1,545 2,396 56 204 10,753 2,301 2 80 13,149 2 1989.9 216 353 566 269 5,575 126 853 184 225 679 172 366 243 2,532 126 2,658 134 ემ 644 1,437 (2,179 14.837 78 1988 Sales 116 328 10,095 849 222 138 473 297 163 68 288 1,716 3,963 61 707 8,259 .120 158 122 152 ទះ I,836 181 1987 5,639 3,256 128 299 499 119 88 5,737 102 147 311 88 36 88 131 ទួ 111 49 171 8 1986 5,136 1,990 249 7,602 3,990 357 528 ,098 192 138 179 553 215 35,625 292 10,724. 114 5,558 2,622 707 56,685 4,397 10,044 21,060 Total 16,517 10,069 373 62 53 53 2,304 1,958 483 105 l,949 1,050 1,124 727 92 176 287 2411,240 3,852 292 6,448 1989.9 219 19,592 938 3,498 1,724 377 39 2,558 l,942 2,195 117 115 416 49 86 1,263 12,417 3,677 7,175 8 171 20 46 I 1988 Purchase L, 339 116 949 734 ,926 797 582 1,048 8,170 2,515 3,084 5,599 13,769 64 238 ვ 17 39 38 88 38 34  $\sim$ 1987 1,169 900 375 846 4,969 1,838 6,807 505 396 84 121 157 1,838 201 75 25 38 22 17  $\sim$ I L 1986 I.Capital Area Banana Factory **Pickle Plant** 8.Khabura 3.Quriyat 7.Mudaibi 18.Salalah Ruwi Shop 6.Shinas 7.Suwaiq 9.Rostaq 4.Sumail 5.Sohar 2.Barka 10.Nizwa 2.Bahla 6.Kamil I.Ibri 14.Sayq 5.Ibra 3. Izki Grand Total North Batinah South Batinah Capital Area Total Total Dakhliya Sharqiya Southern Others

volume doesn't include dealings between each center.

This

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Note

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-			Purc	urchase				<u>,</u>	Sales		
		1986	1987	1988	1989.9	Total	1986	1987	1988	1989.9	Total
Capital Area	1.Capital Area	92.4	190.7	290.8	304.0	877.9	645.3	909.1	1.359.4	1.117.6	4.031.
	2.Barka	45.9	111.9	67.8	75.9	301.5	7	32.1	29.	23.9	
	3.Quriyat	4.3	6.6	15.8		45.5	5.1	25.0	25.4	23.2	78
	4.Sumail	1.4	4.4	6.9	6.4	19.1	5	30.8		32.3	120.
North Batinah	1 5.Sohar	148.8	261.3	408.7	289.1	1,107.9	64.4	187.6	172.3	173.3	597.6
	6.Shinas	27.3	115.8	244 1	10	533 2	1.2		25.6	111.0	141.8
South Batinah	n 7.Suwaig	94.6	171.0	335.0	163.3	763.9	18.3	38.9	68.3	53.7	179.
	8.Khabura	44.9		115.9	96.5	329.2	0.2	3.3	12.0	24.3	39.8
	9.Rostaq	20.6	19.5	33.3	78.2	151 6		28.8	47 .7	56.3	132.
Dakhliya	10.Nizwa	15.0		23.8	13.1	61.7	90.7	112.2	161.7	124.2	488.8
	11.Ibri	13.9	12.7	17.3	20.0	63.9	. 25.4	63.7	109.6	70.1	268.8
348	12.Bahla	27.5	49.1	77.9	42.3	196.8	•	36.6	56.5	38.9	164.8
× —	<b>13. Izki</b>	1.1	5.6	10.8	8.1	25.6		23.8	34.3	24.5	100.7
-	14.Sayq	12.8	16.0	17.9	11.2	57.9		14.8	17.7	15.7	.07
Sharqiya	15. Ibra	4.8	4.6	8.4	10.2	28.0	27.1	70.3		60.4	233.
	16.Kamil	1.9	12.1	42.0	36.2	92.2		60.9		107.8	312.
	17.Mudaibi	2.6	4.7	12.2	12 4	31.9			49.9	38.5	137.8
Southern	18.Salalah	117.2	287.4	233.7	270.1	908.4	ŵ	163.0	343.9	394.2	959.
Total		677.0	1,355.1	1,962.3	1,601.8	5,596.2	1,070.4	1,842.7	2,749.5	2,489.9	8,152.5
Others	Ruwi Shop	ł	559.7	811.9	841.1	2,212.7	ł	821.0	805.2	•	2,283.
	Pickle Plant	ŀ	I	I	0.9	0.9				17.0	17.0
	Banana Factory	253.4	431.8	489.7	337.7	1,512.6	19.5	26.2	31.5	21.2	98.
Total		253.4	991.5	1,301.6	1,179.7	,72	19.5	847.2	836.7	695.4	2,398.
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Note : This volume doesn't include dealings between each center.

