

APPENDIX-4
Socio-economic·Environmental
Inventory

INVENTORY CONCERNED ON SOCIAL AND ENVIRONMENTAL ASPECTS

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	10	Douar
C.R.	11	Ouirgane Cercle 1 Asni

Location		Latitude	N31	7	18	Longitude	W7	58	33	Altitude	1,800 (m)
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Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	2.00	household	Pist	13.0	(km)
Households	72	86	Non-agri.	1.00	household	Path	3.5	(km)
Population	444	537	Total	3.00	household	Total	16.5	(km)

House Conditions		Structure of House		Number of houses		Annual Budget per Household	
House size:household	(m2)	Tradition	Modern	Single	Plural	Agri.	45,384
Rooms	310	100%	0%	75%	25%	Livestock	5,635
						Forestry	69
						Others	29,050
						Total	80,138
							100.0%
						Expend.	28,800
						Saving	51,338

Education Ratio		Villagers over 7 years old			Children (7-12 years old)		
Education Level	Total	Male	Female	Total	Male	Female	
None	59.1%	46.2%	77.8%				
Koranic	40.9%	53.8%	22.2%				
Fundamental	31.8%	38.5%	22.2%	60.0%	100.0%	33.3%	

Land holding and Cultivated land (ha:household)		Cultivated Crops (ha:household)						
Total Land (ha)	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
2.63	0.33	0.11	0.00	0.00	0.13	0.00	1.85	2.42
Sold Ratio (%)	0.0	0.0	0.0	0.0	90.0	0.0	100.0	
Irrigation (%)	50.0	100.0	0.0	0.0	100.0	0.0	66.7	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.50	12.50	0.00	7.75	0.25	0.00	0.00	22.00

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	100%	75%	0%
Satisfaction	0%	100%	0%		0%	100%	0%
Quality		good				good	
Shortage		yes				yes	
Frequency (yr)		1/1				1/1	

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	20	Deuar
C.R.	11	Ouirgane
		Cerele
		1
		Asni

Location

Latitude	N31	8'	43"	Longitude	W7	58'	47"	Altitude	1,740	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	44	52
Population	180	218

Working Member per household

Agriculture	2.00	/household
Non-agri.	0.83	/household
Total	2.83	/household

Access (km)

Pist	13.0	(km)
Path	1.5	(km)
Total	14.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	219	100%	0%	100%	0%

Annual Budget per Household

Agri.	55,151	78.5%
Livestock	11,100	15.8%
Forestry	0	0.0%
Others	4,000	5.7%
Total	70,251	100.0%
Expend.	15,123	
Saving	55,127	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	58.1%	40.0%	90.9%			
Koranic	41.9%	60.0%	9.1%			
Fundamental	19.4%	25.0%	9.1%	66.7%	100.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
2.21	1.00	0.47	0.00	0.00	0.75	0.00	2.07	4.28
Sold Ratio (%)	0.0	0.0	0.0	0.0	89.7	0.0	98.8	
Irrigation (%)	6.7	100.0	0.0	0.0	100.0	0.0	80.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.33	4.33	24.67	26.83	0.83	0.00	0.00	59.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	83%	17%	0%	100%	0%	0%
Satisfaction	0%	80%	100%		67%	0%	0%
Quality		good				good	
Shortage		yes				yes	
Frequency (yr)		1/1				1/1	

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	30	Douar
C.R.	11	Ouirgane
		Cercle
		1
		Asni

Location

Latitude	N31	10'	66	Longitude	W8	1'	50	Altitude	1,190	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	55	65
Population	375	454

Working Member per household

Agriculture	1.71	household
Non-agri.	0.43	household
Total	2.14	household

Access (km)

Pist	6.0	(km)
Path	0.0	(km)
Total	6.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	153	100%	0%	100%	0%

Annual Budget per Household

Agri.	33,010	73.9%
Livestock	4,826	10.8%
Forestry	0	0.0%
Others	6,857	15.3%
Total	44,693	100.0%
Expend.	16,014	
Saving	28,679	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	68.1%	55.6%	75.9%			
Koranic	31.9%	44.4%	24.1%			
Fundamental	31.9%	44.4%	24.1%	45.5%	100.0%	40.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm	Apples,	
3.42	0.00	0.00	0.00	0.05	0.14	0.37	1.26	1.82
Sold Ratio (%)	0.0	0.0	0.0	81.7	88.0	88.6	100.0	
Irrigation (%)	0.0	100.0	0.0	100.0	100.0	20.0	33.3	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.14	2.57	2.86	16.14	0.57	0.00	0.00	23.29

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	29%	86%	0%	0%	100%	43%	0%
Satisfaction	50%	100%	0%		57%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	40	Donar
C.R.	12	Ingat
		Cercle
		1
		Asni

Location

Latitude	N31	4	37	Longitude	W8	2	50	Altitude	1,750	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	27	32
Population	130	157

Working Member per household

Agriculture	2.50	household
Non-agri.	0.17	household
Total	2.67	household

Access (km)

Pist	15.0	(km)
Path	0.5	(km)
Total	15.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	177	100%	0%	83%	17%

Annual Budget per Household

Agri.	56,414	77.1%
Livestock	15,753	21.5%
Forestry	0	0.0%
Others	1,000	1.4%
Total	73,168	100.0%
Expend.	22,513	
Saving	50,654	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	85.2%	76.5%	100.0%			
Koranik	14.8%	23.5%	0.0%			
Fundamental	7.4%	11.8%	0.0%	66.7%	66.7%	#DIV/0!

