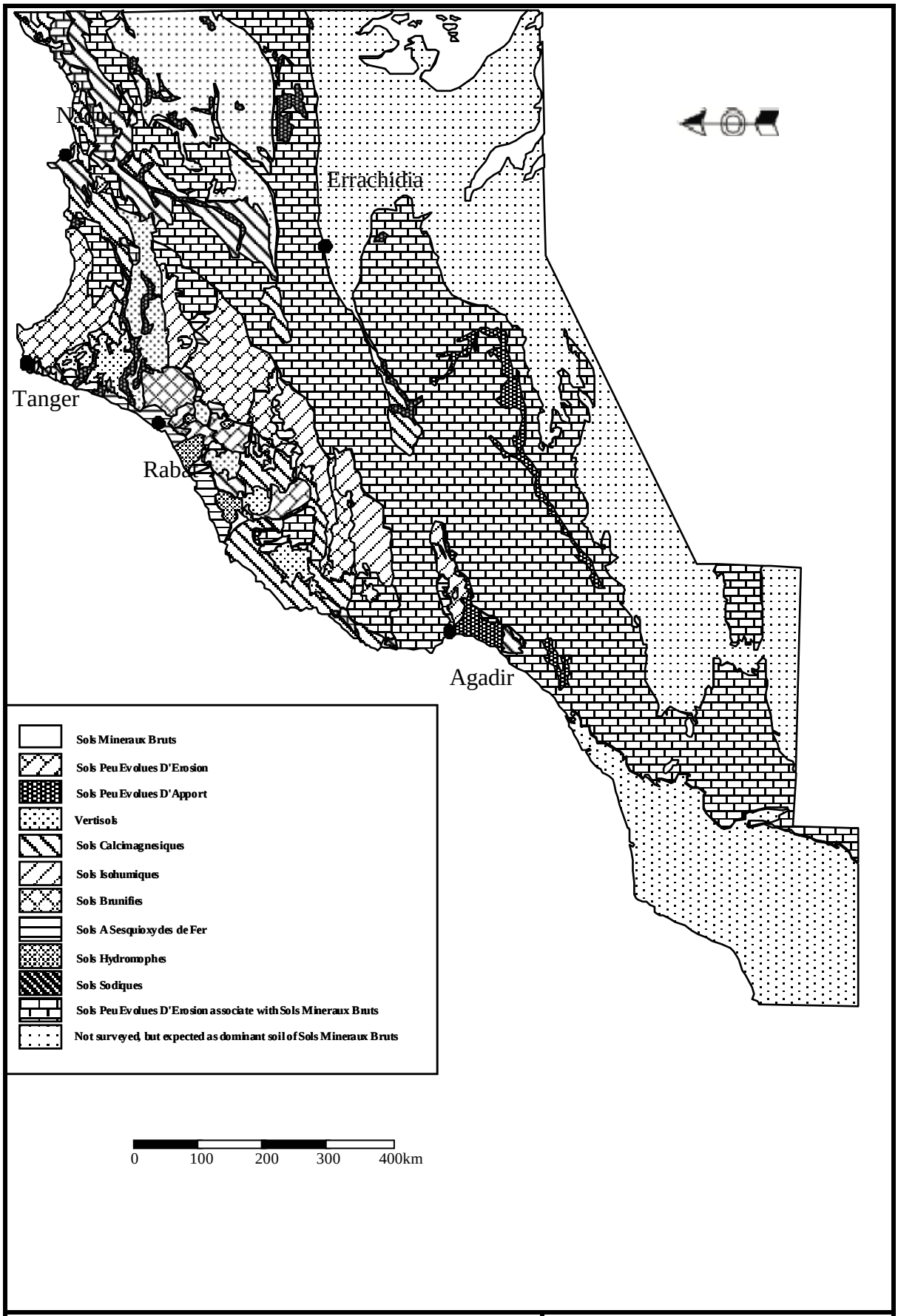
Feasibility Study on Water Resources Development in
Rural Area in
the Kingdom of Morocco
Final Report
Volume III Supporting Report (1)
Basic Study
Supporting Report V
Soils, Agriculture and Irrigation

Figures



FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V1.1.1** **Soil Map in Morocco**
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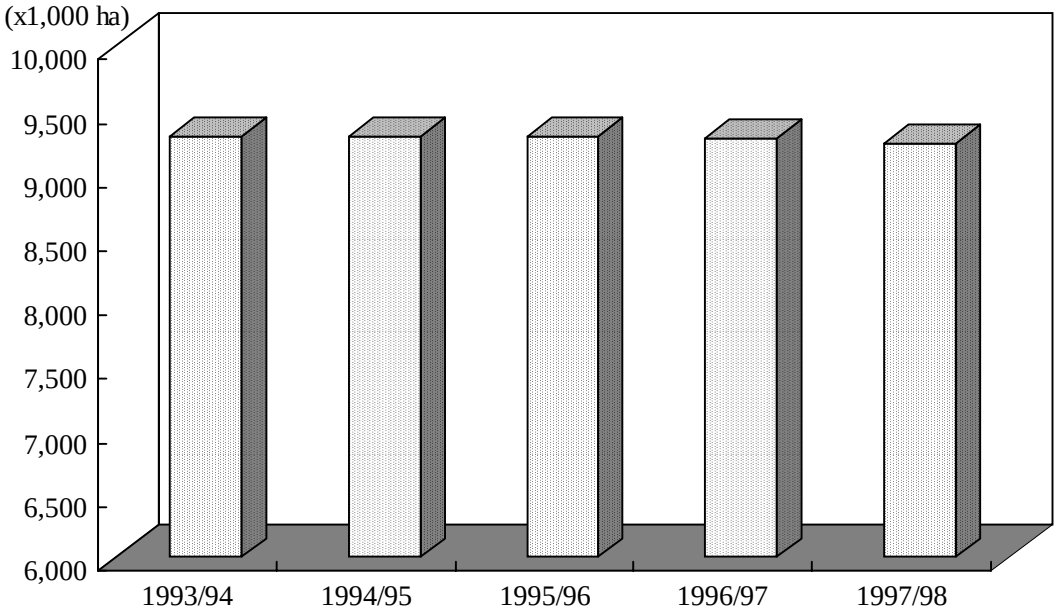
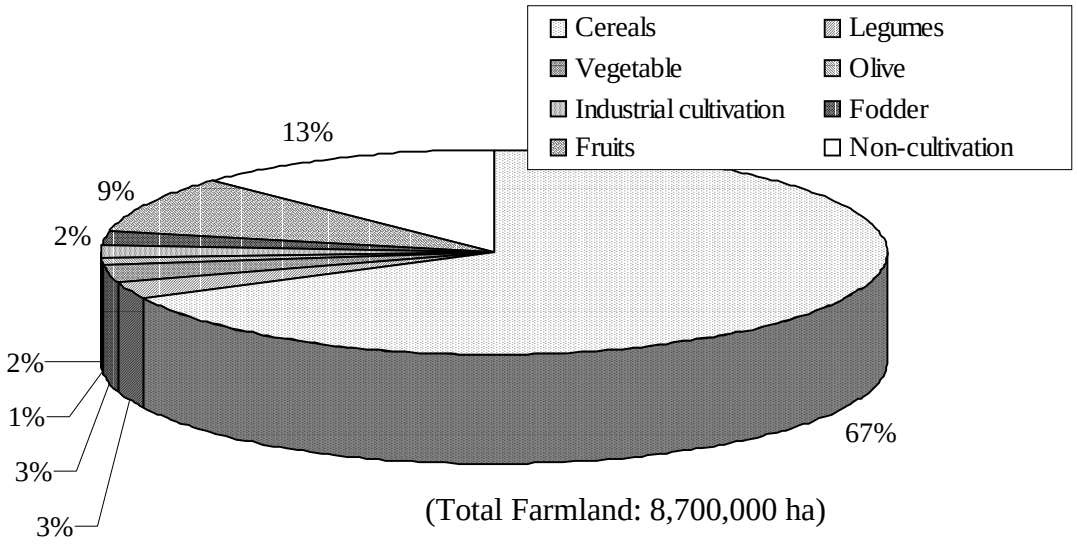