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ies from 1986-89	
1986	
fron	
Quantities	
l Sales Qu	
e and	
Purchase	
PAMAP Produce-wise	
PAMAP P	
able 5.8.6	
Annex Tabl	

1986     1987       Banana     2,037     3,352       Cabbage     522     905       Carrot     522     905       Carrot     65     115       Chili Pepper     103     180       Coconut     41     55       Cucumber     156     321       Eggplant     364     524	1988 3,943 835 835 835 835 835 841 841 843 843 843 843 843 843	1989.9 2,887 733 119 119 140 168 45 45 292 340 36 351	Total 12,219 2,995 184 472 721	1986 1 527	1987	1988	1989.9	Total
a 2,037 3,3 3,3 2,037 3,3 522 9 522 9 522 1 1 1 1 1 1 1 1 1 1 1 1 1 5 6 3 1 1 1 5 6 3 1 1 5 6 3 1 1 5 6 7 3,3 3,3 1 1 5 8 7 5 2 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Example 1 and a second seco	<u> ө</u> сччч 000 -	* *	1 597				
a 2,037 3,3 522 9 522 9 522 9 522 9 522 1 1 103 1 1 1 1 1 156 3 1 156 3 1 156 3 1 156 3 3 10 156 3 1	No. 1	<u>ю́</u> гччч сію -	* *	1 597				
Se 522 9 1 Nepper 103 1 1 Pepper 103 1 1 156 3 364 5 311	835 835 84 841 841 841 841 841 842 843 843 843 843 843 843 843 843 843 843	733 119 168 168 292 340 35 51	•	1,006	2,816	3,504	2,506	10,353
lower 65 1 Pepper 103 1 It 156 3 Der 156 3 364 5 1nt 364 5	65 66 66 66 66 66 70 8 70 8 70 8 70 8 70 8	119 140 168 340 351 51 51	184 472 791	417	613	640	617	2,287
llower 65 1 Pepper 103 1 1t 41 3 364 5 1nt 364 5	1152 2702 664 125 841 843 843 843 843 843 843 843 843 843 843	140 168 292 340 351 51	472			67	33	160
Pepper 103 1 ut 41 3 ber 156 3 ant 364 5	270 4 41 6 259 1 25 8 43 8 43 8 43 8 43 8 43 8 43 8 43 8 43	168 45 340 36 36 51 51	701	52	63	. 82	105	302
ut 41 ber 156 3 ant 364 5	4 4 6 6 4 4 1 6 2 5 9 1 6 2 5 8 9 1 6 8 8 9 2 5 8 8 9 2 5 8 8 9 2 5 8 9 2 5 8 9 2 5 5 8 9 2 5 5 8 9 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	45 292 340 36 51	171	06	138	198	141	567
156 3 364 5	469 625 12 843 843 843 85 85 85 85 85 85 85 85 85 85 85 85 85	292 340 36 51	182	33	44	42	42	161
364 5	625 12 68 843 843	340 36 51	1,238	139	248	369	247	1,003
	12 68 843 843	36 51 117	1,853	271	344	389	257	1,261
Frankincens 0 28	68 142 843 25	51	76	0 • •		ເດ	10	16
4	142 843 25	117	163	7	18	30	45	100
e 18	843 2E		363	15	. 57	103	87	262
163 3	30	1,033	2,427	140	249	487	544	1,420
) 14	00	91	184	12	20	16	58	106
169 1	174	274	727	165	77	138	256	636
a 141 2	299	325	1,012	97	180	194	198	669
337 4	1,434	1,499	3,716	324	379	1,303	1,398	3,404
Pumpkin 278 259	469	164	1,170	221	199	261	134	815
93 2	379.	207	951	78	155	219	164	616
felon 142 4	720	411	1,694	45	265	560	297	1,167
r 54 1	180	125	501	47.	06	118	114	369
55	147	227	564	43	87	110	177.	417
914 1,4	2,561	2,015	6,953	795	1,129	1,720	1,689	5,333
melon 531 9	1,500	1,019	3,995	477	692	1,200	179	3,148
Main Local To.	15,363	12,318	44,360		·	11,755	9,958	34,572
Other Local 603 3,297	2,306	1,812	8,018	644	2,235	1,553	1,365	5,797
Imported	1,923	2,132	4,055			1,528	1,857	3,385
Total 6,807 13,772	19,592	16,262	56,433	5,639	10,099	14,836	13,180	43,754

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PAMAP Produce-wise Purchase and Sales Values form 1986-89 Annex Table 5.8.7

