JRPAN INTERNATIONAL COOPERATION AGENCY (JICA) CENTRE DE DEVELOPPEMENT DES ENERGIES RENOUVELABLES (CDER) KINGDOM OF MOROCCO

MASTER PLAN STUDY ON DECENTRALIZED RUBAL ELECTRIFICATION OF HAOUZ REGION IN KINGDOM OF MOROCCO

### **APPENDICES**



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JANUARY 1998

CHUO KAIHATSU CORPORATION SANYU CONSULTANTS INC. .

**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)** 

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### APPENDICES

### **JANUARY 1998**

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CHUO KAIHATSU CORPORATION SANYU CONSULTANTS INC.



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### COMPONENT OF THE REPORTS

**ENGLISH** 

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VOLUME-I	MASTER PLAN STUDY ON ELECTRIFICATION PLAN
VOLUME - II	PRE-FEASIBILITY STUDY ON MICRO-HYDROPOWER
	GENERATION
APPENDICES	INVENTORY
SUMMARY	

<u>FRENCH</u>

RESUME

### 

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### **APPENDIX-5** Electrical Aspect Inventory

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### APPENDIX-1 Questionnaire Form

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	1/7 MACHREB-PROJETS	NOI		imber of Douar				Maghreb-projets s.a. Ingenieurs Conseils
to the second	net of village	MASTER PLAN STUDY ON DECENTRALIZED RURAL ELECTRIFICATION OF HAOUZ REGION IN THE KINGDOM OF MOROCCO	VILLAGE	Name of Douar	96			
	Questionnaire to the chief of village	MASTER PLAN STUDY ON DECENTRALIZED RURAL ELE OF HAOUZ REGION IN THE KINGDOM OF MOROCCO	QUESTIONNAIRE C	Commune rurale	. Date of interview Date of supervising		: :	
	CDER/ JICA	MASTER		SECTION 0 0- Number of QuestionnaireCommune rurale 1- CercleCommune ruraleA 2- Name of chief of DouarA 3- Number and name of villages under the responsibility of chief of village (No)	<ul> <li>4- Name of interviewer.</li> <li>5- Name of supervisor.</li> <li>6- Observations and comments: Interviewer.</li> </ul>	Supervisor.		

### 1-1 Questionnaire Form for Village Leaders

SECTION 1

Name and No. of Douar

Questionnaire to the chief of village

.

Number of habitants

Number of households

Composition of houses by age and sex (in %).

100 %	%	%	TOTAL
%	%	%	More than 65
%	%	%	15 - 65 years
%	%	%	0 - 15 years
TOTAL	Fenine	Masculine	Section of ages

### Managing and management of village.

Number of adherents	
Role	
Name of organization	

### Relationship between Douars

Human relationship	Name of city or village
Toward which other villages or cities, the people used to make their shopping?	
From where the commodities are transported for the village people?	
Migration: Place of ongin of the people of your village?	
Place of destination of the people of your village?	
In which other willages or cities do the people of your willage	
work?	

# Number of families living in the village having the same name?

<u>8</u>	T_	Γ	1	
Number of house				
Name of family				
Number of houses				
Name of family				
Name of family Number of houses Name of family Number of houses Name of family Number of houses				
Name of family				
Number of houses				
Name of family				
Number of houses				
Name of family				L

History of the village (date of creation)

Special events (Moussem: annual festival)

Name of Moussem	Place	period (date)	Duration ( in days)

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Average number of persons per house

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Questionmaire to the chief of village

SECTION 2 Activity

Distribution of households according to the type of activities (chief of household)

						1	;		
Activity			Agricultural activities				ð	<b>Other activities</b>	
	agriculture	Breeding	agriculture and	Part-time	Forestry	public	services/	, small	abroad
			breeding	agriculture			commerce	industries	and others
Number of									
households			-						

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Surface area of the agricultural lands (ha) year of base: 1995

Type of utilization	agriculture	fallow land	pasture	abundant	forest	TOTAL
National land	%	%	%	%	%	हम्
Private land : Communal land (communal use)	%	%	%	%	%	स
: Private land (personal use)	%	%	%	%	%	ha
TOTAL	%	%	%	%	%	цц

	Crops	Surface area (ha)	rea (ha)		Yield (X)	~	Ratio of agricultural	ultural	х ш	Excess/lack (X)	0	
							consumption (in %)	(in %)	-	(last year)		Marketed price
		uou	irrigated	good	fair	poor	home	plos	Excess	Lack	Purchas	(DH/unit)
		imgated					consumption				pe	
Cereals	Wheat	ра	ha				%	%				DH/Kg
	Barley	ha	eų				%	%				DH/Kg
	Maize	ha	ра				%	%				DH/Kg
	Others	ha					%	%				DH/Kg
Legumes	Chick-peas	ha	eq				%	%			<b>}</b>	DH/kg
	Lentils	ha					%	%				DH/kg
	Beans	ha					%	8			     	DH/Kg
	Others	рч					%	%				DHVkg
Vege-	Green	Ru	ĥa				%	8				DH/kg
tables	vegetables				_							2
-	Tomatocs	ha	ha				%	%				DH/kg
	Potatoes	ha	ha				%	%				DH/kg
	Others	ha	ha				%	%				DHVkg
Fuits	Olives	ha	ha				%	%				DH/kg
	almonds	ha	ha				%	%				DHAke
	Apples	e4	ha				%	%				DH/kg
	Oranges	ha	ha				%	%				DH/Kg
	Others	ha	ha				%	%				DH/Kg
TOTAL		ha	ha	XXXX	XXXX	XXXX	%	%	XXXXX	XXXX	XXXX	

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<u> </u>			Ann	ual const	Annual consumption (in number)	ber)		2	Marketed price	
	Number of		Meat		Milk	а Ш	Eggs		(DH/unit)	
	heads	Sold	Home-	Sold	Home-	Sold	Home-	Meat	Milk	SSSE
_			consumption		consumption		consump.			
Cattle						XXXXXX	XXXXXX	DH/kg	DH/lit	XXXXX
Sheep						XXXXXX	XXXXX	DH/Kg	DH/lit	XXXXX
Goat						XXXXX	XXXXXX	DH/Kg	DH/lit	XXXXX
Poultry				XXXXX	XXXXXX			DH/kg	XXXXX ·	DH/egg
Mule/donkey		xxxxx	XXXXX	XXXXX	XXXXXX	XXXXXX	XXXXX	DH/head	XXXXX	XXXXX
Horse		XXXXX	XXXXX	XXXXX	XXXXXXX	XXXXX	XXXXX	DH/head	XXXXX	XXXXX
Camel						XXXXX	XXXXX	DH/kg	DH/lit	XXXXX
Others										
Total										

### Forest production (year of base 1995).

				Annual production / Total selling		
Production	Total	Total production (X)	ő Š	Home-consumption	Total selling	Marketed price
	large	fair	small	(unit)	(unit)	(DH/unit)
Fire wood				kg	kg	DH/Kg
Charcoal				kg	kg	DH/kg
Timber wood				kg Kg	к <sup>8</sup>	DH/kg
Others				kg	2¥ S	DH/kg
Total			-	βă	ж Х	

### Other industries (year of base 1995)

Other industries	Number	Production	Energy used
Flour milling		kg/day	
Carpentry		large/fair/small	
Pottery		large/fair/small	

SECTION 3: Future implementation of electricity - Equipment which need electricity / lighting heating cooking	refrigerator TV + radio air-conditioner		other equipment	ä	
- Are you aware of the facts that the excessive cutting trees and the over grazing of animals cause the distraction of forests and the soil erosion, and the loss of cultivat	of cultivation land? yes (1) no (2)				
. Do you think that the excessive cutting of trees is frequent in your village?	yes (1) no (2) If yes, in which measures?	very heavy	fair	no problem	
Do you think that the over grazing is frequent in your village?	yes (1) no (2) If yes, in which measures?	very heavy	fair	no problem	
Which fuel do you prefer to replace fuel wood?	Gas yes (1) no (2) Electricity	yes (1)	[	no (2)	
			AgeM.	Maghreb-projets s.a. Ingénieurs Conseils	mseils

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SECTION 4. Public facilities		Questionnaire	Questionnaire to the chief of village				US
- Schools type type	number of schools number of schools	number of students number of students		number of rooms number of rooms			
- First-aid hospitals number	Equipment which (number and type)	Equipment which need electricity (number and type)			number of nurses	of nurses	
- Mosques number of mosques	surface (m <sup>2</sup> )						
- Public halls (Dar El Jamaá) number	surface (m <sup>2</sup> )						
- Cooperatives number of cooperatives	surface (m <sup>2</sup> )		·				
- Ware house number and type	surface (m <sup>2</sup> )						
- Stores number and type	surface (m <sup>2</sup> )						
- Butcher's shop number	surface (m <sup>2</sup> )						
- Others	surface (m <sup>2</sup> )						
SECTION 5-Allocation of ext	<u>SECTION 5-Allocation of expenditures of households (particularly those relating to the energy)</u>	ularly those relating to	the energy)				
Classification of sources of energy in order to priority (frequency of use)	gy Fire wood [	Battery	Charcoal	Oil	Cas	Candles	
SECTION 6 : Degree of diffus	SECTION 6 : Degree of diffusion of the electric devices and source of	ource of the electricity (	the electricity of those devices				
Type of electric device	Number of households using	them (%	Hours us	Hours using them	Source of energy for device	for device	
Lights		%		hrs/day			
I V + Radio		%		hrs/day			
Keingerator		%		hrs/day			
Aur-conditioner Massing		%		hrs/day			
ricating		%		hrs/day			

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Questionnaire to the chief of village

## SECTION 7 : Wishes concerning the use of electricity

for light (1) for light + radio + TV (2)	for radio + TV (3)	for other usage (to specify) (4)	
Proportion of households wishing electricity (%)	%		
SECTION 8: Capacity of households for expense to the electri Initial investment/household (cabling and fixing in the house)	o the electricity house)	DH	

DH/month

Monthly expenditure for electricity/household

SECTION 9 Rydrological information on water source

X) Irrigation water (X)				yes, no	yes.no	yes, no							XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		B	<b>m</b>	u u	hours/day	good, poor	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	yes . no	s 1 time/ years	from to
Drinking water (X)				yes, no	yes, no	yes , no							yes.no					nou	good, poor		yes, no	l time/ years	from to
	River	Spring	Wells	River	Spring	Wells	Weir	Electric pump	Manual pump	Bucket	Canal	Pipeline (conduit)	Internal tap	Transport	mules or donkey	children	women	necessary time	Quality	Turbidity	Drought	Frequency	Critical month
	Source of water (name)			Degree of satisfaction on	availability and distribution	of water Wells	Installed facilities				Canalization						-		Water quality		Water shortage		-

- River conditions Flood period (month) :

from

no (2) yes (1) Are there any damages? 2

If yes, what kind of damage?