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
1.92	1.25	0.71	0.00	0.08	0.08	0.35	2.22	4.69
Sold Ratio (%)	0.0	0.0	0.0	77.2	100.0	83.3	100.0	
Irrigation (%)	80.0	100.0	0.0	100.0	100.0	33.3	50.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.83	16.17	43.33	32.00	0.83	0.00	0.00	95.17

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	83%	33%	0%
Satisfaction	0%	83%	0%		60%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages			1
No.	60	Deuar	Alla Oumzri
C.R.	13	Talat N Yacoub	Cercle 1 Asni

Location

Latitude	N30	58'	49"	Longitude	W8	9'	39"	Altitude	1,440 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	40	48
Population	280	339

Working Member per household

Agriculture	2.00	household
Non-agri.	0.33	household
Total	2.33	household

Access (km)

Pist	1.5	(km)
Path	2.0	(km)
Total	3.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	167	100%	0%	100%	0%

Annual Budget per Household

Agri.	7,882	44.9%
Livestock	7,223	41.2%
Forestry	0	0.0%
Others	2,433	13.9%
Total	17,539	100.0%
Expend.	11,825	
Saving	5,714	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	58.5%	33.3%	85.0%			
Koranic	41.5%	66.7%	15.0%			
Fundamental	34.1%	52.4%	15.0%	83.3%	100.0%	50.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
1.68	1.00	0.08	0.00	0.00	0.08	0.64	0.20
Sold Ratio (%)	0.0	0.0	0.0	0.0	100.0	98.0	95.4
Irrigation (%)	60.0	100.0	0.0	100.0	100.0	50.0	66.7

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.83	1.67	8.33	7.67	1.00	0.00	0.00	20.50

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	17%	83%	0%	0%	17%	83%	0%
Satisfaction	100%	100%	0%		100%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	70	Douar
C.R.	14	Ijoukak
		Cercle
		1
		Asni

Location

Latitude	N31	1'	19	Longitude	W8	5'	33	Altitude	1,650	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	66	78
Population	500	605

Working Member per household

Agriculture	3.50	household
Non-agri.	0.63	household
Total	4.13	household

Access (km)

Pist	0.0	(km)
Path	6.0	(km)
Total	6.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
10	218	100%	0%	88%	13%

Annual Budget per Household

Agri.	9,440	40.6%
Livestock	13,298	57.2%
Forestry	0	0.0%
Others	495	2.1%
Total	23,233	100.0%
Expend.	20,625	
Saving	2,608	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	75.7%	60.0%	96.7%			
Koranic	24.3%	40.0%	3.3%			
Fundamental	14.3%	22.5%	3.3%	30.8%	50.0%	14.3%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
2.19	1.38	0.29	0.00	0.00	0.00	1.26	0.16	3.08
Sold Ratio (%)	0.0	0.0	0.0	0.0	0.0	96.0	98.6	
Irrigation (%)	50.0	60.0	0.0	0.0	0.0	62.5	66.7	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.13	18.13	40.63	9.38	0.63	0.00	0.00	70.88

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	25%	100%	0%
Satisfaction	0%	88%	0%		50%	75%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	80	Deouar
C.R.	15	Ighil
		Cercle
		1
		Asni

Location									
Latitude	N31	0'	15	Longitude	W8	22'	51	Altitude	2,050 (m)

Households and Population			Working Member per household		Access (km)	
	Yr 1996	Yr 2010	Agriculture	2.25 household	Pist	10.0 (km)
Households	64	76	Non-agri.	0.13 household	Path	15.5 (km)
Population	394	477	Total	2.38 household	Total	25.5 (km)

House Conditions		Structure of House		Number of houses		Annual Budget per Household	
House size household		Tradition	Modern	Single	Plural	Agri	11,620 38.4%
Rooms	(m2)					Livestock	17,047 56.4%
8	169	100%	0%	100%	0%	Forestry	0 0.0%
						Others	1,563 5.2%
						Total	30,230 100.0%
						Expend.	13,200
						Saving	17,030

Education Ratio		Villagers over 7 years old			Children (7-12 years old)		
Education Level		Total	Male	Female	Total	Male	Female
None		66.0%	56.5%	75.0%			
Koranic		34.0%	43.5%	25.0%			
Fundamental		21.3%	17.4%	25.0%	57.1%	40.0%	66.7%

Land holding and Cultivated land (ha household)		Cultivated Crops (ha household)						
Total Land (ha)		W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
0.97		0.78	0.13	0.00	0.03	0.22	0.10	0.39 1.65
Sold Ratio (%)		0.0	0.0	0.0	75.4	84.3	96.6	100.0
Irrigation (%)		90.0	100.0	6.0	100.0	100.0	100.0	100.0

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.50	49.50	31.25	6.50	0.88	0.00	0.00	89.63

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	63%	38%	0%	0%	100%	0%	0%
Satisfaction	100%	100%	0%		100%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	#DIV/0!
no	#DIV/0!

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	90 Douar	Ikiss
C.R	16	Aghbar Cercle 1 Asni

Location

Latitude	N30	55'	55'	Longitude	W8	23'	54'	Altitude	1,700 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	68	81
Population	359	471

Working Member per household

Agriculture	1.75	household
Non-agri.	0.38	household
Total	2.13	household

Access (km)

Pist	16.5	(km)
Path	4.0	(km)
Total	20.5	(km)

House Conditions

House size:household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	141	100%	0%	100%	0%

Annual Budget per Household

Agri.	8,691	40.4%
Livestock	8,485	39.5%
Forestry	0	0.0%
Others	4,313	20.1%
Total	21,489	100.0%
Expend.	17,025	
Saving	4,464	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.5%	71.4%	91.7%			
Koranic	22.5%	28.6%	8.3%			
Fundamental	17.5%	21.4%	8.3%	50.0%	50.0%	50.0%

Land holding and Cultivated land (ha:household)

Total	Cultivated Crops (ha:household)							
Land (ha)	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm.	Apples,	Total
0.88	0.66	0.47	0.00	0.03	0.13	0.39	0.21	1.88
Sold Ratio (%)	0.0	0.0	0.0	77.2	88.0	100.0	99.4	
Irrigation (%)	100.0	100.0	0.0	100.0	100.0	100.0	100.0	

Number heads of Live stock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.50	8.75	18.13	37.50	0.88	0.00	0.00	66.75

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	25%	88%	0%
Satisfaction	0%	100%	0%		50%	86%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of ever deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	100	Douar
C.R.	17	Asni
		Asni
		Asni

Location

Latitude	N31	10'	25	Longitude	W7	54'	8	Altitude	1,850	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	55	65
Population	420	508

Working Member per household

Agriculture	2.00	household
Non-agri.	0.83	household
Total	2.83	household

Access (km)