Source: Annuaire Statistique de Maroc 1999, Direction de la Statistique, Ministere de la Prevision Economique et de Plan



Source: Recensement General de l'Agriculture, Resultsts par Commune, Ministere de l'Agriculture de Development Rural et des Peches Maritimes, Janivier 2000

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V2.1.1** **Total Cultivated Area and Cultivated Occupancies (1993-94 - 1997/98)**
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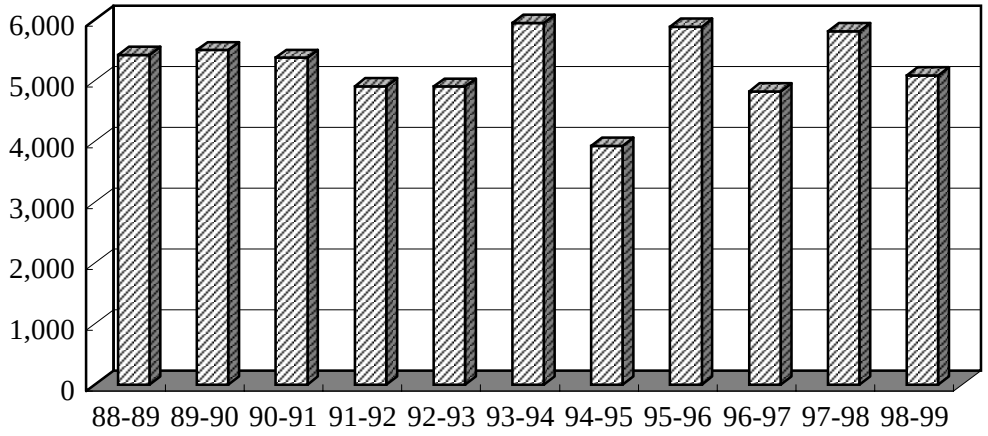
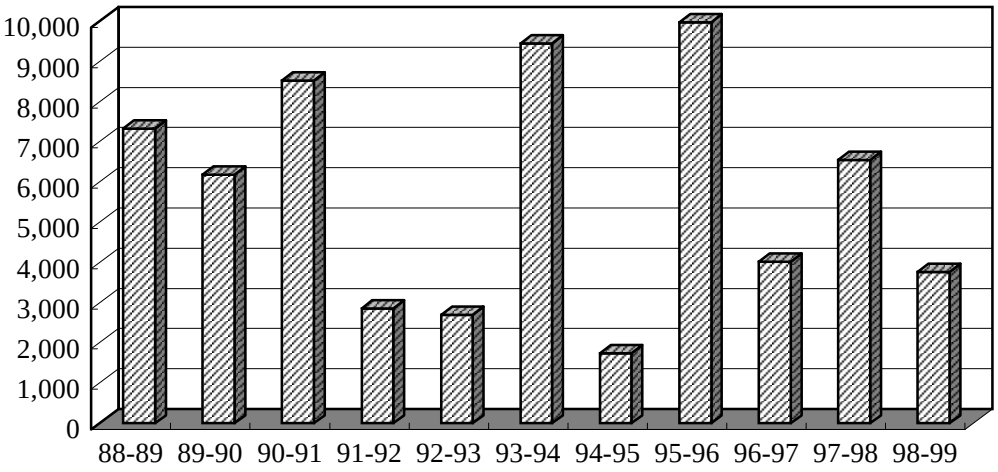
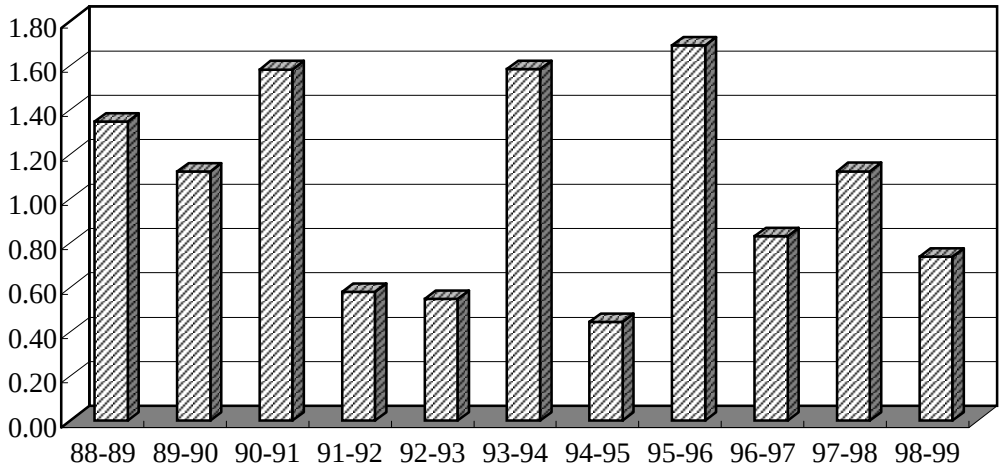


Cultivated Area of Cereals in Morroc (x 1,000ha)



Production of Cereals in Morroc (x 1,000ton)



Yield of Cereals in Morroc (ton/ha)

Source: Resultats des Quatre Principales Cereales, Aout 1999,
Direction de la Programmation et des Affaires Economiques

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V2.1.2** **Trends of Cereal Production in Morocco (1998/89 - 1998/99)**
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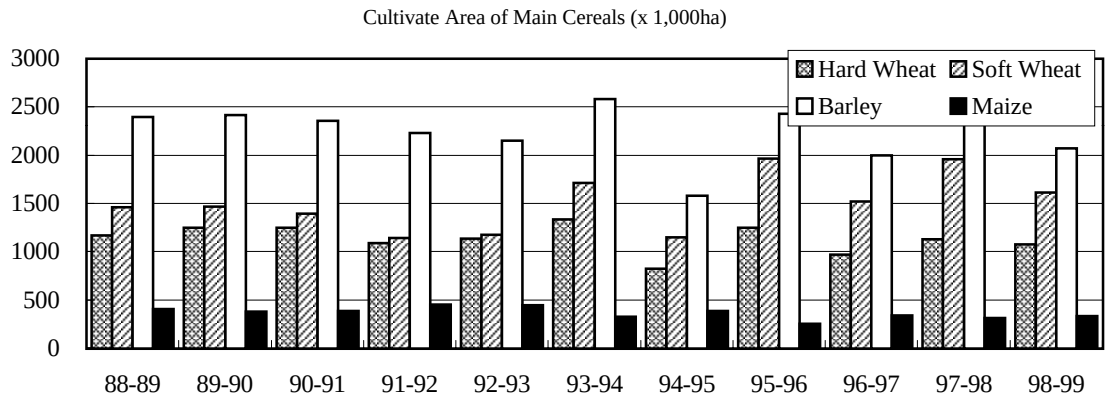