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	1				Contraction of the second s			64758-459 		
				Questionnaire to t	Questionnaire to the chief of village				14	5
- Does the landslide happen?		yes (1)	Ξ	no (2)	What kind of damage?	age?				
- Period of drought of the river (month)		from	2							
- Is it completely dry up?	yes (1)	no (2)	For	For what period?		days/year				
<ul> <li>Measures taken against drought : for irriga for drink</li> </ul>	ation water i ing water i	trought : for irrigation water : for drinking water :						trought : for irrigation water : for drinking water :		
SECTION 10: Is it possible to convert the flow of irrigation water in order to produce electricity?	nvert the flor	<u>w of irrization</u>	<u>water in o</u>	rder to produce el	lectricity?	yes (1)	no (2)			
SECTION 11: Traverse of canal	,									

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- How many villages are crossed by the main canal before reaching your village? (Number and name of villages).....

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### 1-2 Questionnaire Form for Heads of Village Household

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Working days ...................... \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ....................... in last year . Independent with local Independent w/o local STATUS IN THE JOB 3. Work at home 7. Familial help 9. Unconcerned 8. Apprentice Associated 4. Employer 6. Salaried Other activities than agriculture \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Status in the 00 ...... **OCATION AND POSITION** Occupational activities of last year (in 1995) Sex (male 1/female 2) .................. \* 4. Large enty 5. Casablanca/Rahat Location and 9. Unconcerned l. Same village Other village position 0. Undeclared Marrakech 3. Small city 7. Abroad ...... Kind of Constructions, buildings <u>qo</u> Commerce, services, Age [ tourism, transports Industries, mines 4. Administration Craftsmanship ..... agriculture (including breeding Working days \* ....................... 8. Non-employ 9. Unconcerned AND OF JOB 0. Undeclared in last vear SECTION 1 : Socio-demographic and occupational characteristics of the member of the household and cilviculture) ŝ OCCUPATIONAL STATUS ..... ..... Professional ..... status Name of the interviewed 9. Unconcerned Temporary 3 Suasonal l Regular ..... \* ....................... \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* education Level of 9. Unconcerned (child < 6vears) 0. Undeclared Secondary, 1st cycle
 Secondary, 2nd cycle \* ...................... 7. Vocational training of household ...... to the head connection) relation Family 8. Literacy centers (family 3. Primary school 1. Non-education Koranue school 6. High school NOLLADUGE ..... ...... ........... ...... Sex 8. Other children of parents .......... ..... ...... ..... Age (yrs) ...... ...... ...... NMILY CONNECTION 6. Father, mother of head 7. Brother, sister of head 9, Other adult parents Identification of family member 4. Sister-in-low 3. Eldest child Name and Surname 5, Small child Name and No. of village 1, Hood 2. Wife \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ............... ..... ..... 2. Female 1. Male ő Z XEX SEX 2122 4 5 9  $\mathbf{s}$ 6 400100 r 1 ŝ

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10. Non-family connection

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SECTION 2: Accommodation and housing

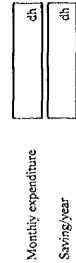
Type of aliment of water supply in the house, and distance	<ol> <li>tap water</li> <li>public hydrant or public well</li> <li>spring</li> <li>spring</li> <li>wolls and water tank (Metfia in Iteal)</li> <li>inver</li> <li>water tank</li> <li>water tank</li> <li>others</li> </ol>	(m)
Type of aliment of wate the house, and distance	<ol> <li>top water</li> <li>public hydrant or public well</li> <li>spring</li> <li>spring</li> <li>wells and water tank (Metfa</li> <li>niver</li> <li>niver</li> <li>water tank</li> <li>water tank</li> <li>weter tank</li> <li>weter</li> </ol>	
Surface area of the main house including cowshed, garden, greenery and court		( m <sup>2</sup> )
Mode of occupation	<ol> <li>wwner</li> <li>temant</li> <li>tercondist of the house</li> <li>free occupier of the house</li> <li>service house or company house</li> <li>others</li> </ol>	
Number of rooms in Mode of occupation the main house?		
Number of persons who live in the main house ?		
Is the household Type of construction of Number of persons composed of one the main house ? who live in the main house or several houses?	<ol> <li>firm house</li> <li>trammed-clay house</li> <li>fingile house/barraque</li> <li>shed, cowshed house</li> <li>cocal traditional house</li> <li>others</li> </ol>	
Is the household Type of construct composed of one the main house ? house or several houses?	1. one 2. several	

### **SECTION 3: FAMILY INCOME**

Agriculture Breeding Forest production Other sources (to specify)	dh/year dh/year	
Breeding Forest production Other sources (to specify)	dh/year	dh/month
Forest production Other sources (to specify)		dh/month
Other sources (to specify)	din/year	dh/month
	dh/year	dh/month
	dh/year	dh/month
	dh/year	dh/month
-	dh/year	dh/month
	dh/year	din/month
TOTAL	dh/year	dh/month

### SECTION 4 : Agricultural Production

- Frivaie Jarm lana (year of pase land	(64
Type of farm land	Area of farm land (ha)
Cultivated land	ha
Fallow land	ha
Pasture land	Pa
Abandoned land	ha
Total	ha



Saving/year

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ľ	Crops	Crops   Surface area (ha)		Cultivation period (to specify the month)	o specify the month)	Production	Ĕ	Sold ratio	Market price(dh/unit)
		Non irrigated Irrigated	ated	sowing	harvesting	ton/ha	ton	(%)	
Cercals	wheat	ha	ha			t/ha	t	%	dh/kg
	barley	ha	ha			tha	t	%	dh/kg
	maize	ha	ha			tha	1	%	dh/k
-	others	ha	ha			t/ha	ţ	%	dh/kr
coumes	chick peas	ha	'na			t/ha	+	%	dh/kg
	lentils	ha	ha			t/ha	t	%	dh/ki
	beans	ha ha	ha			t/ha	+1	%	dh/ki
Vegetabl	green	ha	ha			tha	4	%	dh/kg
	vegetables								
	tomatoes	ha	ha			t/ha	1	%	dh/kg
	potatoes	ha	ha			t/ha	+	%	dh/kg
	others	ha	'na			v'ha	**	%	dh/ki
Fruits	olives	ha	E4			t/ha	1	%	dh/ki
	almond	ha	ha			tha	1	%	dh/k
	apples	ha	ha			tha	t	%	dh/ki
	oranges	ha	ha			tha	t -	%	dh/k <sub>i</sub>
	others	ha	ha			t/ha	+	%	dh/kg
	Total	ha	ъц			54/1	+-	%	25/42

### -Livestock production (year of base 1995)

Livestock	Livestock		7	Annus	Annual production				Market nice	
	Breeding	Š	Meat (heade)		Mill (litare)	E 44	Ener (anne)		/44/14/2/	
	0	7147	are ( ) carros /	7.7	(crown) with	1551	V652)		(THEN ATEN)	
	(heads)	selling	home	selling	home	selling	home	Meat	Milk	Eggs
			consumption		consumption		consump.			
cattle						XCCCCK	XXXXX	dh/kg	dh/lit	XXXXX
sheep						XXXXXX	XXXXX ·	dh/kg	dh/lit	NOCOCX
goat						XXXXX	XXXXX	dh/kg	dh/lit	XXXXX
chicken				XXXXX	XXXXXX			dh/kg	XXXXX	dh/egg
Mule/donkey		XXXX	XXXXXX	XXXXX	XXXXXX	XXXXX	XCCCX	dh/head	XXXXXX	XXXXX
horse		XXXXX	XXXXX	XXXXX	NUCCON	XXXXX	XXXXX	dh/head	XXXXXX	XXXXX
camel					2	XXXXX	XXXXX	dh/kg	dh/lit	XXXXXX
others								dh/head		:
Total										

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fael wood     poor     medium     high     (unit)     kg     (unit)       fael wood     best base     105     kg     kg     kg       imbarroad     kg     kg     kg     kg       - Other industries     Number     Kg     kg     kg       - Other industries     Number     Dimension     used energy       Flour milling     Rout use vood po you use do you use of the vood po you use of the vood pointers     1. Yes       1. Yes     1. Yes     1. Yes     1. Yes     1. Yes       1. Yes     1. Yes     2. No     2. No     2. No     3. divide do fore       2. No     2. No     2. No     2. No     3. divide do fore     3. divide do fore	(unit) kg kg kg kg kg kg kg kg kg kg kg kg kg	(unit) ks ks ks ks ks ks ks ks ks ks ks ks ks		(dh/unit) dh/kg dh/kg dh/kg		
ood wood r industries (year of baxe 1995) Industries Numb milling Other industries Numb V V V V Numb Numb U Numb	kg kg kg kg kg kg kg kg kg hg hg mall/average/big)	nsed er used er	ka ka ka ka ka ka ka ka ka ka ka ka ka k	dh/kg dh/kg dh/kg		
vood industries (veur of haxe 1995) Industries Numb milling Other industries Numb V V V V ION 5: . Energy U have Do you use gas in How many vour house? bottles of gas do you use in a year? . Yes bottles) 2. No 2. No	kg kg kg kg bimension mall/average/big)	nsed er used er	kg kg kg hergy hergy	dh/kg dh/kg		
wood r industries (year of have 1995) Industries Numb milling Other industries Numb V V V V ION 5: . Enerrey v v v v v v v v v v v v v	rushing (kg/dav) kg Dimension mall/average/big)	rised er used er	kg kg hergy hergy	dh/kg dh/kg		
r industries (year of have 1995) Industries Numb Mulling Numb Other industries Numb V V V V V V V V V V V V V V V V V V V	kg kg bimension mall/average/big)	iə pəsn	kg hergy nergy	dh/kg		
r industries (year of have 1995) Industries Numb Mumb Other industries Numb V V V ION 5: Encrey U have Do you use gas in How many u have Do you use gas in How many city? your house? bottles of gas do you use in a year? 2. No 2. No	rushing (kg/dav) Dimension mall/average/big)	nsed er used er	kg nergy nergy			
Industries (year of have 1995) Industries Numb ther industries Numb ther industries Numb i. Energy Do you use gas in How many you use in a year? you use in a year? Small and large 2. No	rushing (kg/day) Dimension mall/average/big)	nsed er	nergy nergy	[- <b>]</b> -] [ <b>]</b> ]-		
Industries Numb ther industries Numb ther industries Numb therew therew Do you use in Atow many you use in a year? You use in a year? Small and large 2. No 2. No	rushing (kg/day) Dimension mall/average/big)	used er	nergy nergy	[-]] []		
ther industries Numb i. Encrey Do you use gas in How many you use in a year? (Small and large 2. No bottles)	Dimension mall/average/big)	nsed ei	hergy	<b>III</b>		
Other industries Numb V Numb HON 5: . Enerey nu have Do you use gas in How many icity? Poor house? bottles of gas do you use in a year? 2. No 2. No 2. No	Dimension mall/average/big)	nseq	hergy	[ <b>]</b>		
V TON 5: Energy u have Do you use gas in How many icity? your house? bottles of gas do you use in a year? 2. No 2. No bottles)				┲╾┰╼		
V TON 5: . Encrey uu have Do you use gas in How many jour house? bottles of gas do you use in a year? (Small and large 2. No 2. No				<b>1</b>		
TON 5: . Energy w have Do you use gas in How many icity? your house? bottles of gas do you use in a year? (Small and large 2. No						
icity? Do you use gas in now many jour house? bottles of gas do you use in a year? (Small and large 2. No 2. No						
	for	mood?	wito pick up wood?	where do you pick up wood?	now much or wood do you use	nood do you use you buy in wood
. X So					for cooking and heating in a	consumption?
		1. cutting of the trees 1 2 micking on of the 2	1. Head of household	1 1. Private forest	month?	1. whole
	the room	withered trees 3	3. Children	3. Forest field	71	3. Few of it
	4. lencing	oting of the	4. Member of boundabold	4. Field of the state	other season)	4. none
		4. buying	5. Whole family	o, Outers (10 spould)		
			9. Others			
Size Bottles					season kg/month	
Small					winter	
Large					other	