187.2 38.3 350.4 133.9 62.0 65.7 89.6 65.7 89.6 69.4 134.4 134.4 134.4 593.8 106.0 116.1 106.0 116.1 236 59.4 7,349.7 7,349.7 7,349.7 2,648.6 267.2 43.5 69.7 2,014.5 1,122.7 0,486.9 Total 643.6 55.9 24.9 24.9 49.3 10.0 101.3 28.4 30.0 28.8 37.4 28.8 37.4 28.8 37.4 28.8 37.4 28.8 37.0 28.8 37.0 21.0 21.0 225.2 21.0 21.0 225.2 225.2 225.2 225.2 225.2 225.2 225.2 225.2 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.3 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 225.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 2 2,080.5 401.4 612.5 3,094.4 1989.9 930.6 92.6 18.6 17.2 60.6 60.6 41.3 22.3 19.4 19.4 19.4 19.4 15.9 39.2 39.2 25.4 318.3 176.4 2,613.7 464.9 510.2 234.5 31.1 39.0 157.9 29.6 3,588.8 1988 Sales 719.5 976.0 2,699.4 1987 354.9 45.5 12.2 32.8 8.0 8.0 42.5 26.2 172.2 1,104.3 1986 1,903.1 1,091.1 9;327.6 6,333.4 Total 1,821.1 387.5 ,786.7 578.1 1989.9 2,219.2 531.6 513.0 539.6
82.6
82.6
82.6
81.0
18.4
6.8
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6.8
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109.5
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11.0
31.1
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348.4 181.9 3,263.8 1988 Purchase 8.9 67.6 33.9 33.9 555.5 55.5 73.0 6.2 6.2 7.8 6.2 6.2 6.2 6.4.6 64.6 68.0 465.4 61.0 21.1 41.0 22.8 853.2 2,346.8 236.0 108.9 21.4 1987 930.3 130.8 279.6 35.2 1986 Main Local To. Watermelon Sweat-Melon Sweat Pepper Swear Potato Chili Pepper Cauliflower Other Local Frankincens Total Cucumber Imported Eggplant Garlic Carrot Coconut ettuce umpkin Jabbage omato Papaya Squash sanana otato Mango Onion Lime

Note : This volume doesn't include dealings between each center

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## PAMAP Produce-wise Purchase Unit Price(R.O./ton) . 1989

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	Draduce	JA	FΈ	MA	ÁR	МA	JU	JU	AU	SE	00	NO	DE	TOTAL
NO.	Produce	140	139	139	151	146	1 42	141	148	141	1.4.4	146	146	143
	Banana	59	38	35	31	46	109	143	172	172	178	185	106	74
	Cabbage	214	171	152	145	139	168	317	430	313	284	220	189	173
	Carrot	176	83	186	382	295		687	396	316	314	296	273	171
	Cauliflower	-	292	335	231	206	432	483	428	358	298	261	247	268
	Chilli Pepper			169	175	168	178	167	179	176	176	165	154	178
6	Coconut	161	154			259	326	345	396	331	224	215	229	279
7	Cucumber	314	393	373	276	64	127	169	189	160	126	82	61	76
	Eggplant	24	51	75	56	-	2038	2083	1994	2011	556	2888	1933	2028
	Frannkincens		· •		2000	2000	_			705	572	544	579	483
10	Garlic	321	653	570	472	426	391	584	595		278	284	233	198
11	Lettuce	277	149	141	204	284	200		297	383				
12	Lime	390	483	444	399	300	214	96	77	80	108	175	285	194
13	Mango			380	331	111	132	97	229	300	482	571	676	162
14	Onion	163	150	95	87	69	74	101	98	88	106	89	81	83
15	Papaya	122	123	122	142	151	148	124	99	129	147	136	. 99	124
	Potato	166	130	126	128	144	213	192	210	1.1	149	145	151	129
	Pumpkin	25	51	86	88	68	145	122	183	169	183	86	59	94.
	Squash	111	161	196	123	74	256	250	214	280	203	110	119	145
	Sweet-Nelon	150	100	282	372	172	196	195	205	181	148	143	174	179
	Sweet Pepper	177	149	149	149	162	256	326	247	318	255	239	198	. 169
	Sweet Potato	177	139	130	192	144	195	222	243	250	258	286	292	165
	Tomato	107	72	125	190	143	174	187	137	213	157	275	345	136
23		108		183	192	184	127	131	119	72	58	. 93	77	125

