

Table II.1 Demographic Data

## KRATIE

District	Population	Female	Fem. %	Family	Per fam.	Area km <sup>2</sup>	Dens. /km <sup>2</sup>
Prek Prasap	51,931	26,118	50.3	9,166	5.7	1,500	35
Chhlong	44,233	22,777	51.5	7,347	6.0	1,047	42
Sub-total	96,164	48,895	50.8	16,513	5.8	2,547	38
Sambo	35,231	18,348	52.1	6,713	5.2	3,733	9
Kratie	69,603	35,448	50.9	12,534	5.6	2,367	29
Snoul	27,737	13,872	50.0	5,082	5.5	2,447	11
Total	228,735	116,563	51.0	40,842	5.6	11,094	21

Source: Planning Office, Dept. of Agriculture, Kratie, June, 1996

## KAMPONG CHAM

District	Population	Female	Fem. %	Family	Per fam.	Area km <sup>2</sup>	Dens. /km <sup>2</sup>
O Reang Dy	86,362	45,070	52.2	15,432	5.6	520.7	166
Koh Sotin	74,665	38,732	51.9	12,793	5.8	194.3	384
Srey Santhel	99,965	52,838	52.9	16,766	6.0	340.5	294
Kang Meas	88,092	47,681	54.1	15,387	5.7	389.8	226
Kroch Chhmar	89,464	46,812	52.3	14,697	6.1	769.5	116
Tbong Khmum	202,960	104,645	51.6	37,736	5.4	971.3	209
Stung Trang	86,004	43,455	50.5	15,707	5.5	988.2	87
Kampong Seim	95,438	49,652	52.0	16,343	5.8	384.1	249
Prey Chhor	123,294	62,322	50.5	22,618	5.5	421.8	292
Cheung Prey	71,468	37,357	52.3	13,110	5.5	397.8	180
Batheay	84,209	45,234	53.7	14,924	5.6	711.5	118
Kampong Cham	35,680	18,706	52.4	6,214	5.7	3.5	10,194
Sub-total	1,137,601	592,504	52.1	201,727	5.6	6,093.0	187
Dambe	41,789	22,347	53.5	7,567	5.5	602.1	69
Memot	79,556	40,434	50.8	15,487	5.1	1,601.3	50
Ponnea Krek	113,028	58,755	52.0	20,361	5.6	773.7	146
Chamkar Leu	108,791	56,023	51.5	20,267	5.4	728.5	149
Total	1,480,765	770,063	52.0	265,409	5.6	9,798.6	151

Source: Planning Office, Dept. of Agriculture in Kampong Cham prov. May, 1996

## PREY VENG

District	Population	Female	Fem. %	Family	Per fam.	Area km <sup>2</sup>	Dens. /km <sup>2</sup>
Ba Phnom	78,364	40,982	52.3	15,035	5.2	341.6	229
Kamchay Near	73,825	37,555	50.9	14,451	5.1	452.1	163
Kampong Travek	115,764	60,176	52.0	22,226	5.2	506.3	229
Kanh Chreuch	59,315	31,716	53.5	12,098	4.9	318.7	186
Peam Chor	53,432	27,825	52.1	9,651	5.5	396.5	135
Peam Ro	59,038	30,562	51.8	11,181	5.3	186.5	317
Pear Reang	115,836	60,580	52.3	21,978	5.3	559.9	207
Preah Sdech	115,224	60,453	52.5	21,214	5.4	501.5	230
Prey Veng DC	91,388	47,977	52.5	18,214	5.0	494.9	185
Kampong Leay	48,808	25,195	51.6	9,209	5.3	251.2	194
Sithor Kandal	67,636	35,752	52.9	12,853	5.3	307.7	220
Sub-total	878,630	458,773	52.2	168,110	5.2	4,316.9	204
Me Sang	100,381	53,061	52.9	18,758	5.4	392.5	256
Total	979,011	511,834	52.3	186,868	5.2	4,709.4	208

Note: Dotted frames show the study area.

Source: Planning Office, Dept. of Agriculture in Prey Veng province, May, 1996

## KANDAL.

District	Population	Female	Fem. %	Family	Per Fam.	Area kñf	Dens. /kñf
Ksach Kandal	103,353	53,648	51.9	19,193	5.4	353.2	286
Muk Kampoul	67,075	36,365	54.2	12,471	5.4	275.0	239
Lvea Km	59,100	31,288	52.9	14,455	4.1	260.9	225
Kean Svay	115,134	62,654	54.3	21,574	5.3	382.1	308
Saang	155,052	81,609	52.6	28,931	5.4	515.0	301
Leuk Dek	44,900	22,603	50.3	8,219	5.5	372.2	115
Koh Thom	124,786	64,346	51.6	21,947	5.7	503.1	245
Ponhea Lou	80,863	42,430	52.5	14,452	5.6	315.5	259
Ang Snourl	83,135	43,195	52.0	15,601	5.3	296.1	271
Kandal Stung	74,415	40,293	54.1	15,879	4.7	250.6	299
Sub-total	907,813	478,431	52.7	172,722	5.3	3,523.7	256
Takhmau	43,839	21,193	48.3	7,715	5.7	31.8	1,372
Total	951,652	499,624	52.5	180,437	5.3	3,555.5	266

Source: Planning Office, Dept. of Agriculture in Kandal province, June, 1996

## TAKEO

District	Population	Female	Fem. %	Family	Per Fam.	Area kñf	Dens. /kñf
Bati	101,094	51,276	50.7	19,208	5.3	376.0	269
Prey Kabass	79,545	41,959	52.7	14,895	5.3	247.5	321
Angkor Borey	41,762	22,481	53.8	7,576	5.5	216.0	193
Sub-total	222,401	115,716	52.0	41,679	5.3	839.5	265
Samrong	99,316	51,766	52.1	18,567	5.3	330.0	301
Takeo PC	30,072	15,548	51.7	5,026	6.0	113.0	266
Tram Kak	138,452	73,382	53.0	24,949	5.5	539.0	257
Borey Cholasar	21,806	11,642	53.4	3,522	6.2	248.0	88
Treang	94,558	49,903	52.8	17,240	5.5	365.0	259
Koh Andet	44,971	22,835	50.8	8,521	5.3	330.0	136
Kiri Vong	84,892	44,732	52.7	13,418	5.2	618.0	137
Total	736,468	385,524	52.3	135,922	5.4	3,382.5	218

Source: Planning Office, Dept. of Agriculture in Takeo Province, May, 1996

## TOTAL OF 5 PROVINCES

PROVINCE	Population	Female	Fem. %	Family	Per fam.	Area kñf	Dens. /kñf
KRATIE	228,735	116,563	51.0	40,842	5.6	11,094	21
KAMPONG CHAM	1,480,765	770,063	52.0	265,409	5.6	9,798.6	151
PREY VENG	979,011	511,834	52.3	186,868	5.2	4,709.4	208
KANDAL	951,652	499,624	52.5	180,437	5.3	3,555.5	266
TAKEO	736,468	385,524	52.3	135,922	5.4	3,382.5	218
TOTAL	4,376,631	2,283,608	52.2	809,478	5.4	32,540.0	135

## TOTAL IN THE STUDY AREA (sub-total in the tables)

KRATIE	96,164	48,895	50.8	16,513	5.8	2,547	38
KAMPONG CHAM	1,137,601	592,504	52.1	201,727	5.6	6,093.0	187
PREY VENG	878,630	458,773	52.2	168,110	5.2	4,316.9	204
KANDAL	907,813	478,431	52.7	172,722	5.3	3,523.7	256
TAKEO	222,401	115,716	52.0	41,679	5.3	839.5	265
TOTAL	3,242,609	1,694,319	52.3	600,751	5.4	17,320.1	187

Note: Phnom Penh city is excluded.

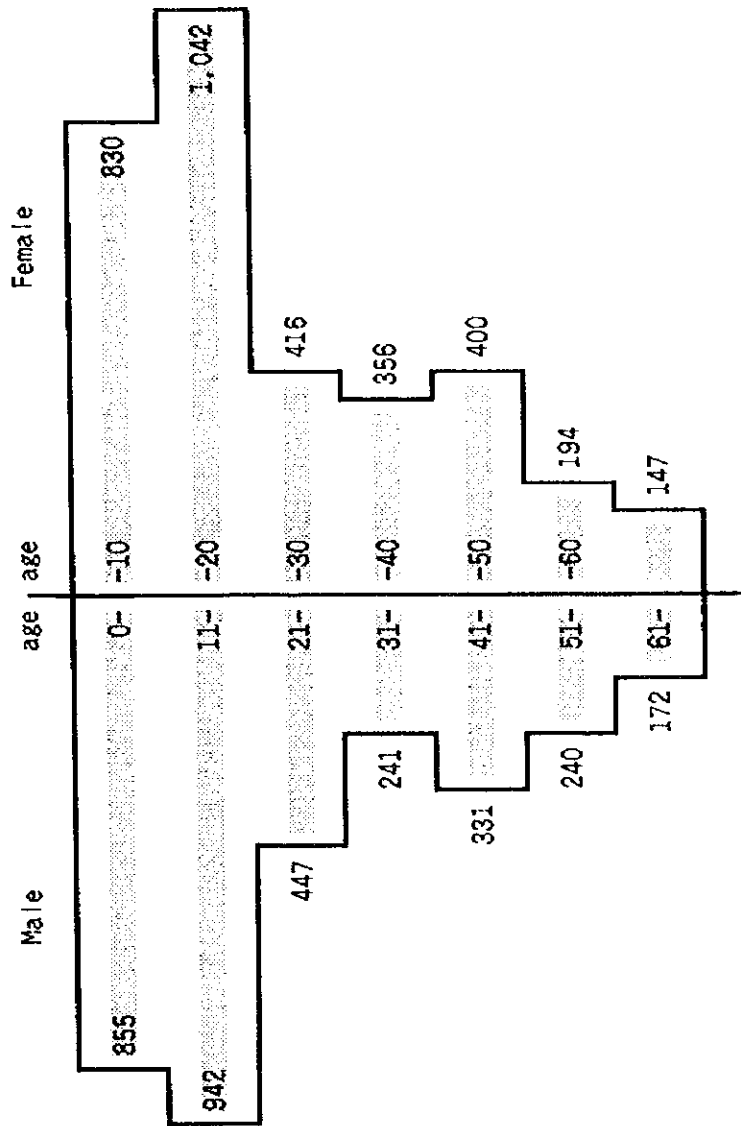


Fig. H.1 AGE DISTRIBUTION IN 1,000 HOUSEHOLDS

Table II.2 Administrative Division

KRATIE

District	Commune	Village
Prek Prasap	8	48
Chhlong	8	40
Sub-total	16	88
Sambo	10	52
Kratie	14	74
Snoul	5	29
Total	45	243

KAMPONG CHAM

O Reang Ov	8	141
Koh Sotin	8	85
Srey Santhel	14	86
Kang Meas	11	93
Kroch Chhmar	12	72
Tbong Khum	22	323
Stung Trang	14	74
Kampong Seim	15	111
Prey Chhor	15	176
Cheung Prey	10	74
Batheay	12	79
Kampong Cham	4	31
Sub-total	145	1,345
Dambe	7	63
Memot	18	175
Ponnea Krek	9	142
Chamkar Leu	13	86
Total	192	1,811

PREY VENG

Ba Phnom	9	108
Kamchay Ngar	8	128
Kampong Travok	13	122
Kanh Chreuch	8	99
Peam Chor	10	51
Peam Ro	8	41
Pear Reang	11	84
Preah Sdech	11	145
Prey Veng DC	11	138
Kampong Leav	8	42
Sithor Kandal	11	60
Sub-total	108	1,018
Mesang	8	118
Total	116	1,136

KANDAL

District	Commune	Village
Ksach Kandal	18	95
Muk Kampoul	9	47
Lvea Ee	15	43
Kean Svay	12	44
Saang	16	117
Leuk Dek	7	24
Koh Thom	11	92
Ponhea Leu	14	140
Ang Snouri	16	307
Kandal Stung	23	155
Sub-total	141	1,064
Takhmau	6	19
Total	147	1,083

TAKEO

Bati	15	168
Prey Kabass	13	110
Angkor Borey	6	34
Sub-total	34	312
Samrong	11	147
Takeo PC	3	40
Tram Kak	14	243
Borey Cholasar	5	38
Treang	14	153
Koh Andet	6	68
Kiri Vong	12	114
Total	99	1,115

Note: Districts in the dotted table are within the study area.  
Source: Five provincial offices

**RURAL SOCIO-ECONOMIC SURVEY**

Farm No. \_\_\_\_\_, Interviewer \_\_\_\_\_, Interviewed date \_\_\_\_/\_\_\_\_/1996

Administration : District \_\_\_\_\_, Commune \_\_\_\_\_, Village \_\_\_\_\_

**I. RURAL SOCIETY****1. PLANNER OF VILLAGE DEVELOPMENT**

- a. Village chief      b. Officer of Agri. Dep't      c. Officer of Rural Development. Dep't  
d. Foreign donor      e. Village Development Committee (VDC)      f. Others, please specify ( )

**2. FARMER'S ORGANIZATION**

(1) What kind of organization do you join now?

- a. Agricultural Cooperative      b. Water Users' Group      c. Rice Bank      d. Others, please specify ( )

(2) What kind of organization do you want in future?

- a. Agricultural Cooperative      b. Water Users' Group      c. Rice Bank      d. Others, please specify ( )

**3. CUSTOM FOR MUTUAL HELP OF FARM LABOR**

Yes, No

**4. WHAT DO YOU WANT THROUGH THIS PROJECT ?**

- a. Irrigation facility      b. Drainage facility      c. Village to village road      d. Farm road  
e. Domestic water system      f. Electrification      g. Post-harvest facility      h. Medical facility  
i. Sanitary facility      j. School      k. Others, please specify ( )

**II. HOUSEHOLD****1. NUMBER OF FAMILY**

Total ( )

	Man1	Man2	Man3	Man4	Man5	Woman1	Woman2	Woman3	Woman4	Woman5
Age										
Farming labor										
Fishing labor										
Literacy										

**2. OCCUPATION OF HOUSEHOLDER**

- a. Farmer      b. Fisherman      c. Farmer cum fisherman      d. Others, please specify ( )

**3. INCOME**

Agricultural income ( Riels/annum)

Fishery income ( Riels/annum)

Non-Agri. &amp; Non-Fishery income ( Riels/annum)

----&gt; What is the other source of income? (Permanent, ), (Temporary, )

**4. SPENDING**

( Riels/month/family)

**5. DOES SOMEONE IN YOUR FAMILY WORK AWAY FROM HOME?**

(How many and where? Job : )

**6. DAILY FUEL AND COOKING HEAT**

- a. Firewood      b. Charcoal      c. Gas cylinder      d. Coke      e. Others, please specify ( )

**7. DRINKING WATER**

- a. Pond      b. River      c. Well      d. Tube-well      e. Rainfall      f. Others, please specify ( )

**8. ELECTRICITY**

- a. Power line      b. Group generator      c. Personal generator      d. Car battery      e. None  
f. Others, please specify ( )

9. ROLES OF WOMEN

							Total Hours (                  hrs.)	
Cooking	Child care	Fetching water	Cleaning house	Washing clothes	Farm practices	Cottage industries		
hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.

**III. AGRICULTURE**

1. FARMLAND HOLDING     Do you hold the land title?    Yes   ,   No   --->if Yes, how many? (                  )ha

2. PADDY FIELD

(1) Planted area                                  Wet season (                  )ha   ,   Dry season (                  )ha

(2) For what do you cultivate rice ?

a. For home consumption    b. For selling    c. For both    d. Is rice production enough?                  Yes   ,   No

3. CROPPING PATTERN AND YIELD OF RICE

Type	1	2	3	4	5	6	7	8	9	10	11	12	Yield(ton)
Dry													
Wet													
Others													

4. MAJOR VARIETIES OF RICE                  (Dry:                                  ,Wet:                                  ,Others                                  )

5. RICE SEED

a. Self    b. Dep't of Agronomy (Unit Price:                  Riels / kg)    c. Others, please specify (                  )

6. IRRIGATION FACILITIES

(1) What kind of irrigation facilities do you use ?

a. Colmatage canal                                  b. Pol pot canal                                  c. Reservoir                                  d. Mobile pump  
e. Others, please specify (                                  )    f. None (only rain)

(2) If you use communal canal, how do you operate and maintain it?

a. By yourself.    b. By irrigation association.    c. Others, please specify (                                  )    d. None

7. PLANTED AREA AND PRODUCTION OF OTHER CROPS

Crop name													
Planted Area (ha)													
Production (ton)													
Major Variety													
Season (Dry,Wet)													

8. CROPPING PATTERNS OF FOUR MAJOR CROPS

Crop	1	2	3	4	5	6	7	8	9	10	11	12

9. FARM MACHINES

(1)Plowing                  a. Cattle                  b. Carabao                  c. 2-wheel tractor                  d. 4-wheel tractor                  e. None

(2)Harrowing                  a. Cattle                  b. Carabao                  c. 2-wheel tractor                  d. 4-wheel tractor                  e. None

(3)Puddling                  a. Cattle                  b. Carabao                  c. 2-wheel tractor                  d. 4-wheel tractor                  e. None

(4)Threshing

a. Animal, please specify (                                  ,                                  head)                  b. Threshing machine                  c. Beating  
d. Other, please specify (                                  )

- (5) Rice mill a. Pounding b. Communal mill c. Private mill d. Other, please specify ( )  
 (6) Other machines you have, please specify ( )

**10. FERTILIZER AND AGRICULTURAL CHEMICALS**

- (1) Do you use manure? Yes , No  
 (2) Do you use fertilizer? a. Yes, please specify the kind.( ) b. No  
 (3) Do you use agricultural chemicals? a. Yes, please specify the kind.( ) b. No

**11. FARMGATE PRICE**

Item	Paddy	Maize	Mungbean	Tobacco	Tomato	Cassava	Cucumber
Price (Riels/kg)							
Item	Groundnut	Sugarcane	Sweet Potato	Mango	Banana	Sesame	Tamarind
Price (Riels/kg)							
Item	Cattle	Carabao	Pig	Chicken	Duck	Hired labor	Fish
Price (R/ )							
Item	Urea	TSP	Potassium	16-20-0	Manure	Pomelo	Lime
Price (R/sack)							

Unit of Hired labor : Riels / man-day TSP : Triple Super Phosphate

**12. FUTURE PLAN**

- (1) What kind of crops do you favor to cultivate in the near future ? ( )  
 (2) What cropping pattern do you favor to employ in the near future ?  
 a. Rice - Rice b. Rice - Maize  
 c. Rice - Diversified Crops, please specify ( )  
 d. Vegetables, please specify ( )  
 e. Fruit trees, please specify ( )  
 f. Rice + Animal, please specify ( )  
 g. Agro-forestry crop and tree, please specify ( )  
 h. Others, please specify ( )

**13. INFORMATION ABOUT MARKETING PRACTICES**

- (1) To whom do you usually sell your farm products ?