Amual production and selling

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- Forest production (year of hase 1995)

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Do you use	Do you use charcoal How do you get	How do you get		Do you use oil-lamp? How many liters of Do you use crop	How many liters of	Do you use crop
charcoal?	for:		ou use		oil do you use in a	residuals and animal
			in a month?	1. Yes	month?	manure as fuel?
1. Yes	1. Cooking		(in winter, other	2. No		1 Yes
5 No	2. Heating water	2. shop in the village	season)			2. No
	3. Other uses	3. Street peddler 4. Coulmun (producer)				
			season kg/month		lit/month	
			winter			
			other			

### - Household electric appliances

household:
your
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re for the presently own electric appliances in your househ
electric
nwo
or the presently
the
for
cpenditure
Ä

**DH/Month** 

g ditioning rator	Number of Hours in use	se Source of energy
Lighting T.V. Radio Air conditioning Refrigerator	appliances (hrs/day)	
T.V. Radio Air conditioning Refrigerator		
Radio Air conditioning Refrigerator		
Air conditioning Refrigerator		
Refrigerator		
Others		

Car battery
 Dry cell
 Electric generator
 Gas
 Oil
 Others (to specify)

Source of energy:

## - Equipment for lighting, cooking and heating

Uses	Item	Number of	Period of use	Hours of use	Fuel
		Articles	(to specify months)	(hrs/day)	(1. Oil, 2. Gas, 3. Charcoal, 4. Wood)
Lighting	Oil lamp				
	Gas lamp				
	Candle	/month			XOCCCCCCCCCCCC
Cooking	Electric oven				
	Gas oven				
	Traditional oven (Kanoun)				
Heating	Brazier (iron)				
	Fireplace (stone made)				
	Traditional oven (Majmar)				
	Others				

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	Unit price	(dh)	dh/kg	dħ/kg	dh/liter	dh/liter
	Purchased	quantity	kg	kg	liters	liters
	Purchased	ratio	%	%	%	%
	Annual	Consumption	kg	kg	liters	liters
	Fuel				for lighting	for fuel equipment
- Use of fuel			Wood	Charcoal	Gas	

Questionnaire household

## **SECTION 6: Your intention on electrification**

Total

Candle

ö

For those who desire to use electricity (taking into consideration the cost of purchase, the cost of the operation and maintenance of the electric installations during the interview)

Intention of electric utilization for:	Number of desired units	Utilization hours (hrs/day)
lighting		hrs/day
radio		hrs/day
τV		hrs/day
heating		hrs/day
air conditioning		hrs/day
Others (to specify)		hrs/day
		hrs/day

# SECTION 7: Your capacity to bear the cost for electrification

Initial investment (electric installation in the house.)

Monthly payment

,	DH/Month
	HQ

응 은 은 은 은

dh/liter dh/liter dh/unit

liters liters

888

NOCONCOCO

candles liters liters

total

candles

đħ ф.

of purchase Total cost

## SECTION 8: Hydrologic data on water source

uit) ves. no ves. no ves. no ves. no ves. no ves. no ves. no m m m m m m m m m m m m m m m m m m m			Drinking water	Irrigation water
spring     spring       action on spring     river     yes, no       well     yes, no       weir     yes, no       weir     yes, no       weir     yes, no       electric pump     yes, no       bucket     yes, no       canal     yes, no       pipeline (conduit)     yes, no       internal tap     yesod	Source of water (name)	river		
well     ves. no       action on     niver     yes. no       action on     spring     yes. no       ses     weir     yes. no       weir     yes. no     yes. no       electric pump     yes. no     nanual pump       bucket     yes. no     nanual pump       internal pump     yes. no     nanual pump       pucket     yes. no     nanual pump       internal tap     yes. no     nanual pump       pipeline (conduit)     yes. no     nanual pump       internal tap     yes. no     nanual pump       printernal tap     yes. no     nanual pump       fransport     nules or donkey     manual pump       transport     nules or donkey     yes. no       frequency     turbidity     yes. no       frequency     trime/ years     no		spring		
action on river yes, no spring, no spring, no spring, no well yes, no well yes, no well yes, no well yes, no bucket bucket the set of the set o		well		
distribution spring well ves. no well well ves. no well ves. no weir electric pump manual pump manual pump ves. no manual pump ves. no transport canal pipeline (conduit) ves. no transport mules or donkey ves. no transport mules or donkey duality guality good. poor turbidity ves. no	Degree of satisfaction on	river.	yes, no	yes, no
well     ves. no       esc     weir       bucket     ves. no       manual pump     pucket       bucket     ves. no       pipeline (conduit)     ves. no       internal tap     ves. no       ransport     ves. no       internal tap     ves. no	availability and distribution	spring	yes, no	yes , no
es weir electric pump manual pump bucket canal pipeline (conduit) internal tap transport mules or donkey transport mules or donkey children women m necessary time pood. poor frequency fr	of water	well	ves, no	yes , no
electric pump     electric pump       manual pump     manual pump       bucket     ves. no       canal     ves. no       pipeline (conduit)     ves. no       internal tap     ves. no       internal tap     m       canal     ves. no       internal tap     m       internal tap     ves. no       internal tap     m       internal tap     ves. no       internal tap     m       internal tap     ves. no       internal tap     ves. no       internal tap     ves. no       internal tap     ves. no	Installed facilities	weir		
manual pump     manual pump       bucket     canal       bucket     canal       canal     yes. no       pipeline (conduit)     yes. no       internal tap     yes. no       internal tap     yes. no       internal tap     yes. no       internal tap     pipeline       internal tap     yes. no       internal tap     pipeline       internal tap     yes. no       internal tap     poor       internal tap     poor       introven     m       introven     m       introven     poor       introlity     yes. no       frequency     1 time/ years		electric pump		
bucket     canal       canal     canal       pipeline (conduit)     ves. no       internal tap     ves. no       internal tap     m       internal tap     ves. no       internal tap     m       internal tap     ves. no       internal tap     m       internal tap     m       internal tap     ves. no       internal tap     m       internal tap     m       internal tap     ves. no       introlicity     ves. no       frequency     time/		manual pump		
canal     canal       pipeline (conduit)     ves. no       internal tap     ves. no       internal tap     ves. no       transport     mules or donkey       internal tap     ves. no       internal tap     m       internal tap     ves. no       transport     mules or donkey       internal tap     ves. no       internal tap     m       internal tap     m       internal tap     ves. no       introlicity     ves. no       frequency     time/		bucket		
pipeline (conduit)     yes, no       internal tap     yes, no       transport     wes, no       transport     m       nules or donkey     m       women     m       nocessary time     good, poor       turbidity     ves, no       frequency     1 time/ vears       critical month     from	Canalization	canal		
internal tap     yes, no       transport     transport       transport     mules or donkey       children     m       women     m       women     m       m     monen       necessary time     good, poor       turbidity     ves, no       frequency     1 time/		pipeline (conduit)		
transport mules or donkey children women mours/day necessary time quality turbidity turbidity frequency fr		internal tap	yes, no	xxxxxxxxxxxxxxxxxxxx
mules or donkey     m       children     m       women     m       women     m       women     m       necessary time     bours/day       quality     good . poor       turbidity     ves. no       frequency     1 time/ vears		transport		
children     m       women     m       women     m       necessary time     hours/day       quality     good . poor       turbidity     ves . no       frequency     1 time/ vears       critical month     from . o		mules or donkey	E	
r women m necessary time hours/day quality good . poor turbidity ves . no frequency l time/ vears		children	m	
r necessary time hours/day quality good . poor turbidity ves . no frequency l time/ vears		women	æ	
turbidity good . poor turbidity yes . no frequency l time/ years		necessary time	hours/day	
turbidity drought ves, no frequency l time/ vears	Quality of water	quality	good, poor	good, poor
drought     ves. no     yes. n       frequency     1 time/     vears     1 time/       critical month     from     cont     from		turbidity		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1 time/ vears 1 time/	Water shortage	drought	yes , no	yes , no
tron to	k	frequency		l time/ years
		critical month	from to	from to

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### APPENDIX-2 Definition of Questionnaire Items for SPSS File

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2-1 Definition of Questionnaire Items for Village Leaders

### Definition of Valiables for Questionnaire to the Village Leaders

### -- SYSFILE INFO --

File c:\z-moroco\s-e-srvy\enquete\data-chf.sav Created: 20 Sep 96 10:58:21 - 408 variables and 113 cases File Type: SPSS Data File N of Cases: 113 Total # of Defined Variable Elements. 455 Data Are Not Weighted Data Are Compressed File Contains Case Data Variable Information:

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variable information:		Format: F8
Nama	Position	Value Label
Name	(Page: 1/7)	1 TIZI OUSSEM
<section 0=""></section>	(1 age: 1/7)	2 ID AISSA
<section 02<="" td=""><td></td><td>3 TASSA OUIRGANE</td></section>		3 TASSA OUIRGANE
NUMOREO Muntos efformationada	1	4 IGREM
NUMQUES Number of Questionnaire	1	5 TIZGUI
Format: F8		
	•	
CERCLE Cercle	2	
Format: F8		8 AGHELLA
Value Label		9 IKISS
1 ASNI		10 AMSAKROU
2 TAHANAOUT		11 ARG
3 AMIZMIZ		12 TINERHOUHRINE
4 AIT OURIR		14 TAMGHIST
		IS IKKIS
COMRURAL Commune Rurale	3	16 OUASKRA
Format: F8		17 TACHEDDIRT
Value Label		18 SQOUR
11 Ouirgane		19 AMAGDOUR
12 Imgdal		20 TAMATERTE
13 Talat N'Yacoub		21 ANFLI
14 Ijoukah		22 TIMICHI
15 Ighil		23 AGOUNS
16 Aghbar		24 OULAD MANSOUR
17 Asni		27 DEL EL AIN
21 Ourika		28 TILOUNA
22 Setifadma		29 EL MARA
23 Oukameiden		30 BEL ABBAS
24 Tamesloht		31 AZIB SKOUM
25 Tahanaout		32 DERB CHEM'S
31 Anougal		33 SOUR TEDRARA
32 Azgour		34 TLAT TEDRARA
33 DarJamaa		35 IMIN TALA
34 Ameghrass		36 ADDOUZ
35 Sidi Badhaj		37 AIN GHAD
41 Ait Addel		38 INZAINE
42 Abadour		39 IMEN'ISLY
43 Zerkten		40 DOU ANAMER
44 Tighdouine		41 IGOUNDEM
-		42 TOUG LKHEIF
NUMDOUA Number of Douars	4	43 AIT OUZKRI
Format: F8		44 - AIT HMAD
		45 TIZGUI
NOMDOUA Name of Douars	5	46 ADARDOUR

.