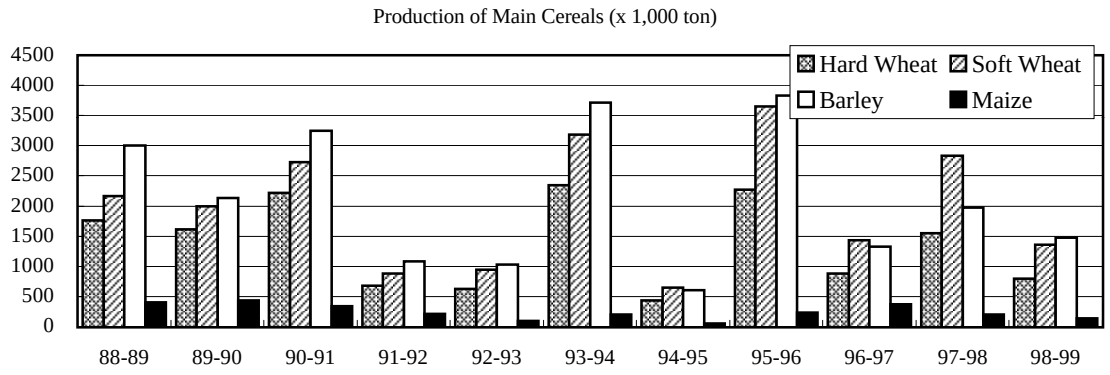

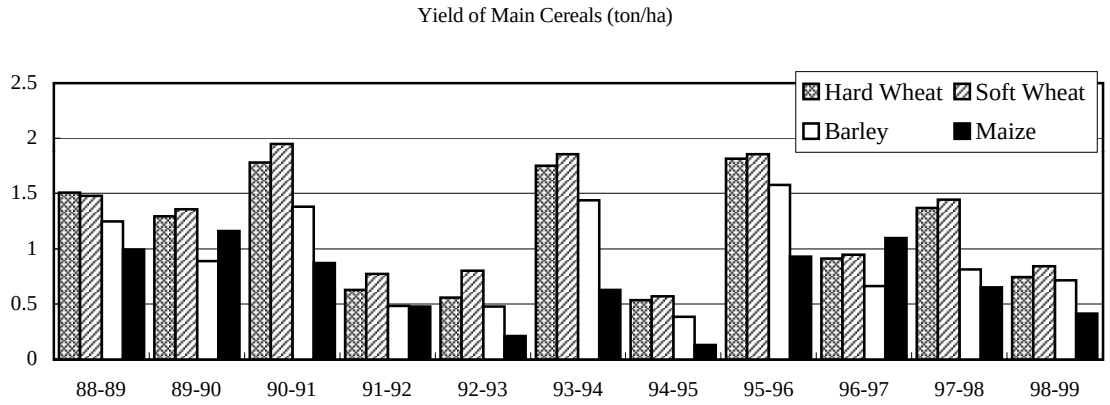

Source: Resultats des Quatre Principales Cereales, Aout 1999,
Direction de la Programmation et des Affaires Economiques

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V2.1.3** **Trends of Production of Main Cereal**
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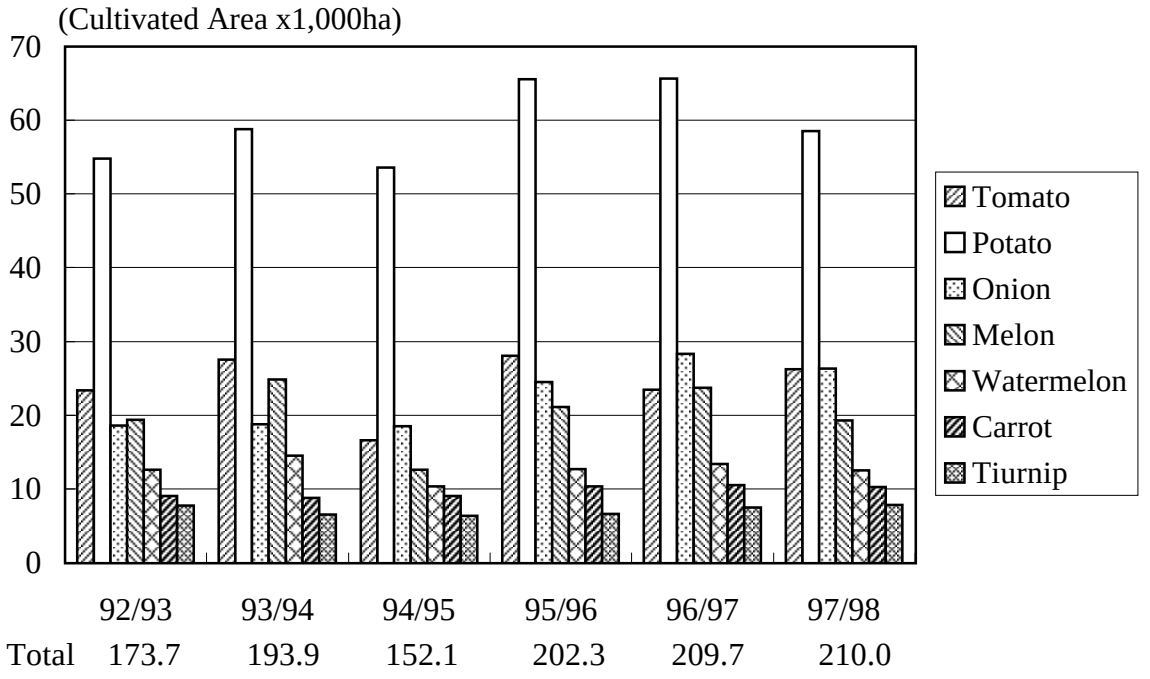