Annex Table 5.8.9 PAMAP Produce-wise Sales Unit Price (R.O./ton) 

in	1989

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No.	PRODUCE	AL	FE	MA	AR	ne.	្រាប	JU	AU	SE	00	NO	DE	TOTAL
1	Banana	266	265	269	276	261	255	249	246	244	247	242	252	252
2	Cabbage	101	67	64	65	92	120	209	206	238	259	240	151	109
3	Carrot	276	263	252	250	264	377	426	445	259	329	347	297	273
4	Cauliflower	256	137	243	297	427	458	669	463	421	469	414	390	242
5	Chilli Pepper	225	382	415	338	298	554	631	532	466	417	357	328	358
6	Coconut	224	214	228	239	225	242	246	246	246	243	235	238	237
7	Cucumber	396	-595	464	378	355	394	431	474	421	338	382	318	376
8	Eggplant	53	93	124	83	118	176	228	245	212	191	146	104	119
9	Frannkincens	5984	3055	3269	3477	3109	2794	3739	2390	1703	1350	1468	1129	1980
10	Garlic	663	624	670	660	616	642	656	698	780	768	738	694	
11	Lettuce	481	267	255	312	305	424	630	559	338	535	474	354	312
12	Lime	459	457	494	492	388	324	190	141	157	191	257	310	311
13	Mango	682	778	574	426	227	178	. 136	255	319	578	611	484	208
14	Onion	136	135	120	121	102	102	130	133	115	126	155	112	113
15	Papaya	185	197	198	195	212	204	178	152	185	209	215	189	193
16	Potato	205	167	158	175	180	185	201	209	204	209	207	205	169
17	Pumpkin	58	.93	138	142	133	197	192	240	246	186	154	101	151
18	Squash	149	205	256	206	141	257	350	388	269	289	183	170	198
19	Sweet-Nelon	172	355	302	412	221	203	250	179	124	180	186	182	216
28	Sweet Pepper	262	242	226	237	259	435	494	393	381	384	338	294	263
21	Sweet Potato	216	211	194	216	202	158	261	286	293	320	345	363	216
22	Tomato	120	102	158	220	208	199	122	197	259	211	310	430	167
23	Watermelon	112	152	226	223	133	145	132	111	97	63	119	116	143
										. ·				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

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Annex Table 5.8.10 PAMAP Produce-wise Margin Rate (%) in 1989

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## Annex Table 5.8.11 PAMAP Monthly Banana Distribution of Consumer Rial Between the Producer, Retailer and PAMAP

Month	When : Mercha		g to th	18		When selling to PAMAP					
	1	2	3	4	5	. 1	2	3	4	ંદ	
	baisa	baisa	baisa	*	*	baisa	baisa	baisa	*	×	
January	150	250	100	60.0	40.0	140	270	1.30	51.9	48.1	
February	150	255	105	58.8	41.2	140	271	.131	51.7	48.3	
March	160	220	60	72.7	27.2	140	270	130	51.9	48.1	
April	200	320	128	62.5	37.5	140	267	127	52.4	47.6	
May	160	- 238	70	69.2	30.4	140	269	129	52.1	47.5	
June	140	225	85	62.2	37.8	. 140	265	125	52.8	47.2	
July.	140	225	85	62.2	37.7	140	248	118	.54.3	45.1	
August	130	220	90	59.1	40.9	140	255	115	54.9	45.1	
September	125	210	85	59.5	40.5	140	264	124	53.1	46.5	
October	125	215	90	58.1	41.9	140	268	128	52.2	47.8	
November	130	240	110	54.2	45.8	140	267	127	52.4	47.6	
December .	130	240	110	54.2	45.8	140	267	127	52.4	47.6	

(1) Producer price

(2) Retail price

(3) Price spread

(4) Producer share/Retail price

(5) Price spread/Retail price

Price = kg/baisa

Annex Table 5.8.12 PAMAP Monthly Cabbage Distribution of Consumer

Month	When : Mercha		g tọ th	10		When selling to PAMAP					
•	1	2	3	4	5	1	2	3	4	ŧ	
·	baisa		baisa	*	*	baisa	baisa	baisa	%	%	
January	65	100	35	65.0	35.0	31	60	29	51.7	48.3	
February	44	155	111	28.4	71.6	71	107	36	66.4	33.6	
March	30	120	90	25.0	75.0	39	77	38	50.7	49.3	
April	36	100	64	36.0	64.0	34	72	38	47.2	52.8	
May	70	180	110	38.9	61.1	67	116	49	57.8	42.3	
June	100	200	100	50.0	50.0	111	169	58	65.7	34.3	
July						136	187	51	72.8	27.2	
August						171	258	· 87	66.3	33.7	
September						194	269	75	72.1	27.9	
October						123	200	77	61.5	38.5	
November						55	103	48	53.4	46.6	
December	250	325	75	76.9	23.1	38	77	39	49.4	50.6	
Weighted					. *			· · · ·	• •		
average	85	199	114	57.2	42.8	52	91	- 39	57.1	42.9	