	LEMDINAT	109 CHOUIRIGE
	TNIRT	110 MAKHFAMANE
	ANERMI	111 TIZIFRITE
	ANSMROU	112 LAMHAMID
	TALAT AIT IHLA	113 TARASTE
	TOULKINE	114 ABADOU
	ADGHOUSS	115 QURIZ
	DOUZROU	116 TABANT IGHI
	AIT OUTMANE	117 ANSA
	TAGADIRT	118 TIDSI
	TIFIRT	119 AIT ATMANE
	ANFRIOUNE	120 EZZAOUITE
59	AIT SMIL	131 EL BOUR
	TIFRATINE	132 IMSKAR
61	AGUENZE	251 OULAD LAHJAR
	IFIT BARAGHA	252 OUMNAS
63	AGADIR BARAGHA	261 AWIN MAZOUZ
	BARAGHA	262 BOUCHIBA BON OMAR
65	ADAR BARAGHA	831 ANFEG
66	TADCHERT	832 AGUERSOUAK
67	TAMSOULT	851 OUMAST
68	DAR JAMAA AIT ALI	852 AIT ZITOUN
69	AGADIR AIT BRAHIM	871 ZAOUIT
70	IOURAGHAN	872 IZALAGHAN
71	IMIK	
72	IFIT AIT ALLA	AGECHEF Age of the Village Leader 6
73	BOUKHELF	Format: F8
74	ADDAR AIT ALLA	
75	AIF ALI	TITRECHE Title of the Village Leader 7
76	AIT BOURD	Format: F8
77	AIT M'BAREK	Value Label
78	AGADIR AIT BOURD	1 Elder Leader (Cheikh)
79	AFELLA OUASSIF	2 Mokadem
80	AMEGHRAS	3 Represident of Douar
81	AFELLA IGHIL	4 Elected Leader (Elu) of Douar
82	IGHIL	5 Autres
84	AIT BOUZID	. · ·
86	TAGADIRT-AIT BOUIMZGAN	NBRDOUAR Number of douars which are under
88	TIGOUDER	responsibility of the Village Leader
89	AMEZI	8
90	AGOUNI	Format: F8
91	CHAABAT TARIK	
92	IGHIL SDIDENE	(Page: 2/7)
93	TIZI	<section 1=""></section>
94	AGHBALOU	
95	AIT HSAIN	NBHABTS Population of the village 9
96	AIT BOUBKER	Format: F8
97	TAZATOURT	
98	TAMSOULTE	NBFOYER Number of households 10
99	TIZGUI	Format: F8
100	ALT TIRGHIT	
101	TACHBIBT KABLI	NBMOYPEF Average size of one household 11
102	TACHBIBT ECHATOUI	Format: F8.2
103	ASGOUNE	
104	AIT AAMARA LOUED	
105	IGOUDER	
106	LAKAARNA	
107	ALT AAMAR EL BOUR	
108	TAYZELT	

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Definition of Variables for Village Chief Questionnaire

- Compasiti	on of ropula	tion by Age a	inu sex	
Range of Ages	Male (%)	Female (%)	Tetal (%)	
	Format: F8 2 (12 - 22)			
0-15 years	HOMME1	FEMMEL	POPUL1	
15-65 years	HOMMF2	FEMME2	POPUL2	
65- years	HOMME3	FEMME3	FOPUI.3	
Total	TOTHOMME	TOTFEMME		

### Compasition of Population by Age and Sex

- Managing in the Village (Cooperative) COOPERATNumber of cooperatives Format: F8

23

### - Relationship among villages

Human Relationships	Format & Data No.		Name of ci	ties and villages	
Founs and cities for shopping	Format: A15 (24 - 30)	COURSEI	COURSE2	COURSED	COURSE4
Towns and cities where comodities come from.	Format: A15 (32 - 38)	PROVENI	PROVEN2	PROVEN3	PROVEN4
Migration (origin of village people)	Format: A15 (40 - 45)	APPARTI	APPAR12	APPAR13	APPART4
Migration (destination of village people)	Format A15 (48 - 54)	DESHNAI	DESTINA2	DESIENA3	DESTINA4
Towns and cities where the pepole goes to work	Format: A15 (56 - 62)	TRAVAIL1	IRAVAIL2	[RAVAIL3	1RAVAIL4

### NBFAMIL Nmbs of family names in the village 64 DATCREAT Date of creation of the village 65 Format: F8

### - Special Events (Moussem)

Name of	Place	Date	Duration
Moussem		l	(33)5)
Format. A15	Format: A15	Format: A15	Format: F8
(66 - 70)	(72 - 76)	(78 - 82)	(84 - 86)
MOUSSEMI	LIEUMOUI	DAMOUSSI	DUREMOUT
MOUSSEM2	LIEUMOU2	DAMOUSS2	
MOUSSEM3	LIEUMOU3	DAMOUSS3	
			(Page : 3/7)

### <SECTION 2: Activity>

### - Agricultural Land (Base Year: 1995)

### - Distribution of Households by Actibities

Agricultural	Activities	
AGRI	agriculture	87
ELEVAGE	Stock-raising	88
AGRIELE	Agriculture and Stock-raising	89
AGRIMI	Part-time Agriculture	90
FORET	Forestry	91
Other than A	Agricultural Activities	
PUBLIC	Public Services	92
SERCOM	Commerce	93
INDUSTR	Small-scale industry	94
ETRGAUTE	RAbroad or others	95
Format	1: F8	

Type of Utilization		Cultivated Land (%)	Fallow Land (%)	Pasture Land (%)	Abandoned Land (%)	Forest (%)	Total (ha)
		Format: F8	Format: F8	Format F8	Format: F8	Format, F8	Format F8
State I and	(96 - 101)	SUPAGRET	SUPJACET	SUPPATET	SUPANDET	SUPFORET	TOTSUPET
Communal Land	(102 - 107)	SUPAGRCO	SUPJACCO	SUPPATCO	SUPANDCO	SUPFORCO	TOTSUFCO
Private Land	(108 - 113)	SUPAGRPE	SUPJACPE	SUPPATE	SUPABDPE	SUPFORPE	TOTSUPPE
Tetal	(114 - 119)	TOTAGRI	TOTJACH	TOIPAT	ΤΟΓΛΒ	TOTFORET	TOTSUPER

### - Agricultural Production Cultivated Land Yield Ratio of Surplus/ Market Price Shortage Sold Rain-fod Irrigated l: good Home 0: not concern Creps (ha) (ha) 2: fair consumption I: Ecess (DHAg) 2: Shortage (%) (%) 3: poor 9. not concern 3: purchasing Format: F8 Format: F8 Format F8 Fermat, F8 2 Fernat: F8 Format: F8 (120 - 155) (156 - 172) (173 - 189) (190 - 206) (207 - 223) (224 - 239) BLENI RDIBLE RATVOBLE EXCMAQBL PRIBLE Wheat BLEI RATABLE ORGEL RDTORGE RATAORGE RATVDORG EXCMAQOR PRIORGE Cereaks ORGENI Barley EXCMAQMS PRIMAIS MAISNI MAISI RDIMAIS RATAMAIS RATYDMAS Maize AUTRGRI AUTRGRNI RDTGRA RATAGRA RATVDAUG EXCMAQAG PRIAUIG Others POISE RDIPOIS **RATAPOIS** RATVDPOC EXCMAQPC PRIFOCH Chick-peas POISNI EXCMAQLN PRILENT LENTI RDILENT RATALENE RATVDLEN Legumes Lentils LENTNI HARNI HARI RDIHAR RATAHARI RATVDHAR EXCMAQUC PRIHARIC Beans Others LEGUNI LEGUI RDILEGU RATAAUIL RATVIDLEG EXCMAQAL EXCMAQLY PRILEGY RATALY RATVDLEV LEVENI LEVEL RDILEVE Green Veg Vegetables TOMI RINTOM RATATOMA RATVDTOM EXCMAQ1M PRIFOM TOMNI Tomatoes EXCMAQPT PRIPIER PDINE PDTI RDIPDF RATAPME RATVDPIE Potatoes RATVDAUL EXCMAQAY PRIAUTL LEI RDILE RATAAULG LENI Others EXCMAQOV PRIOLIV OLINI OLH RDTOLI RATAOLIV RATVIXILY Olives EXCMAQAD PRIAMAND AMANI ΑΜΛΙ RDTAMA RATAAMND RATVDAMD Almonds RATAPOMM RATVDPOM EXCMAQPM PRIPOMME POMNI POMI RDIFOM Fruits Apples EXCMAQOG PRIORANG RAIAORNG ORANI ORAI **RDIORA** RATVDORN Oranges FRUII RDIFRUI RATAAUIF RATVDAUF EXCMAQAF PRIAUTER FRUNI Others

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**FOTCULNI** 

### (Page: 4/7)

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### - Stock-raising (Base Year: 1995)

Livestock	Numbers		Annual Consumption						Market Price	
		M	eat	M	hik	E	285	Meat	Milk	Fees
	(heads)	(he	ads)	(lit	163)	(0)	·8s)	(DH4g)	(DH4ht)	(DH/egg)
		Sold	Consumed	SelJ	Consumed	Sold	Consumed		[	
	Format 18	Format: F8	Format F8	Format F8	Format: F8	Fermat, F8	Format: F8	Fermat.	Format:	Format:
	(240 - 248)	(249 - 255)	(256 - 262)	(263 - 268)	(269 - 274)	(275)	(276)	F8.2	F8 2	F8 2
			[					(277 - 284)	(285 - 288)	(289)
Cattle	NBBET	NBBEIV	NBBETVA	NBBELLV	NBBETLA			PVBET	PI BET	
Sheep	NBMOUT	NBMOUT	NBMOUI	NBMOUL	NBMOUT			PVMOUT	PLMOUT	
		V	VA	LV	LA	l				
Goat	NBCHVR	NBCHVR	NBCHVR	NBCHVRL	NBCHEVL	<b>F</b>		PVCHEVR	PLCHVR	
		V	V۸	V	Λ					
Polto	NEPOUL	NBPOULV	NBPOULV			NBOEUFV	NBOEUFA	РУРОЛЛ		POEUF
Mule'	NBMUI.							PVMUL		
Donkey			1	-	Î.			(DH/head)		
Horse	NBCHEVL							PVCHVI.		
					1			(DH/head)	•	
Camel	NBCHAM	NBCHAM	NBCHAM	NBCHAM	NBCHAM			PVCHAM	PLCHAM	
	ţ	v	VA	LV 💈	LA		1			
Others	NBAUTET	NBAUITV	NBAULV	NBAUILV	NBAUILA			PVAUIRE		
			A		<u> </u>			s		····
Total	NBIOTET	NBTOHET V	NBIOTIV A	NBIOILV	NBIOILA					

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### - Foresry Production (Base Year: 1995)

	Anoual Production (kg)		Market Price (DH4kg)
	Consumed	Sold	
	Format: F8 (290 - 294)	Format, F8 (295 - 299)	Format, F8 2 (300 - 303)
Fire wood	CONSBC	VENTBC	PRIBC
Charcoal	CONSCB	VENICB	PRICB
Timber	CONSBCH	VENTBCH	PRIBCH
Others	CONSAUTB	VENTAUIB	PRIAUIB
fotal	ICONSBOI	IVENTBOI	