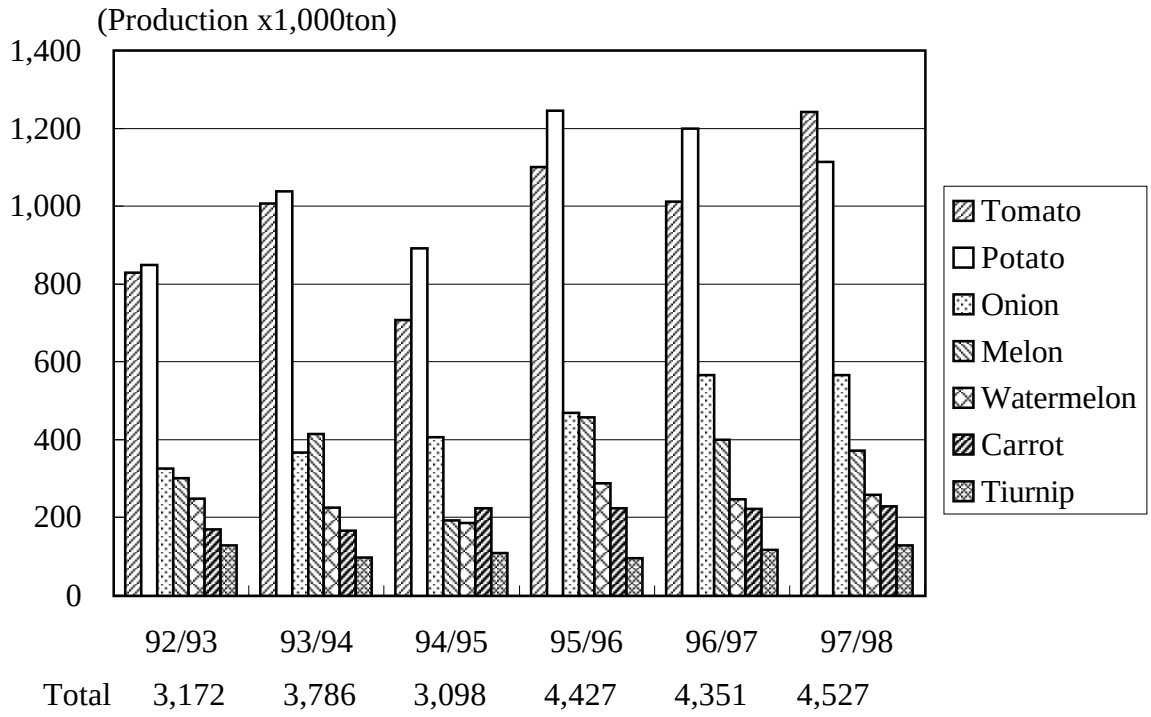

Source: Ministry of Agriculture, Rural Development and Fisheries, Homepage

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V2.1.4** **Trends of Cultivated Area and Production of Vegetables in Morocco (1992/93 - 1997/98)**
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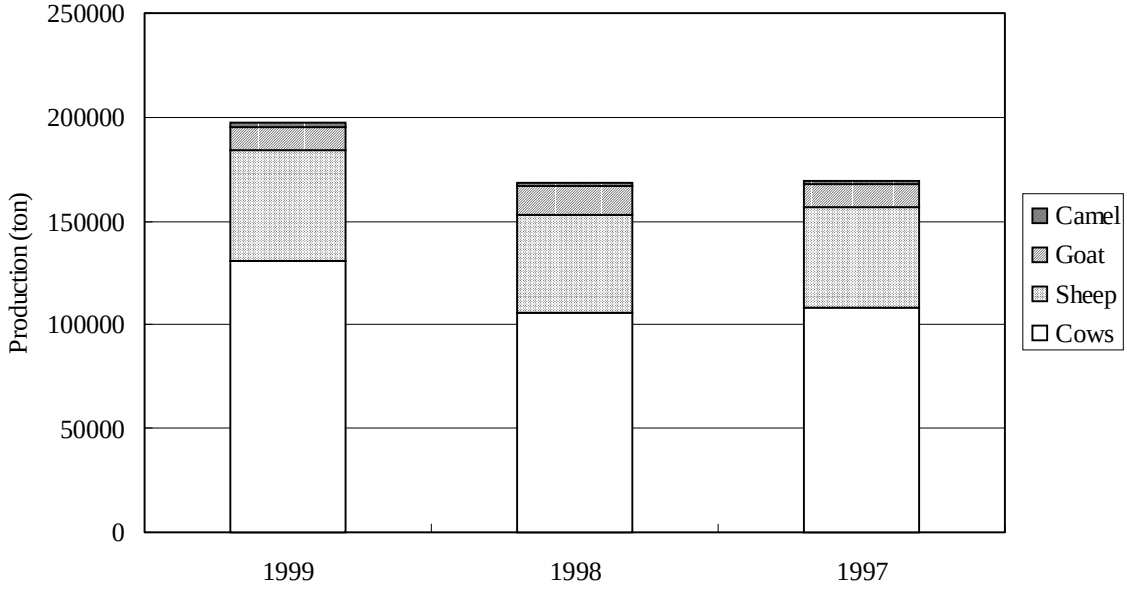
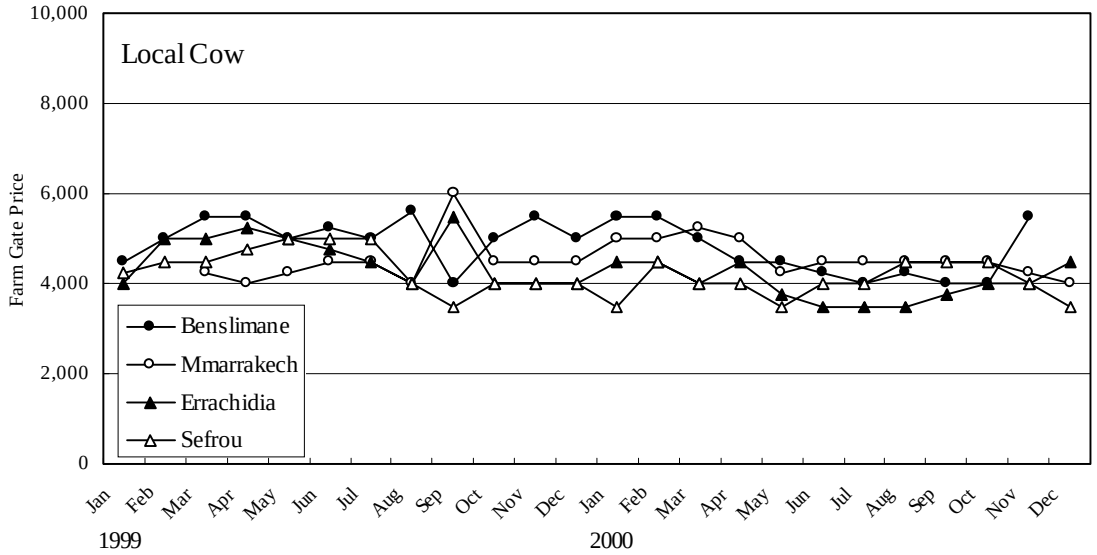
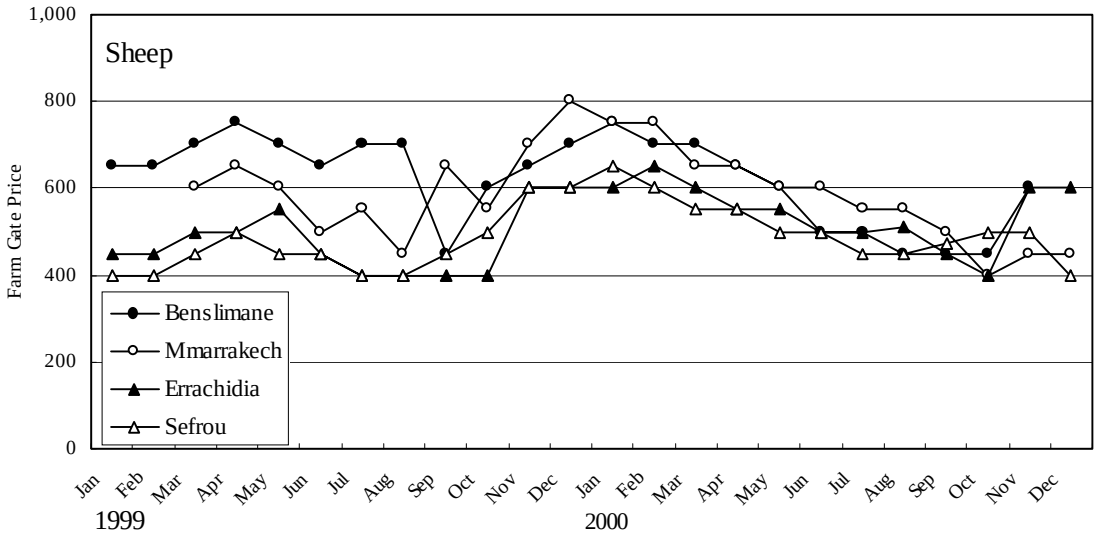


FEASIBILITY STUDY ON WATER RESSOURCES DEVELOPMENT IN RURAL AREA	**Figure V2.1.5** **Meat Production in Morocco**
JAPAN INTERNATIONAL COOPERATION AGENCY	





FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V2.1.6** **Farm Gate Price of Local Cow and Sheep in 4 Provinces**
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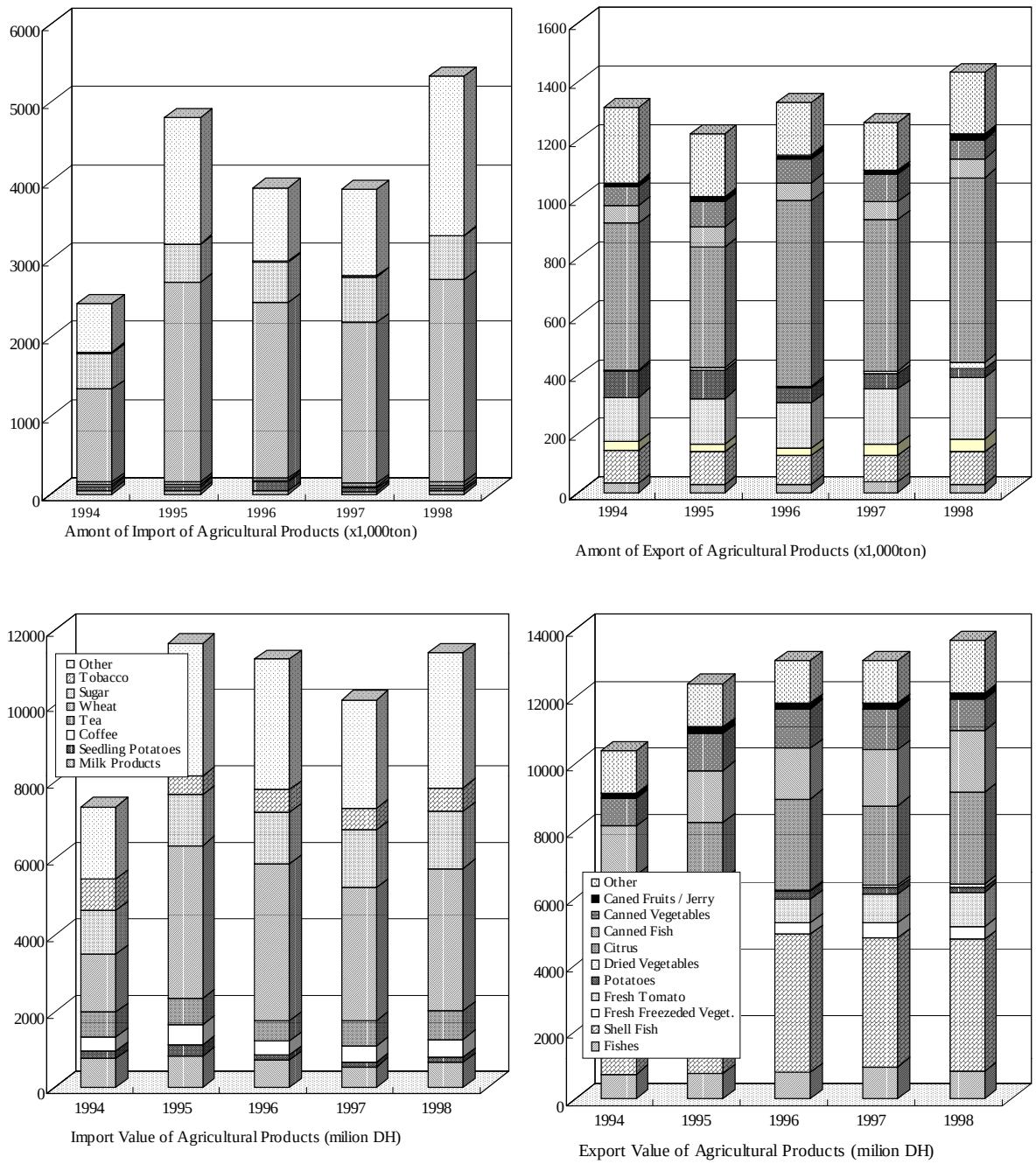
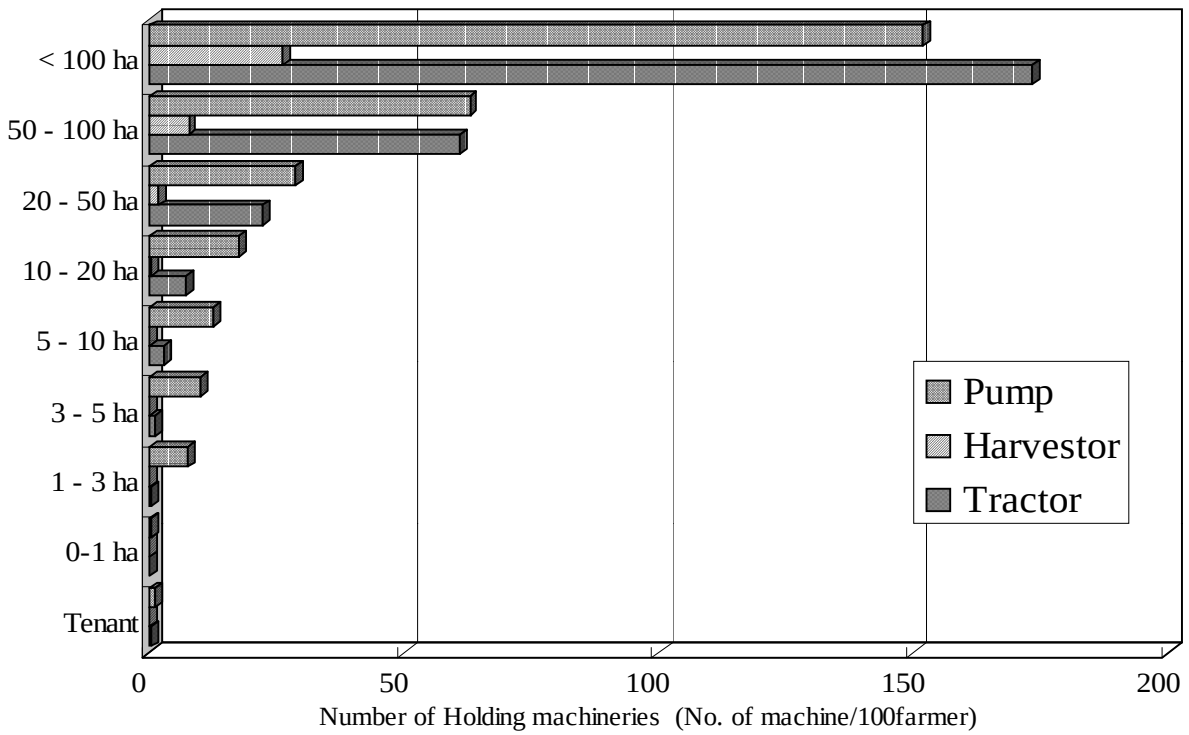


Source: Annuaire Statistique de Maroc 1999, Direction de la Statistique, Ministere de la Prevision Economique et de Plan

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V2.1.7**
JAPAN INTERNATIONAL COOPERATION AGENCY	**The Import and Export of Agricultural Commodities**



	Farmers	Area	Tractor		Harvestor		Pump	
	(No.)	(ha)	(No.)	(%)	(No.)	(%)	(No.)	(%)
Tenant	64,716	0	365	0.84	28	0.74	822	0.59
0-1 ha	315,323	170,361	673	1.56	76	2.02	1527	1.09
1 - 3 ha	466,710	904,728	2190	5.07	187	4.97	36172	25.85
3 - 5 ha	237,669	1,011,088	2840	6.57	177	4.70	24343	17.40
5 - 10 ha	247,766	1,894,722	7028	16.26	391	10.39	31458	22.48
10 - 20 ha	125,169	1,880,472	9098	21.05	572	15.20	22119	15.81
20 - 50 ha	47,985	1,562,298	10740	24.85	893	23.73	13724	9.81
50 - 100 ha	7,829	585,157	4777	11.05	609	16.18	4928	3.52
< 100 ha	3,182	759,397	5515	12.76	830	22.06	4830	3.45
	1,516,349	8,768,223	43,226		3,763		139,923	

Source: Recensement General de l'Agriculture, Resultats Prelimimaires
Ministre de l'Agriculture, du Developpement Rural et des Peches Maritimes, September 1999

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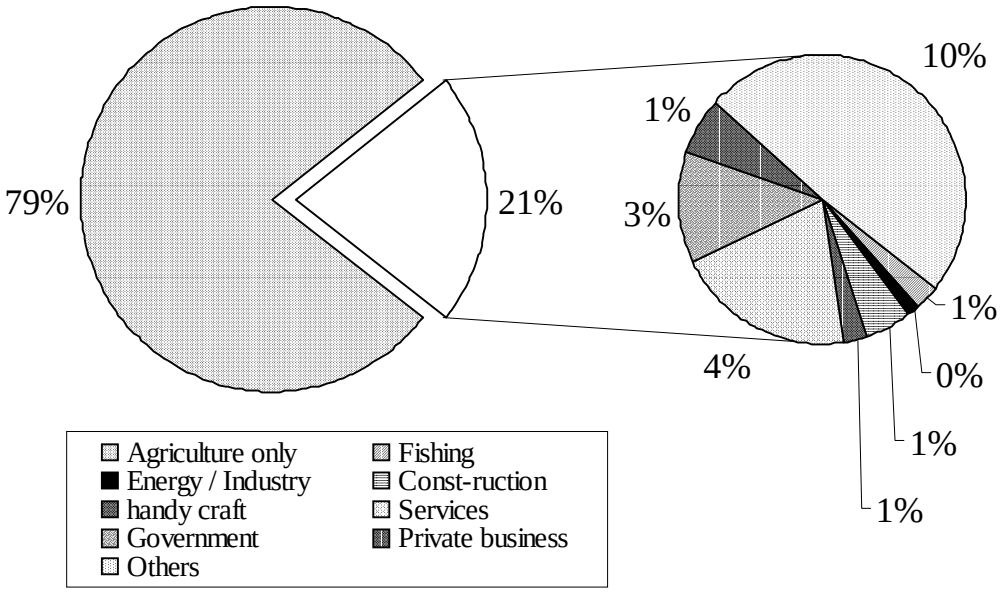
Figure V2.1.8
Introduction of Agricultural Machineries by Size of Land Owner