Rial Between the Producer, Retailer and PAMAP

(1) Producer price

(2) Retail price

(3) Price spread

(4) Producer share/Retail price (5) Price spread/Retail price

· Prices kg∕baisa

Nonth	When : Mercha	-	g to th	0	·	When : Pamap	selling	y to	79.5 79.9 77.4 70.7 87.2 59.6 65.1 68.7 78.9 75.3 76.6	
	1	2	3	• 4	5	1	2	3	4	÷ 6
	baisa	baisa	baisa	*	*	baisa	baisa	baisa	*	<u> </u>
January		· · ·				278	363	85	. 76.6	23.4
February						334	420	86	79.5	20.5
March						349	437	88	79.9	20.
April						304	393	89	77.4	22.0
May						232	328	96	70.7	29.
June						321	368	47	87.2	12.
July						249	418	169	59,6	40.
August	350	550	200	63.7	36.3	335	515	180	65.1	34.
September	290	430	140	67.4	32.6	385	560	175	68.7	31.
October	230	330	100	69.7	30.3	355	450	95	78.9	21.
November	180	350	170	51.4	48.6	305	405	198	75.3	24.
December	190	310	120	61.3	38.7	301	393	92	76.6	23.
Weighted										
average	191	387	196	49.4	50.6	294	381	. 87	77.7	22.

Annex Table 5.8.13 PAMAP Monthly Cauliflower Distribution of Consumer Rial Between the Producer, Retailer and PAMAP

(1) Producer price

(2) Retail price

(3) Price spread

(4) Producer share/Retail price

(5) Price spread/Retail price

.

Price = kg/baisa

Annex Table 5.8.14 PAMAP Monthly Potato Distribution of Consumer

Month	When selling to the When selling to Merchant PAMAP										
	1	2	3	4	5	1	2	3	4	!	
· · · · · · · · · · · · · · · · · · ·	baisa	baisa	baisa	*	*	baisa	baisa	baisa	*	3	
January						141	178	37	79.3	20.4	
February	150	250	100	60	40	120	174	44	74.7	25.3	
March	155	225	70	68,9	31.1	127	193	66	65.8	34.3	
April							193				
May							189				
June											
July										•	
August											
September											
October											
November											
December											
Weighted	153	238	85.0	64.3	35.7	128	186	58	68.8	31.	
average											

Rial Between the Producer, Retailer and PAMAP

(1) Producer price

(2) Retail price (3) Price spread

(4) Producer share/Retail price

(5) Price spread/Retail price

+ Price kg∕baisa

.

Month		ibutio erchan	n botwo t	en Pro	ducer	Distr and Pi		i betwe	en Pro 4 3 71.3 71.6 76.3 82.5 70.9 72.9 78.8 81.4 76.8	duicer
	1	- 2	3	4	5	1	2	3	4	5
	Baisa	Baisa	Baisa	*	*	Baisa	Baisa	Baisa	ų.	*
January	265	300	35	88.4	11.6	92	129	37	71.3	28.1
February	100	170	70	58.9	41.1	68	95	27	71.6	28.4
March.	250	300	50	83.4	16.6	158	207	49	76.3	23.1
Ápril	260	350	98	74.3	25.7	254	3Ø8	54	82.5	17.
Мау 🦂	160	330	170	48.5	51.5	254	261	105	70.9	29.
June .			19 A.		1. Sec. 19	205	270	65	72.9	24.1
July .										
August										
September	275	350	75	78.6	21.4					
October	270	330	60	81.8	18.2	186	236	50	78.8	21.3
November	230	325	95	78.8	29.2	214	263	49	81.4	18.6
December	210	350	40	88.6	11.4	219	219	51	76.8	23.2
Weighted	·									÷ .
Average	236	308	72	76.6	23.4	135	179	. 44	75.4	24.0

Annex Table 5.8.15 PAMAP Monthly Tomato Distribution of Consumer Rial Between the Producer, Retailer and PAMAP