Item	Home Consumption	Middlemen	Local traders	Wholesalers	WFP/NGO	Direct to consumers	Others ( )
Rice	%	%	%	%	%	%	%
Maize	%	%	%	%	%	%	%
	%	%	%	%	%	%	%
	%	%	%	%	%	%	%
	%	%	%	%	%	%	%

- (2) What kind of transportation do you usually use for your farm products marketing?  
 a. Manual b. Oxen cart c. Bicycle d. Motor-cycle e. Motor-cycle with cart  
 f. Hired car g. Others, please specify ( )  
 (3) What is your problem about marketing? ( )

**14. INFORMATION ABOUT AGRICULTURAL SUPPORTING SERVICES**

- (1) Who provides guidance in your farming operation ?  
 a. Provincial/District Extension Officer b. MAFF Advisor c. NGOs  
 d. Others, please specify ( )

(2) Are you satisfied with the services provided by the above mentioned staff?

a. Yes b. No If No, why? ( )

**15. INFORMATION ABOUT PRODUCTION CREDIT**

(1) Are you a self-financed farmer? Yes , No ---> if No, what are sources of your farm credit?

a. Land Bank b. Rural Bank c. Local Government d. Agricultural Cooperative e. Relatives  
f. Neighbors g. Others, please specify ( )

**16. INFORMATION ABOUT POST-HARVEST / PROCESSING**

(1)What kind of post-harvest facilities are there in your village?

a. Rice mill b. Dryer c. Storehouse d. Others, please specify ( )

(2)What kind of post-harvest facilities do you want in your village?

a. Rice mill b. Dryer c. Storehouse d. Others, please specify ( )

(3)What kind of processing facilities are there in your village?

a. Vegetable processing facilities b. Fruit processing facilities c. Noodle processing facilities  
d. Fish processing facilities e. Handicraft facilities f. Others, please specify ( )

**17. THE MOST SERIOUS PROBLEM OF YOUR FARMING**

a. Lack of irrigation water b. Drainage c. Diseases d. Pests e. Credit f. Transportation g. Marketing  
h. Lack of agricultural material i. Others, please specify ( )

**IV. OTHERS**

**1. ANIMALS**

(1)What and how many animals are you raising now?

a. Carabao ( ) b. Cattle ( ) c. Goat ( ) d. Swine ( )  
e. Chicken for meat ( ) f. Chicken for egg ( ) g. Bee keeping ( )  
h. Others, please specify ( )

**2. FISHERIES**

(1)Do you usually catch fish?

a. Yes, for family consumption. b. Yes, for selling. c. Yes, for both purposes. d. No.

(2)Do you have a fishing boat? Yes, (How many? ) No

(3)What type of fishing gear do you use?

a. Cast net b. Drive-in net c. Fishing rod d. Fishing basket e. Others, please specify ( )

(4)What kind of fish do you catch?

a. Carp b. Tilapia c. Snakehead d. Catfish e. Prawn f. Others, please specify ( )

(5)When do you catch fish?

	1	2	3	4	5	6	7	8	9	10	11	12

(6)Where do you fish?

a. Colmatage canal b. Pol pot canal c. River d. Reservoir e. Others, please specify ( )

(7)Do you have any problems with fishery?

Yes, please specify ( ), No

(8)Do you have fishing permit?

Yes, ---> how do you get it? ( ), No



Table H.3 STATISTICS ON BASIC EDUCATION IN THE STUDY AREA

KAMPONG CHAM Primary school	Schools	Class rooms	Teachers	Students	Girls	Girl %	Std./ Room	Std/ Tch.	Drop outs Total	Drop outs Female	Drop %	Rooms needed
Oreang Ov	30	203	246	12,855	5,590	43.5	64	60	278	235	2.2	
Koh Sotin	32	231	286	15,762	7,049	44.7	69	63	18	6	0.1	
Srey Santhel	39	312	452	17,502	8,212	46.9	57	43	299	98	1.7	
Kang Meas	40	311	450	14,714	6,583	44.7	48	36	408	200	2.8	
Kroch Chhmar	36	192	239	12,341	4,659	37.8	65	61	480	53	3.9	
Tbong Khmum	71	409	549	26,583	11,543	43.4	65	56	-	-	-	
Stung Trang	36	204	251	12,767	5,891	46.1	63	60	352	155	2.8	
Kampong Seim	41	286	529	18,909	8,578	45.4	67	39	754	345	4.0	
Prey Chhor	57	360	552	24,101	11,090	46.0	67	49	449	205	1.9	
Cheung Prey	38	259	307	12,123	5,202	42.9	47	46	555	257	4.5	
Batheay Cham	37	237	326	14,221	5,458	38.4	61	50	805	414	5.7	
Dambe	8	93	178	6,689	3,023	45.2	72	40	211	73	3.1	
Memot	33	93	116	5,125	2,14	4.2	56	62	397	169	7.7	
Ponnea Krek	61	193	191	10,958	3,698	33.7	57	85	1,250	564	11.4	
Chamkar Leu	50	245	274	15,597	6,554	42.0	64	48	1,289	191	1.8	
	46	261	302	18,084	7,862	43.5	70	71	193	117	1.1	
Total	656	3,889	5,248	238,331	101,206	42.5	62	52	6,738	3,082	3.2	
<b>Secondary sch.</b>												
Oreang Ov	2	25	70	1,493		32.8	60	22	149		10.0	35
Koh Sotin	2	36	69	1,358		37.1	38	21	180		13.3	33
Srey Santhel	3	39	139	1,927		41.1	50	15	44		2.3	53
Kang Meas	2	29	130	1,174		38.5	41	10	48		4.1	30
Kroch Chhmar	2	21	37	885		37.5	43	26	5		0.6	20
Tbong Khmum	3	28	89	1,496		38.8	54	18	54		3.6	37
Stung Trang	3	28	77	1,411		42.2	51	18	16		1.1	32
Kampong Seim	3	71	262	3,301		41.0	47	13	307		9.3	85
Prey Chhor	2	32	114	1,697		41.0	54	16	3		0.2	46
Cheung Prey	1	8	29	490		30.0	62	18	0		0	13
Batheay Cham	3	44	135	1,273		36.4	29	10	32		2.5	33
Kampong Cham	0	0	0	0		0	0	0	0		0	0
Dambe	1	5	11	141		27.7	29	15	15		10.6	4
Memot	1	12	40	706		37.7	59	19	0		0	14
Ponnea Krek	3	20	46	1,007		29.0	51	24	80		7.9	21
Chamkar Leu	2	27	76	1,155		43.9	43	16	98		8.5	26
Total	33	425	1,324	19,514		38.6	46	16	1,031		5.3	482

Sources: Department of Education, KAMPONG CHAM Province, number of students per a room and per a teacher, and drop-out rate were calculated by the study team.

KAMPONG CAHM High school	Schools	Class rooms	Teachers	Students	Girls	Girl %	Std./ Room	Std/ Tch.	Drop outs	Drop %	Rooms needed	Need of rehabl.
Oreang Ov	0	0	0	0		0	0	0	0	0	0	0
Koh Sotin	1	24	89	1,957		35.1	82	23	182	9.3	47	23
Srey Santhel	1	29	123	1,726		41.3	60	15	38	2.2	42	13
Kang Meas	1	32	104	1,686		44.2	53	17	114	6.8	37	5
Kroch Chhmar	1	24	62	1,165		41.7	49	20	0	0	31	7
Tbong Khmum	1	38	145	2,655		34.7	70	19	7	0.3	76	36
Stung Trang	0	0	0	0		0	0	0	0	0	0	0
Kampong Seim	0	0	0	0		0	0	0	0	0	0	0
Prey Chhor	1	23	147	1,884		37.0	82	13	0	0	46	23
Cheung Prey	1	27	90	1,192		25.5	45	14	17	1.4	29	10
Batheay	0	0	0	0		0	0	0	0	0	0	0
Kampong Cham	2	81	380	5,951		39.4	74	16	257	4.3	140	59
Dambe	0	0	0	0		0	0	0	0	0	0	0
Memot	0	0	0	0		0	0	0	0	0	0	0
Ponnea Krek	1	10	23	570		26.1	57	26	117	20.5	13	3
Chamkar Leu	1	15	52	1,230		36.8	82	25	89	7.2	28	13
Total	11	303	1,215	20,016		37.7	67	17	821	4.1	489	192

Source: Department of Education, KAMPONG CHAM Province

KRATIE Primary school	Schools	Class rooms	Teachers	Students	Girls	Girl %	Std./ room	Std/ tch.	Drop outs	Drop %	Rooms needed	Rehabil. needed
Whole province	190	816	1,055	41,367			51	48				
Secondary sch.												
Whole province	11	100	413	3,796			38	10				
High school												
Whole province	2	22	158	1,659			76	11				

Source: Ministry of Education

PREY VENG	Schools	Class rooms	Teachers	Students	Girls	Girl %	Std/ Room	Std/ Tch.	Drop outs	Drop %	Rooms needed	Need rehb	Plan
Primary school													
Ba Phnom	38	246	451	14,096	6,061	43.0	58	35	155	1.1	389	35	190
Kamchay Mear	32	251	269	12,036	4,930	41.0	48	53	130	1.1	257	10	55
Kampong Travek	43	321	449	19,593	8,913	45.5	62	49	1,540	7.9	412	43	190
Kanh Chreuch	32	190	269	11,284	5,100	45.2	60	48	215	1.9	260	52	112
Peam Chor	32	123	208	7,444	3,043	40.9	61	43	227	3.0	192	34	121
Peam Ro	25	159	311	9,581	4,282	44.7	61	34	328	3.4	235	61	134
Pear Reang	57	463	538	20,531	9,047	44.1	45	43	583	2.8	492	94	152
Preah Sdech	45	279	387	15,895	6,512	41.0	57	47	19	0.1	335	87	174
Prey Veng DC	43	309	417	14,831	6,295	42.4	48	40	431	2.9	326	63	104
Kampong Leav	24	188	352	9,287	4,086	44.0	50	29	552	5.9	234	48	94
Sithor Kandal	44	277	307	13,237	6,059	45.8	48	51	134	1.0	283	27	55
Mesang	44	231	141	18,426	7,288	39.6	80	190	209	1.1	353	91	148
Total	459	3,037	4,093	166,241	71,618	43.1	55	46	4,523	2.7	3,768	645	1,529
Secondary sch.													
Ba Phnom	5	47	113	1,003	265	26.4	22	10			34	10	5
Kamchay Mear	4	33	67	629	134	21.3	20	10			21	0	0
Kampong Travek	5	62	95	1,163	331	28.5	19	13			40	5	10
Kanh Chreuch	4	12	43	759	225	29.6	64	20			20	5	5
Peam Chor	1	6	20	142	27	19.0	24	8			4	0	5
Peam Ro	3	11	101	784	307	39.2	72	8			19	0	5
Pear Reang	7	52	117	1,429	410	28.7	28	13			41	15	25
Preah Sdech	3	28	59	649	27	4.2	24	12			21	5	5
Prey Veng DC	5	43	67	930	180	19.4	22	15			27	5	8
Kampong Leav	2	20	48	489	125	25.6	25	11			14	0	0
Sithor Kandal	3	23	62	909	291	32.0	40	16			23	5	10
Mesang	3	34	58	644	134	20.8	19	12			18	0	5
Total	45	371	850	9,530	2,456	25.8	26	12			282	50	83
High school													
Ba Phnom	1	34	93	1,005	307	30.5	30	11			30	0	5
Kamchay Mear	1	30	43	592	160	27.0	20	15			18	0	0
Kampong Travek	1	45	84	1,147	295	25.7	26	14			35	5	10
Kanh Chreuch	1	25	48	631	190	30.1	26	14			16	0	5
Peam Chor	1	21	46	520	118	22.7	25	12			16	0	0
Peam Ro	1	43	112	1,095	385	35.2	26	10			32	0	5
Pear Reang	1	33	85	847	200	23.6	26	11			25	0	0
Preah Sdech	1	39	94	1,217	356	29.3	32	14			32	5	5
Prey Veng DC	1	23	42	557	136	24.4	25	14			18	5	10
Kampong Leav	1	51	146	1,933	698	36.1	38	14			55	35	10
Sithor Kandal	1	39	62	848	258	30.4	26	14			22	5	0
Mesang	1	41	64	1,031	182	17.7	26	17			24	10	0
Total	12	418	919	11,423	3,285	28.8	28	13			323	65	50

Source: Department of Education, PREY VENG Province

KANDAL	Schools	Class rooms	Teachers	Students	Girls	Girl %	Std./ Room	Std./ Tch.	Drop outs	Drop %	Room need	Need rehb	Plan
<u>Primary school</u>													
Ksach Kandal	41	326	558	19,190	45.1	59	38	65	0.3	24	29	3	
Muk Kampoul	31	227	390	12,875	46.2	57	36	48	0.4	15	8	4	
Lvea Em	32	189	348	11,310	44.0	60	36	114	1.0	16	2	13	
Kean Svay	41	365	635	26,163	45.5	72	45	437	1.7	54	3	7	
Saang	60	464	664	30,584	43.5	66	51	708	2.3	57	-	6	
Leuk Dek	19	90	199	8,432	44.0	94	43	94	1.1	11	3	2	
Koh Thom	35	292	523	21,313	47.6	73	44	565	2.7	20	2	3	
Ponhea Leu	33	266	365	15,250	42.0	58	46	200	1.3	18	-	2	
Ang Snour I	44	279	401	16,749	45.9	61	47	312	1.9	22	-	3	
Kandal Stung	35	252	439	15,422	44.6	62	39	433	2.8	-	6	2	
Takhmau	11	116	282	9,753	46.1	84	36	73	0.7	40	-	-	
<b>Total</b>	<b>382</b>	<b>2,866</b>	<b>4,804</b>	<b>187,041</b>	<b>45.0</b>	<b>66</b>	<b>43</b>	<b>3,050</b>	<b>1.6</b>	<b>277</b>	<b>53</b>	<b>45</b>	
<u>Secondary sch.</u>													
Ksach Kandal	8	80	185	3,655	34.4	46	21	240	6.6	20	5	3	
Muk Kampoul	3	24	72	1,745	37.7	32	11	12	1.6	8	-	2	
Lvea Em	3	23	74	1,187	34.8	52	17	63	5.3	5	3	3	
Kean Svay	5	56	195	2,936	40.6	53	16	129	4.4	26	-	3	
Saang	6	71	183	3,265	40.8	46	19	169	5.2	24	-	3	
Leuk Dek	2	14	34	484	36.6	35	16	13	2.7	4	1	1	
Koh Thom	5	63	167	2,389	38.1	38	15	96	4.0	9	2	2	
Ponhea Leu	4	40	107	1,413	30.8	36	14	60	4.2	10	1	1	
Ang Snour I	5	46	147	2,480	34.2	54	18	149	6.0	9	2	2	
Kandal Stung	3	23	109	1,437	40.4	63	14	70	4.9	5	3	1	
Takhmau	2	27	96	1,834	40.4	68	20	45	2.5	12	1	2	
<b>Total</b>	<b>46</b>	<b>467</b>	<b>1,369</b>	<b>21,825</b>	<b>37.2</b>	<b>47</b>	<b>17</b>	<b>1,046</b>	<b>4.8</b>	<b>132</b>	<b>18</b>	<b>23</b>	
<u>High school</u>													
Ksach Kandal	1	15	38	580	30.9	39	16	9	1.6	5	-	1	
Muk Kampoul	2	39	135	1,926	38.1	50	15	17	0.9	4	-	1	
Lvea Em	1	10	50	771	32.6	78	16	2	0.3	5	3	2	
Kean Svay	1	35	120	2,204	37.3	63	19	105	4.8	16	-	2	
Saang	1	31	78	1,456	36.5	47	19	11	0.8	12	-	2	
Leuk Dek	1	16	57	867	33.1	55	16	55	6.3	2	2	-	
Koh Thom	1	13	41	454	34.8	35	12	3	0.7	5	-	1	
Ponhea Leu	1	25	66	818	35.2	33	13	106	13.0	5	-	1	
Ang Snour I	1	7	38	282	23.4	41	8	-	-	6	3	1	
Kandal Stung	1	18	72	979	37.2	55	14	28	2.9	3	3	2	
Takhmau	1	22	141	1,895	38.1	87	14	65	3.4	13	-	1	
<b>Total</b>	<b>12</b>	<b>231</b>	<b>836</b>	<b>12,232</b>	<b>36.0</b>	<b>53</b>	<b>15</b>	<b>401</b>	<b>3.3</b>	<b>76</b>	<b>8</b>	<b>11</b>	