### - Other Industries (Base Year: 1995)

Industry	Numbers (households)	Capacity	Energy
	Format F8	Format: F8	Format: F8
Flour mill	NBMINOT	ECRASJ (kg/daj)	ENERGMIN 0: not concern 1: generator 2: petrol 3: gass 4: electricity 5: hydro-power
Joinery	NBMEN	DiMMEN 0: not concern 1: small 2: medium 3: large	6: mule/denkey ENERGMEN 0: not concern 1: generator 2: petrol 3: gass 4: electricity 5: annimal
Pottery	NBFOT	DIMPOT 0: not concern 1: small 2. medium 3: large	ENERGPOT 0: not concern 1: generator 2: potrol 3: gass 4: electricity 5: man-power

<SECTION 3: Future Electrification>

- Equipmet which necessitates electricity ELECECLG Lighting

ELECECLG Lighting	313
ELECCHAF Heating	314
ELECCUIS Cooking	315
ELECREFR Refrigerator	316
ELECTVRD TV + Radio	317
ELECCLIM Air conditionor	318
ELECAUEQ Others	319
Format: F8	
Value Label	
1 yes	
2 no	

- Environment concerned

ENVIR1 Are you aware of the facts that overcutting of trees and over-grasing of animals lead to the erosion of soil and to the loss of cultivation lands? 320 Format: F8

Value Label

- 1 yes
- 2 no

COUPARBR Over-cutting of trees in the area 321

Format: F8 Value Label

l yes

2 no

MESURCA Degree of over-cutting 322 Format: F8 Value Label 0 not concerned

1 very heavy

### Definition of Variables for Village Chief Questionnaire

- 2 fair 3 none **ELVENBET** Over-grasing in the Area Format: F8 Value Label 1 yes 2 no MESUREB Degree of over-grasing Format: F8 Value Label 0 not concerned 1 very heavy 2 fair 3 none
- COMBGAZ Gass as an alternative energy of firewood 325 COMBELEC Electricity as an alternative energy of firewood 326 Format: F8 -Value Label
  - l yes
  - 2 no

### (Page: 5/7)

323

324

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### <SECTION 4: Public Facilities>

1

- School			
Type of Schoo	Number of	Number of	Number of
	Schools	Students	Classes
Format: F8	Format: F8	Format: F8	Format: F8
0: none	0: none	0. none	0: none
1: Koranie			
2: Primary			
3: Secondary	VEN COLES	NBELEVEI	NBELEVEI
LCOLTYPI	NBECOLEI	NBELEVE2	NBELEVE2
ECOLTYP2	NBECOLE2	INBELEVE2	INDELEVEZ
- First-aids (	(Dispensarie	5)	
NBDISPEN	Number of	First-aids	335
Forma	t: F8		
· Value	Label		
	none		
U			
SURFDISP	Floor area c	of First-aid	336
Forma	at: F8		
Missin	g Values: 0		
	Label		
. 0	not concern	ed	•
Ū.		-	
DISEOELI	Electric equ	ioment	337
•	Electric equ	•	338
Forma	-		
	g Values: 0		
	Label		
			· · · ·
	not concern	60	
1	refrigerator		

### 2 heator and air-conditionor

339

NBINFIRM Number of nurses Format: F8 Missing Values: 0 Value Label 0 not concerned

### - Other Public Facilities

Facilities	Number of Facilites	Floor area (m <sup>2</sup> )
	Format: F8	
Mosques	NBMOSQUE	SURMOSQ
Public halls	NBMAISCO	SURMAISC
Cooperatives	NBCOOPLR	SURCOOPE
Watehouses	NBENIREP	SURENIRP
Stores	NBBOUIIQ	SURBOUIQ
Butcher's shop	NBBOUCHE	SURBOUCH
Others	NBAUIFPB	SURAUTIB

### <SECTION 5: Expenditure on Energy>

### - Energy Sources in order of Priority in Frequency of Use 354 Wood for heating CLBCHAUF 355 Battery **CLBATTER** 356 **CLCHARBO** Charcoal 357 Pertol **CLPETROL** 358 Gass CLGAZ 359 Candles CLBOUGIE Format: F8 Missing Values: 0 Value Label 0 not concerned

### <SECTION 6 : Degree of diffusion of the electric appliances and source of energy

Electric	Number of	Hours et	Sources o
Appliances	Households	Utilization	Fnergy
	utilizing	(hrs/day)	0: not concern
	(%)		1: car battery
			2. dry-cell
	{	1	3: generator
			4: gass
			5: petrol
			6: others
	Format: F8	Fonnot: F8 2	Format F8
	(360 - 364)	(365 - 369)	(370 - 374)
Lighting	NBMGECL	NBIJJECI.	SENRGECL
TV+Radio	NBMG1VRD	NBHJI VRD	SENRG1 VR
Refrigerator	NBMGRFFG	NBIJ/RLF8	SENRGREF
Air-conditionor	NBMGCLIM	NBILKLIM	SENRGCLI
Heating	NBMGCHF	NBJICIIF	SENROCHE

Definition of Variables for Village Chief Questionnaire

<section 7;<br="">Electricity&gt;</section>	Intention	(Page : 6/7) on Utilization of	14 F	'ideo - Frizer- Air Iour mill - Frizer Iour mill - Pump ump	conditionor
- Desired Applian	1666			efrigerator	
	or Light	375		lideo	
			10 V	1000	
	or Light+Radio				
	or Radio+TV	377		f Households wis	· ·
Format: F8			PRMENELC	(%)	379
Value Lab	el		Format:	F8	
l yes					
2 no			<section 8:<="" td=""><td>: Pavable Capaci</td><td>ty of Household fo</td></section>	: Pavable Capaci	ty of Household fo
AUTUSAG f	or other applia	лсеs 378	Electrification		
Format: F8	or other uppin	1000 010	INVEST	Initial Investme	nt (DH) 380
Value Lab			TAXEMOIS		ant (DH/month) $381$
	101		Format		an (Drivinomity 56)
2 none	n e: .		rormat:	rð, 2	
	o-Refrigerator				
12 Flour					· · ·
	rological Data	a on Water Sources>			
Survey Items		Format and Variable No.	Value and Labels	Drinking Water	
· .	River	Format: F8 (382 - 383)	Fyes 2 no	SAEPRIV	SEIRRIV
Water Sources	Spring	(384 - 385)	- ditto -	SAEPSOUR	SEIRRSOU
	Well	(386 - 387)	- ditto -	SAEPPUIT	SEIRRPUI
Degree of Satisfaction	River	Format. F8 (388 - 389)	1: yes 2: no	SATEPRIV	SATEIRIV
on Availability and	Spring	(390 - 391)	- ditto -	SATEPSOU	SATEISOU
Distribution of Water	Well	(392 - 393)	- ditto -	SATEPPUI	SATEIPUI
	Weir	Format: F8 (394 - 395)	1: yes 2 no	INSBAREP	INSBAREI
Water Facilities	Electric Pump	(396 - 397)	- ditto -	INSPELEP	INSPELEI
	Manual Pump	(398 - 399)	- diuo -	INSPMAEP	INSPMAEL
	Bucket	(400 - 401)	- ditto -	INSSEAEP	INSSEAL
Canalization	Canal	Format: F8 (402 - 403)	1: yes 2: no - ditto -	CANALAEP	CANALEIR
Calmination	Pipeline (cendit) Internal pipe	(404 - 405) (406)	- ditto -	CANPIPEP CANROBEP	CANPIER
	Mule or Donkey	(400) (m)	Format: F8 (407)	1RSMAFP	
Transport of Water	Children	(m)	(408)	1RSENFEP	
and drawn water	Wenten	(m)	(409)	TRSFEMEP	
-	Fine for	(hrs/day)	Format: F8 2 (410)	TEMPSAEP	
	Transport	(uusou))	1 (418a. 102 (410)	That of U.	
	Quality	Format: F8 (411 - 412)	1: good 2: poor	QUALITEP	QUALITEI
Water Quality	1.5 1.7		1: very good 2: good	IURBIDEP	
Water Quality	Turbidity	(413)			· · ·
Water Quality			3: fair 4: poor 5; bad		DEFSECEI
Water Quality Water Shortage	Turbidity Drought Frequency	(41.5) Format: F8 (414 - 416) (417 - 418)		DIFSECEP DEFREQEP	DEFSECEI DEFREQEI

### - Flood

MOISINON	Flood period of river (	month: ???	DEGATS Type of damage of flood Format: A15	433
	to ???)	422		
Format: A	A15			1
				(Page: 7/7)
DEGINOND	Damages by flood	424	- Landslide	
Format:	F8			-
Value I	Label		GLISSEM Occurrence of Landslide	435
l ye	S		Format: F8	
2 no	ne		Value Labet	
			1 yes	*
TYPDEGII T	ype of Flood Damage	425	2 none	
TYPDEG12		427		
<b>TYPDEGI3</b>		429	DEGGLII Type of damages of landslide	e 436
TYPDEG14		431	DEGGLIS2	438
Format:	A15		DEGGLIS3	440
Format	A15		DEGGLISS	440

Format: A15

- Drought of River

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MOISECHR Period of drought of river (month from ??? to ???) 442 Format: A15 444 SECHENTI Zero-flow discharge Format: F8 Value Label 1 yes 2 no 445 NBJSECII Zero-flow (days/year) Format: F8 LUTSECIII Measures to drought (irrigation water) 446 LUTSECHP Measures to drought (driking water) 450 Format: A25

<SECTION 10: Water for Hydro-Power Generation> DEBIELEC Possibility of conversion of water from irrigation to electric generation 454 Format: F8 Value Label

- 1 yes 2 none

<SECTION 11: Traverse of Irrigation Canal> NBDRCAN Number of villages in upstream before irrigation canal arriving to the village 455

Format: F8

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### Definition of Valiables for Questionnaire to the Chief of Household

### -- SYSFILE INFORMATION --

Created: 20 Sep 96 11.03:57 - 553 variables and File Type: SPSS Data File		
Number of Cases: 992		
Total # of Defined Variable Elements: 553		
Data Are Not Weighted Data Are Compressed		
File Contains Case Data		
Variable Information:		I TIZI OUSSEM
		2 ID AISSA
Name	Position	3 TASSA OUIRGANE
	(Page: 1/8)	4 IGREM
<section 0:="" general="" information<="" p=""></section>	>	6 ALLA OUMZRI
		7 ID SSIOR
NUMQUE Number of questionnaire	e l	8 AGHELLA
Format: F8		9 IKISS
		10 AMSAKROU
CERCLE Cercle	2	11 ARG
Format: F8		12 TINERHOUHRINE
Value Label		15 IKKISS
		17 TACHEDDIRT
1 ASNI		18 SQOUR
<b>2 ΤΑΗΑΝΛΟυΤ</b>		19 AMAGDOUR
3 AMIZMIZ		20 TAMATERTE
4 AIT OURIR		21 ANELI
		22 TIMICHI
COMRUR Commune Rurales	3	23 AGOUNS
Format: F8		24 OULAD MANSOUR
Value Label		27 DEL EL AIN
		30 BEL ABBAS
11 OUIRGANE		32 DERB CHEM'S
12 IMGDAL		33 SOUR TEDRARA
13 TALAT N'YACOUB		34 TLAT TEDRARA
14 IJOUKAK		35 IMIN TALA
15 IGHIL		36 ADDOUZ
16 AGHBAR		37 AIN GHAD
17 ASNI		38 INZAINE
21 OURIKA		39 IMENISLY
22 SETTIFADMA		40 DOU ANAMER
23 OUKAIMDEN		41 IGOUDEM
24 TAMSLOHT		42 TOUG LKHEIF
25 TAHANAOUT		43 AIT OUZKRI
31 ANOUGAL		44 AIT HMAÐ
32 AZGOUR		45 TIZGUI
33 DAR JAMAA		46 ADARDOUR
34 AMEGHRASS	-	47 LEMDINAT
35 SIDI BADHAJ		48 TNIRT
41 AIT ADDEL		49 ANERMI
42 ABADOUR		50 ANSMROU
43 ZERKTEN		51 TALAT AIT IHLA
44 TIGHDOUINE	·	52 TOULKINE
	:	53 ADGHOUSS
NUMDO Number of Douars	4	54 DOUZROU
Format: F8		55 AIT OUTMANE
· · · ·		56 TAGADIRT
Value Label	•	57 TIFIRT
		58 ANFRIOUNE