Source: Recensement General de l'Agriculture, Resultsts par Commune, Ministere de l'Agriculture de Development Rural et des Peches Maritimes, Janivier 2000

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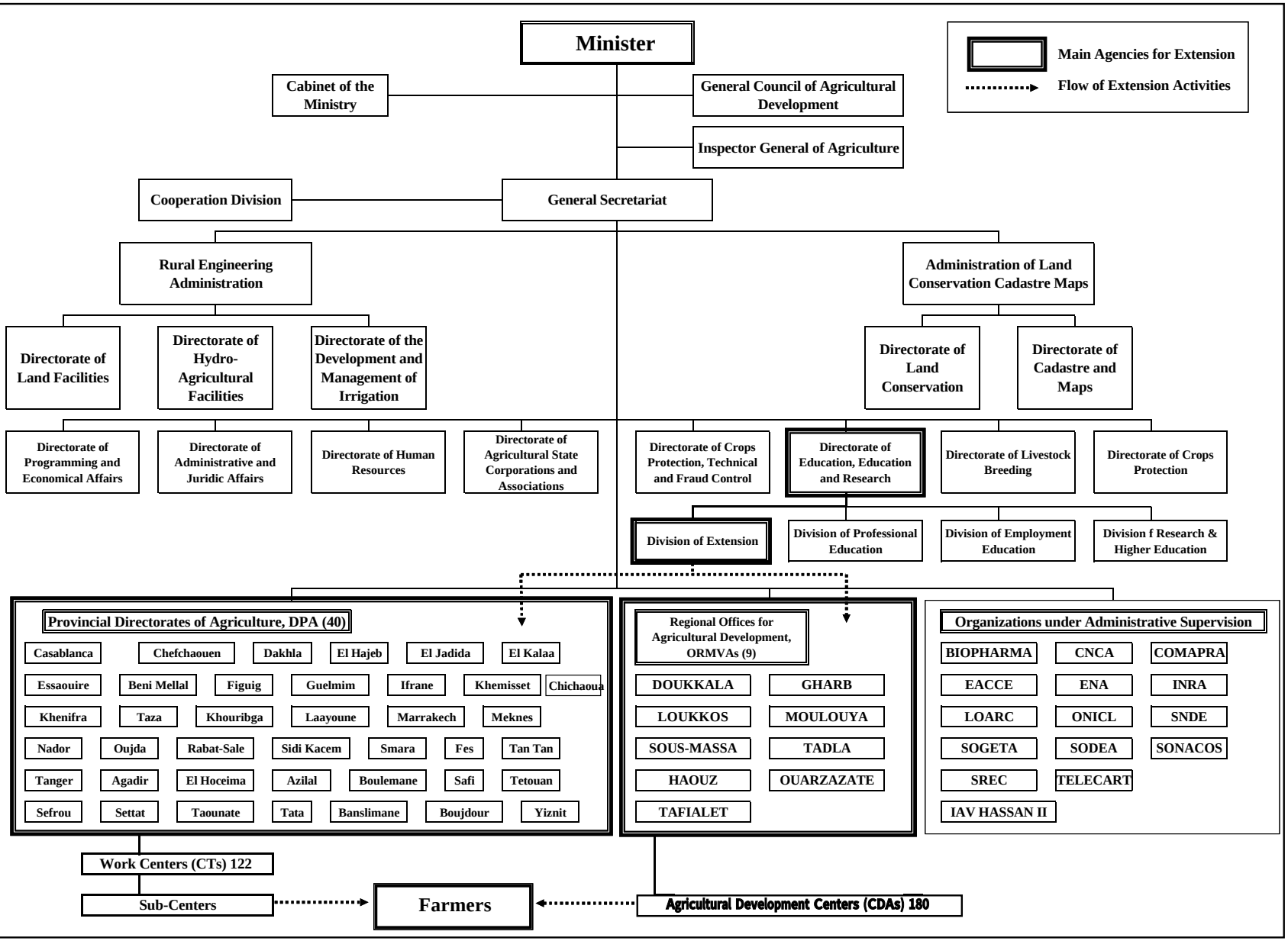

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Figure V3.1.1
Organization Structure of Ministry of Agriculture, Rural Development and Fisheries and Flow Chart of Extension Works

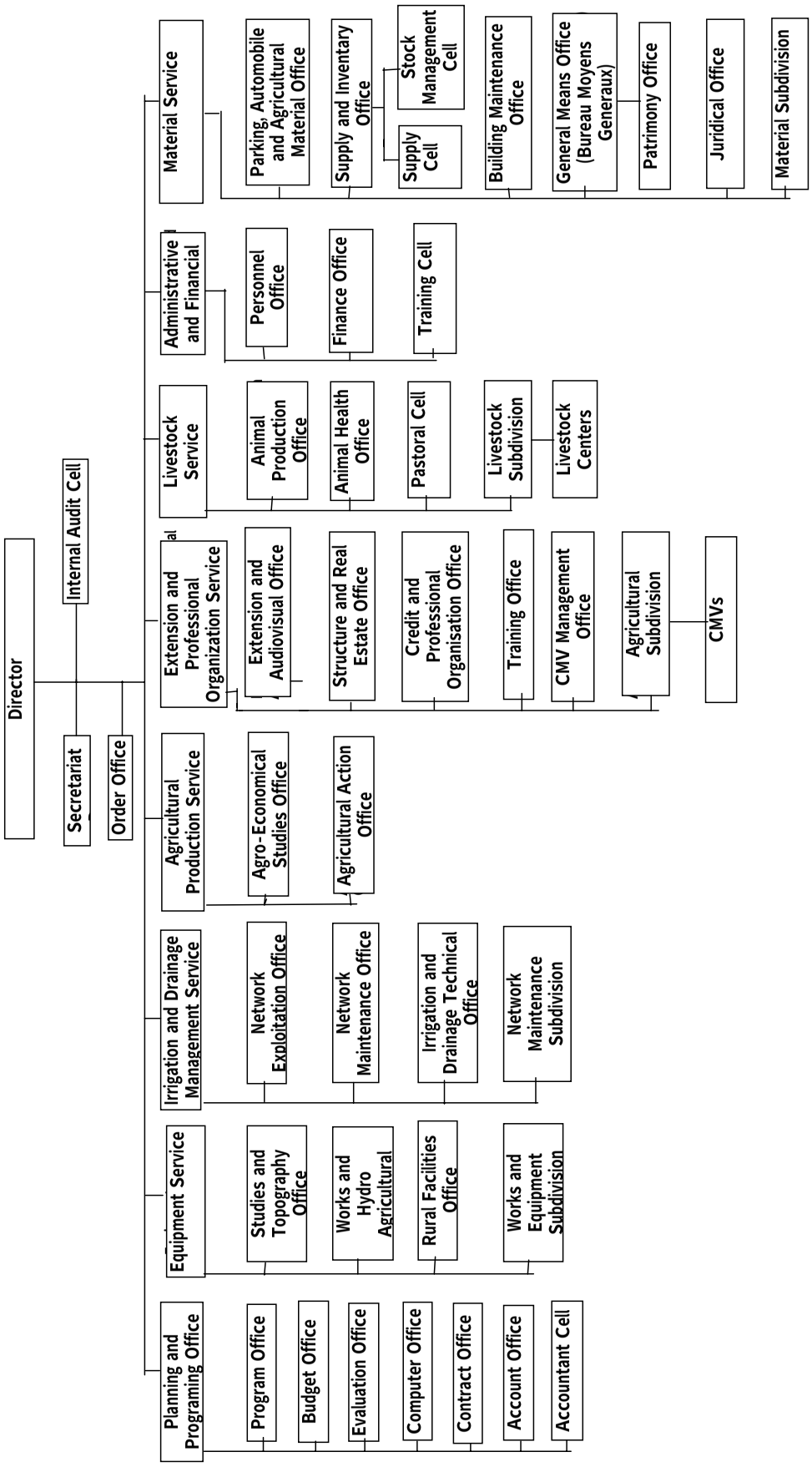

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Figure V3.1.2
Organization Chart of ORMVA