(1) Producer's price

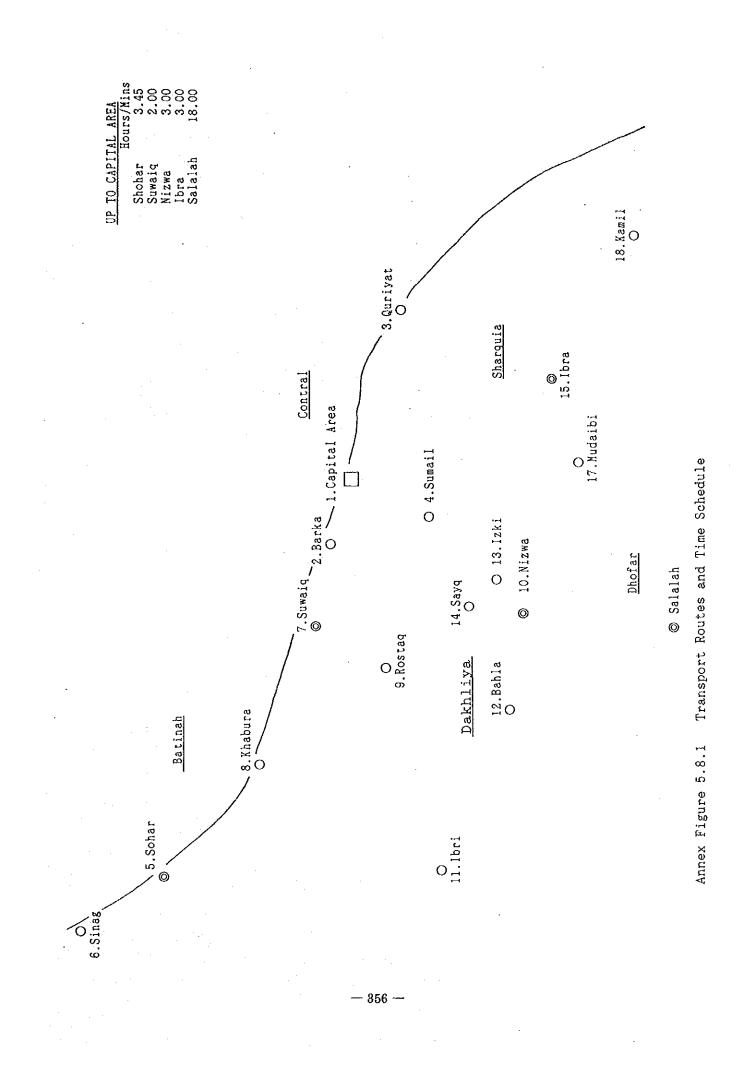
(2) Retail price

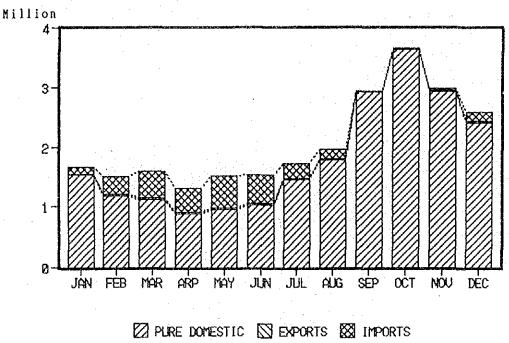
(3) Price spread

(4) Producer share/Retail price

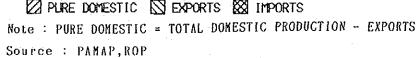
(5) Price spread/Retail price

•Price = kg/baisas

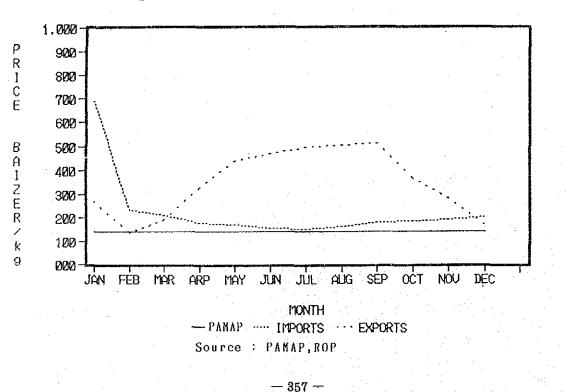


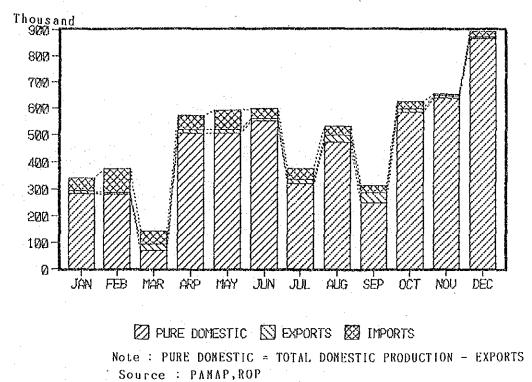


Annex Figure 5.8.2 Produce-wise Quantity -Bananas- in 1988

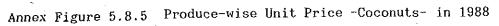


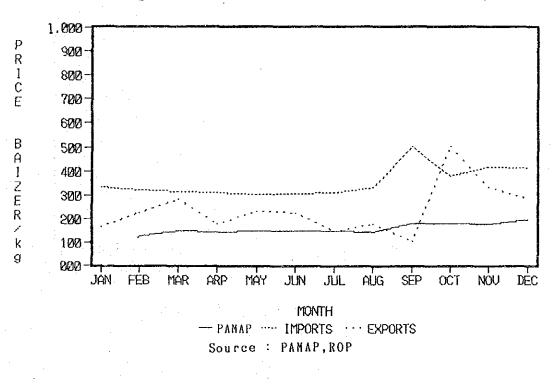
Annex Figure 5.8.3 Produce-wise Unit Price -Bananas- in 1988