Source: Department of Education, KANDAL Province

TAKED	School's	Class rooms	Teachers	Students	Girls	Girl %	Std./ Room	Std/ Tch.	Drop outs	Drop %	Rooms needed	Need of rehabi.
Primary school												
Bati	44	383	451	21,880	9,260	42.3	58	54	594	2.7	488	126
Prey kabass	31	355	350	16,471	7,128	43.3	47	52	352	2.1	384	50
Angkor Borey	14	112	127	6,669	2,965	44.5	60	60	174	2.6	152	43
Samrong	37	404	388	19,974	8,792	44.0	50	57	443	2.2	432	40
Takeo PC	14	133	183	7,568	3,446	45.5	57	45	173	2.3	163	61
Tram Kak	58	569	636	28,898	12,665	43.8	51	50	356	1.2	653	72
Borey Cholasar	18	79	90	3,555	1,433	40.3	45	50	106	3.0	94	21
Treang	47	337	396	19,044	8,067	42.4	57	55	682	3.6	443	122
Koh Andet	17	134	163	6,618	3,343	50.5	50	46	88	1.3	181	52
Kiri Vong	50	292	325	15,459	6,775	43.8	53	57	459	3.0	371	91
Total	330	2,798	3,108	146,136	63,874	43.7	53	53	3,427	2.3	3,361	678
Secondary sch.												
Bati	3	30	95	1,087	256	23.6	37	12	49	4.5	30	
Prey kabass	5	73	111	1,229	330	26.9	17	12	90	7.3	54	
Angkor Borey	2	13	32	361	70	19.4	28	13	19	5.3	13	
Samrong	5	63	92	1,358	321	23.6	22	16	88	6.5	46	
Takeo PC	0	0	0	0	0	0	0	0	0	0	0	
Tram Kak	2	35	62	1,000	334	33.4	29	17	57	5.7	29	
Borey Cholasar	1	10	18	176	32	18.2	18	11	0	0	8	
Treang	3	40	66	924	231	25.0	24	15	44	4.8	31	
Koh Andet	3	34	41	751	189	25.2	23	20	20	2.7	23	
Kiri Vong	3	41	74	756	184	24.3	19	11	70	9.3	34	
Total	27	339	591	7,642	1,947	25.5	23	14	437	5.7	268	
High school												
Bati	1	32	75	1,039	281	27.0	33	15	140	13.5	32	
Prey kabass	1	24	61	715	153	21.4	30	12	36	5.0	24	
Angkor Borey	0	0	0	0	0	0	0	0	0	0	0	
Samrong	2	46	69	1,155	354	30.6	26	18	73	6.3	37	
Takeo PC	1	50	98	2,168	766	35.3	44	23	3	0.1	54	
Tram Kak	2	62	109	1,965	652	33.2	32	19	103	5.2	62	
Borey Cholasar	0	0	0	0	0	0	0	0	0	0	0	
Treang	1	26	59	780	217	27.8	30	14	7	0.9	26	
Koh Andet	0	0	0	0	0	0	0	0	0	0	0	
Kiri Vong	1	23	73	874	221	25.3	38	13	83	9.5	32	
Total	9	263	544	8,696	2,644	30.4	34	17	445	5.1	267	

Source: Department of Education, TAKEO Province

Table H.4 HOSPITALS AND HEALTH CENTERS

KARATIE: Provincial hospital 1

District	District hospital	Commune Health Centers			Total	Planned
		Good	Need repair	Need new		
Prek Prasap	1	0	3	0	3	
Chhlong	1	0	2	0	2	
Sambo	1	-	-	-	-	
Kratie	1	1	5	0	6	
Snoul	1	1	1	0	2	
<b>Total</b>	<b>5</b>	<b>2</b>	<b>11</b>	<b>0</b>	<b>13</b>	

Source: Ministry of Health

KAMPONG CHAM: Provincial hospital 4

O Reang Ov	1	1	4	0	5	
Koh Sotin	1	-	-	-	-	
Srey Santhel	1	1	5	1	7	
Kang Meas	1	2	3	0	5	
Kroch Chhmar	1	0	5	0	5	
Tbong Khmum	1	-	-	-	-	
Stung Trang	1	0	0	2	2	
kampong Seim	1	1	1	0	2	
Prey Chhor	1	1	1	2	4	
Cheung prey	1	-	-	-	-	
Batheay	1	3	0	0	3	
Kampong Cham	1	-	-	-	-	
Dambe	1	-	-	-	-	
Memot	1	-	-	-	-	
Ponnea Krek	1	0	2	0	2	
Chamkar Leu	1	4	0	0	4	
<b>Total</b>	<b>16</b>	<b>13</b>	<b>21</b>	<b>5</b>	<b>39</b>	

Source: Ministry of Health

PREY VENG: Provincial hospital 2

Ba Phnom	1		9	0	9	
Kamchay Mear	1		6	2	8	
Kampong Travek	1	2	8	0	10	
kanh Chreuch	1		4	0	4	
Peam Chor	1		3	7	10	
Peam Ro	1		5	3	8	
Pear Reang	1		11	0	11	
Preah Sdech	1		2	0	2	
Prey Veng DC	0	3	3	5	11	
Kampong Leav	1		3	3	6	
Sithor Kandal	1		10	0	10	
Mesang	1		7	1	8	
<b>Total</b>	<b>11</b>	<b>5</b>	<b>71</b>	<b>21</b>	<b>97</b>	

Source: Department of Health, Prey Veng

KANDAL: Provincial hospital 1

District	District hospital	Commune Health Centers			Total	Planned
		Good	Need repair	Need new		
Ksach Kandal	1	0	5	4	9	
Muk Kampoul	1	1	2	3	6	
Lvea Em	1	0	]			
Kean Svay	1	0	]	5	12	17
Leuk Dek	1	0	]			
Saang	1	0	6	6	12	
Koh Thom	1	0	1	11	12	
Ponhea Leu	1	1	3	6	10	
Ang Snourl	1	0	8	0	8	
Kandal Stung	1	0	]	3	11	14
Takhmau	0	0	]			
<b>Total</b>	<b>10</b>	<b>2</b>	<b>33</b>	<b>53</b>	<b>88</b>	

Source: Department of Health, Kandal

TAKEO: Provincial hospital 1

District	District hospital	Commune Health Centers			Total	Planned
		Good	Need repair	Need new		
Bati	1	2	2	11	15	13
Samrong	1	3	2	6	11	0
Prey Kabass	1	3	1	9	13	13
Angkor Borey	1	0	1	5	6	0
Borey Cholasar	1	0	1	4	5	0
Treang	1	1	1	11	13	0
Koh Andet	1	1	0	5	6	0
Tram Kak	1	4	2	8	14	9
Doun Kev	0	0	1	2	3	15
Kirivong	1	2	3	7	12	20
<b>Total</b>	<b>9</b>	<b>16</b>	<b>14</b>	<b>68</b>	<b>98</b>	<b>70</b>

Source: Department of Health, Takeo

Table II.5 Religion

Province	Buddhism		Islam				Catholic		
	Temple	Monk	Mosque	Sub-mq	School	Follower	Church	School	Follower
Kratié	86	766	6	0	3	14,365	0	0	44
Kampong Cham	507	5,309	63	19	52	100,735	2	0	1,040
Prey Veng	430	3,464	2	1	0	418	1	0	1,651
Kandal	310	3,553	7	0	1	8,872	32	22	3,199
Takeo	296	3,027	4	1	5	3,503	4	2	1,078
<b>Total</b>	<b>1,629</b>	<b>16,119</b>	<b>82</b>	<b>21</b>	<b>61</b>	<b>127,893</b>	<b>39</b>	<b>24</b>	<b>7,012</b>

Note: 6 Chinese buddhist temples and 7 Vietnamese buddhist temples exist in the study area.

Source: Ministry of Religion, June, 1996



## Annex II.2 WATER LAWS (Draft example in Takeo province)

### Section 1: Membership

- A. Each member shall be responsible for himself, and he may be a new member of WUA in cooperation for:
1. Maintenance and improvement of irrigation system, structure, sub-canal, and water heads structure.
  2. Sharing water among beneficiaries who need water at the same time.
  3. Implementation of works which are ordered by a policy and are sent to each WUA to carry out.
- B. All the members shall pay:
- |                                                  |                                |
|--------------------------------------------------|--------------------------------|
| For pumps at the main station in                 | cash.....riels, or rice.....kg |
| For water use with gravity in                    | cash.....riels, or rice.....kg |
| For water use partly with gravity and pump in    | cash.....riels, or rice.....kg |
| For a mobile pump to take water to the fields in | cash.....riels, or rice.....kg |
- The payment shall be done at the first meeting of the season. In case a member uses more water than the agreement, he shall pay additional charges.
- C. Areal authority shall inspect the revenue. In case a pump is in trouble or broken, the repair fees shall be paid by all the members according to the size of lands in cash.....riels, or rice.....kg, or .....man-days of labor equal to rice.
- D. All the members shall attend the general meeting and contribute to discussions on the issues presented.
- E. A member shall report to the chief of WUA when he commits a wrong-doing.

### Section 2: Special Meetings

The committee may call a special meeting whenever it is necessary and important for WUA, and members shall be informed 5 days before the meeting. Necessary attendants of the meeting are the same numbers as the general meeting.

### Section 3: Election

All the members are eligible to vote for the committee with the election paper.

### Section 4: Agenda for discussion for the general and special meetings

#### A. General meetings

1. Programmes, and the limit of the participants
2. Clear topics to solve problems
3. Implementation of decisions through the meeting minutes
4. Review from the last meeting
5. Report on management by chief of the committee from the last meeting
6. Reports on finance such as the revenue, deposit in the bank and new properties, and on the activities of WUA.
7. Programmes for the future
8. Payment of members
9. Date of the next meeting
10. Conclusion of the meeting

## B. Special meetings

A member may request the committee a special meeting when problems occur.

### Section 5: Documentation by the chief and deputy chief of the committee:

1. Member of WUA, size of lands with irrigation
2. Meeting
3. List of each member, orders, conditions
4. Farmers' participation in the works of WUA
5. Reports on WUA activities
6. Bills and letters
7. Reports on production
8. Other reports on management
9. Revenues from the members and payment for the year
10. Supports from the members
11. Payment by each member on water use
12. Income and spending reports
13. Accounting record of WUA
14. Record of punishment of misdeed

### Section 6: Water irrigation and water management:

1. The programmes to use water through irrigation shall be discussed and agreed in the committee, and members shall follow the programmes decided by the committee.
2. The programmes of pumping and allocation of water through the water gates shall be discussed and agreed in the committee, and then they are taken into practice by the members.
3. Members may use water accountable for payment.
4. If a member wants to use water out of the programme, he shall compensate it within the programme.
5. Each member shall be responsible for his own water use.
6. A member having fields adjacent to the canal shall allow another member having lands away from the canal to get water through his fields.
7. The chief of committee shall prepare the place of drinking water for animals in order to avoid them from destroying the dike.
8. The committee may be remunerated upto 50% of surplus in the revenue.

### Section 7: Maintenance

1. All members shall participate in maintenance works.
  - Repair of canals, rehabilitation, filling up of dikes.
  - Chief of WUA shall announce members date and time to work.
2. Watch and quick repair
  - Members shall be careful not to damage irrigation facilities whenever they use water.
  - Chief of gates shall report committee quickly where to be repaired.
3. Urgent repair
  - Any work needs at least 2 days. The supervisor shall plan a work and the chief of

WUA shall mobilize members to work according to the plan.

-Workers shall be allocated to each WUA accordingly.

4. Workers under 18 years old are not eligible to repair works.
5. Absent members in the works shall pay money equivalent to the due labor.

#### Section 8: Check gates

1. WUA is responsible for check gates.
2. When the gates can not release enough water while flooded, the dike may be cut under a guidance of hydrology officer. But when it may be avoided, the dike shall not be cut.

#### Section 9: Water use

1. All the water users of the irrigation system shall pay water charges according to the agreement with WUA.
2. WUA shall prepare water bills to each member.
3. Members shall be charged of water when water is needed.

#### Section 10: Water disputes

All the disputes on water use shall be solved by the chief of WUA. When the chief fails in mediation of disputes, chief of management committee shall mediate the disputes.

#### Section 11: Accounting management

1. All the collected revenue and other incomes to WUA shall be put in the bank account and shall be reported in the general meetings.
2. The chief of the committee shall sign a check of the account when necessary amount of money agreed in the committee is drawn from the account.
3. The chief may keep some amount of money needed for payments upon agreement of the committee.
4. A balance sheet shall be prepared once a year and the controller shall report it to the general meeting. All the documents on the revenue and payments shall be presented to the general meeting when required.
5. The management committee shall prepare the budget for the season in order to present it to the general meeting on the revenue and estimated spending for requirements.
6. The committee shall open a small bank account to carry out activities ordered by the local authority.

#### Section 12: Discipline

All the wrong doings shall be fined of money.

1. Three continued absences in the meetings shall be fined in cash.....riels.
2. Absence in maintenance works:
  - Rules
  - Amount of money to be fined
  - No water allocation
  - To be sent to the local authority

3. In case water gates or structures are destroyed deliberately, the repair cost shall be paid back by the person who did it. When one catches fish with electrical shock, the equipment shall be confiscated and he shall be fined in cash also.
4. When the dike is cut, it shall be refilled by the person who did it. When children cut the dike, their families are responsible for it.
5. When animals are taken into the canal, the animals shall be confiscated and the owner shall be fined in cash.
6. It is allowed to catch fish in the canal by using net, gill net, hook, or basket (ang rot), but it shall be fined to catch fish are by basket (Tro), basket (Loap), digging holes in the canal, filling soil in the canal, or removing water from the canal in cash.....riels.
7. A careless misuse of water shall be fined in cash.....riels.
8. A damage on irrigation system caused by a weapon shall be fined.
9. If the canal is filled with soil to take water or is planted with crops, the person who did it shall be fined in cash.....riels.

- \* In case that the person who commits a misdeed is not a member, WUA does not have a right to punish him.
- \* Non member who wants water from the irrigation shall pay 130% of the charge to a member.
- \* Non member is not entitled to buy or borrow any equipments from WUA.
- \* If a member does not pay the charge or he makes a trouble with the committee, he shall be sent to the commune authority.

Misdeed shall be treated as follows;

- a. When a member does not take care of the canal that induces water loss:
  - To be warned
  - To be fined.....riels
  - To stop water.....days
- b. When a member does not follow the rules formulated by WUA,
  - To be warned
  - To be fined.....riels
  - To stop water.....days

#### Section 13: Other issues

1. All the members shall carry out the programmes agreed in WUA.
2. All the members shall contribute to ideas and discussions for development.

Issues out of the water laws above fall under the government laws.

Table II.6 List of NGOs, UN Agencies and Foreign Donors in the Study Area

KRATIE

Organization	Agri cult	Comm Dev	Educ Trai	Heal th	Wate r	Reha bili	Cred it	Chil dren	Emer genc	Othe r
Voluntary Services Overseas			○							
CARE International					○					
Medecins Sans Frontiers				○						
Save the Children Funds (UK)				○				○		
Action Intern'l Centre le Paim		○	○	○	○				○	
CAMA Services, Inc.										
SAWA Cambodia										○

KAMPONG CHAM

Australian Catholic Relief	○									
PRASAC 1 (EU)	○		○		○		○			○
World Relief Cambodia		○								
International Labor Organiza.			○				○			
Action Nord Sud					○					
SAWA Cambodia					○					○
MARYKNOLL			○							
REDD BARNA, Cambodia			○							
Voluntary Service Overseas			○							
Assemblies of God, Cambodia				○				○		
Handicap International				○		○				
Medecins Sans Frontiers				○						
UN Population Fund				○						
CAMA Services, Inc.									○	

PREY VENG

Australian Catholic Relief	○									
PADEK (Partnership Deve. Kam.)	○									
Christian Outreach		○								
World Concern International		○		○						
PRASAC 3 (EU)	○		○		○		○			○
Mennonite Central Committee		○		○	○					
OXFAM, United Kingdom, Ireland					○					
Taipei Overseas Peace Service			○							
Voluntary Service Overseas			○							
MARYKNOLL				○						
Southeast Asian Outreach				○						
Action Inter. Centre le Paim									○	
CAMA Services, Inc.									○	
SAWA Cambodia										○

Source: DIRECTORY OF INTERNATIONAL HUMANITARIAN ASSISTANCE IN CAMBODIA, 1996 compiled by CCC (Cooperation Committee Cambodia), and some organizations are added from other sources. The tables are amended from the original data.