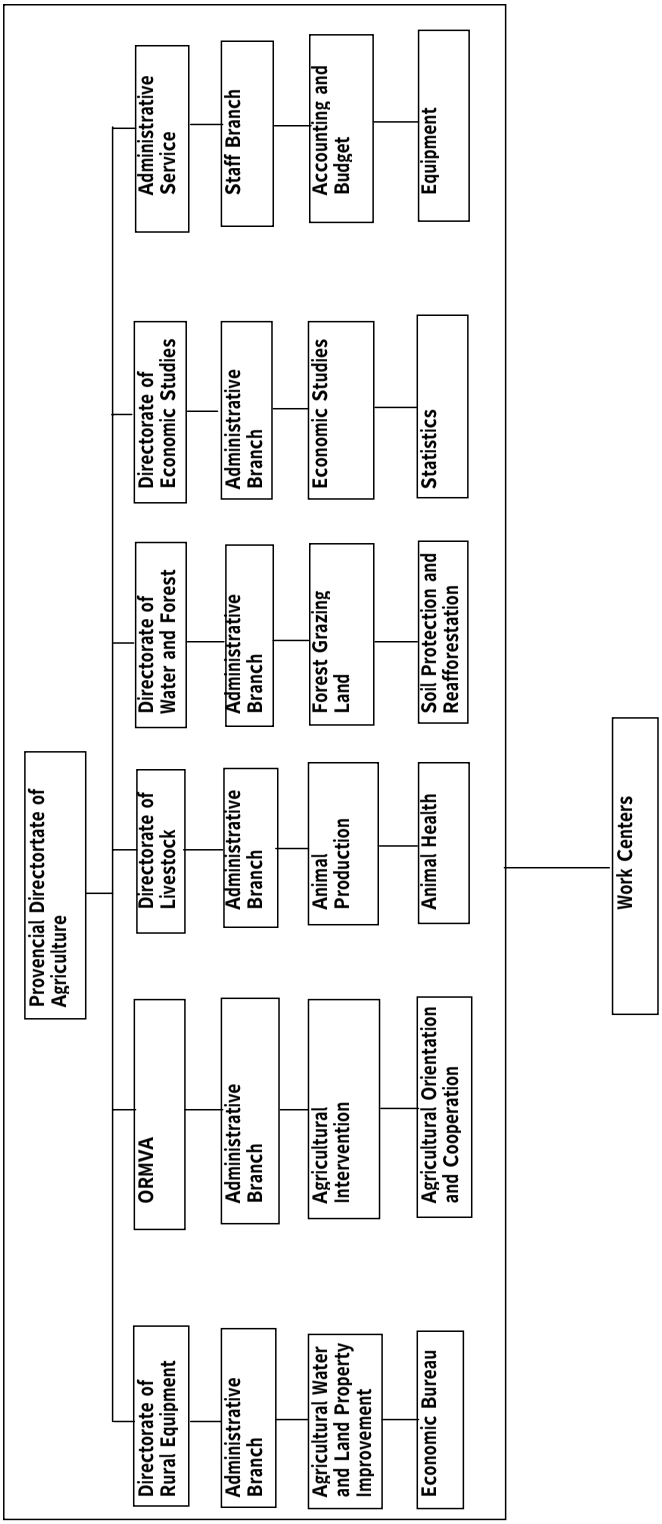

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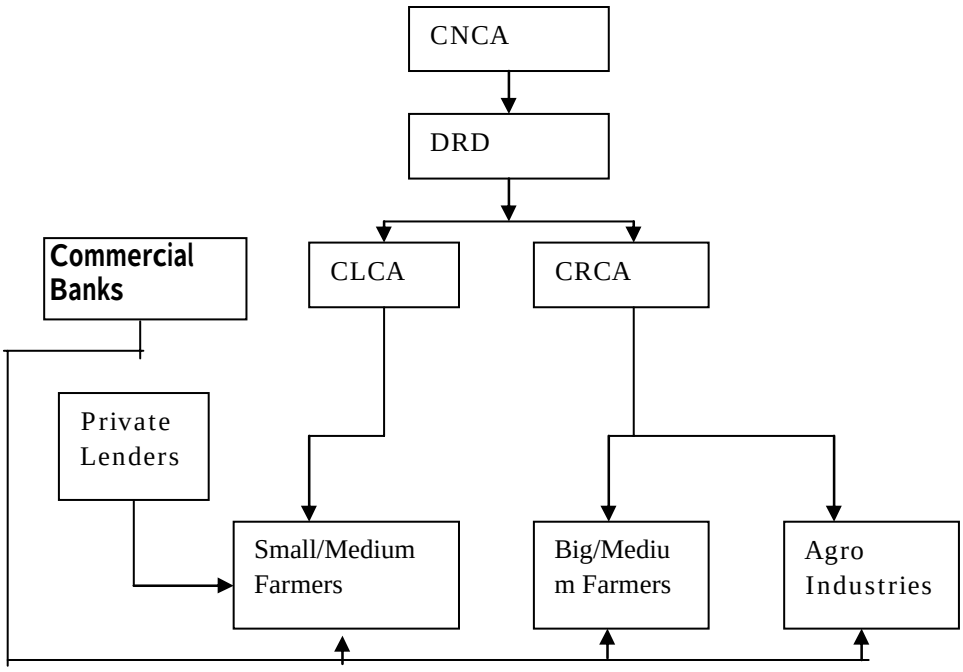
Figure V3.1.3
Organization Chart of DPA



FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V3.6.1** **Distribution Channel of Agricultural Loans**
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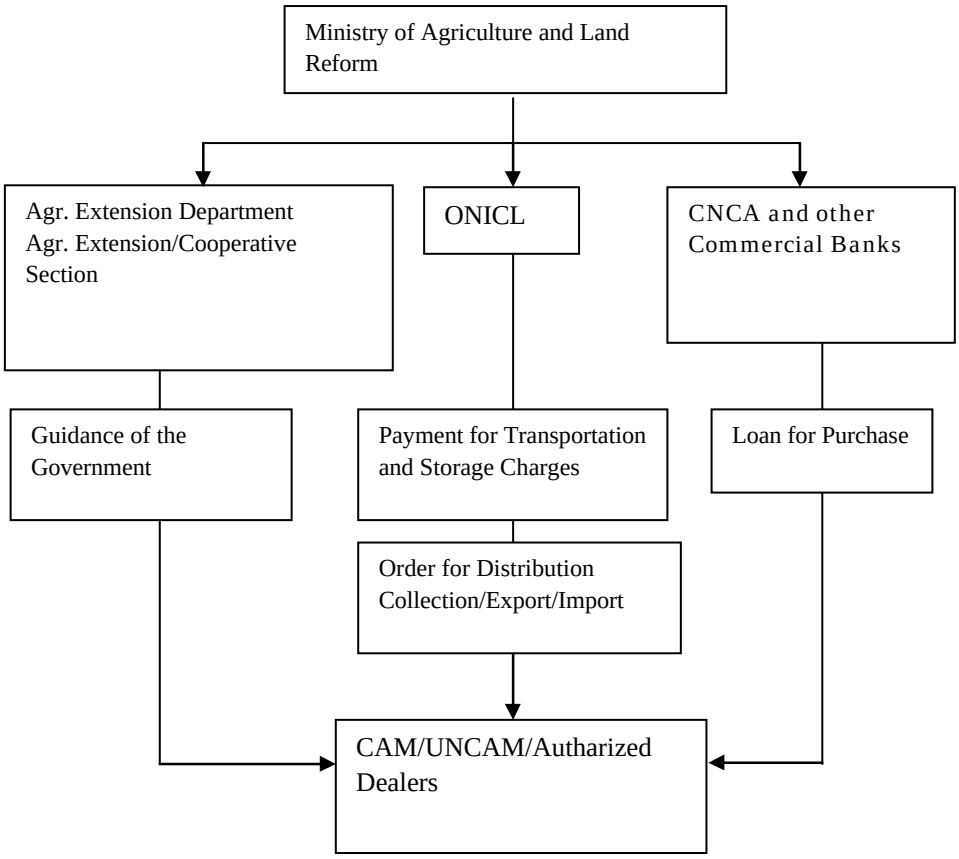