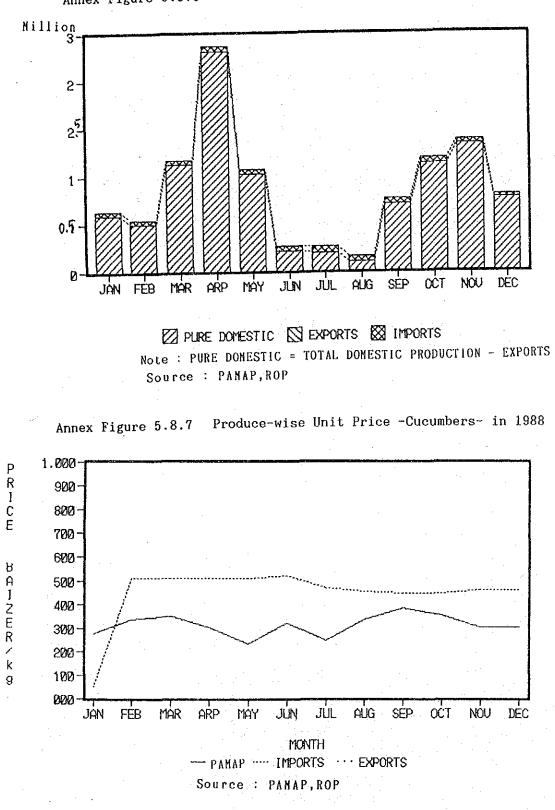


Annex Figure 5.8.4 Produce-wise Quantity -Coconuts- in 1988



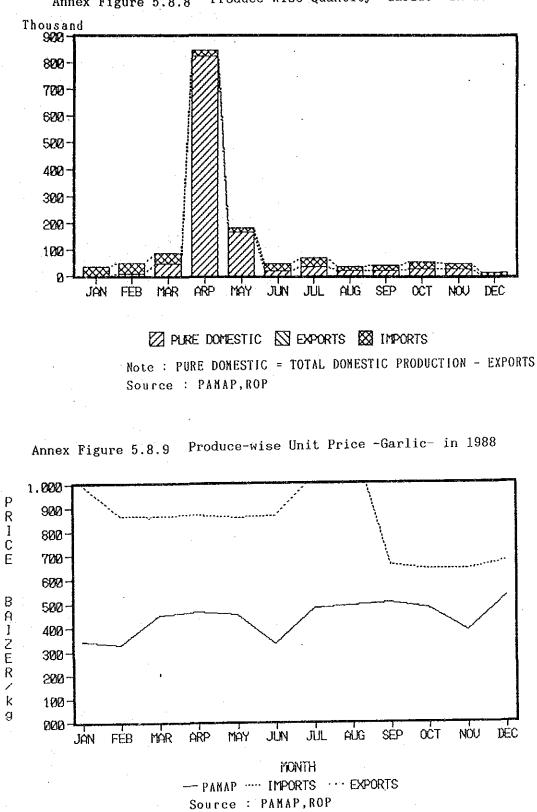


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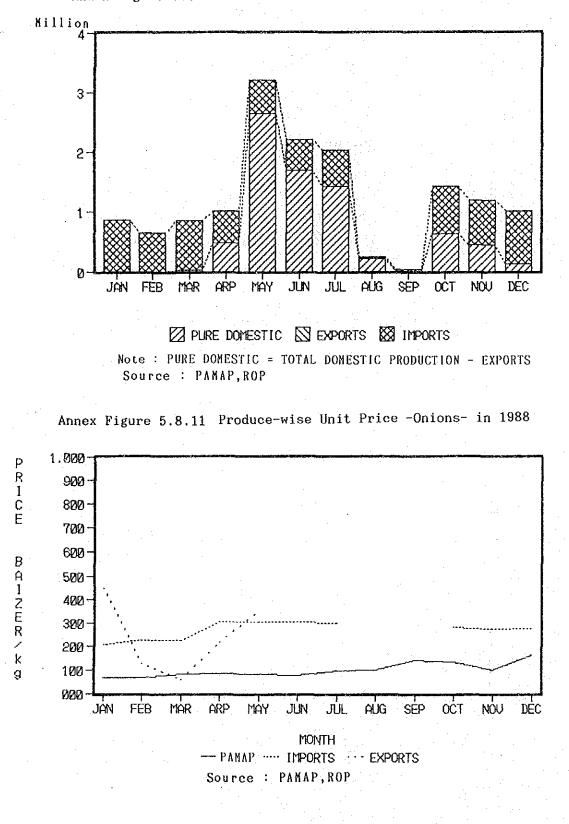
Annex Figure 5.8.6 Produce-wise Quantity -Cucumbers- in 1988