Words abbreviated as follows:

Agricult - Agriculture

Educ Trai- Education & Training

Emergenc - Emergency Relief

Comm Dev - Community Development

Rehabili - Rehabilitation

KANDAL

Organization	Agri cult	Comm Dev	Educ Trai	Heal th	Wate r	Reha bili	Cred it	Chil dren	Emer gene	Othe r
Australian Catholic Relief	○									
Southeast Asian Outreach	○									
World Vision International	○									
Cambodia Canada Devlop. Progr.	○		○							
Church World Service		○								
Japan Inter. Volunteer Centre		○								
Lutheran World Service, Camb.		○								
New Humanity		○								
UNHCR		○								
World Relief Cambodia		○						○		
Association to Aid Refugees			○							
Partage Av. I. Enfants du Monde			○							
Taipei Overseas Peace Service			○							
MARYKNOLL			○							
24 Hour TV Charity Committee				○						
Australian Red Cross				○						
GOAL				○						
Handicap International				○						
IPSER				○						
Serv. for Health, Asia & Africa				○						
UN Population Fund				○						
World Concern International				○						
World Vision International				○						
Caring for Young Khmer								○	○	
Friends for All Children								○		
CAMA Services, Inc.									○	
Cooperation Int' pour, De. Solida										○

TAKEO

Australian Catholic Relief	○									
Quaker Service Australia	○									
Voluntary Service Overseas	○		○							
Volunteer Service Abroad	○	○	○	○				○		
Lutheran World Service, Camb.	○	○								
OXFAM, United Kingdom, Irela.	○	○								
PRASAC 2 (EU)	○		○		○		○			○
UNDP, Rural Dev. & Rest. Pro.	○	○	○	○	○		○		○	○
Mennonite Central Committee			○				○			○
International Labor Organiza.			○				○			
Action Inter. Contre le Faim	○									
Community Aid Abroad	○									
Food for the Hungry Interna.					○					
Assemblies of God, Cambodia			○							
Partage av. I. Enfants du Monde			○							
Forum Syd				○						
Handicap International				○						
Japan Overs. Christian Me. Se.				○			○			
MARYKNOLL				○			○			
Caring for Young Khmer								○		
Enfants Refugies du Monde								○		
SAWA Cambodia										○

Table H.7 INTERNATIONAL ORGANIZATIONS WORKING FOR AGRICULTURAL DEVELOPMENT IN THE STUDY AREA

ACR (AUSTRALIAN CATHOLIC RELIEF)							Budget: in US Dollars
Projects	Components	Location	C/P Agency	Personnel For./Khmer	Since when	Budget Annum	Remarks
Takeo Integrated Rural Dev. Program	* Extension * Kbal Po Rural Develop. Centre * Irrigation rehabilit. * Water User Groups * Research on rice * Training & extension * Soil management * Irrigation scheme dev. * Community rural credit * Community forestry * Advisers on education/ manage. & curriculum/ teacher training	Takeo	MAFF, Takeo Depts. of Agronomy & Extension	3/9	1988	297,400 (1996)	ACC: 277,400 (A. C. Community) UNDP: 20,000
Kbal Po Rural Dev. Center		Takeo Treang	DOA, MAFF	2/9	1989	93,463 (1996)	ACR fund: 61,132
Prek Leap Agricul. College		Phnom Penh	Prek Leap Agr. College	2/			
<b>CWS (Church World Service)</b>							
Reintegration and Comm. Development	* Community development	Kandal Kean Svay	-	10/35	1991	301,653 (FY 95)	
<b>Christian Outreach</b>							
Development of agriculture, business and community act.	* Agriculture * Business * Community development * Health	Prey Veng	MAFF MRD MOH	29	1992	306,750 (96/97)	
<b>GOAL</b>							
Community-based Rural Development	* Community development * Health	Kandal	MOH	4/10	1995	130,000	
<b>JVC (Japan International Volunteer Center)</b>							
Comprehensive Rural Development	* Sustainable agriculture & Rural development	Kandal AngSnourl	Ang Snourl District	3/6	1988	205,000 (1995)	
<b>LWS (Lutheran World Service)</b>							
Integrated Rural Development	* Community development	Kandal		4/2	1994	221,000	Including 4 IRDPs
Draught Animals for Returnees Pro.	* Animal	Takeo		-		84,000 (1995)	

MCC (Mennonite Central Committee)							Budget in US Dollars	
Projects	Components	Location	C/P Agency	Personnel For./Khmer	Since when	Budget Annum	Remarks	
Village-based Comm. Development Programs	* Agriculture * Irrigation * Soap production	Prey Veng Takeo		0/6 1/4	1984	40,000 50,000 (1996)		
<b>New Humanity</b>								
Ampeou Prey Comm. Development	* Agriculture * Rehabilitation (irri.) * Credit * Education * Training	Kandal kandal Stung	Phnom Penh University Social Sciences	4/5	1994 5years	400,000 (1996)	Budget: including another project.	
<b>OXFAM United Kingdom and Ireland</b>								
Community development	* Village Dev. Committee * Credit * Rice bank, Cow bank	Kandal, Takeo	Local NGOs	3/14	1979			
<b>PADEK (Partnership for Development in Kampuchea)</b>								
Bati Station Fisheries Extens. Sustainable Agri. Prey Veng Area	* Pisciculture * Training	Prey Veng Prey Veng Prey Veng Prey Veng	MAFF, MRD, MOEd MOEn, MOW	1/7 1/1 0/5 0/18	1979	178,942 129,487 80,155 275,662	(1995)	
<b>SAO (Southeast Asian Outreach)</b>								
SCALE Project	* Integrated aquaculture	Kandal	MAFF, Prov. Dept. of Agriculture	5/31	1991	676,000(96/97) 260,000(95/96) 256,000(94/95)		
<b>World Concern International</b>								
Preah Sdech Integrated Rural Development	* Agriculture * Community development * Health	Prey Veng	MRD	20/63	1994	250,000 300,000 150,000		
<b>WVI (World Vision International - Cambodia)</b>								
Community Development	* Agriculture * Health * Women in development	Kandal	MAFF MRD	0/15	1979	123,435 120,233 84,432		

Sources: DIRECTRY OF INTERNATIONAL HUMANITARIAN ASSISTANCE, CCC 1996, and hearings from NGOs



Budget: in US Dollars

Commission of the European Committees

Projects	Components	Location	C/P Agency	Personnel For./Khmer	Since when	Budget Annum	Remarks
PRASAC- I	* Domestic water supply * Irrig. & agriculture * Rural credit * Micro-enterprises	Kg. Cham Bathey Prey Chor Kg. Seim ChungPrey Kg. Chhnang	MAFF & DOH MRD	/299	1995 - 1997	4,254,000 (95/96)  14,720,000 (Total)	PRASAC: Programme de Rehabilitation et d'Appui au Secteur du Cambodge  1 ECU = US\$ 1.20  Kg. : Kampong
PRASAC- II	* Domestic water supply * Irrig. & agriculture * Rural credit * Micro-enterprises	Takeo AgkrBorey Koh Andet Kirivong Borey Cholasar Kg. Speu	MAFF & DOH MRD	/250	1995 - 1997	3,573,120 (95/96)  10,962,000 (Total)	
PRASAC- III	* Domestic water supply * Irrig. & agriculture * Rural credit * Micro-enterprises	Prey Veng Preasdech Kg. Trabek Prey Veng StrKandal Kamchay Mear Svay Rieng	MAFF & DOH MRD	/297	1995 - 1997	3,519,024 (95/96)  14,720,000 (Total)	

RD&RP (Rural Development & Resettlement Project... UNDP)

Rural Development & Resettlement Project	* Agriculture * Income generation * Education * Health * Rural credit	Takeo Kg. Speu	MRD	55/150	1992	1,700,000 (96/97)	The project is called Tripartite Cooperation.
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AUSAID

Agri. extension Project	* Agricultural extension * Agri. education streng. * Community participat. * Project management	Kg Cham Svay Rieng Battambang (21future)	MAFF, MRD, MWA Inter. orga. NGOs	8/5 All staff Dept. of Extension	1996	8,092,800 (96-2000) 98,400 (96-2000)	AUSAID  Cambodian government
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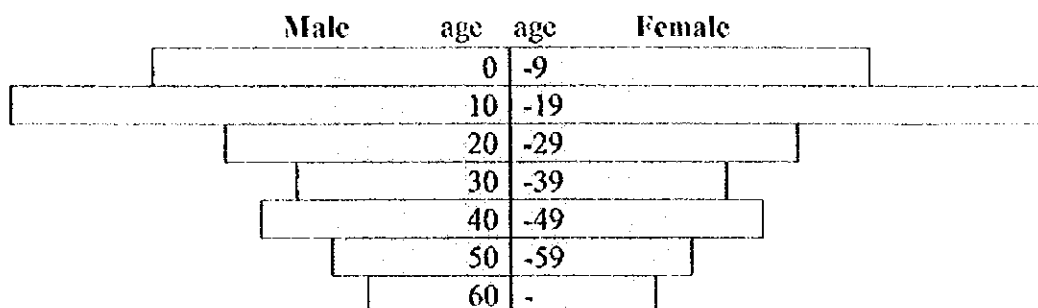
ADB (Asian Development Bank) Find a table in Appendix G.

Sources: Pamphlets of the projects and hearings from staff concerned

Table H.8 Local NGOs working in the study area

No	Local NGOs	Components	Location
1	ARD (Association for Rural Development)	* Fish raising * Irrigation pump * Education	Kean Svay district, Kandal province
2	CKDA (Conscious Khmer Development Association)	* Credit	Lvea Em district, Kandal
3	KFA-Kandal (Khmer Farmer Association)	* Credit * Animal raising * Water manage./irrigat.	Lvea Em district, Kandal
4	NNDA (New National Development Association)	* Credit * Preschool education * Infrastructure	Ponhea Leu district, Kandal
5	PAD (People Association for Development)	* Credit * Education & Training	Kandal Stung district, Kandal
6	RAA (Rasmey Agriculture Association)	* Agriculture * Credit	Saang district, Kandal
7	Unaccompanied Association	* Education & Training * Water manage./irrigat.	Peam Ro district, Prey Veng Saang district, Kandal
8	WOSO (Women's Service organization)	* Agriculture * Credit	Kandal Stung district, Kandal
9	ASFADE (Association for Farmer Development)	* Credit * Credit * Health	Kirivong district, Takeo
10	FOND (Farmer Organization New Development)	* Irrigation * Credit	Bati district, Takeo
11	KAFD (Khmer Association for Agriculture Devel.)	* Credit * Education	Takeo, Kampong Cham, Prey Veng
12	Khemara	* Income generation * Infrastructure * Water management * Agriculture	Kandal, Kampong Speu
13	RADA (Rural Area Development Association)	* Education * Credit	Bati district, Takeo
14	CADICAP (Cambodian Association Development Industrial Crops and Animal)	* Water management * Agriculture	Prey Veng
15	Cambodian Association Development of Poverty People	* Credit * Education & Training * Water management	Kandal, Kampong speu
16	RDPA (Rural Development Programme Association)	* Agriculture	Kratie province
17	Cambodian Community Development Organization		Cheung Prey, Kampong Cham

Source: Cambodian NGO Resource Directory (CCC, 1996)



**Figure II.3 Population pyramid in Boeng Phtea Area**  
Source: Socio-economic survey

**Table II.9 Hospitals and Health Centers in Boeng Phtea Area**

Hospitals & HC	Number	Staff	Staff allocation	Facilities
District Hospital	1	34	Dr.3, Assis.4, Nur.13, et 14	Under extension by SHARE
Prek Tamer HC	1	Paid2, unpaid 4	Prim. nurse 1, Midwife 1, et 4	Need rehabilitation
Puk Reusei HC	1	Paid2, unpaid 4	Prim. nurse 1, Midwife 1, et 4	Good
Sanlung HC	1	Paid2, unpaid 4	Prim. nurse 1, Midwife 1, et 4	Plan 1997 by SHARE
Vihearsour HC	1	Paid2, unpaid 4	Prim. nurse 1, Midwife 1, et 4	Plan 1997 by government
Prek Ampil HC	1	Paid2, unpaid 4	Prim. nurse 1, Midwife 1, et 4	Plan 1997 by SHARE
Private Clinic	2			

Source: Office of Health, Ksach Kandal  
Note: HC stands for Health Center

Table H.10 Schools in Boeng Phtea Area

Primary Schools	Name of school	Village	Rooms	Classes	Composition						Shift	Students	Girls	Girl %	Std./ Class	Teach.	Std./ Tch.	Building conditions
					G1	G2	G3	G4	G5	G6								
1	Knong	Knong	20	46	17	10	9	6	3	1	2	1,776	776	43	39	56	32	C,C,C,C,C
2	Pechev Rangsey	Agn Cheng Leu	17	17	5	4	3	2	2	1	2	661	305	46	39	20	33	R,R,R
3	Puk Reusei Leu	Puk Reusei Leu	8	20	5	4	5	3	2	1	2	877	389	44	42	27	32	N,N,N,N
4	Puk Reusei Krom	Puk Reusei Krom	13	11	4	2	2	2	1	0	2	415	171	41	38	9	46	G,R,R
5	Prei Chas	Prei Chas	6	6	3	2	1	0	0	0	1	288	104	36	48	7	41	R,R
6	Vihearsour Cheung	Vihearsour Cheung	12	20	6	4	4	3	2	1	2	851	405	47	43	16	53	G,C,C
	Total		76	120	40	26	24	16	10	4		4,868	2,150	44	41	135	36	

Secondary Schools

Secondary Schools	Name of school	Village	Rooms	Classes	G7			G8			G9			Shift	Students	Girls	Girl %	Std./ Class	Teach.	Std./ Tch.	Building conditions
					G7	G8	G9	G7	G8	G9											
1	Sihanouk Reach College	Knong	30	19	5	5	9						1	692	221	32	37	43	16	R,R,R,R	
2	Puk Reusei College	Puk Reusei Leu	14	8	3	3	2						1	281	84	30	35	16	18	G,N,N,N	
	Total		44	27	8	8	11							973	305	31	36	59	16		

Kindergartens

1	Knong	Knong	3	3										1	138	60	43	46	3	46	R
2	Vihearsour Cheung	Vihearsour Cheung	3	3										1	80	39	49	27	3	27	R

Source: Office of Education, Ksach Kandal and direct hearing from some schools

Note: Composition means number of classes in each grade.

Std. stands for Students, Teach. for Teachers, and Tch. for Teachers as well.

In the building conditions, N means need of New building, R means need of rehabilitation.

C means under construction, and G means Good condition.

Table H.11 Firewood Uses at Homestead

No.	Distance	Transportation	Size, Length, Width, Circle, Height	Volume (m <sup>3</sup> )	Period	Quantity/family/month(m <sup>3</sup> )
1	2km	Cart, bicycle	S=3cm, L=50cm, 20pcs	0.0007	2 days	0.105
2	3km	Bicycle	S=2-3cm, L=150, 150-170pcs	0.007-0.179	1 month	0.093
3	2km	Cart	S=2-5cm, L=150cm, 90-150pcs	0.042-0.442	1 month	0.242
4	5km	Cart	L=180, W=270, H=140	6.804/2	5 months	0.68
5	10km	Cart	C=700, H=250	3.108/3	2 months	0.518
6	4km	Cart	L=280, W=90, H=90	2.268/2	1 month	1.134
7	3km	Cart	L=160, W=190, H=140	4.256/2	2 months	1.064
8	2km	Cart	L=170, W=400, H=140	9.52/2	5 months	0.952
9	1km	On the back	C=40, H=160	0.065/3	5 days	0.217
10	4km	Cart	L=120, W=40, H=80	0.384/2	3 months	0.064
11	10km	Homestead	L=40, W=120, H=60	0.288/2	15 days	0.288
12	6km	Cart	L=240, W=150, H=170	6.120/2	5 months	0.612
13	3km	Cart	C=160, L=120	0.078/3	1 week	0.104
14	3km	Cart, bicycle	L=120, W=200, H=50	1.20/2	1 month	0.6
15	1km	Cart	L=130, W=230, H=80	2.392/2	15 days	2.392
16	1km	On the back	C=110, H=120	0.0368/3	2 days	0.184
17	1km	Cart	C=680, H=220	8.057/3	2 months	1.343
18	1.5km	Bicycle	L=140, W=325, H=110	5.005/2	1 month	2.503
19	2km	Bicycle	L=180, W=90, H=70	1.134/2	10 days	1.701
20	10km	Cart	L=280, W=90, H=90	2.268/2	1 month	1.134

Source: Hearings from villagers

## **APPENDIX I**

### **Agro-Economy / Project Evaluation**

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## I.1 SOCIOECONOMY OF CAMBODIA

Table I.1.1 Some Socioeconomic Indicators of Cambodia

Items				
1.	GDP(1995) in Riel		7,200	Billion Riels
	GDP(1995) in US\$		2,923	Million Riels
2.	GDP per Capita(1995)		287	US\$
3.	Annual Growth of GDP			
	1990		1.2	%
	1991		7.6	%
	1992		7.1	%
	1993		4.1	%
	1994		4.0	%
	1995		7.6	%
4.	GDP by Sector(1995)			
	Agriculture	44.5%		
	Industry	18.8%		
	Services	36.7%		
5.	Balance of Trade(Million US\$)			
		Exports	Imports	Balance
	1993	283	471	-188
	1994	490	726	-236
	1995	856	1,188	-332
6.	Share of Agricultural Sector in GDP		1989	1994
	Agriculture Sector		52.3 %	44.9 %
	Paddy		21.2 %	12.8 %
	Other crops and rubber		11.2 %	10.1 %
	Livestock		13.4 %	13.2 %
	Fishery		3.9 %	3.9 %
	Forestry		2.5 %	4.9 %
7.	Economic Growth in Agricultural Sector			
	1990	1.14%		
	1991	6.67%		
	1992	1.91%		
	1993	2.02%		
	1994	1.40%		
	Ave.	1.83%		
8.	Population(1995)		9,856,000	
	Phnom Penh		6.9 %	
	Other Urban		7.7 %	
	Rural		85.4 %	
9.	Population Density(persons/km <sup>2</sup> )-1995		54	
10.	Annual Increase of Population(%)		2.8 %	
11.	Employed Population			
	Agriculture, Fishery, Forestry		75.1 %	
	Industry		4.5 %	
	Business, Services & Trade		20.4 %	
12.	Total Number of Households			
	Estimated(1993/94)		1,760,465	
	of which, number of farm house holds		1,503,300	
13.	Household Size(1993/94)			
	Whole Country		5.6	
	Phnom Penh		5.9	
	Other Urban		5.9	
	Rural		5.5	
14.	Total Land		181,035	km <sup>2</sup>
15.	Cultivable Area(1989)		3,785,000	ha