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V3.7.1** **Arrangement for Official Purchase of Cereals**
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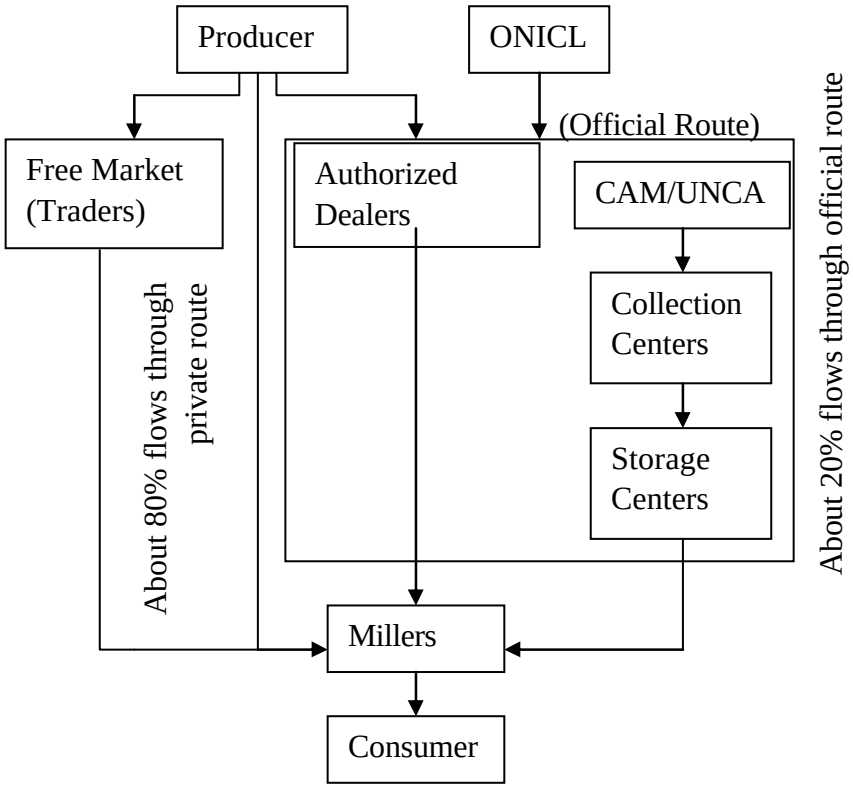
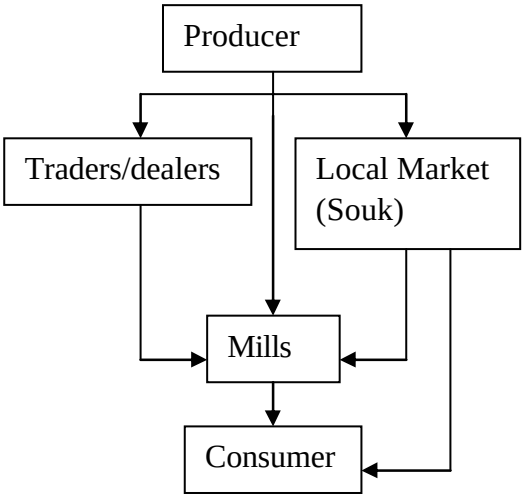
(a) Flow of Soft Quality Wheat



(b) Flow of Other Cereals



FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V3.7.2** **Distribution Channel of Soft Quality Wheat and Other Cereals**
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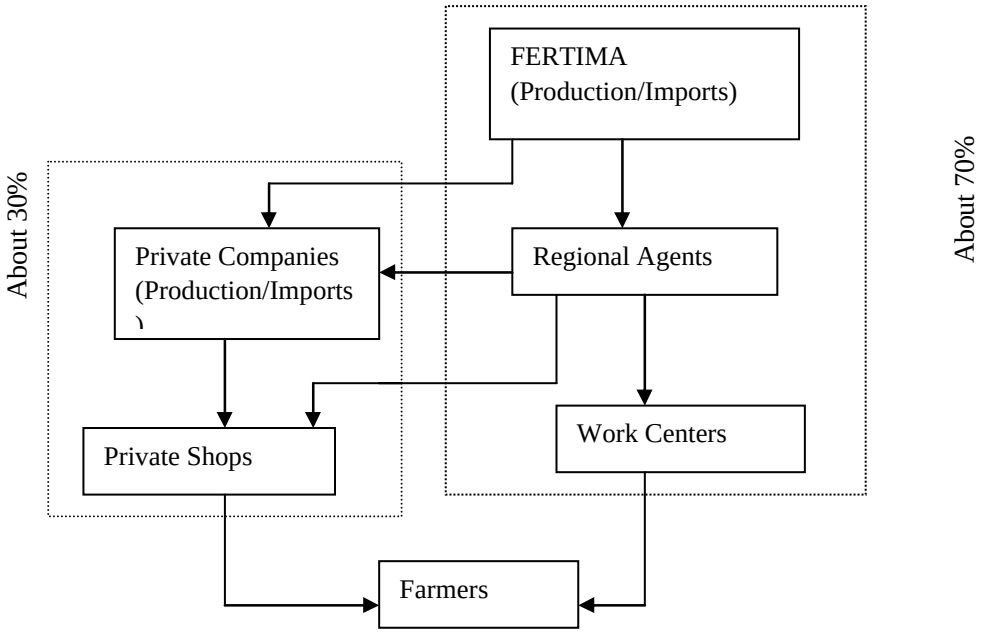

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V3.7.3** **Distribution Channel of Fertilizers**
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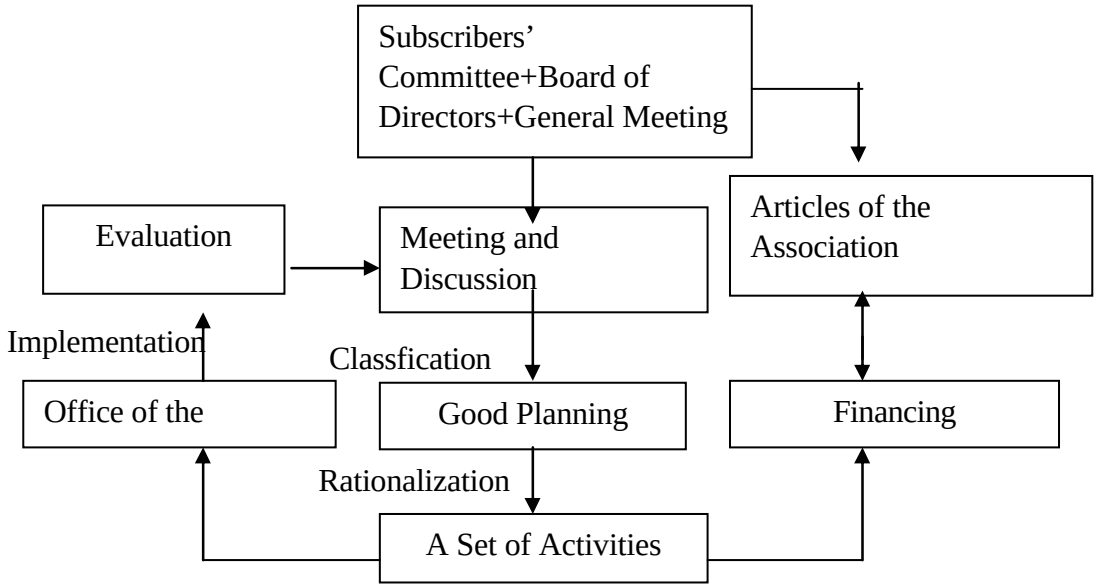

Assignment of a staff member incharge of each activities

Source: UEA, Amezmiz

FEASIBILITY STUDY ON WATER RESOURCES DEVELOPMENT IN RURAL AREA	**Figure V3.8.1** **Management Cycle of Water User's Association**
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