Pist	10.0	(km)
Path	3.5	(km)
Total	13.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
12	358	100%	0%	100%	0%

Annual Budget per Household

Agri.	49,027	77.1%
Livestock	12,947	20.4%
Forestry	900	1.4%
Others	700	1.1%
Total	63,574	100.0%
Expend.	23,217	
Saving	40,357	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	68.4%	52.0%	100.0%			
Koranic	31.6%	48.0%	0.0%			
Fundamental	15.8%	24.0%	0.0%	33.3%	60.0%	0.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples,	Total
4.04	1.79	0.58	0.00	0.42	0.50	0.10	1.81	5.20
Sold Ratio (%)	0.0	0.0	0.0	80.0	75.2	93.3	98.4	
Irigation (%)	50.0	100.0	0.0	100.0	100.0	50.0	51.5	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.83	29.17	40.00	31.67	0.83	0.00	0.00	103.50

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	100%	50%	0%
Satisfaction	0%	100%	0%		67%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	110	Donar
C.R.	17	Asni
		Cerale
		1
		Asni

Location

Latitude	N31	11'	17	Longitude	W7	55'	19	Altitude	1,580	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	75	89
Population	1,020	1,234

Working Member per household

Agriculture	2.56	/household
Non-agri.	0.11	/household
Total	2.67	/household

Access (km)

Pist	10.0	(km)
Path	0.5	(km)
Total	10.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	138	100%	0%	100%	0%

Annual Budget per Household

Agri.	39,189	81.7%
Livestock	5,353	14.5%
Forestry	0	0.0%
Others	1,400	3.8%
Total	36,942	100.0%
Expend.	14,400	
Saving	22,542	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.6%	59.3%	100.0%			
Koranik	22.4%	40.7%	0.0%			
Fundamental	14.3%	25.9%	0.0%	41.7%	83.3%	0.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
2.67	0.61	0.22	0.00	0.00	0.56	0.10	1.10
Sold Ratio (%)	0.0	0.0	0.0	0.0	87.5	100.0	98.7
Irrigation (%)	71.4	75.0	0.0	0.0	100.0	0.0	50.7

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.56	0.11	8.22	10.22	0.89	0.00	0.00	21.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	33%	100%	0%	0%	100%	78%	0%
Satisfaction	100%	78%	0%		56%	57%	0%
Quality	good				good		
Shortage	no				no		
Frequency (yr)	1/0				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	120	Douar
C.R.	17	Asni
		Timahouhine
		Asni
		Cercle
		1
		Asni

Location

Latitude	N31	9	30	Longitude	W7	51	15	Altitude	2,000	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	30	36
Population	250	302

Working Member per household

Agriculture	2.50	household
Non-agri.	0.75	household
Total	3.25	household

Access (km)

Pist	10.0	(km)
Path	3.5	(km)
Total	13.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
9	375	100%	0%	100%	0%

Annual Budget per Household

Agri.	11,091	43.1%
Livestock	9,445	41.0%
Forestry	0	0.0%
Others	2,500	10.9%
Total	23,036	100.0%
Expend.	18,170	
Saving	4,866	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	82.8%	76.9%	87.5%			
Koranic	17.2%	23.1%	12.5%			
Fundamental	10.3%	7.7%	12.5%	16.7%	0.0%	20.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples.	
1.06	0.50	0.19	0.00	0.06	0.13	0.14	0.40	1.41
Sold Ratio (%)	0.0	0.0	0.0	77.2	94.0	100.0	96.3	
Irrigation (%)	100.0	100.0	0.0	100.0	100.0	100.0	66.7	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.50	0.00	28.75	11.50	1.25	0.00	0.00	43.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	25%	75%	0%	0%	100%	25%	0%
Satisfaction	100%	100%	0%		50%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	131	Deuar
C.R.	17	Asni
		El Bour
		Asni

Location

Latitude	N31	12	28	Longitude	W7	56	26	Altitude	1,400	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	65	77
Population	510	617

Working Member per household

Agriculture	1.50	household
Non-agri.	1.13	household
Total	2.63	household

Access (km)

Pist	3.0	(km)
Path	0.0	(km)
Total	3.0	(km)

House Conditions

House size:household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	149	100%	0%	75%	25%

Annual Budget per Household

Agri.	14,531	52.4%
Livestock	4,120	14.8%
Forestry	0	0.0%
Others	9,100	32.8%
Total	27,751	100.0%
Expend.	14,625	
Saving	13,126	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	73.5%	58.6%	95.0%			
Koranic	26.5%	41.4%	5.0%			
Fundamental	20.4%	31.0%	5.0%	40.0%	50.0%	20.0%

Land holding and Cultivated land (ha:household)

Total Land (ha)	Cultivated Crops (ha:household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm.	Apples,	
1.20	0.56	0.00	0.00	0.11	0.17	0.05	0.43	1.32
Sold Ratio (%)	0.0	0.0	0.0	77.2	94.0	89.4	98.8	
Irrigation (%)	33.3	100.0	0.0	66.7	100.0	66.7	66.7	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.63	0.00	4.25	9.38	0.88	0.00	0.00	16.13

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Pank	River	Spring	Well
Water Source	63%	100%	0%	0%	88%	0%	0%
Satisfaction	60%	38%	0%		86%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	132	Douar
C.R.	17	Asni

Location

Latitude	N31	12'	37"	Longitude	W7	56'	20"	Altitude	1,380	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	40	48
Population	280	339

Working Member per household

Agriculture	1.60	household
Non-agri.	0.80	household
Total	2.40	household

Access (km)

Pist	3.0	(km)
Path	1.0	(km)
Total	4.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	159	100%	0%	100%	0%

Annual Budget per Household

Agri.	40,559	80.3%
Livestock	5,121	10.1%
Forestry	0	0.0%
Others	4,800	9.5%
Total	50,479	100.0%
Expend.	17,080	
Saving	33,399	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.8%	66.7%	88.9%			
Koranic	22.2%	33.3%	11.1%			
Fundamental	19.4%	27.8%	11.1%	50.0%	50.0%	50.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples, Total
1.75	1.80	0.00	0.00	0.07	0.12	0.20	1.54
Sold Ratio (%)	5.0	0.0	0.0	77.2	94.0	75.3	100.0
Irrigation (%)	0.0	0.0	0.0	100.0	100.0	50.0	50.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.60	0.00	0.00	16.00	0.80	0.20	0.00	18.60