16. Irrigable Area(1992)	410,000 ha		
Wet season	307,000 ha		
Dry season	103,000 ha		
Beneficial Area of the Colmatage	78,000 ha		
17. Forest(1989)	12,143,000 ha		
18. Number of Farm Households Estimated	1,503,314	Farm Households	
19. Average Farm Size(ha)			
Paddy farmer	1.0~1.5 ha		
Upland crop farmer	0.2~0.5 ha		
20. Planted area with paddy(1992-93)			
Wet season	1,701,000 ha		
Dry season	143,000 ha		
Total	1,844,000 ha		
21. Paddy area per capita(wet+dry) 1992-93	0.21 ha		
22. Average yield of paddy(1994)	1.49 ton/ha		
23. Number of Fishery Households(1993)			
Fish catch	25,572 families		
Aquaculture	3,467		
Fish processing	1,406		
24. Monthly Income per Household(1993/94)			
Whole Country	169,271 Riels	(67 \$)	
Phnom Penh	535,542	(214 \$)	
Other Urban Areas	264,350	(106 \$)	
Rural Areas	130,849	(52 \$)	
25. Poverty Line(Riels/month/family)			
Phnom Penh	371,533		
Other urban	223,220		
Rural	185,835		
26. Annual Increase of Consumer Price(%)			
1990	151.5		
1991	150.0		
1992	112.5		
1993	41.1		
1994	17.8		
1995	3.5		

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Source. Socio-Economic Survey 1994, Ministry of Planning  
 Agricultural Statistics, MAFF  
 Monthly Bulletin of Statistics, Ministry of Economy and Finance

Table I.1.2 Population by Province

Province	1,000			Annual Increase(%)
	1981	1986	1996	
Whole Country	6,679	7,672	10,500	3.18
Phnom Penh	329	561	855	4.30
Kandal	720	762	984	2.59
Kompong Cham	1,066	1,205	1,514	2.31
Svay Rieng	292	329	474	3.71
Prey Veng	672	758	998	2.71
Takeo	531	598	753	2.33
Kompong Thom	379	427	560	2.75
Siem Reap	477	538	663	2.11
Banteay Mean Chey	-	-	545	-
Battambang	718	810	717	-1.21
Pursat	175	197	324	5.10
Kompong Chhnang	221	249	350	3.46
Sihanouk Ville	53	59	116	6.99
Kampot	354	399	517	2.62
Koh Kong	26	29	74	9.82
Kompong Speu	340	383	557	3.82
Preah Vihear	69	78	106	3.11
Ratanakiri	45	51	75	3.93
Stung Treng	39	44	72	5.05
Mondulkiri	16	18	25	3.34
Kratie	157	177	229	2.61

Source: Monthly bulletin of statistics,  
Ministry of economy and finance  
Agricultural Statistics 1995

Table I.1.3 Labour in Fishery Sector by Province(1993)

Province	Fish Catch		Fish Processing		Aquaculture	
	Family	Labour	Family	Labour	Family	Labour
Whole Country	25,572	595,924	1,406	5,226	3,467	456,667
Phnom Penh	827	2,481	60	240	302	604
Kandal	6,901	12,826	25	150	1,350	1,314
Kompong Cham	700	1,400	-	-	280	560
Svay Rieng	-	-	-	-	-	-
Prey Veng	170	513	30	100	65	130
Takeo	280	436	-	-	58	264
Kompong Thom	1,200	2,700	600	1,700	150	190
Siem Reap	1,500	4,900	250	925	598	1,210
Battambang	152	682	50	184	252	735
Banteay Mean Chey	-	208	-	-	-	-
Pursat	616	2,476	82	922	36	504
Kompong Chhnang	11,141	40,000	200	600	100	300
Sihanouk Vill	678	1,989	9	105	18	36
Kampot	227	681	100	300	-	-
Koh Kong	760	523,730	-	-	63	150,432
Kompong Speu	-	-	-	-	-	-
Preah Vihear	-	-	-	-	-	-
Stung Treng	62	102	-	-	15	28
Ratanakiri	-	-	-	-	-	-
Mondulkiri	-	-	-	-	-	-
Kratie	325	800	-	-	180	360

**Table I.1.4 GDP by Industrial Origin**

(unit: billion Riels)

	at Current Prices			at Constant 1993 Prices		
	1993	1994	1995	1993	1994	1995
<b>Agriculture</b>	2,558	2,562	3,250	2,558	2,562	3,250
Crops	1,132	1,317	1,811	1,132	1,317	1,811
Livestock	529	491	505	529	481	505
Fishing	610	464	434	610	464	434
Forestry & Logging	285	300	500	285	300	500
<b>Industry</b>	756	780	935	756	825	942
Mining and quarrying	11	11	11	11	11	12
Manufacturing	489	525	579	489	580	606
Food manufacturing	155	172	201	155	176	189
Beverage	51	44	46	51	47	50
Tobacco	3	3	3	3	3	3
Textile, foot wearing	71	50	69	71	57	77
Wood, paper & publishing	58	96	83	58	125	105
Rubber manufacturing	10	8	13	10	9	11
Non-metallic manufacturing	25	27	29	25	29	30
Other manufacturing	116	125	135	116	134	142
Electricity and water	24	31	30	24	25	30
Construction	232	213	315	232	209	294
<b>Services</b>	2,591	2,453	2,749	2,591	2,611	2,740
Trade	952	855	957	952	929	940
Hotel & restaurant	195	237	285	195	243	287
Transport & communication	367	386	423	367	404	405
Finance	24	27	76	24	29	68
Public administration	140	222	234	140	211	234
Real estate & business	622	452	483	622	478	492
Other services	291	274	291	291	317	314
<b>Taxes on Products</b>	197	339	407	197	357	367
Less: subsidies	2	4	12	2	5	11
Less: Imputed bank charges	15	17	73	15	18	66
<b>Gross Domestic Products(GDP)</b>	<b>6,084</b>	<b>6,115</b>	<b>7,255</b>	<b>6,084</b>	<b>6,304</b>	<b>6,733</b>

Source: National accounts of Cambodia 1993-1995, Ministry of Planning

**Table I.1.5 GDP Share by Industrial Origin**

(unit:%)

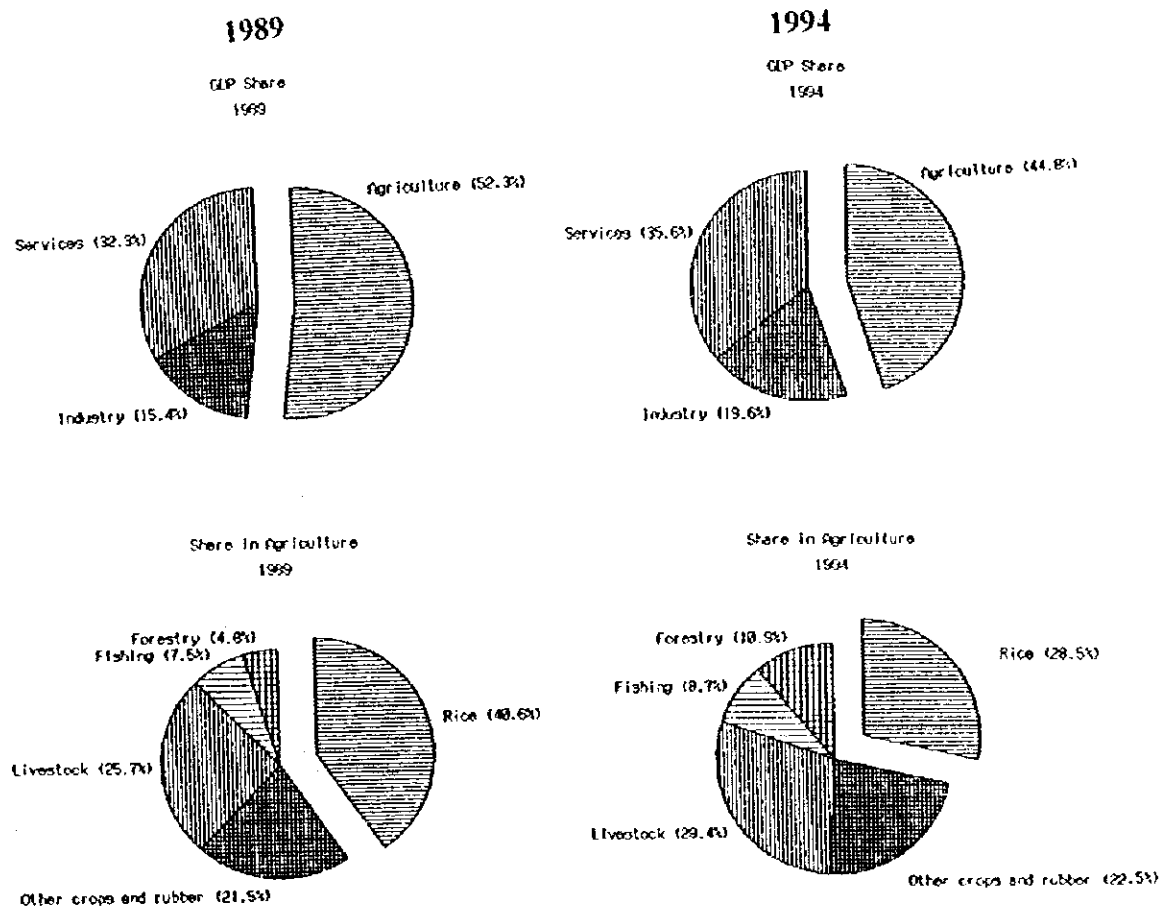
	at Current Prices			at Constant 1993 Prices		
	1993	1994	1995	1993	1994	1995
<b>Agriculture</b>	42.0	41.9	44.9	42.0	40.1	41.0
Crops	18.6	21.5	25.0	18.6	18.6	19.2
Livestock	8.7	7.9	7.0	8.7	8.8	8.1
Fishing	10.0	7.6	6.0	10.0	9.1	7.9
Forestry & Logging	4.7	4.9	6.9	4.7	3.6	5.8
<b>Industry</b>	12.5	12.8	12.8	12.5	13.1	13.9
Mining and quarrying	0.2	0.2	0.2	0.2	0.2	0.2
Manufacturing	8.1	8.6	7.9	8.1	9.2	8.9
Food manufacturing	2.5	2.8	2.8	2.5	2.8	2.8
Beverage	0.8	0.7	0.8	0.8	0.7	0.7
Tobacco	0.1	0.1	0.0	0.1	0.1	0.0
Textile, foot wearing	1.2	0.8	0.9	1.2	0.9	1.1
Wood, paper & publishing	1.0	1.6	1.1	1.0	2.0	1.6
Rubber manufacturing	0.2	0.1	0.2	0.2	0.1	0.2
Non-metallic manufacturing	0.4	0.4	0.4	0.4	0.5	0.4
Other manufacturing	1.9	2.1	1.9	1.9	2.1	2.1
Electricity and water	0.4	0.5	0.4	0.4	0.4	0.4
Construction	3.8	3.5	4.3	3.8	3.3	4.4
<b>Services</b>	42.6	40.1	37.8	42.6	41.4	40.8
Trade	15.7	14.0	13.2	15.7	14.7	14.0
Hotel & restaurant	3.2	3.9	3.9	3.2	3.9	4.3
Transport & communication	6.0	6.3	5.8	6.0	6.4	6.0
Finance	0.4	0.4	1.0	0.4	0.5	1.0
Public administration	2.3	3.6	3.2	2.3	3.3	3.5
Real estate & business	10.2	7.4	6.7	10.2	7.6	7.3
Other services	4.8	4.5	4.0	4.8	5.0	4.7
<b>Taxes on Products</b>	3.2	5.5	5.6	3.2	5.7	5.5
Less: subsidies	0.0	0.1	0.2	0.0	0.1	0.2
Less: Imputed bank charges	0.2	0.3	1.0	0.2	0.3	1.0
<b>Gross Domestic Products(GDP)</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: National accounts of Cambodia 1993-1995, Ministry of Planning

**Table I.1.6 Growth Rate of GDP by Sector at 1989 Constant Price**

	1990	1991	1992	1993	1994
Agriculture	1.3	6.7	1.9	-2.0	1.4
Crops and rubber	-5.4	7.2	-0.4	5.6	-5.6
Rice	-2.9	-4.0	-1.9	-5.5	-11.1
Other crops and rubber	-10.0	29.9	2.0	-5.7	2.0
Livestock	5.6	1.2	6.9	6.3	3.1
Fishing	31.9	3.9	-5.9	-5.6	0.6
Forestry	15.0	24.6	15.3	-0.2	10.1
Industry	-2.2	9.9	15.7	15.0	14.1
Mining and quarrying	12.0	7.1	5.9	8.0	5.0
Manufacturing	-4.4	7.0	3.1	6.0	7.5
Electricity and water	-16.7	0.0	26.0	6.0	4.5
Construction	-1.3	11.4	30.3	22.1	20.0
Services	2.7	8.5	11.1	7.2	5.0
Transport and communication	-1.5	3.4	15.0	10.0	5.0
Wholesale and retail trade	-2.2	12.9	15.9	6.0	6.0
Hotel and restaurants	75.0	42.9	29.5	8.0	7.0
Government administration, education and health	18.9	0.0	-0.2	5.0	2.4
Home ownership	2.0	2.5	7.0	3.0	7.0
Other services	3.0	10.1	9.7	9.0	5.0
Gross Domestic Products (GDP)	1.0	7.9	7.0	3.9	5.1

Source: Cambodia authority and World Bank/IF estimates



**Figure I.1.1 Change in GDP Share between 1989 and 1994**

**Table I.1.7 Population by Sex and Age Group(1992)**

Classification	Population	(%)	Male	Female	% of Female
0-4	1,710,250	19.0	867,097	843,153	49.3
5-14	2,520,368	28.0	1,260,184	1,260,184	50.0
15-17	450,066	5.0	225,033	225,033	50.0
18-64	4,050,592	45.0	1,875,424	2,175,168	53.7
65 and over	270,039	3.0	118817	151,222	56.0
<b>Total</b>	<b>9,001,315</b>	<b>100.0</b>	<b>4,346,555</b>	<b>4,654,760</b>	<b>51.7</b>

Source: Department of Statistics, Ministry of Planning

**Table I.1.8 Employed Persons by Industrial Sector(1994)**

WHOLE COUNTRY	Both Sexes		Male		Female	
	Number	(%)	Number	(%)	Number	(%)
All industry groups	3,939,845	100.0	1,894,008	100.0	2,045,837	100.0
Agricultural sector	2,956,746	75.0	1,340,949	70.8	1,615,797	79.0
Agriculture, hunting and forestry	2,903,031	73.7	1,305,256	68.9	1,597,775	78.1
Fishing	53,715	1.4	35,693	1.9	18,002	0.9
Industrial sector	175,991	4.5	109,304	5.8	66,686	3.3
Mining and quarrying	6,778	0.2	3,006	0.2	3,772	0.2
Manufacturing	135,090	3.4	74,939	4.0	60,151	2.9
Electricity, gas and water supply	3,306	0.1	2,977	0.2	328	0.0
Construction	30,817	0.8	28,382	1.5	2,435	0.1
Service sector	807,110	20.5	443,756	23.4	363,354	17.8
Wholesale and retail trade	385,636	9.8	102,909	5.4	282,726	13.8
Hotel and restaurants	7,279	0.2	3,637	0.2	3,642	0.2
Transport, storage and communications	121,389	3.1	104,602	5.5	16,787	0.8
Financial intermediation	3,967	0.1	2,086	0.1	1,881	0.1
Real estate, renting and business activities	12,070	0.3	8,347	0.4	3,724	0.2
Public administration and defence	145,512	3.8	136,330	7.2	12,182	0.6
Education	63,975	1.6	45,009	2.4	18,966	0.9
Health and social work	18,204	0.5	8,527	0.5	9,677	0.5
Other community, social and personal service activities	29,358	0.7	19,384	1.0	9,974	0.5
Private households with employed persons	12,673	0.3	9,962	0.5	2,711	0.1
Extra-territorial organization and bodies	3,937	0.1	2,963	0.2	1,024	0.1
<b>RURAL AREAS</b>						
	Both Sexes		Male		Female	
	Number	(%)	Number	(%)	Number	(%)
All industry groups	3,409,207	100.0	1,610,021	100.0	1,799,185	100.0
Agricultural sector	2,806,883	82.3	1,268,905	78.8	1,537,978	85.5
Agriculture, hunting and forestry	2,769,346	81.2	1,243,602	77.2	1,525,744	84.8
Fishing	37,537	1.1	25,303	1.6	12,234	0.7
Industrial sector	127,153	3.7	75,868	4.7	51,285	2.9
Mining and quarrying	5,094	0.1	2,024	0.1	3,070	0.2
Manufacturing	100,203	2.9	53,679	3.3	46,524	2.6
Electricity, gas and water supply	660	0.0	660	0.0	-	0.0
Construction	21,196	0.6	19,505	1.2	1,691	0.1
Service sector	475,168	13.9	265,247	16.5	209,921	11.7
Wholesale and retail trade	224,873	6.6	56,311	3.5	168,562	9.4
Hotel and restaurants	1,236	0.0	1,236	0.1	-	0.0
Transport, storage and communications	78,372	2.3	65,347	4.1	12,025	0.7
Financial intermediation	-	0.0	-	0.0	-	0.0
Real estate, renting and business activities	7,643	0.2	5,348	0.3	2,295	0.1
Public administration and defence	79,103	2.3	75,950	4.7	3,152	0.2
Education	48,248	1.4	36,312	2.3	11,936	0.7
Health and social work	8,676	0.3	3,686	0.2	4,991	0.3
Other community, social and personal service activities	14,821	0.4	9,879	0.6	4,932	0.3
Private households with employed persons	10,549	0.3	8,531	0.5	2,018	0.1
Extra-territorial organization and bodies	1,647	0.0	1,647	0.1	-	0.0