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- 1 -

59 AIT SMIL 60 TIFRATINE 61 AGUENZE 62 IFIT BARAGHA 63 AGADIR BARAGHA 65 ADAR BARAGHA 66 TADCHERT 67 TAMSOULT 68 DAR JAMAA AIT ALL 69 AGADIR AIT BRAHIM 70 IOURAGHAN 71 IMIKE 72 IFIT AIT ALLA 73 BOUKHELF 74 ADDAR AIT ALL 76 AIT BOURD 77 AIT M'BAREK 78 AGADIR AIT BOURD 79 AFFELA OUASSIF 81 AFELLA IGHIL 84 AIT BOUZID 86 TAGADIRT AIT BOUIMZGAN 88 TIGOUDER BEN SAID ZYOUBT 89 AMEZI 90 AGOUNI 91 CHAABAT TARIK TALET NIGHIJAR 92 IGHIL SDIDEN DRAA RKIK 93 TIZI 94 AGHBALOU 95 AIT HSAIN 96 AIT BOUBKER 97 TAZATOURT 98 TAMSOULT 99 TIZGUI 100 AIT TIRGHIT 101 TACHBIBT KABLI 102 TACHBIBT ECHATOUR 103 ASGOUNE 104 AIT AAMARA LOUED 105 IGOUDER 106 LAKAARNA 107 AIT AAMARA EL BOUR 109 CHOUIRIGE 112 LAMHAMID 113 TARASTE 114 ABADOU 115 OURIZ 116 TABANT IGHI 117 ANSA 118 TIDSI 119 ALT ATMANE 120 EZZAOUITE 131 EL BOUR 132 IMSKAR 251 OULAD LAHJAR 252 OUMNAS SEXE12 SEXE DU MEMBRE DE MENAGE 38 261 AWIN MAZOUZ SEXE13 SEXE DU MEMBRE DE MENÂGE 39 262 BOUCHIHA BEN OMAR SEXE14 SEXE DU MEMBRE DE MENAGE 40 831 ANFEG

832 AGUERSOUAK 851 OUMAST 852 AIT ZITOUN 871 ZAOUIT 872 IZALAGHAN DAR BRAHIM OUALI AGECH AGE DU CHEF DE MENAGE S Format: F8 AGEENQ AGE DE L'ENQUETE 6 Format: F8 SEXENO SEXE DE L'ENQUETE 7 Format: F8 Value Label 1 MASCULIN 2 FEMININ (Page: 2/8) <SECTION I: Social and professional status of the members of the households> AGE01 AGE DU MEMBRE DU MENAGE 8 AGE02AGE DU MEMBRE DU MENAGE9AGE03AGE DU MEMBRE DU MENAGE10AGE04AGE DU MEMBRE DU MENAGE11 AGE05 AGE DU MEMBRE DU MENAGE 12 AGE06 AGE DU MEMBRE DU MENAGE 13 AGE07 AGE DU MEMBRE DU MENAGE 14 AGE08 AGE DU MEMBRE DU MENAGE 15 AGE09 AGE DU MEMBRE DU MENAGE 16 AGE10 AGE DU MEMBRE DU MENAGE 17 AGE11 AGE DU MEMBRE DU MENAGE 18 AGE12 AGE DU MEMBRE DU MENAGE 19 AGE13 AGE DU MEMBRE DU MENAGE 20 AGE14 AGE DU MEMBRE DU MENAGE 21 AGE15 AGE DU MEMBRE DU MENAGE 22 AGE16 AGE DU MEMBRE DU MENAGE 23 AGE17 AGE DU MEMBRE DU MENAGE 23 AGE17 AGE DU MEMBRE DU MENAGE 24 AGE18 AGE DU MEMBRE DU MENAGE 25 AGE19 AGE DU MEMBRE DU MENAGE 26 Format: F8 Missing Values: 0 SENEOI SEXE DU MEMBRE DE MENAGE 27 SEXE02 SEXE DU MEMBRE DE MENAGE 28 SEXE03 SEXE DU MEMBRE DE MENAGE 29 SEXE04 SEXE DU MEMBRE DE MENAGE 30 SEXE05 SEXE DU MEMBRE DE MENAGE 31 SEXE06 SEXE DU MEMBRE DE MENAGE 32 SEXE07 SEXE DU MEMBRE DE MENAGE 33 SEXE08 SEXE DU MEMBRE DE MENAGE 34 SEXE09 SEXE DU MEMBRE DE MENAGE 35 SEXE10 SEXE DU MEMBRE DE MENAGE 36 SEXELL SEXE DU MEMBRE DE MENAGE 37

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Definition of Variables for Household Questionnaire

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SEXE15 SEXE DU MEMBRE DE MENAGE	41	PARENT15 Family relation	79
SEXE16 SEXE DU MEMBRE DE MENAGE	42	PARENT16 Family relation	80
SEXE17 SEXE DU MEMBRE DE MENAGE	43	PARENT17 Family relation	81
SEXE18 SEXE DU MEMBRE DE MENAGE	44	PARENT18 Family relation	82
SEXE19 SEXE DU MEMBRE DE MENAGE		PARENT19 Family relation	83
Format: F8		Format: F8	
Missing Values: 0		Missing Values: 0	
Value Label		Value Label	
1 Masculin		0 M NON DECLAR2	
2 FEMININ		1 SANS INSTRUCTION	
		2 ECOLE CORANIQUE	
PARENT01 Family relation	46	3 PRIMAIRE	
PARENT02 Family relation	47	4 SECONDAIRE, CYCLE)	
PARENT03 Family relation	48	5 SECONDAIRE, CYCLE2	
PARENT04 Family relation	49	6 SUPERIEUR	
PARENT05 Family relation	50	7 FORMATION PROFESSIONNEL	LE
PARENT06 Family relation	51	8 CENTRE D'ALPHABETISATION	
PARENT07 Family relation	52	9 NON CONCERNE(enf<6ans)	
PARENTO8 Family relation	53		
PARENTO9 Family relation	54	STAGRI01 Status in the Agriculture	84
PARENTIO Family relation	55	STAGRI02 Status in the Agriculture	85
PARENTI1 Family relation	56	STAGRI03 Status in the Agriculture	86
PARENT12 Family relation	57	STAGRI04 Status in the Agriculture	87
PARENTI2 Family relation	58	STAGRI05 Status in the Agriculture	88
PARENTIA Family relation	59	STAGRI06 Status in the Agriculture	89
-	60	STAGRI07 Status in the Agriculture	90
PARENT15 Family relation	61	STAGRI08 Status in the Agriculture	91
PARENT16 Family relation	62	STAGRI09 Status in the Agriculture	92
PARENTI7 Family relation	63	STAGRIEO Status in the Agriculture	93
PARENTI8 Family relation	64	STAGRILI Status in the Agriculture	94
PARENT19 Family relation	Q4	STAGRI12 Status in the Agriculture	95
Format: F8		STAGRI13 Status in the Agriculture	96
Missing Values: 0		STAGRIL4 Status in the Agriculture	97
Value Label		STAGRI15 Status in the Agriculture	98
1 CHEF		STAGRI16 Status in the Agriculture	99
2 EPOUSE CHEF 3 ENFANT CHEF		STAGRI17 Status in the Agriculture	100
		STAGRI18 Status in the Agriculture	101
4 BELLE FILLE GENDRE		STAGRI19 Status in the Agriculture	102
5 PETIT ENFANT		Format: F8	102
6 PERE MERE CHEF		Missing Values: 0, 9	
7 FRERE SOEUR CHEF		Value Label	
8 AUTRES ENFANTS DU PARENT 9 AUTRES PARENTS ADULTES		1 REGULIER	
10 AUCUN LIEN		2 TEMPORAIRE	
IV AUCON LIEN		3 SAISONNIER	
DADENTOL Exploredation	65	9 M NON CONCERNE	
PARENTO1 Family relation	66	J II NOR CONCLARE	
PARENTO2 Family relation	67	NBJAGR01 Nbr days for Agriculture in a year	103
PARENTO3 Family relation		NBJAGR02 Nbr days for Agriculture in a year	104
PARENTO4 Family relation	68 60	NBJAGR02 Nor days for Agriculture in a year	105
PARENT05 Family relation	69 70	NBJAGR03 Nor days for Agriculture in a year	105
PARENT06 Family relation	70	NBJAGR05 Nor days for Agriculture in a year	100
PARENTO7 Family relation	71		108
PARENTO8 Family relation	72	NBJAGR06 Nor days for Agriculture in a year NBJAGR07 Nor days for Agriculture in a year	108
PARENT09 Family relation	73		110
PARENTIO Family relation	74	NBJAGR08 Nbr days for Agriculture in a year	
PARENTI1 Family relation	75	NBJAGR09 Nbr days for Agriculture in a year	112
PARENT12 Family relation	76	NBJAGR10 Nbr days for Agriculture in a year	
PARENT13 Family relation	77	NBJAGRHI Nor days for Agriculture in a year	113
PARENTI4 Family relation	78	NBJAGR12 Nbr days for Agriculture in a year	114