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	40%	100%	0%	0%	100%	20%	0%
Satisfaction	100%	60%	0%		40%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1				
No.	150	Douar	Ikiss			
C.R.	17	Asni	Cercle	1	Asni	

Location

Latitude	N31	10'	5	Longitude	W7	53'	28	Altitude	1,850 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	65	77
Population	500	605

Working Member per household

Agriculture	1.63	household
Non-agri.	0.75	household
Total	2.38	household

Access (km)

Pist	10.0	(km)
Path	5.0	(km)
Total	15.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	120	100%	0%	100%	0%

Annual Budget per Household

Agri.	9,582	47.0%
Livestock	4,365	21.4%
Forestry	0	0.0%
Others	6,438	31.6%
Total	20,385	100.0%
Expend.	12,128	
Saving	8,257	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	95.3%	90.9%	100.0%			
Koranik	4.7%	9.1%	0.0%			
Fundamental	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alon.	Apples,	
0.57	0.23	0.15	0.13	0.00	0.09	0.13	0.33	1.06
Sold Ratio (%)	0.0	0.0	0.0	0.0	94.0	68.2	87.7	
Irrigation (%)	80.0	100.0	100.0	100.0	100.0	50.0	60.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.13	0.25	7.13	15.50	0.75	0.00	0.00	24.75

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	88%	63%	0%
Satisfaction	0%	100%	0%		71%	100%	0%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	170	Douar
C.R.	17	Asni
		Asni

Location		
Latitude	N31° 9' 30"	Longitude W7° 50' 48"
Altitude	2,180	(m)

Households and Population			Working Member per household		Access (km)	
	Yr 1996	Yr 2010				
Households	60	71	Agriculture	1.25	Pist	10.0 (km)
Population	360	436	Non-agri.	0.50	Path	2.0 (km)
			Total	1.75	Total	12.0 (km)

House Conditions			Annual Budget per Household		
House size-household	Structure of House	Number of houses			
Rooms	(m2)	Tradition	Modern	Single	Plural
7	175	100%	0%	100%	0%

Agri.	12,051	46.1%
Livestock	9,975	38.1%
Forestry	0	0.0%
Others	4,125	15.8%
Total	26,151	100.0%
Expend.	13,650	
Saving	12,501	

Education Ratio		Villagers over 7 years old			Children (7-12 years old)		
Education Level		Total	Male	Female	Total	Male	Female
None	74.1%	57.1%	92.3%				
Koranic	25.9%	42.9%	7.7%				
Fundamental	18.5%	28.6%	7.7%		80.0%	100.0%	50.0%

Land holding and Cultivated land (ha. household)		Cultivated Crops (ha. household)						
Total Land (ha)		W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
1.00		0.50	0.28	0.00	0.03	0.28	0.00	1.38
Sold Ratio (%)		0.0	0.0	0.0	77.2	92.0	0.0	87.5
Irrigation (%)		83.3	100.0	0.0	100.0	100.0	0.0	80.0

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.88	17.75	14.38	25.38	0.88	0.00	0.00	60.25

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	100%	38%	0%
Satisfaction	0%	100%	0%		75%	67%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	180	Douar
C.R.	21	Ourika
		Cercle
		2
		Tahanaout

Location

Latitude	N31	20'	39	Longitude	W7	43'	32	Altitude	1,200	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	45	53
Population	360	436

Working Member per household

Agriculture	1.89	household
Non-agri.	1.44	household
Total	3.33	household

Access (km)

Pist	0.0	(km)
Path	5.0	(km)
Total	5.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	150	100%	0%	89%	11%

Annual Budget per Household

Agri.	12,705	49.6%
Livestock	5,753	22.5%
Forestry	0	0.0%
Others	7,156	27.9%
Total	25,614	100.0%
Expend.	13,529	
Saving	12,085	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	62.2%	44.0%	85.0%			
Koranic	37.8%	56.0%	15.0%			
Fundamental	26.7%	36.0%	15.0%	50.0%	50.0%	50.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
2.50	1.17	0.00	0.00	0.06	0.58	0.18	0.23	2.22
Sold Ratio (%)	2.9	0.0	0.0	77.2	94.0	73.8	99.1	
Irrigation (%)	21.4	100.0	0.0	100.0	100.0	66.7	50.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.67	3.56	9.56	8.44	1.00	0.11	0.00	24.33

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	11%	89%	0%	0%	56%	56%	0%
Satisfaction	0%	100%	0%		40%	60%	0%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	190	Douar
C.R.	21	Ourika
		Cercle
		2
		Tahanaout

Location

Latitude	N31	20'	58'	Longitude	W7	43'	9'	Altitude	1,150	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	22	26
Population	150	181

Working Member per household

Agriculture	1.17	household
Non-agri.	0.67	household
Total	1.83	household

Access (km)

Pist	0.0	(km)
Path	6.0	(km)
Total	6.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	195	100%	0%	100%	0%

Annual Budget per Household

Agri.	5,249	34.1%
Livestock	6,563	42.6%
Forestry	0	0.0%
Others	3,600	23.4%
Total	15,412	100.0%
Expend.	9,740	
Saving	5,672	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	59.4%	38.9%	85.7%			
Koranic	40.6%	61.1%	14.3%			
Fundamental	31.3%	50.0%	7.1%	75.0%	100.0%	33.3%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
1.49	1.06	0.03	0.00	0.37	0.13	0.06	0.00
Sold Ratio (%)	0.0	0.0	0.0	85.3	60.5	75.5	0.0
Irrigation (%)	0.0	0.0	0.0	66.7	100.0	75.0	100.0

Number heads of Livestock per household

Catife	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.17	2.00	10.33	7.83	0.67	0.00	0.00	22.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	50%	67%	0%
Satisfaction	0%	100%	0%		67%	100%	0%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	200	Deuar
C.R.	22	Settifadma
		Cercle
		2
		Tahanaout