Source: Socio-Economic Survey of Cambodia 1993/94, National Institute of Statistics

**Table I.1.9 Volume of Exports and Imports**

	Unit	1985	1988	1989	1990	1991	1992	1993
<b>1. Exports</b>								
Kapok	ton	168.0	252.0	210.0	155.7	123.0	206.0	100.0
Rubber	1,000 ton	14.1	26.7	32.9	23.8	30.5	26.6	21.0
Car Tyres	1,000	2.2	2.9	3.5	5.3	3.5	NA	NA
Sandals	1,000	60.3	300.0	700.0	170.0	NA	NA	NA
Timber	1,000 m3	18.1	52.6	91.1	96.9	259.8	110.0	128.5
Tobacco	1,000 ton	1.1	0.1	0.4	0.3	1.5	0.1	NA
Pepper	ton	0.0	13.6	90.0	49.0	30.0	NA	NA
Soybeans	1,000 ton	6.2	0.0	16.3	13.7	49.1	9.7	2.0
Maize	1,000 ton	4.7	18.6	15.4	5.5	26.4	6.2	5.3
Lacquer	1,000 ton	7.0	99.0	50.0	NA	NA	NA	NA
<b>2. Imports</b>								
Rice	1,000 ton	0.0	5.7	0.0	0.0	15.1	16.6	NA
Condensed Milk	1,000 cans	1,384.0	1,437.0	NA	NA	NA	NA	NA
Sugar	1,000 ton	1.0	1.0	NA	NA	NA	NA	NA
Beer	1,000 bottles	1,631.0	93.4	NA	NA	2,032.1	2,333.1	47,298.0
Fabric	1,000 m	1,321.0	13,976.0	15,122.0	13,259.0	21,010.2	22,738.3	27,315.4
Mosquito Nets	1,000 m	1,158.0	280.0	NA	NA	NA	NA	NA
Cotton Fiber	ton	0.0	1,500.0	928.0	295.5	NA	NA	NA
Cement	1,000 ton	6.5	21.9	23.3	17.2	115.3	232.7	76.2
Oil and Petroleum Products	1,000 ton	164.8	166.9	187.6	205.9	156.0	NA	274.9
Cars	units	NA	NA	NA	NA	1,847	5,462	3,059
Motorcycles	units	NA	NA	NA	NA	122,611	146,556	65,476
TVs	units	NA	NA	NA	NA	25,791	13,989	80,102
VCRs	units	NA	NA	NA	NA	NA	NA	119,130
Soft Drinks	1,000 bottles	NA	NA	NA	NA	NA	NA	14,936
Cigarettes	1,000 cartons	NA	NA	NA	NA	NA	NA	1,139
Generators	units	NA	NA	NA	NA	NA	NA	2,058
Air Conditioners	units	NA	NA	NA	NA	NA	NA	3,302
Radio Cassette Recorders	units	NA	NA	NA	NA	NA	NA	180,588
Car Spare Parts	1,000 kg	NA	NA	NA	NA	NA	NA	810

Source: Ministry of Commerce and National Institute of Statistics

**Table I.1.10 Main Agricultural Exports Items**

	(unit: million US\$)				
	1989	1990	1991	1992	1993
Rubber	23.9	16.5	18.7	12.6	11.7
Timber	7.7	7.7	24.6	25.1	24.6
Soybeans	3.6	3.3	9.9	2.1	0.4
Maize	1.4	0.6	2.3	0.6	0.5
Sesame	1	0.3	1.2	0.2	0.1
Kapok	0.2	0.2	0.1	0.2	0.1
Tobacco	0.5	0.3	2.2	0.2	-

Source: Ministry of Commerce and Customs Department

**Table I.1.11 Land Use of Cambodia**

	1960-61 a)	1966-67 a)	1983-84 a)	1989 b)	1992-93 c)
Total Areas	18,103,500	18,103,500	18,103,500	18,103,500	17,912,300
1. Forest	13,284,694	13,231,060	13,155,360	12,143,000	11,262,100
2. Non-Forest	4,818,806	4,872,440	4,948,140	5,853,300	6,657,200
2.1 Cultivated Areas	2,938,131	3,048,651	2,109,801	3,785,000	4,010,740
2.1.1 Paddy Field	2,492,736	2,513,600	1,908,000	1,933,000	2,839,600
2.1.2 Other Crops	405,917	472,837	151,801	1,767,100	1,171,140
2.1.3 Rubber	39,478	62,214	-	84,900	-
2.2 Non-Cultivated Land	1,880,675	1,823,789	2,838,339	2,068,300	2,646,300
2.2.1 Open Water Areas, River, Swamp, Bare Land and Sandy Bank	-	753,388	-	539,100	226,800
2.2.2 House Lot, Towns	87,335	98,863	140,000	174,400	5,500
2.2.3 Grass Land, Thickets, Shrub, Fallow Land	580,428	580,428	581,428	1,686,400	2,414,000

Source: a) Agricultural zoning for Cambodia, Department of Planning

b) Reconnaissance land use map of Cambodia, Aug. 1991 Mekong Secretariat

c) Mekong Committee, (Landsat Imagery) 1993/94, Thai Remote Sensing Center

**Table I.1.12 Land Use by Province(1992/93)**

	Banteay Meanchey	Battambang	Kompong Speu	Kompong Chhnang	Kompong Chhnang	Kandal	Koh Kong	Kompong Chhnang	Kompong Thom	Kratie	Mondul Kiri	Preah Vihear
1. Urban/Cities	0	0	0	0	0	1	0	4	0	0	0	13
2. Cultivable Lands	2,320	2,908	1,718	1,725	1,479	2,276	529	5,218	2,754	1,096	169	484
3. Forest/Shrub Lands	4,988	9,193	5,023	3,149	3,575	935	12,428	3,883	9,470	10,517	13,142	13,107
4. Swamps	0	0	0	0	0	0	0	0	0	0	0	0
5. Grasslands	150	357	10	91	20	78	0	6	691	105	391	0
6. Marshes/Water Surface	22	13	5	7	204	282	1	202	181	310	0	0
7. Barren Lands	0	30	0	48	0	91	7	39	0	33	0	2
Total	7,481	12,501	6,756	5,020	5,278	3,683	12,963	9,358	13,076	12,061	13,702	13,586

	Prey Veng	Pursat	Ratanak Kiri	Sien Reap	Sihanouk Ville	Stung Treng	Svay River	Takeo	Phnom Penh	Tonle Sap Lake	Total
1. Urban/Cities	0	0	0	0	0	0	0	0	27	0	45
2. Cultivable Lands	4,390	1,721	878	3,533	200	237	2,589	2,644	295	0	33,144
3. Forest/Shrub Lands	321	9,601	11,605	11,913	1,159	10,642	242	505	31	0	135,434
4. Swamps	0	14	0	0	0	0	0	0	0	0	14
5. Grasslands	50	56	0	166	13	0	0	233	15	0	2,436
6. Marshes/Water Surface	74	60	80	114	0	283	13	46	27	2,216	4,126
7. Barren Lands	12	5	0	0	54	13	0	2	0	0	398
Total	4,847	11,457	12,561	15,726	1,426	11,175	2,850	3,430	492	2,216	181,536

**Table I.1.13 Change in Cultivated Area and Farm Labour in Cambodia**

	1962/63	1993/94	1995/96
(1)Population(1,000)	5,729	9,878	10,782
(2)Cultivated Area(1,000 ha)	2,786	2,129	2,287
(3)No. of Farm Households(1,000)	842	1,287	1,683
(4)Farm Household Population(1,000)	4,391	7,171	8,475
(5)Population Engaged in Own farming(1,000)	2,888	2,957	4,844
(6)Cultivated Area per Farm Household Population(ha/capita)	0.61	0.31	0.27
(7)Cultivated Area per Farm Household(ha/farm household)	3.21	1.65	1.43
(8)Cultivated Area per Population Engaged in Own Farming (ha/capita)	1.35	0.72	0.57



Table I.1.14 Estimation of Food Production by Province(1993/94)

Province	Paddy Production (ton)	Remaining Paddy for Consumption (ton)	Additional Food Crops (ton)	Food Available for Consumption (ton)	Population (person)	Balance of Food's Rice (ton)
Phnom Penh	10,225	8,691	230	5,618	909,760	-141,762
Kandal	166,635	141,640	23,675	111,491	889,050	-32,535
Kompong Cham	283,645	241,099	20,100	169,581	1,412,300	-59,211
Svay Rieng	156,576	133,090	1,000	83,526	440,015	12,235
Prey Veng	272,007	231,206	7,600	150,948	925,525	1,015
Takeo	309,455	263,037	11,800	174,883	626,910	73,323
Kompong Thom	122,000	103,700	5,000	69,294	490,120	-10,105
Siem Reap	205,200	174,420	4,200	112,380	594,890	15,968
Battambang	217,300	184,705	2,850	117,367	628,320	15,590
Banteay Mean Chey	148,600	126,310	1,100	79,412	414,490	12,265
Pursat	74,795	63,576	900	40,317	290,300	-6,713
Kompong Chhnang	92,411	78,549	3,015	51,715	320,175	-155
Sihanouk Ville	10,900	9,265	55	5,799	82,650	-7,591
Kampot	115,305	98,009	6,100	66,866	453,570	-6,615
Koh Kong	6,000	5,100	200	3,362	68,355	-7,711
Kompong Speu	84,950	72,207	4,500	49,268	472,105	-27,212
Preah Vihear	29,175	24,799	500	15,875	100,490	-405
Stung Treng	16,452	13,984	850	9,520	57,975	128
Ratanakiri	14,690	12,486	500	8,241	68,500	-2,856
Mondulakiri	4,750	4,037		2,503	23,500	-1,302
Kratie	42,279	35,937	5,800	28,081	231,000	-9,341
Total	2,383,350	2,025,847	99,975	1,356,047	9,500,000	-183,000

Table I.1.15 Food Balance in 1996

Province	Paddy Production (ton)	For Seed & Post-harvest Loss (ton)	Remaining Paddy for Consumption	Converted into Milled Rice (62%) (ton)	Population	Food Requirement per Year (ton)	Food Balance (ton)
Whole Country	3,447,827	517,177	2,930,650	1,817,000	18,530,000	1,527,600	229,400
Phnom Penh	15,810	2,370	13,440	8,330	950,430	129,340	-121,000
Kandal	249,125	37,369	211,756	131,288	984,400	149,840	-17,560
Kompong Cham	325,000	43,750	281,250	171,270	1,513,500	229,840	-57,570
Svay Rieng	214,500	32,175	182,325	113,245	474,200	71,690	41,550
Prey Veng	549,825	82,444	467,381	290,250	900,300	149,720	139,530
Takeo	437,312	65,597	371,715	230,486	753,300	113,820	116,560
Kompong Thom	162,360	24,444	138,916	85,880	559,500	84,500	1,280
Siem Reap	251,535	37,730	213,805	132,558	622,500	100,170	32,680
Battambang	296,120	44,268	251,852	156,526	716,600	123,350	47,170
Banteay Mean Chey	143,567	22,284	121,283	75,289	544,600	82,344	-4,060
Pursat	105,256	15,738	89,518	55,472	324,300	43,824	6,480
Kompong Chhnang	150,740	22,813	128,927	79,467	349,200	52,960	26,600
Sihanouk Ville	13,765	2,005	11,760	7,256	80,000	13,600	-6,360
Kep	4,150	629	3,521	2,190	25,770	3,890	-1,700
Kampot	215,220	32,253	182,967	113,316	517,300	78,216	35,100
Koh Kong	8,115	1,217	6,898	4,277	74,400	11,240	-6,970
Kompong Speu	111,810	25,772	86,038	53,544	557,200	84,240	6,290
Preah Vihear	30,630	4,500	26,130	16,126	106,000	16,820	900
Stung Treng	22,960	3,443	19,517	12,080	71,000	10,970	1,220
Ratanakiri	22,090	3,313	18,777	11,640	75,300	11,390	290
Mondulakiri	9,360	1,427	7,933	4,911	26,400	3,840	1,120
Kratie	44,350	6,653	37,697	23,372	228,500	34,560	-11,170

Source: Agricultural Statistics 1996, Ministry of Agriculture, Forestry and Fishery

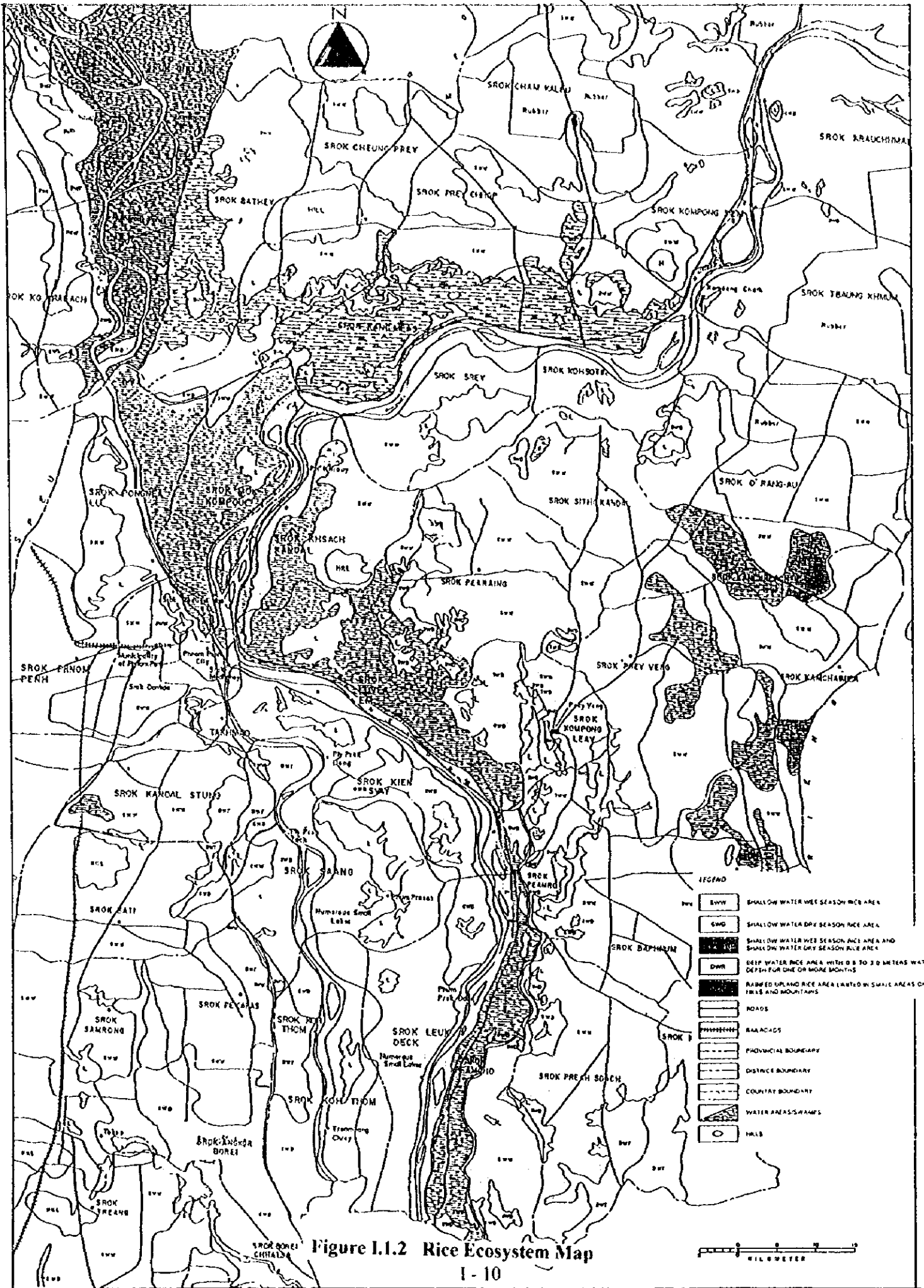


Figure I.1.2 Rice Ecosystem Map  
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Table I.1.16 Rice Ecosystem by Province(1992/93)

Province	Total	Irrigated Area (ha)						Irrigated Area (%)					
		Single		Double		Total		Single		Double		Total	
		Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry
Phnom Penh/Kandal	91,000	10,092	2,940	18,260	1,000	57,218	11.1	1.6	12.7	3.2	20.1	1.1	62.9
Kompong Cham	179,760	20,305	3,965	24,270	225	148,165	11.3	2.2	13.5	0.1	1.7	2.2	82.4
Svay Rieng	165,320	8	235	243	0	161,762	0.0	0.1	0.1	0.2	0.0	1.8	97.8
Prey Veng	253,960	4,455	3,625	8,080	4,729	217,558	1.8	1.4	3.2	1.9	5.0	4.3	86.7
Takeo	216,280	1,235	11,210	12,445	10,590	142,195	0.6	5.2	5.8	4.9	14.4	9.2	63.7
Kompong Thom	132,650	10,200	22,520	32,720	1,370	68,560	7.7	17.0	24.7	1.0	0.0	22.6	51.7
Siem Reap	158,900	13,160	5,100	18,260	3,000	122,395	8.3	3.2	11.5	1.9	2.0	7.6	77.0
Battambang	143,810	2,820	21,170	23,990	507	112,313	2.0	14.7	16.7	0.4	0.0	4.9	78.1
Banteay Mean Chey	121,500	100	9,020	9,120	93	96,287	0.1	7.4	7.5	0.1	0.0	13.2	79.2
Pursat	56,360	4,317	0	4,317	0	46,043	7.7	0.0	7.7	0.0	0.0	10.6	81.7
Kompong Chhnang	80,880	5,415	200	5,615	100	63,556	6.7	0.2	6.9	0.1	0.8	13.6	78.6
Kompong Som	9,920	0	0	0	0	9,920	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Kampot	102,890	2,030	2,950	4,980	1,370	96,540	2.0	2.9	4.8	1.3	0.0	0.0	93.8
Koh Kong	5,300	0	0	0	0	5,300	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Kompong Speu	69,260	11,606	6,952	18,558	743	49,959	16.8	10.0	26.8	1.1	0.0	0.0	72.1
Preah Vihear	9,000	0	0	0	0	9,000	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Stung Treng	10,980	0	0	0	0	10,980	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Ratanakiri	4,950	0	0	0	0	4,950	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Mondulakiri	4,100	0	0	0	0	4,100	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Kratie	27,180	2,547	0	2,547	0	21,316	9.4	0.0	9.4	0.0	12.2	0.0	78.4
Total	1,844,000	88,290	88,437	176,727	25,982	1,448,117	4.8	4.8	9.6	1.4	3.9	6.6	78.5