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NBJAGR13 Nbr days for Agriculture in a year	115	LOCALI7	157
NBJAGR14 Nor days for Agriculture in a year	116	LOCAL18	158
NBJAGR15 Nbr days for Agriculture in a year	117	LOCAL19	159
NBJAGR16 Nbr days for Agriculture in a year	118	Format: FS	
NBJAGR17 Nbr days for Agriculture in a year	119	Missing Values: 8	
NBJAGR18 Nbr days for Agriculture in a year	120	Value Label	
NBJAGR19 Nbr days for Agriculture in a year	121	0 Missing (not declared)	
Format: F8		1 within the same village	
Missing Values: 0		2 in other villages	
		3 in small towns	
TRAV01 Type of Work other than Agriculture	122	4 in large towns	
TRAV02 Type of Work other than Agriculture	123	5 Casablanca, Rabat	
TRAV03 Type of Work other than Agriculture	124	6 Marrakech	
TRAV04 Type of Work other than Agriculture	125	7 Abroad	
TRAV05 Type of Work other than Agriculture	126	9 Missing (not concerned)	
TRAV06 Type of Work other than Agriculture	127		•
TRAV07 Type of Work other than Agriculture	128	STTRAV01 Status in the Job of work other	than
TRAV08 Type of Work other than Agriculture	129	agriculture	160
TRAV09 Type of Work other than Agriculture	130	STTRAY02	161
TRAVIO Type of Work other than Agriculture	131	STTRAY03	162
TRAV11 Type of Work other than Agriculture	132	STTRAY04	163
TRAV12 Type of Work other than Agriculture	133	STTRAV05	164
TRAV13 Type of Work other than Agriculture	134	STTRAV06	165
TRAV14 Type of Work other than Agriculture	135	STTRAV07	166
TRAV15 Type of Work other than Agriculture	136	STTRAV08	167
TRAVI6 Type of Work other than Agriculture	137	STTRAV09	168
TRAV17 Type of Work other than Agriculture	138	STTRAV10	169
TRAV18 Type of Work other than Agriculture	139	STTRAVII	170
TRAV19 Type of Work other than Agriculture	140	STTRAV12	171
Format: F8	• • •	STTRAVI3	172
Missing Values: 0, 8, 9		STTRAVI4	173
Value Label		STTRAV15	174
0 Missing (not declared)		STTRAV16	175
1 Craftmanship		STTRAV17	176
2 Commerce, Service, Tourism, Transport		STTRAVI8	177
3 Inderries, Mines		STTRAV19	178
4 Administration		Format: F8	
5 Construction		Missing Values: 0, 9	
8 Missing (none specific jobs)		Value Label	
9 Missing (not concerned)		1 Independent with locality	
		2 Independent without locality	
LOCAL01 Location of the Work other	{han	3 Work at home	
Agriculture	141	4 Employer	
LOCAL02	142	5 Associated	
LOCAL03	143	6 Salaried	
LOCAL04	144	7 Familial help	
LOCAL05	145	8 Apprentice	122
LOCAL06	146	9 Unconcerned	• •
LOCAL07	147		
LOCAL08	148	NBTRAV01 Nbr of work days other than agricu	
LOCAL09	149	in a year	179
LOCALIO	150	NBTRAV02	180
LOCALIE	151	NBTRAV03	181
LOCAL12	152	NBTRAV04	182
LOCALI3	153	NBTRAV05	183
LOCAL14	154	•	184
LOCAL15	155	NBTRAV07	185
LOCAL16	156	NBTRAV08	186

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Definition of Variables for Household Questionnaire

NBTRAV09	187
NBTRAVIO	188
NBTRAYII	189
NBTRAV12	190
NBTRAV13	191
NBTRAV14	192
NBTRAV15	193
NBTRAV16	194
NBTRAV17	195
NBTRAV18	196
NBTRAV19	197
Format: F8	
Missing Values: 0	

(Page: 3/8)

<SECTION 2: Accomodation and Housing>

NBLOG	Number of buildings occuping b	y your
	family	198
Form	at: F8	

Value Label

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- 1 One building
  - 2 More than one building

TYPECONT Type of construction of main building

199

201

Format:	F8		
Missing	Values:	6 through 8	
Value	Label		

- 1 Permanent firm house
- 2 Rammed-clay house
- 3 Temporary house/ barracks
- 4 Shed, cowshed house
- 5 Government staff house
- 9 Others

NBPERS Number of persons in the main house 200 Format: F8

NBPIECE Number of rooms in the main house

Format: F8

202 OCCUPAT Mode of occupation of house Format: F8 Missing Values: 5 through 8

Value Label

1 Owner of house

2 Tenant

- 3 Freely occuping
- 4 Houses for jobs
- 9 Others
- SUPERFIC Area of the main house including cowhed, gardens, and courts (m<sup>2</sup>) 203 Format: F8
- TYPEAEP Type of water supply in the house 204 Format: F8

2 Publ 3 Sprin 4 Well 5 Rive 6 Port	abel e water system ic water system (by commune ru igs s or water tanks r water able steel tank (one week capacit c car (public use)	
DISTAEP Ha Format: F	uling distance of water (m) 203 8	5
<section 3:="" i<="" th=""><th>Family Income&gt;</th><th></th></section>	Family Income>	
REVAGRAN Format: F	Agricultural income (DH/year) 10.2	206
REVELVAN Format: F	Livestock income (DH/year) 10.2	207
REVFORAN	Forest production income (DH/	ут) 208
Format: F	10.2	
REVAUAN2 OH REVAUAN3 OH REVAUAN4 OH	er incomes (DH/year) der incomes (DH/year)	209 210 211 212 213
	(DH/year) 8.2	amily 214
REVTOTMO Format: F3 Missing V	(DH/month)= RRVTOTAN/12 8.2	amily 215
CONSMENS Format: Fi Missing Vi Value La .00 M no	alues: .00	amily 216
CONSANII	Annual consumption of the fa	milv

CONSANU Annual consumption of the 217 (DH/year) Format: F8.2 Value Label .00 not declared

EPARGNAN Annual saving of the family

### Definition of Variables for Household Questionnaire

(DH/yeara)	218		
Format: F8.2		SUPPAT Pasture land (ha)	221
		Format: F10.2	
<section 4:="" agricultural="" production=""></section>		Missing Values: .00	• •
-Private Property (Base Year : 1995)		SUPABAND Abandaned land (ha)	222
SUPCULT Cultivating land (ha)	219	Format: F10.2	
Format: F10 2		Missing Values: .00	
Missing Values: .00		-	
		SUPERFTO Total land (ha)	223
SUPJACH Fallow land (ha)	220	Format: F8.2	
Format: F10.2		Missing Values: .00	
		-	

Missing Values: .00 -Agricultural Production (Base Year : 1995)

Сторя		Cultivat	ted Area	<b>Total Production</b>	Sold ratio	Market price
-		(h	a)	(t) ·	(%)	(DH/kg)
		Non-irrigated	Irrigated			
		Format: F8.2	Format: F8.2	Format: F8.2	Format: F8.2	Format: F8.2
		224 - 240	241 - 257	258 - 274	275 - 291	292 - 307
Cereal	Wheat	SURBLE1	SURBLE2	PRODBLE	RATVDBLE	PRIBLE
grains	Barley	SURORGI	SURORG2	PRODORG	RATVDORG	PRIORGE
	maize	SURMAS1	SURMAS2	PRODMAS	RATVDMAS	PRIMAIS
	Other cerials	SURAUTG1	SURAUTG2	PRODAUTG	RATVDAUG	PRIAUTG
Legumes	Chick-peas	SURPOCHI	SURPOCH2	PRODPOCH	RATVDPOC	PRIPOCH
	Lentils	<b>SURLENTI</b>	SURLENT2	PRODLENT	RATVOLEN	PRILENT
	Beans	SURHARI	SURHAR2	PRODHAR.	RATVDHAR	PRIHARIC
Vegetables	Green vegetables	SURLEGV1	SURLEGV2	PRODLEV	RATVOLEV	PRILEGY
	Tomatoes	SURTOMI	SURTOM2	PRODTOM	RATVDTOM	PRITOM
	Potatoes	SURPTERI	SURPTER2	PRODPTER	RATVDPTE	PRIPTER
	Others	SURAUTLI	SURAUTL2	PRODAUTL	RATVDAUL	PRIAUTL
Fruits	Olives	SUROLIV1	SUROLIV2	PRODOLIV	RATVDOLV	PRIOLIV
	Almonds	SURAMAD1	SURAMAD2	PRODAMAD	RATVDAMD	PRIAMAND
	Apples	SURPOM1	SURPOM2	PRODPOM	RATVDPOM	PRIPOMME
	Oranges	SURORNG1	SURORNG2	PRODORNG	RATVDORN	PRIORANG
	Others	SURAUTFI	SURAUTF2	PRODAUTR	RATVDAUF	PRIAUTFR
Total		<b>SURTOTAI</b>	SURTOTA2	PRODTOTA	RATVDTOT	

	Number	Annual Selling and Consumption (heads)					Market Price (DH)			
	of	M	eat	Milk	(litre)	Fegs	(rggs)	(M	issing value: 0	.00)
livestock	Heads	Sold	Consumed	Sold	Consumed	Sold	Consumed	Meat (/kg)	Mild (/lit)	Eggs (logg)
	Format : F8	Format: F8	Format : F8	Format : F8	Format : F8	Format:18	Format : F8	Format: F8.2	Format F8 2	Format F8
	308 - 316	317 - 323	324 - 330	331 - 336	337 - 342	343	344	345 - 352	353 - 357	358
Cattle	NBBET	NBBETV	NBBEIVA	NBBEILV	NBBEILA	-	-	PVBET	PLBET	•
Sheep	NBMOUF	NBMOULV	NBMOUTV	NBMOUIL	NBMOUIL	-	-	PVMOUT	PI.MOUT	•
Goat	NBCHVR	NBCHVRV	A NBCHVRV		A NBCHEVL	-	-	PVCHEVR	PLCHVR	
Poultry	NBPOUL	NBPOULV	A NBPOULV	- -	A	NBOEUFV	NBOEUFA	PVPOUL		POEUF
Mule & Donkey	NBMUI.		-	-	-	-		PVMUL (DH/head)	-	
lorse	NBCHEVL	-	•	-	-	-	•	PVCHVL (DH/head)	-	-
.'amei	NBCHAM	NBCHAMV	NBCHAMV A	NBCHAML V	NBCHAML A	-	-	PVCHAM	PLCHAM	•
Thers	NBAUTET	NBAULIV	NBAUIVA	NBAUTLY	NBAUILA	-	-	PVAUIRES	•	•
l'otal	NBIOTEI	NBTOTETY	NBTOTIVA	NBTOILV	NBTOTLA	· · ·				·