Location

Latitude	N31	12	5	Longitude	W7	42	43	Altitude	1,800	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	49	48
Population	240	290

Working Member per household

Agriculture	0.63	household
Non-agri.	0.50	household
Total	1.13	household

Access (km)

Pist	0.0	(km)
Path	2.5	(km)
Total	2.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	104	100%	0%	100%	0%

Annual Budget per Household

Agri.	3,275	19.5%
Livestock	6,518	38.9%
Forestry	0	0.0%
Others	6,975	41.6%
Total	16,768	100.0%
Expend	11,691	
Saving	5,077	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	90.0%	86.7%	93.3%			
Koranic	10.0%	13.3%	6.7%			
Fundamental	3.3%	6.7%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
0.15	0.08	0.01	0.00	0.08	0.11	0.00	0.07
Sold Ratio (%)	0.0	0.0	0.0	86.2	92.0	0.0	83.3
Irrigation (%)	100.0	100.0	0.0	50.0	83.3	0.0	33.3

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.25	2.00	14.25	8.63	0.38	0.00	0.00	26.50

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	25%	50%	0%
Satisfaction	0%	100%	0%		0%	75%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1			
No.	210	Douar	Anfli		
C.R.	22	Settifadma	Cercle	2	Tahanaout

Location

Latitude	N31	12	14	Longitude	W7	44	30	Altitude	1,750	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	63	75
Population	378	457

Working Member per household

Agriculture	1.50	household
Non-agri.	0.25	household
Total	1.75	household

Access (km)

Pist	0.0	(km)
Path	8.0	(km)
Total	8.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	118	100%	0%	100%	0%

Annual Budget per Household

Agri.	5,706	33.3%
Livestock	8,728	50.9%
Forestry	0	0.0%
Others	2,700	15.8%
Total	17,133	100.0%
Expend.	12,091	
Saving	5,042	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	90.0%	82.6%	100.0%			
Koranic	10.0%	17.4%	0.0%			
Fundamental	2.5%	4.3%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
0.47	0.13	0.06	0.00	0.09	0.34	0.00	0.10
Sold Ratio (%)	0.0	0.0	0.0	86.2	73.7	0.0	80.8
Irrigation (%)	75.0	100.0	0.0	100.0	100.0	0.0	57.1

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.38	1.50	27.00	25.75	0.75	0.00	0.00	56.38

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	25%	88%	0%	0%	100%	13%	0%
Satisfaction	100%	100%	0%		63%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1				
No.	220	Douar	Timichi			
C.R.	22	Settifadma	Cercle	2	Tahanaout	

Location

Latitude	N31	11'	56"	Longitude	W7	46'	22"	Altitude	2,000 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	60	71
Population	370	448

Working Member per household

Agriculture	1.71	household
Non-agri.	0.86	household
Total	2.57	household

Access (km)

Pist	0.0	(km)
Path	11.0	(km)
Total	11.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	129	100%	0%	71%	29%

Annual Budget per Household

Agri.	6,286	31.2%
Livestock	6,023	29.9%
Forestry	0	0.0%
Others	7,857	39.0%
Total	20,166	100.0%
Expend.	10,200	
Saving	9,966	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	84.0%	75.0%	95.5%			
Koranic	16.0%	25.0%	4.5%			
Fundamental	14.0%	21.4%	4.5%	41.7%	55.6%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
0.73	0.32	0.21	0.11	0.09	0.29	0.11	0.05
Sold Ratio (%)	0.0	0.0	0.0	81.3	94.0	100.0	100.0
Irrigation (%)	71.4	100.0	100.0	100.0	100.0	100.0	100.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.57	10.29	4.00	12.14	0.71	0.00	0.00	28.71

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	29%	100%	0%	0%	57%	57%	0%
Satisfaction	100%	100%	0%		75%	75%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	230	Deour
C.R.	23	Oukaimeden
		Cercle
		2
		Tahanaout

Location

Latitude	N31	11'	48	Longitude	W7	48	5	Altitude	2,300	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	105	125
Population	630	762

Working Member per household

Agriculture	1.67	household
Non-agri.	0.67	household
Total	2.33	household

Access (km)

Pist	0.0	(km)
Path	14.0	(km)
Total	14.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	288	92%	8%	100%	0%

Annual Budget per Household

Agri.	2,150	20.9%
Livestock	7,430	72.2%
Forestry	0	0.0%
Others	708	6.9%
Total	10,288	100.0%
Expend.	7,329	
Saving	2,959	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.6%	60.5%	100.0%			
Koranic	22.4%	39.5%	0.0%			
Fundamental	4.5%	7.9%	0.0%	7.1%	14.3%	0.0%

Land holding and Cultivated land (ha-household)

Total Land (ha)	Cultivated Crops (ha-household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm.	Apples,	
0.40	0.22	0.16	0.06	0.08	0.12	0.00	0.01	0.65
Sold Ratio (%)	0.0	0.0	0.0	76.7	95.5	0.0	75.0	
Irrigation (%)	74.5	76.4	100.0	100.0	100.0	100.0	50.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.58	8.50	8.33	11.33	0.83	0.00	0.00	30.58

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	8%	92%	8%	0%	17%	75%	0%
Satisfaction	0%	100%	100%		100%	67%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion ::

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	240	Douar
C.R.	24	Tamezlelt
		Cercle
		2
		Tahanaout

Location

Latitude	N31	29	8	Longitude	W8	0	42	Altitude	630	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	70	83
Population	500	605

Working Member per household

Agriculture	2.75	household
Non agri.	0.75	household
Total	3.50	household

Access (km)

Pist	4.5	(km)
Path	0.0	(km)
Total	4.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	338	100%	0%	100%	0%

Annual Budget per Household

Agri.	8,616	39.3%
Livestock	6,908	31.5%
Forestry	0	0.0%
Others	6,375	29.1%
Total	21,898	100.0%
Expend.	11,061	
Saving	10,837	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	63.3%	46.7%	89.5%			
Keranic	36.7%	53.3%	10.5%			
Fundamental	30.6%	43.3%	10.5%	57.1%	40.0%	100.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples,	
7.06	6.88	0.00	0.00	0.00	0.00	0.00	0.00	6.88
Sold Ratio (%)	26.1	0.0	0.0	0.0	0.0	0.0	0.0	
Irrigation (%)	12.5	100.0	0.0	0.0	100.0	0.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.13	14.25	1.63	0.88	2.25	0.00	0.00	21.13