Source: Agriculture and Rural Development in Cambodia

**Table I.1.17 Mean Income, Expenditure and Poverty Line**

	(unit: Riels/month/family)			Poverty Line (Riels/Month/Family)
	Mean Income ①	Mean Expenditure ②	①/②x100	
Whole Country	169,271	298,556	58.3	NA
Phnom Penh	535,542	781,281	68.6	371,533
Other Urban	264,358	439,517	68.1	223,228
Rural	138,849	238,772	54.8	185,835

Source: Socio-Economic Survey of Cambodia 1993/94, National Institute of Statistics

**Table I.1.18 Income Source of Household in the Rural Areas**

	Average Monthly Household Income (Riels)	Proportion (%)
Total	131,157	100.0
Monetary Income	91,730	69.9
Wages & salaries	8,726	6.7
Pensions, disability, others	141	0.1
Other periodic cash receipts	2,571	2.0
Business activities	46,364	35.4
Agricultural products	33,928	25.9
Non-Monetary Income	39,427	30.1
Agricultural products	21,176	16.1
Paddy	14,085	10.7
Sugarcane	75	0.1
Vegetables and fruits	3,533	2.7
Tobacco	1,670	1.3
Maize	46	0.0
Cassava, sweet potato	58	0.0
Meat (cow, pigs, buffaloes etc)	346	0.3
Fish	1,362	1.0
Eggs	0	0.0
Other food items	0	0.0
Forestry Products	0	0.0
Others	0	0.0
Net Rental Value of Owner-Occupied House	8,208	6.3
Income in Kind	914	0.7
Meals and food items	326	0.2
Housing	39	0.0
Clothing	371	0.3
Medical facilities	12	0.0
Others	166	0.1
Non-Agricultural Activities	9,129	7.0

Source: Socio-Economic Survey of Cambodia 1993/94, Institute of Statistics

**Table I.1.19 Average Monthly Expenditure of Household in the Rural Areas**

All Items	297,546	Proportion
		(%)
Food, Beverages and Tobacco	160,723	67.7
Food	153,257	58.6
Non-Alcoholic Beverages	110	0.0
Alcoholic Beverages	2,235	0.9
Tobacco Products	6,243	2.6
Other Food Products	925	0.4
Food away from home	11,913	5.0
Clothing and Footwear	3,484	4.0
Housing and Utilities	19,054	8.0
Rent (average per month)	8,421	3.5
House Maintenance and Minor Repair	359	0.2
Water, Light and Fuel	10,274	4.3
House Furnishings & Household Operations	4,581	1.9
Medical Care and Health Expenses	19,972	8.4
Transport and Communications	8,814	3.7
Recreation, Entertainment, Education and Cultural Services	3,596	1.5
Personal Care and Effects	5,287	2.2
Miscellaneous Expenditure	6,115	2.6
Special Household Occasions	3,943	1.6
Non-Consumption Expenditure	2,272	1.0

Source: Socio-Economic Survey of Cambodia 1993/94, Institute of Statistics

**Table I.1.20 Average Monthly Expenditure for Food(1993/94)**

	Cambodia		Phnom Penh		Other Urban		(Value in Riels) Rural	
	Value	%	Value	%	Value	%	Value	%
	Food, beverages and tobacco	182,617	100.0	376,202	100.0	252,192	100.0	160,723
Cereal and cereal preparation	42,152	23.1	51,123	13.6	48,043	18.3	41,077	25.6
Rice	37,414	20.5	39,658	10.5	37,117	14.7	37,261	23.2
Noodles	2,550	1.4	6,642	1.8	4,810	1.9	2,016	1.3
Others	2,188	1.2	4,831	1.3	4,116	1.6	1,800	1.1
Meat, poultry and fish	58,326	31.9	111,383	29.6	78,610	31.2	52,216	32.5
Eggs	3,959	2.2	8,834	2.3	4,834	1.9	3,487	2.2
Dairy products	1,219	0.7	5,249	1.4	2,244	0.9	801	0.5
Oil and fats	2,946	1.6	4,944	1.3	3,493	1.4	2,736	1.7
Vegetables	15,917	8.7	28,687	7.6	24,376	9.7	14,123	8.8
Fruits	11,845	6.5	33,079	8.8	20,163	8.0	9,382	5.8
Miscellaneous foods	16,631	9.1	27,188	7.2	20,004	7.9	15,475	9.6
Beverages	3,347	1.8	11,388	3.0	7,327	2.9	2,345	1.5
Tobacco products	7,236	4.0	15,588	4.1	10,841	4.3	6,243	3.9
Other food products	1,513	0.8	6,842	1.8	3,353	1.3	925	0.6
Food away from home	17,519	9.6	72,056	19.2	30,913	12.3	11,913	7.4

Source: Socio-Economic Survey of Cambodia 1993/94

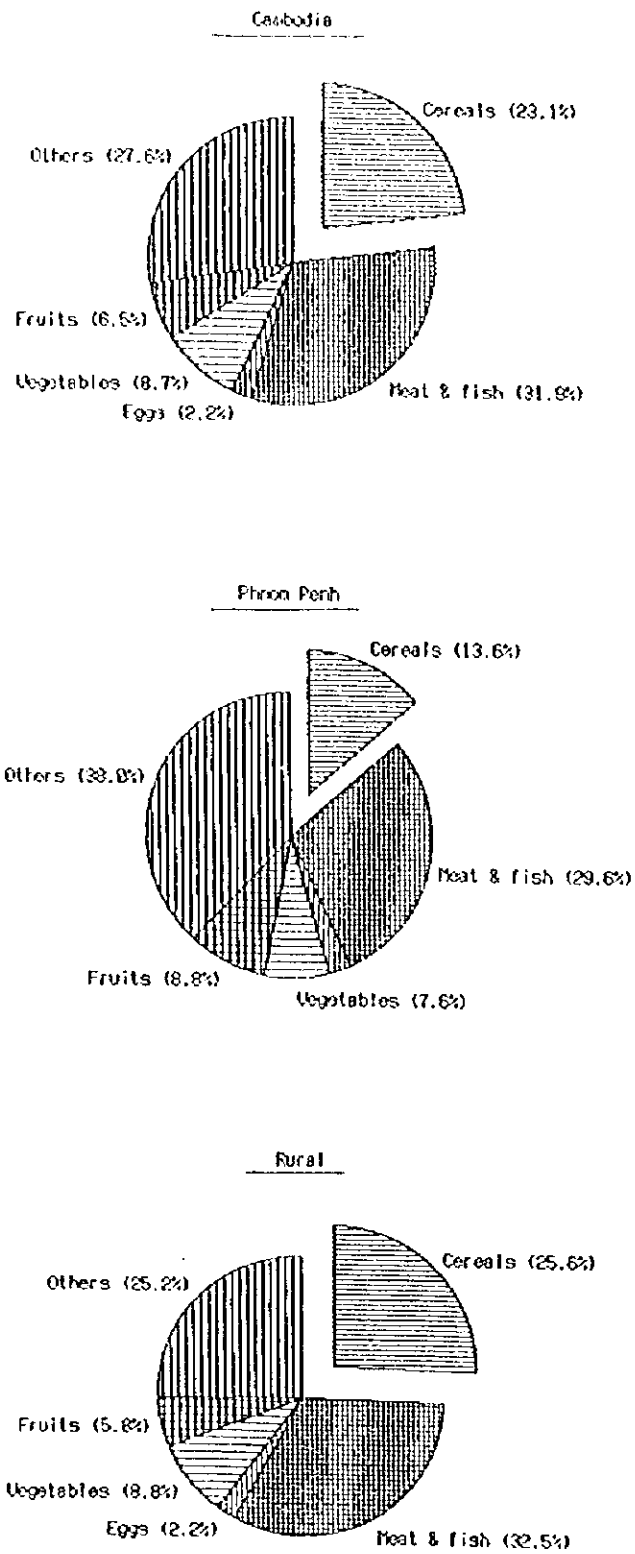


Figure I.1.3 Average Monthly Expenditure for Food(1993/94)

## L2 AGRICULTURE

Table 1.2.1 Cultivated Area with Paddy

Year	Cultivated Area (1,000 ha)		Total	Harvested Area (1,000 Ha)	Production (1,000 ton)	Yield (ton/ha)
	Wet Season	Dry Season				
1979-80	686	88	774	700	538	0.77
1980-81	1,346	95	1,441	1,440	1,717	1.19
1981-82	1,343	150	1,493	1,317	1,490	1.13
1982-83	1,546	128	1,674	1,615	1,949	1.21
1983-84	1,624	116	1,740	1,612	2,039	1.26
1984-85	1,299	119	1,418	978	1,260	1.29
1985-86	1,345	117	1,462	1,450	1,812	1.25
1986-87	1,413	122	1,535	1,520	2,093	1.38
1987-88	1,249	129	1,378	1,370	1,815	1.32
1988-89	1,735	144	1,879	1,825	2,500	1.37
1989-90	1,787	145	1,932	1,861	2,672	1.44
1990-91	1,740	150	1,890	1,855	2,500	1.35
1991-92	1,761	149	1,910	1,719	2,400	1.40
1992-93	1,701	143	1,844	1,685	2,221	1.32

Source: Agriculture and Rural Development in Cambodia, 1994 ADCA Country Workshop

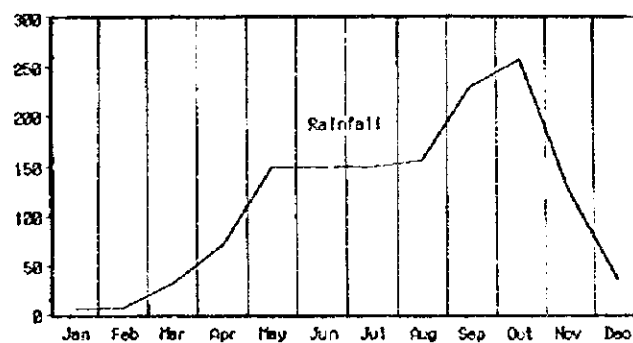
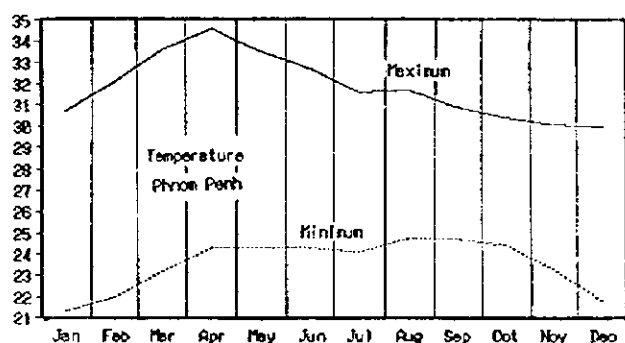
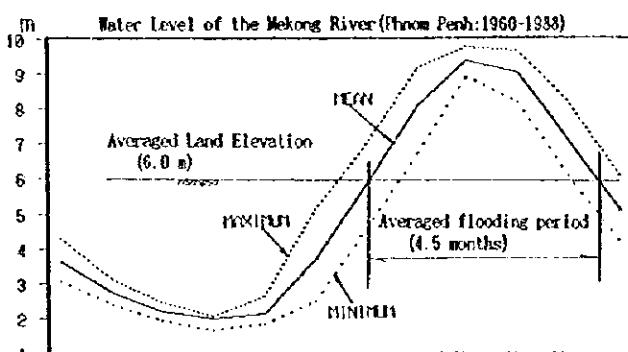
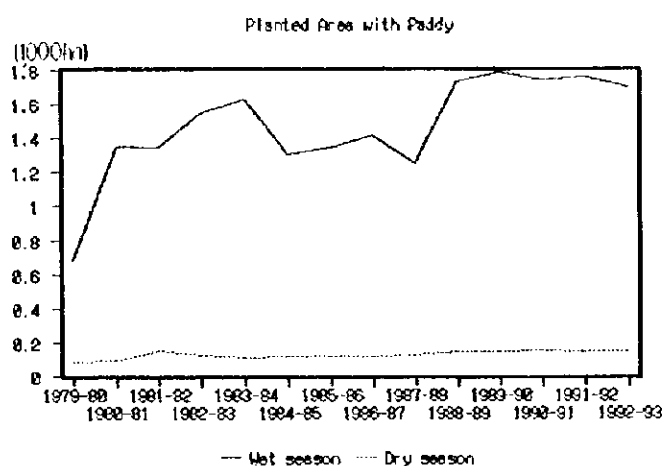


Figure 1.2.1 Climatic Conditions, Water Level of Mekong River and Planted Area with Paddy

**Table 1.2.2 Crop Production**

Crop Cultivated Area

(unit:1,000 ha)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Paddy	1,441	1,493	1,674	1,740	1,418	1,462	1,535	1,378	1,879	1,932	1,890	1,910	1,844	1,750	1,494
Maize	101	85	61	49	43	46	43	40	50	49	45	50	48	44	52
Cassava	19	25	12	11	5	8	12	10	27	10	11	11	16	7	11
Sweet Potato	9	11	8	6	5	5	6	5	8	7	8	9	10	9	11
Vegetables	48	29	27	27	25	26	21	23	55	27	29	27	25	30	35
Mungbean	16	39	37	40	35	39	26	29	44	26	25	27	24	24	27
Groundnut	4	10	8	10	6	9	6	5	9	5	6	7	7	6	8
Soybean	5	3	3	5	5	10	7	11	12	13	15	14	16	16	25
Sesame	3	6	8	10	9	11	14	16	11	12	10	16	13	11	11
Sugarcane	2	2	8	9	7	8	7	7	7	7	6	6	6	7	8
Tobacco	0	9.1	9.2	9.0	12.0	11.3	11.5	12.4	11.5	11.5	15.6	17.4	17.5	20.0	15.0
Jute	0.3	0.7	1.1	1.8	1.3	2.1	3.0	5.4	2.9	2.0	1.6	1.4	1.9	2.0	2.0
Cotton	0.2	0.2	0.3	0.3	0.5	0.8	1.5	0.8	0.7	0.2	0.9	0.2	0.2	0.2	0.4
Black Pepper	0.00	0.01	0.01	0.02	0.05	0.07	0.11	0.07	0.22	0.28	0.26	0.24	0.27	0.27	-

Source: Bulletin of Statistics and Agricultural Studies

Agricultural Production

(unit:1,000 ton)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Paddy	1,717	1,490	1,949	2,039	1,260	1,812	2,093	1,815	2,500	2,672	2,500	2,400	2,221	2,117	2,223
Maize	101	85	51	43	43	42	51	38	41	54	88	60	60	54	45
Cassava	152	182	76	42	31	17	62	46	266	63	60	56	150	66	65
Sweet Potato	45	59	31	66	14	15	27	17	78	25	31	39	60	55	36
Vegetables	106	290	131	172	141	143	156	146	193	193	170	249	210	200	197
Mungbean	10	21	18	29	16	21	16	23	22	14	12	13	14	12	17
Groundnut	3	6	5	7	3	5	4	4	6	3	4	4	4	4	5
Soybean	3	2	1	2	3	13	5	9	12	20	22	35	40	39	23
Sesame	1	3	3	4	4	6	7	8	4	6	5	8	6	5	4
Sugarcane	40	56	240	300	190	169	154	164	138	244	258	145	142	140	219
Tobacco	0	4.5	4.5	5.0	5.0	5.6	6.1	6.6	5.8	5.9	7.8	8.8	8.9	10.0	12.0
Jute	0	0.6	0.7	0.9	0.8	3.4	4.4	8.2	3.5	2.1	1.6	1.3	1.5	1.6	1.9
Cotton	0	0.2	0.2	0.1	0.2	0.3	1.0	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Black Pepper	0	0.01	0.01	0.01	0.02	0.07	0.05	0.10	0.28	0.45	0.28	0.35	0.37	0.37	-
Rubber	1	4	7	9	13	18	25	25	31	33	35	35	28	-	-