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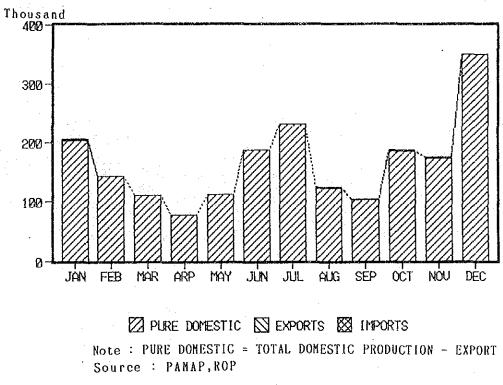
Produce-wise Quantity -Garlic- in 1988 Annex Figure 5.8.8

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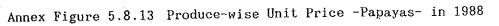


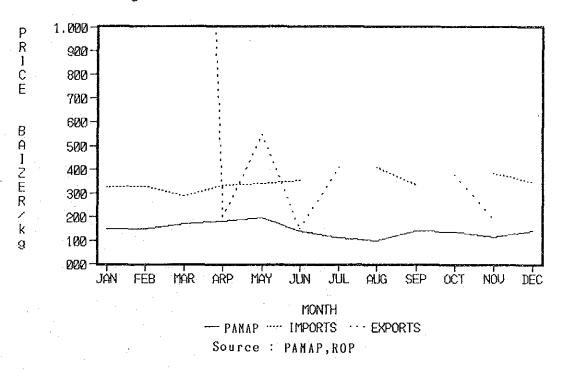
Annex Figure 5.8.10 Produce-wise Quantity -Onions- in 1988

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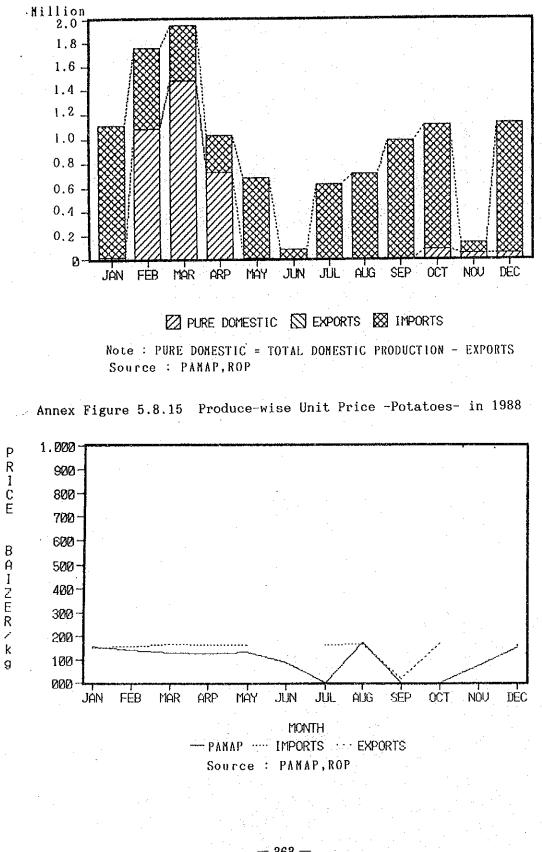


Annex Figure 5.8.12 Produce-wise Quantity -Papayas- in 1988

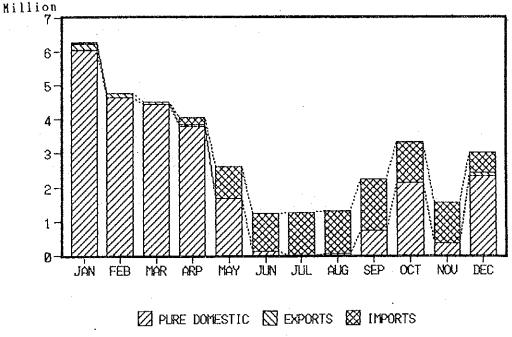




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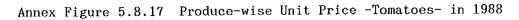


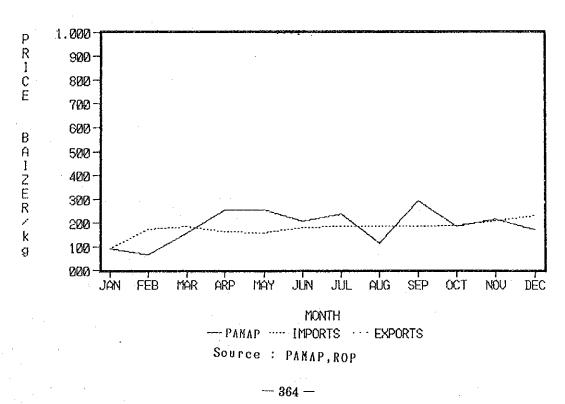
Annex Figure 5.8.14 Produce-wise Quantity -Potatoes- in 1988



Annex Figure 5.8.16 Produce-wise Quantity -Tomatoes- in 1988

Note : PURE DOMESTIC = TOTAL DOMESTIC PRODUCTION - EXPORTS Source : PAMAP, ROP





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