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	38%	13%	63%	0%	0%	13%	0%
Satisfaction	0%	100%	60%		0%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	251	Douar
C.R.	24	Tamesloht
		Cercle
		2
		Tahanaout

Location

Latitude	N31	23'	41"	Longitude	W8	5'	9"	Altitude	700 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	100	119
Population	600	726

Working Member per household

Agriculture	2.00	household
Non-agri.	1.45	household
Total	3.45	household

Access (km)

Pist	2.5	(km)
Path	0.0	(km)
Total	2.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	215	100%	0%	100%	0%

Annual Budget per Household

Agri.	6,822	39.0%
Livestock	3,582	20.5%
Forestry	0	0.0%
Others	7,091	40.5%
Total	17,495	100.0%
Expend.	11,235	
Saving	6,260	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	67.9%	62.1%	74.1%			
Koranic	32.1%	37.9%	25.9%			
Fundamental	21.4%	17.2%	25.9%	62.5%	66.7%	60.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olives, Alm	Apples,	
4.98	4.34	0.00	0.00	0.00	0.00	0.16	0.00	4.51
Sold Ratio (%)	21.5	0.0	0.0	0.0	0.0	68.2	0.0	
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	40.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
0.45	7.82	2.73	3.09	0.73	0.09	0.00	14.91

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	91%	18%	0%	0%	91%	0%
Satisfaction	0%	100%	100%		0%	90%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	#DIV/0!
no	#DIV/0!

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	252	Douar
C.R.	24	Tamesloht
		Cercle
		2
		Tahanaout

Location

Latitude	N31	25'	16	Longitude	W8	4'	33	Altitude	700	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	150	178
Population	800	968

Working Member per household

Agriculture	1.53	household
Non-agri.	1.06	household
Total	2.59	household

Access (km)

Pist	0.5	(km)
Path	0.0	(km)
Total	0.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	226	94%	6%	88%	12%

Annual Budget per Household

Agri.	5,009	19.9%
Livestock	5,900	23.4%
Forestry	0	0.0%
Others	14,275	56.7%
Total	25,184	100.0%
Expend.	16,191	
Saving	8,992	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	48.0%	24.6%	79.1%			
Koranic	52.0%	75.4%	20.9%			
Fundamental	42.0%	59.6%	18.6%	72.2%	83.3%	50.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
7.15	7.47	0.00	0.00	0.00	0.01	0.60	0.00	8.08
Sold Ratio (%)	11.0	0.0	0.0	0.0	88.0	58.9	0.0	
Irrigation (%)	3.0	0.0	0.0	0.0	100.0	30.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.00	12.65	2.65	31.65	0.71	0.12	0.00	48.76

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	71%	71%	0%	0%	41%	6%
Satisfaction	0%	67%	83%		0%	71%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	0%
no	100%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	#DIV/0!
no	#DIV/0!

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	261	Douar
C.R.	24	Tamesloht
		Cercle
		2
		Tahanaout

Location

Latitude	N31	32	44	Longitude	W8	6	28	Altitude	500	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	66	78
Population	400	484

Working Member per household

Agriculture	1.13	/household
Non-agri.	1.63	/household
Total	2.75	/household

Access (km)

Pist	1.0	(km)
Path	0.0	(km)
Total	1.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	338	100%	0%	100%	0%

Annual Budget per Household

Agri	2,132	8.3%
Livestock	4,353	17.0%
Forestry	0	0.0%
Others	19,062	74.6%
Total	25,547	100.0%
Expend	15,993	
Saving	9,554	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	47.2%	37.9%	58.3%			
Koranic	52.8%	62.1%	41.7%			
Fundamental	45.3%	51.7%	37.5%	66.7%	80.0%	50.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
2.24	1.72	0.00	0.00	0.09	0.00	0.26	0.00
Sold Ratio (%)	0.0	0.0	0.0	86.2	0.0	56.1	0.0
Irrigation (%)	0.0	0.0	0.0	100.0	0.0	100.0	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.75	1.38	0.75	3.13	1.13	0.00	0.00	8.13

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	25%	38%	75%	0%	25%	25%	38%
Satisfaction	0%	100%	100%		50%	100%	100%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	#DIV.0!
no	#DIV.0!

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	262	Douar
C.R.	24	Tamesloht
		Cercle
		2
		Tahanaout

Location

Latitude	N31	32	44	Longitude	W8	6	28	Altitude	500 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	66	78
Population	400	484

Working Member per household

Agriculture	1.13	household
Non-agri.	1.63	household
Total	2.75	household

Access (km)

Pist	1.0	(km)
Path	0.0	(km)
Total	1.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	338	100%	0%	100%	0%

Annual Budget per Household

Agri.	2,132	8.3%
Livestock	4,353	17.0%
Forestry	0	0.0%
Others	19,062	74.6%
Total	25,547	100.0%
Expend.	15,993	
Saving	9,554	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	47.2%	37.9%	58.3%			
Koranic	52.8%	62.1%	41.7%			
Fundamental	45.3%	51.7%	37.5%	66.7%	80.0%	50.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples	
2.24	1.72	0.00	0.00	0.09	0.00	0.26	0.00	2.07
Sold Ratio (%)	0.0	0.0	0.0	86.2	0.0	56.1	0.0	
Irrigation (%)	0.0	0.0	0.0	100.0	0.0	100.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.75	1.38	0.75	3.13	1.13	0.00	0.00	8.13

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	25%	38%	75%	0%	25%	25%	38%
Satisfaction	0%	100%	100%		50%	100%	100%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	#DIV/0!
no	#DIV/0!