Source: Bulletin of Statistics and Agricultural Studies

Crop Yield

(unit:ton/ha)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Paddy	1.19	1.13	1.20	1.26	1.23	1.25	1.37	1.32	1.36	1.43	1.34	1.39	1.31	1.21	1.50
Maize	1.00	1.00	0.83	0.87	1.11	0.91	1.18	0.95	0.82	1.10	1.95	1.20	1.25	1.23	1.22
Cassava	8.00	7.28	6.33	3.32	6.20	2.12	5.71	4.60	9.85	6.30	5.45	5.09	9.37	9.50	6.50
Sweet Potato	5.00	5.36	3.87	2.67	2.80	3.00	4.50	3.40	9.75	3.57	3.87	4.33	6.00	6.00	3.60
Vegetables	2.20	10.00	4.85	6.37	5.64	5.50	7.42	6.34	3.50	7.14	5.85	9.22	8.40	6.66	5.79
Mungbean	0.62	0.54	0.43	0.50	0.46	0.54	0.61	0.79	0.55	0.54	0.48	0.48	0.58	0.50	0.65
Groundnut	0.75	0.60	0.62	0.70	0.50	0.55	0.66	0.80	0.66	0.60	0.66	0.57	0.57	0.55	0.71
Soybean	0.60	0.66	0.33	0.40	0.60	1.30	0.71	0.82	1.00	1.54	1.47	2.50	2.50	2.50	1.04
Sesame	0.33	0.50	0.37	0.40	0.40	0.54	0.50	0.50	0.36	0.50	0.50	0.50	0.46	0.40	0.44
Sugarcane	20.00	28.00	30.00	33.33	27.14	21.12	22.00	23.42	19.71	32.00	44.00	24.16	23.66	20.00	31.30
Tobacco	0.00	0.49	0.53	0.55	0.41	0.49	0.53	0.53	0.50	0.51	0.50	0.50	0.50	0.50	0.86
Jute	0.66	0.85	0.63	0.50	0.61	1.62	1.46	1.52	1.20	1.05	1.00	0.93	0.79	0.79	1.06
Cotton	0.50	1.00	0.66	0.33	0.40	0.37	0.60	1.62	0.14	0.50	0.11	0.50	0.50	0.50	0.43
Black Pepper	0.00	1.00	1.00	0.50	0.40	0.40	0.45	1.43	1.27	1.60	1.02	1.46	1.37	1.37	-

Source: Bulletin of Statistics and Agricultural Studies



**Table I.2.3 Paddy Production by Province(1994)**

Province	Cultivated Area (ha)			Harvested Area (ha)	Yield (t/ha)	Production (ton)
	Total	Wet Season	Dry Season			
Whole Country	1,924,000	1,754,000	170,000	1,494,000	1.49	2,223,000
Phnom Penh	9,900	8,630	1,270	7,330	1.68	12,300
Kandal	83,790	45,000	38,790	66,040	3.18	210,200
Kompong Cham	190,390	170,000	20,390	141,390	1.56	220,000
Svay Rieng	159,700	156,950	2,750	148,930	1.04	154,400
Prey Veng	230,290	195,700	34,590	177,560	1.16	205,300
Takeo	227,750	185,160	42,590	189,100	1.28	242,100
Kompong Thom	127,460	124,600	2,860	89,630	1.50	134,100
Siem Reap	178,860	169,700	9,160	153,660	1.44	221,000
Battambang	143,520	141,340	2,180	75,920	2.00	152,100
Banteay Mean Chey	126,500	126,500	-	80,830	2.05	165,300
Pursat	66,160	65,380	780	58,160	1.46	84,700
Kompong Chhnang	83,370	76,190	7,180	67,750	1.27	86,200
Sihanouk Vill	9,270	9,270	-	9,260	1.18	10,900
Kampot	124,720	123,740	980	108,000	1.34	144,600
Koh Kong	3,500	3,500	-	3,360	1.43	4,800
Kompong Speu	78,740	77,780	960	60,490	1.36	82,400
Preah Vihear	17,000	17,000	-	12,050	1.86	22,400
Stung Treng	13,280	13,280	-	9,400	0.86	8,100
Ratanakiri	13,050	13,000	50	6,650	2.26	15,000
Mondulkiri	5,000	5,000	-	3,010	2.23	6,700
Kratie	31,750	26,280	5,470	25,480	1.59	40,400

**Table I.2.4 Paddy Production by Province(1995)**

	Wet Season				Dry Season				Total			
	Cultivated Areas (ha)	Harvested Areas (ha)	Yield (t/ha)	Production (t)	Cultivated Areas (ha)	Harvested Areas (ha)	Yield (t/ha)	Production (t)	Cultivated Areas (ha)	Harvested Areas (ha)	Yield (t/ha)	Production (t)
Phnom Penh	8,580	7,038	1.82	12,809	1,270	1,270	2.27	3,000	9,850	8,308	1.90	15,809
Kandal	48,547	44,361	2.23	98,925	44,147	43,476	3.09	150,200	92,694	87,837	2.84	249,125
Kompong Cham	167,500	167,500	1.60	268,000	23,640	23,640	2.42	57,000	191,140	191,140	1.70	325,000
Svay Rieng	154,227	147,057	1.36	199,988	3,570	3,570	2.15	14,500	159,797	152,627	1.41	214,488
Prey Veng	229,331	205,025	1.70	348,543	55,720	55,720	2.49	201,200	286,051	261,745	2.10	549,743
Takeo	184,865	177,159	1.65	292,312	52,712	52,712	2.75	145,000	237,577	229,871	1.90	437,312
Kompong Thom	126,144	110,315	1.45	159,957	1,703	1,599	2.17	3,000	127,817	111,914	1.46	162,957
Siem Reap	176,155	165,015	1.40	231,021	9,510	9,435	2.00	20,500	185,665	174,500	1.44	251,521
Battambang	173,323	145,363	1.58	287,819	2,428	2,428	3.00	7,300	175,751	147,791	2.00	295,119
Banteay Meanchey	141,150	102,282	1.41	147,286	538	538	2.48	1,270	141,688	102,820	1.44	148,556
Pursat	80,000	70,868	1.45	102,756	1,039	1,013	3.00	2,500	81,039	71,879	1.46	105,256
Kompong Chhnang	78,979	75,844	1.70	129,935	8,290	8,120	2.88	21,000	87,269	83,964	1.79	143,935
Sihanouk Ville	8,897	8,003	1.72	13,765	0	0	0.00	0	8,897	8,003	1.72	13,765
Kep	2,594	2,594	1.60	4,150	0	0	0.00	0	2,594	2,594	1.60	4,150
Kam Pot	129,658	127,713	1.65	210,726	2,006	2,006	2.69	4,500	131,664	129,719	1.66	215,226
Kob Kong	5,193	5,072	1.60	8,115	0	0	0.00	0	5,193	5,072	1.60	8,115
Kompong Speu	84,675	78,305	2.16	169,139	983	979	2.85	2,500	85,658	79,284	2.16	171,639
Preah Vihea	17,000	17,000	1.80	30,600	0	0	0.00	0	17,000	17,000	1.80	30,600
Stung Treng	13,500	13,500	1.79	22,950	0	0	0.00	0	13,500	13,500	1.79	22,950
Ratanakiri	12,997	12,997	1.79	22,995	0	0	0.00	0	12,997	12,997	1.79	22,995
Mondulkiri	5,500	5,500	1.70	9,350	14	14	2.85	39	5,514	5,514	1.70	9,389
Kratie	21,266	20,532	1.60	32,851	5,430	5,430	2.94	11,500	26,696	25,962	1.71	44,351
Total	1,859,951	1,709,041		2,802,102	215,000	215,000		645,000	2,084,991	1,924,041	1.79	3,447,102

Source: Agricultural Statistics, Ministry of Agriculture

**Table 1.2.5 Planted Areas for major Crops by Season(1995)**

	Wet Season		Dry Season		Total		Share (%)
	Areas(ha)	%	Areas(ha)	%	Areas(ha)	%	
Paddy	1,869,991	89.6	216,080	10.4	2,085,991	100.0	91.31
Maize	45,800	87.2	6,580	12.8	51,580	100.0	2.26
Cassava	12,000	84.6	2,190	15.4	14,190	100.0	0.62
Sweet Potato	7,000	68.4	3,240	31.6	10,240	100.0	0.45
Vegetables	25,500	66.0	13,190	34.0	38,750	100.0	1.70
Mungbean	15,340	68.0	10,240	40.0	25,580	100.0	1.12
Sugarcane	5,950	69.8	2,570	30.2	8,520	100.0	0.37
Soybean	16,510	100.0	-	0.0	16,510	100.0	0.72
Groundnut	6,810	68.8	3,090	31.2	9,900	100.0	0.43
Sesame	8,280	95.7	375	4.3	8,655	100.0	0.38
Tobacco	90	0.7	13,478	99.3	13,568	100.0	0.59
Jute	810	88.5	105	11.5	915	100.0	0.04
Total	2,013,341	88.1	271,058	11.9	2,284,399	100.0	100.00

Source. Agricultural Statistics 1995

Note. Planted areas for fruits are not included because of absence of statistics

**Table 1.2.6 Planted Area with Wet Season Paddy**

Province	(1,000 ha)												
	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
Andhra Pradesh	1,345.0	1,343.2	1,526.0	1,624.0	1,699.2	1,345.0	1,413.0	1,249.0	1,735.2	1,763.0	1,748.0	1,704.0	1,701.0
Assam	2.1	1.5	1.5	2.5	2.0	2.0	3.0	9.0	12.0	12.2	12.0	12.0	9.9
Bihar	55.0	52.0	59.0	52.5	46.0	48.0	37.0	30.0	45.0	61.0	57.0	57.0	47.0
Chhattisgarh	137.0	135.0	139.0	145.0	130.0	128.0	142.0	118.0	143.0	159.0	157.0	150.0	150.0
Goa	87.0	102.0	118.0	133.5	99.0	109.0	136.0	150.0	159.0	157.0	152.0	157.0	154.0
Gujarat	174.0	175.0	207.0	212.5	197.0	197.0	209.0	196.0	225.0	242.0	238.0	227.0	227.0
Haryana	144.5	30.0	127.0	135.0	136.0	112.0	153.0	121.0	179.0	180.0	172.0	131.0	176.0
Madhya Pradesh	170.5	30.0	115.0	117.0	26.0	105.0	97.0	26.0	136.0	140.0	135.0	141.0	130.0
Madhya Pradesh	150.0	140.0	151.0	163.0	145.0	142.0	132.0	114.0	171.0	161.0	157.0	146.0	154.0
Madhya Pradesh	292.5	281.0	268.0	296.0	183.0	176.0	204.0	200.0	129.0	152.0	151.0	152.0	149.0
Madhya Pradesh	41.0	50.0	64.0	75.0	51.0	63.0	48.0	45.0	75.0	77.0	73.0	73.0	56.0
Madhya Pradesh	32.5	40.0	41.0	43.0	26.0	40.0	36.0	34.0	62.0	60.0	58.0	53.0	74.0
Madhya Pradesh	9.0	12.0	15.0	14.0	3.0	9.0	9.0	8.0	11.0	12.0	12.0	12.0	9.9
Madhya Pradesh	76.5	80.0	91.0	36.0	26.0	38.0	32.0	37.0	121.0	130.0	122.0	112.0	121.0
Madhya Pradesh	8.0	9.0	8.0	9.0	7.0	6.0	6.0	4.0	6.0	5.0	5.0	6.0	5.0
Madhya Pradesh	63.0	49.0	69.0	72.0	60.0	66.0	53.0	46.0	73.0	82.0	79.0	90.0	67.0
Madhya Pradesh	13.0	13.0	14.0	14.0	11.0	11.0	14.0	12.0	15.0	14.0	14.0	14.0	9.0
Madhya Pradesh	9.0	9.0	10.0	12.0	9.0	8.0	7.0	7.0	8.0	9.0	7.0	10.0	11.0
Madhya Pradesh	10.0	11.0	13.0	13.0	15.0	13.0	9.0	8.0	13.0	13.0	13.0	13.0	5.0
Madhya Pradesh	3.0	3.0	4.0	5.0	5.0	5.0	4.0	4.0	5.0	6.0	5.0	6.0	4.1
Madhya Pradesh	14.5	13.0	15.0	16.0	21.0	19.0	19.0	19.0	23.0	24.0	24.0	23.0	22.0

Source. Crop Assessment Survey, Ministry of Agriculture, Forestry and Fisheries

**Table 1.2.7 Planted Area with Dry Season Paddy**

Province	(1,000 ha)												
	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93
Andhra Pradesh	35.0	150.0	129.0	116.0	119.0	117.0	122.0	129.0	114.0	145.0	150.0	149.0	143.0
Assam	0.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
Bihar	25.0	34.0	32.0	28.5	28.0	28.0	30.0	32.0	37.0	36.0	36.0	39.0	34.0
Chhattisgarh	10.0	17.0	16.0	15.0	16.0	14.5	12.0	15.0	19.0	20.0	21.0	19.0	19.0
Goa	0.7	1.0	-	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7
Gujarat	15.0	31.0	29.0	22.5	23.0	20.0	25.0	22.0	26.0	25.0	27.0	27.0	27.0
Haryana	23.5	38.0	26.0	33.0	31.0	32.0	30.0	33.0	35.0	39.0	39.0	40.0	40.0
Madhya Pradesh	0.5	4.0	1.0	1.0	1.0	1.0	3.0	2.0	2.0	2.0	3.0	1.0	1.0
Madhya Pradesh	9.0	10.0	9.0	5.0	5.0	4.0	5.0	5.0	5.0	5.0	6.0	6.0	4.0
Madhya Pradesh	0.5	-	-	-	1.0	1.5	1.0	2.0	1.0	1.0	1.0	1.0	0.5
Madhya Pradesh	-	0.5	0.5	-	-	-	1.0	1.0	1.0	1.0	1.0	-	0.0
Madhya Pradesh	7.5	8.0	8.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Madhya Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	-	0.5	0.5	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	3.5	5.0	4.0	4.0	4.0	5.0	5.0	6.0	6.0	5.0	5.0	3.0	5.0

Source. Crop Assessment Survey, Ministry of Agriculture, Forestry and Fisheries

**Table I.2.8 Maize Production by Province(1994)**

Province	Cultivated Area (ha)			Harvested Area (ha)	Yield (t/ha)	Production (ton)
	Total	Wet Season	Dry Season			
Whole Country	52,000	44,000	8,000	37,000	1.22	45,000
Banong Pech	450	220	240	460	1.00	460
Bandal	18,700	15,700	3,000	15,200	1.51	22,900
Kompong Cham	10,600	10,250	340	2,930	0.96	2,800
Svay Rieng	28	28	-	28	1.00	28
Prey Veng	8,300	5,700	2,600	6,200	1.03	6,400
Takeo	702	452	250	700	0.97	682
Kompong Thom	750	750	-	800	0.79	630
Siem Reap	1,140	730	410	1,130	0.98	1,110
Pattambang	850	550	300	850	0.98	830
Banteay Mean Chey	710	710	-	710	1.00	710
Nursat	350	320	30	350	0.97	340
Kompong Chhnang	1,820	1,220	600	1,380	0.87	1,200
Sihanouk Vill	0	-	-	-	-	-
Compot	1,890	1,650	150	1,800	1.00	1,800
Koh Kong	200	120	80	200	0.75	150
Kompong Speu	550	550	-	560	0.89	500
Fresh Vihear	530	530	-	530	1.57	830
Stung Treng	520	520	-	290	0.93	270
Batanakiri	950	950	-	950	1.21	1,150
Mondulkiri	920	920	-	920	1.21	1,110
Kratie	2,100	2,100	-	1,012	1.09	1,100

**Table I.2.9 Vegetable Production by Province(1994)**

Province	Cultivated Area (ha)			Harvested Area (ha)	Yield (t/ha)	Production (ton)
	Total	Wet Season	Dry Season			
Whole Country	35,000	22,000	13,000	31,000	5.79	197,000
Banong Pech	950	490	470	950	5.76	5,470
Bandal	5,560	2,290	3,270	5,410	6.34	34,490
Kompong Cham	2,750	1,410	1,340	1,990	1.79	3,560
Svay Rieng	870	600	270	870	5.33	4,640
Prey Veng	1,520	850	670	1,450	3.79	5,500
Takeo	4,300	3,070	1,230	4,300	6.64	28,540
Kompong Thom	790	700	90	760	7.26	5,520
Siem Reap	2,560	1,060	1,480	2,560	7.24	18,540
Pattambang	950	590	390	950	8.58	8,110
Banteay Mean Chey	640	640	-	640	5.03	3,220
Nursat	650	350	300	650	7.77	5,050
Kompong Chhnang	2,780	870	1,910	2,780	4.71	13,100
Sihanouk Vill	60	50	10	60	11.00	660
Compot	5,030	4,350	680	5,030	8.87	44,600
Koh Kong	200	110	90	200	5.50	1,100
Kompong Speu	2,840	2,730	110	2,830	0.72	2,050
Fresh Vihear	400	400	-	400	1.88	750
Stung Treng	530	530	-	530	4.96	2,630
Batanakiri	360	360	-	360	2.08	750
Mondulkiri	210	210	-	210	1.48	310
Kratie	1,010	320	690	1,010	8.03	8,110

Source: Bulletin of Statistics and Agricultural Studies

**Table I.2.10 Number of Livestock**

	(unit:1,000 head/birds)														
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Cows	917	917	1,143	1,271	1,436	1,560	1,705	1,852	1,891	2,095	2,181	2,257	2,468	2,542	2,621
Buffaloes	375	404	482	540	603	613	635	659	709	739	736	755	804	824	810
Pigs	131	223	723	824	1,009	1,203	1,161	1,251	1,500	1,137	1,515	1,550	2,043	2,123	2,024
Poultry	2,412	2,883	4,779	4,595	5,430	6,393	7,347	7,164	9,259	8,717	8,163	8,816	9,901	10,692	10,026
Draught Oxen	562	635	703	811	832	780	786	893	952	942	1,018	1,042	1,050	1,184	1,161
Buffaloes	277	294	323	380	372	425	452	453	456	419	478	502	452	520	473

Source: Bulletin of Statistics and Agricultural Studies

**Table I.2.11 Fish Production**

	(unit:1,000 ton)														
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Fresh Fish	20	52	69	68	64	71	74	82	87	82	111	118	103	94	65
Dried Fresh	-	-	5	5	5	3	3	3	3	2	3	2	2	3	30
Preserved Fish	-	1	3	3	4	4	6	4	6	3	6	6	4	5	8

Source: Bulletin of Statistics and Agricultural Studies