			(Page 5/8)	2	petrol
D 1 1	oduction (Base		9	3	gass
Production		duction (kg)	Market Price	4	eletricity
	Consumed	Sold	(DH/kg) Format: F8 2		
	Format, F8	Format: F8	368 - 371	<section< td=""><td>[ 5: Energy&gt;</td></section<>	[ 5: Energy>
11: X	358 - 362	363 - 367 VENTEC	PRIBC		
Fire wood	CONSBC	VENICE	PRICB	ELECTRA	vailability of electricity in the house
Charcoal Timber wood	CONSECH	VENTBCR	PRIBCH		at: F8
Others	CONSAUIB	VENTAUIB	PRIAUTB		Label
Total	TCONSBOI	IVENIBOI		1	yes
Total	Incomposi	<u></u>		2	-
0.1 1.3	a day (Days)	V 1005)		2	none
	lustries (Base		171		
	Number of f	lour mills	372		Availability of gass in the house
Form	at: F8				at: F8
			•	Value	e Label
ECRASJ	Milling capa	city (kg/day)	373 -	1	yes
	at: F8.2			2	none
					hour
EMEDCINU	M Concern utilia	rad for milling	₂ <u>374</u>	DCIDET	Concumption of small gass hambe
	NEnergy utiliz	co ior muniț	5 574	DUALTEI	Consumption of small gass bombe
	at: F8			_	year
Value	e Label			Form	at: F8
1	Electric gener	rator			
2	Petrol			BGAZGD	Consumption of small gass bombe
3	Gass				уеаг
4	Electricity			Form	at: F8
NRMEN N	lumber of joine	×rv	375	UTERALL (	Utilization of wood in the house
	at: F8	,			at: F8
FUID	at. 10				
	0' - 0	• • • • • • • • • • • •	duation (amal)		e Label
DIMMEN	Size of		duction(small,	1	yes
	medium, larg	ge)	376	2	none
Form	at: F8				
Form	at: F8			BOISCUIS	Wood utilized for cooking
		utilized for jin	ery 377		
ENERGM	EN Energy u	tilized for jin	ery 377	BOISFOU	R Wood utilized for baking bread
ENERGMI Form	EN Energy u at: F8	tilized for jin	ery 377	BOISFOU BOISCHA	R Wood utilized for baking bread U Wood utilized for heating room
ENERGM Form Value	EN Energy u at: F8 e Label		ery 377	BOISFOUL BOISCHA BOISCLO	R Wood utilized for baking bread U Wood utilized for heating room F Wood utilized for fencing animals
ENERGM Form Value 1	EN Energy u at: F8 e Label electric genera		ery 377	BOISFOUI BOISCHA BOISCLO BOISCON	R Wood utilized for baking bread U Wood utilized for heating room Γ Wood utilized for fencing animals S Wood utilized for construction
ENERGM Form Value 1 2	EN Energy u at: F8 e Label electric genera petrol		ery 377	BOISFOUI BOISCHA BOISCLO BOISCON Form	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8
ENERGM Form Value 1 2 3	EN Energy u at: F8 e Label electric genera petrol gass		ery 377	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9
ENERGM Form Value 1 2	EN Energy u at: F8 e Label electric genera petrol		ery 377	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8
ENERGM Form Value 1 2 3	EN Energy u at: F8 e Label electric genera petrol gass		•	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9
ENERGM Form Value 1 2 3	EN Energy u at: F8 e Label electric genera petrol gass	ator	ery 377	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value	R Wood utilized for baking bread U Wood utilized for heating room Γ Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label
ENERGMI Form Value 1 2 3 4 NBPOT	EN Energy u at: F8 e Label electric genera petrol gass eletricity	ator	•	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes no
ENERGMI Form Value 1 2 3 4 NBPOT	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p	ator	•	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes
ENERGMI Form Value 1 2 3 4 NBPOT Form	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8	ator pottery	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes no not concerned
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s	ator	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes no not concerned BR Wood collected by cutting trees
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8	ator pottery	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0	ator pottery	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 e Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label	ator pottery scale of potter	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 e Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned	ator pottery scale of potter	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 e Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label	ator pottery scale of potter	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 e Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned small	ator pottery scale of potter	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM MPBABRO MPBACHA Form	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0 1	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concernect small medium	ator pottery scale of potter	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM MPBABRO MPBACH Form Missi	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8 ng Values: 9
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0 1 2	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned small	ator pottery scale of potter	378	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM MPBABRO MPBACHA Form Missi Value	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 E Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8 ng Values: 9 E Label
ENERGMI Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0 1 2 3	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned small medium large	ator bottery scale of potter	378 гу 379	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM MPBABRO MPBACHA Form Missi Value 1	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 : Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8 ng Values: 9 : Label yes
ENERGM Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0 1 2 3 ENERGPO	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned small medium large	ator pottery scale of potter	378 гу 379	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBABRO MPBABRO MPBACHA Form Missi Value 1 2	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 : Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8 ng Values: 9 : Label yes no
ENERGM Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0 1 2 3 ENERGPC Form	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned small medium large OT Energy u at: F8	ator bottery scale of potter	378 гу 379	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBRAM MPBABRO MPBACHA Form Missi Value 1	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 : Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8 ng Values: 9 : Label yes
ENERGM Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0 1 2 3 ENERGPO Form Value	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned small medium large OT Energy u at: F8 e Label	ator bottery scale of potter	378 гу 379	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBABRO MPBABRO MPBACHA Form Missi Value 1 2	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 : Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8 ng Values: 9 : Label yes no not concerned
ENERGM Form Value 1 2 3 4 NBPOT Form DIMPOT Form Missi Value 0 1 2 3 ENERGPO Form Value	EN Energy u at: F8 e Label electric genera petrol gass eletricity Number of p at: F8 Production s at: F8 ng Values: 0 e Label not concerned small medium large OT Energy u at: F8	ator bottery scale of potter d	378 гу 379	BOISFOUI BOISCHA BOISCLO BOISCON Form Missi Value 1 2 9 MPBCARI MPBABRO MPBABRO MPBACHA Form Missi Value 1 2	R Wood utilized for baking bread U Wood utilized for heating room T Wood utilized for fencing animals S Wood utilized for construction at: F8 ng Values: 9 : Label yes no not concerned BR Wood collected by cutting trees AS Wood collected from dead tree DU Wood collected by uprouting ground 39 AT Wood bought from a salesman at: F8 ng Values: 9 : Label yes no

RBEPOUSE RBENF	Wood collected by wife Wood collected by children	396 397		concerned
RBMEMBRE	Wood collected by memb household	er of 398	мрснвоар	Charcoal produced
RBAUTRE	Wood collected by other mem	bers 399	MPCHBOCV	Charcoal purchased in the village
Format: F Missing V		-	мрснвома	Charcoal purchas pedlar
Value 1. 1 yes	abel		мрсивоси	· · · ·
2 10			Format: F	-
	concerned		Missing V	alues: 9
			Value L	abel
	ood collected from private land		l yes	
LRBDCOLLW	ood collected from communal I		2 no	
		401	9 not	concerned
	ood collected from forests	402	ΔΤΟΠΡΟΛΙΗ	Consumption quan
	lood collected from state land	403 404	QIUIDOMIA	winter (kg/month)
Format: F	ood collected from other land	404	OTCHBOAS	Consumption qua
Missing V			QTERIDONS	season (kg/month)
Value L			Format: F	• •
l yes				
2 10			PETRLAMPU	ilization of oil lamp
9 not	concerned		Format: F	
			Value L	
	onsumption quantity of wo		1 yes	
	nter (kg/month)	405	2 no	
	onsumption quantity of wood in ason (kg/month) °	406	QTLPETM Co	onsumption of oil in a
connat. r	o		Format: F	8
ACHBOIS PU	archasing rate of above quant	ity of		
	ood	407		tilization of residua
Format: F	8			imals as fuel
Missing V			Format: F	-
Value L	abel		Value L	
l all 2 hali	c		l yes 2 non	
2 hali 3 few			2 101	
4 nor				
	concerned			
	(Page	: 6/8)		
011,000,000,00		100		
Format: F	tilization of charcoal	408		
Value L		-		
l yes				
2 no				
UCHBOCUS	Charcoal for cooking	409		
UCHBOCHF	Charcoal for heating water Charcoal for other purposes	410 411		
UCHBOAUT Format: F Missing V	8	411		
Value L				
1 ves				

- 1 yes 2 no

- 8 -

мрснвоар	Charcoal produced by themselves
	412
MPCHBOCV	Charcoal purchased from a salesman
	in the village 413
мрснвома	
	pedlar 414
мрснвосн	•
in on boon	producer 415
Format: F	-
Missing V	
Value L	
1 yes	
2 no	
	concerned
> 1.01	concentra .
-	Consumption quantity of charcoal in winter (kg/month) 416
QTCHBOAS	Consumption quantity in other
_	season (kg/month) 417
Format: F	8
PETRLAMPUt Format: F Value L 1 yes 2 no	
-	onsumption of oil in a month (litre) 419
Format: F	8
	ilization of residuals of crop and imats as fuel 420 8

P

Definition of Variables for Household Questionnaire

### -Electric Appliances COUTELECCost of electricity for electric appliances (DH/month) 421 Format: F8.2 Value Label .00 not declared

Appliances	Number of appliances	Utilization (hrs/dav)	Energy for appliances
	Fermat : F8 422 - 427	Format : F8 428 - 433	Format : F8 434 • 439
Lamp	NBAECL	NBHJECL	SENRGECL
Television	NBATV	NBHJIV	SENRGIV
Radio	NBARAD	NBHIRAD	SENRGRAD
Air conditionor	NBACLIM	NBHJCLIM	SENRGCLI
Refrigerator	NBAREF	NBHIREF	SENRGRFF
Others	NBAAUIR	NBIUAUT	SENRGAUT

<Energy for appliances>

Format: F8

Missing Values: 9

Value Label

- 1 car battery
- 2 dry-cell
- 3 electric generator
- 4 gass
- 5 petrol
- 6 others
- 9 not concerned

### -Equipment for lighting, cooking and heating

Purposes	Equipment	Number of equipment	Utilization (hrs/day)	Fuels	
		Format: F8 440 - 449	Format: F8 2 450 - 459	Format: F8 460 - 468	Fuels
Lighting	Oil lamp	NBI HEC	NBHJLHEC	COMBLHEC	1 oil
	Gass lamp	NBLGEC	NBHJLGEC	COMBLGEC	2 gass
	Candle	NBBOGMEC	NBHJBGEC		3 charcoal
Cooking	Electric oven	NBFECUIS	NBHJFECU	COMBIECU	4 wood
	Gass oven	NBFGCUIS	NBHJFGCU	COMBFGCU	
	Traditional oven (Kanoun)	NBFTCUIS	NBHJFTCU	COMBFICU	
Heating	Iron brazier	NBBRACHF	NBHJBRCH	COMBBRCH	
	Stone chemney	NBCHCHF	NBHJCHCH	COMBCHCH	
	Traditional oven (Majmar)	NBFICHF	NBHJFTCH	COMBFTCH	
	Others	NBAUICHF	NBHJAUCH	COMBAUCH	

### (Page 7/8)

### - Utilization of Fuels

Total Cost Price (DH) Quantity purchased Purchased Ratio Fuels Annual consumption (DH) (%) Fermat: F8 2 Format: F8, F8.1, F8.2 Format: F8 2 Fonnat: F8 Format: F8.2 497 - 503 476 - 482 483 - 489 490 - 496 469 - 475 PUABOIS /kg CTABOIS QTACHBO Wood OTCABOIS PRACIE kg kg PUACHARB Ag CTACHARB QTACHCB PRACIICB 18 QTCACB Charcoal kg CTAGAZEC PUAGAZEC Ait QTCAGZEC PRACHGEC QTACHGEC lit for lighting ĥt CTAGAZEQ QTACHGEQ lit PUAGAZEQ Ait Gass QTCAGZEQ lit PRACHGEQ for fuel equipment QTACHGTO PUAGAZIO Ait CTAGAZTO PRACHGTO lit QTCATOTC lit Total CTAPEIRO PUAPEIRO Ait PRACHPET QTACHPET lit Oil OTCAPETR lit QTACHBOG Nor PUABOUG ANor CTABOUGI PRACHBOG QTCABOUG Nbr Candle Total

### <SECTION 6: Intention and Utilization of Electricity>

Intention on	Number of desired	Utilization
utilization of	articles	(hrs/day)
electricity for	Format: F8	Format: F8
	504 - 509	510 - 515
Lighting	NADECLAI	NPHUÆCL
Radio	NADRADIO	NPHUJRAD
Television	NADIV	NPHUЛI V
Heating	NADCHAF	NPHUJCHF
Air-conditioning	NADCLIMA	NPHUJCLM
Others	NADAUTRE	NPHUJAUT

### <SECTION 7 : Payable Cost for Electricity>

- INVEST Payable initial cost (DH) 516 Format: F8.2
- TAXEMOIS Payable monthly cost (DH/month) 517 Format: F8.2

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