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1			
No.	270	Douar	Del El Ain		
C.R.	24	Tamesloht	Cercle	2	Tahanaout

Location

Latitude	N31	28	53	Longitude	W8	4	30	Altitude	580	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	110	131
Population	600	726

Working Member per household

Agriculture	3.00	household
Non-agri.	0.83	household
Total	3.83	household

Access (km)

Pist	0.5	(km)
Path	0.0	(km)
Total	0.5	(km)

House Conditions

House size:household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	325	92%	8%	83%	17%

Annual Budget per Household

Agri.	21,627	63.3%
Livestock	5,523	16.2%
Forestry	0	0.0%
Others	7,033	20.6%
Total	34,184	100.0%
Expend	12,950	
Saving	21,234	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	42.5%	34.0%	54.5%			
Koranic	57.5%	66.0%	45.5%			
Fundamental	42.5%	46.8%	36.4%	66.7%	50.0%	80.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm.	Apples	
6.79	5.63	0.00	0.67	1.00	0.33	2.50	0.00	10.13
Sold Ratio (%)	15.9	0.0	0.0	71.1	88.0	80.0	0.0	
Irrigation (%)	30.0	0.0	100.0	100.0	100.0	100.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
0.83	17.08	0.00	7.08	0.75	0.00	0.00	25.75

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	58%	58%	0%	25%	17%	50%
Satisfaction	0%	86%	100%		67%	50%	83%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	300	Douar
C.R.	25	Tahanaout
		Bel Abbas
		Cercle
		2
		Tahanaout

Location

Latitude	N31	27	21	Longitude	W7	55	9	Altitude	660	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	140	166
Population	900	1,089

Working Member per household

Agriculture	3.88	household
Non-agri.	1.13	household
Total	5.00	household

Access (km)

Pist	5.5	(km)
Path	0.0	(km)
Total	5.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	272	100%	0%	75%	25%

Annual Budget per Household

Agri.	9,952	34.9%
Livestock	13,367	46.9%
Forestry	0	0.0%
Others	5,175	18.2%
Total	28,494	100.0%
Expend.	11,328	
Saving	17,166	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	55.7%	36.5%	80.7%			
Keranic	44.3%	63.5%	19.3%			
Fundamental	40.5%	58.1%	17.5%	73.1%	87.5%	50.0%

Land holding and Cultivated land (ha. household)

Total Land (ha)	Cultivated Crops (ha. household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
2.86	2.78	0.06	0.00	0.25	0.34	0.28	0.00
Sold Ratio (%)	8.5	0.0	0.0	96.7	98.0	80.1	0.0
Irrigation (%)	11.1	0.0	0.0	66.7	40.0	37.6	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
3.00	17.38	3.13	10.63	1.50	0.06	0.00	35.69

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	0%	100%	0%	88%	0%	63%
Satisfaction	0%	0%	100%		36%	0%	90%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	#DIV.0!
no	#DIV.0!

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	320	Douar
C.R.	25	Tahanaout
		Cercle
		2
		Tahanaout

Location

Latitude	N31	21'	48"	Longitude	W7	57'	41"	Altitude	900 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	60	71
Population	369	446

Working Member per household

Agriculture	3.14	household
Non-agri.	1.71	household
Total	4.86	household

Access (km)

Pist	0.0	(km)
Path	0.0	(km)
Total	0.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	237	100%	0%	100%	0%

Annual Budget per Household

Agri.	2,712	12.8%
Livestock	7,282	34.3%
Forestry	0	0.0%
Others	11,214	52.9%
Total	21,208	100.0%
Expend.	12,000	
Saving	9,208	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	45.6%	34.3%	63.6%			
Koranic	54.4%	65.7%	36.4%			
Fundamental	45.6%	51.4%	36.4%	87.5%	75.0%	100.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
2.71	2.43	0.07	0.00	0.07	0.00	0.37	0.00	2.94
Sold Ratio (%)	13.2	0.0	0.0	100.0	0.0	75.0	0.0	
Irrigation (%)	0.0	100.0	0.0	100.0	0.0	33.5	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.29	16.43	2.29	10.29	1.43	0.14	0.00	31.86

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	29%	0%	100%	0%	86%	14%	43%
Satisfaction	0%	0%	86%		50%	100%	67%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/7		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	330	Deuar
C.R.	25	Tahanaout
		Cercle
		2
		Tahanaout

Location									
Latitude	N31	21'	2	Longitude	W7	53	21	Altitude	940(m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	110	131	Agriculture	1.92	household	Pist	1.5	(km)
Population	677	819	Non-agri	1.46	household	Path	0.0	(km)
			Total	3.38	household	Total	1.5	(km)

House Conditions						Annual Budget per Household		
House size/household		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Plural	Agri.	25,331	41.9%
6	347	100%	0%	92%	8%	Livestock	6,781	11.2%
						Forestry	0	0.0%
						Others	28,338	46.9%
						Total	60,450	100.0%
Education Ratio						Expend.	17,455	
Education Level	Villagers over 7 years old			Children (7-12 years old)			Saving	42,995
	Total	Male	Female	Total	Male	Female		
None	55.6%	40.4%	76.3%					
Koranic	44.4%	59.6%	23.7%					
Fundamental	24.4%	26.9%	21.1%	64.3%	66.7%	60.0%		

Land holding and Cultivated land (ha household)								
Total	Cultivated Crops (ha household)							
Land (ha)	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
7.62	7.93	0.00	0.00	0.00	0.00	1.28	0.62	9.83
Sold Ratio (%)	17.3	0.0	0.0	0.0	0.0	91.0	99.0	
Irigation (%)	1.2	0.0	0.0	0.0	0.0	50.0	100.0	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.62	12.08	1.31	19.00	1.46	0.00	0.00	35.46

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	8%	100%	0%	0%	8%	23%
Satisfaction	0%	100%	92%		0%	100%	100%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	340	Douar
C.R.	25	Tahanaout
		Cercle
		2
		Tahanaout

Location

Latitude	N31	20	31	Longitude	W7	54	7	Altitude	970	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	80	95
Population	490	593

Working Member per household

Agriculture	1.67	household
Non-agri.	1.33	household
Total	3.00	household

Access (km)

Pist	0.0	(km)
Path	0.0	(km)
Total	0.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	456	89%	11%	78%	22%

Annual Budget per Household

Agri.	14,304	30.6%
Livestock	9,789	20.9%
Forestry	0	0.0%
Others	22,711	48.5%
Total	46,804	100.0%
Expend.	20,184	
Saving	26,619	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	66.1%	50.0%	80.6%			
Koranic	33.9%	50.0%	19.4%			
Fundamental	28.8%	39.3%	19.4%	72.7%	66.7%	75.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
8.19	7.33	0.00	0.00	0.10	0.31	1.35	0.00
Sold Ratio (%)	26.5	0.0	0.0	88.6	94.0	69.4	0.0
Irrigation (%)	1.9	0.0	0.0	50.0	50.0	39.7	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
4.11	15.67	1.89	17.56	1.67	0.33	0.00	41.22

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	78%	44%	0%	11%	56%	44%
Satisfaction	0%	100%	100%		0%	40%	75%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	350	Douar
C.R.	31	Anougal
		Cercle
		3
		Amizmiz

Location

Latitude	N31	7	52	Longitude	W8	16	8	Altitude	1,480 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	70	83
Population	460	557

Working Member per household

Agriculture	2.25	household
Non-agri.	1.17	household
Total	3.42	household

Access (km)

Pist	12.5	(km)
Path	0.0	(km)
Total	12.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	224	100%	0%	92%	8%

Annual Budget per Household

Agri.	12,807	49.0%
Livestock	6,494	24.8%
Forestry	0	0.0%
Others	6,833	26.2%
Total	26,136	100.0%
Expend	13,259	
Saving	12,877	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	80.0%	68.4%	91.9%			
Koranic	20.0%	31.6%	8.1%			
Fundamental	13.3%	21.1%	5.4%	40.0%	66.7%	18.2%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples
1.91	1.03	0.33	0.00	0.03	0.44	0.01	0.32
Sold Ratio (%)	0.0	0.0	0.0	63.1	95.3	100.0	98.9
Irrigation (%)	63.3	85.7	0.0	50.0	90.9	50.0	48.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.50	2.67	0.33	14.25	1.00	0.00	0.00	19.75

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	8%	100%	0%
Satisfaction	0%	100%	0%		100%	100%	0%
Quality	good				good		
Shortage	no				no		
Frequency (yr)	1/0				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1			
No.	360	Douar	Addouz		
C.R.	31	Ancougal		Cercle	3
		Amizmiz			

Location					
Latitude	N31	7	42	Longitude	W8
					16
					3
				Altitude	1,460 (m)

Households and Population

	Yr 1996	Yr 2010
Households	50	59
Population	300	363

Working Member per household

Agriculture	1.25	household
Non-agri	0.88	household
Total	2.13	household

Access (km)

Pist	12.5	(km)
Path	0.5	(km)
Total	13.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	200	100%	0%	88%	13%

Annual Budget per Household

Agri.	10,415	53.0%
Livestock	5,408	27.5%
Forestry	0	0.0%
Others	3,838	19.5%
Total	19,660	100.0%
Expend.	10,474	
Saving	9,186	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	70.7%	64.7%	75.0%			
Koranic	29.3%	35.3%	25.0%			
Fundamental	14.6%	11.8%	16.7%	60.0%	66.7%	57.1%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
2.53	1.53	0.50	0.00	0.09	0.47	0.34	0.17	3.11
Sold Ratio (%)	0.0	0.0	0.0	80.8	94.1	96.0	99.3	
Irrigation (%)	68.8	75.0	0.0	100.0	87.5	40.0	50.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.00	0.88	0.50	9.13	0.75	0.00	0.00	13.25

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	38%	63%	13%	0%	50%	75%	0%
Satisfaction	67%	100%	100%		50%	67%	0%
Quality	poor				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1				
No.	370	Douar	Ain Ghad			
C R.	31	Anougal	Cercle	3	Amizmiz	

Location

Latitude	N31	8'	18	Longitude	W8	15'	59	Altitude	1,450 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	43	51
Population	206	249

Working Member per household

Agriculture	2.33	household
Non-agri.	0.00	household
Total	2.33	household

Access (km)

Pist	11.5	(km)
Path	0.0	(km)
Total	11.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	168	100%	0%	67%	33%

Annual Budget per Household

Agri.	29,238	69.7%
Livestock	12,717	30.3%
Forestry	0	0.0%
Others	0	0.0%
Total	41,955	100.0%
Expend.	17,343	
Saving	24,612	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	58.8%	38.9%	81.2%			
Keranic	41.2%	61.1%	18.8%			
Fundamental	35.3%	50.0%	18.8%	87.5%	100.0%	66.7%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
2.08	1.03	0.73	0.00	0.00	0.67	0.26	1.01
Sold Ratio (%)	0.0	0.0	0.0	0.0	91.7	96.6	90.9
Irrigation (%)	91.7	100.0	0.0	0.0	100.0	100.0	66.7

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Herse	Others	Total
2.83	3.17	0.00	7.17	0.83	0.00	0.00	14.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	83%	17%	0%	0%	100%	0%
Satisfaction	0%	100%	100%		0%	67%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	380	Douar
C.R.	31	Anougal
		Cercle
		3
		Amizmiz

Location

Latitude	N31	8'	2	Longitude	W8	15'	42	Altitude	1,420	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	70	83
Population	420	508

Working Member per household

Agriculture	2.89	household
Non-agri.	1.22	household
Total	4.11	household

Access (km)

Pist	10.0	(km)
Path	0.0	(km)
Total	10.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	177	89%	11%	78%	22%

Annual Budget per Household

Agri.	36,066	67.6%
Livestock	11,656	21.9%
Forestry	0	0.0%
Others	5,600	10.5%
Total	53,322	100.0%
Expend.	20,735	
Saving	32,587	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	70.5%	46.4%	90.9%			
Koranis	29.5%	53.6%	9.1%			
Fundamental	9.8%	14.3%	6.1%	25.0%	50.0%	20.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
2.81	2.25	0.44	0.00	0.02	1.21	0.26	1.03	5.20
Sold Ratio (%)	8.3	8.3	0.0	81.7	92.3	79.4	96.5	
Irrigation (%)	67.9	100.0	0.0	100.0	100.0	100.0	83.3	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
3.11	6.56	13.00	13.44	0.89	0.00	0.00	37.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	44%	67%	33%	0%	100%	67%	0%
Satisfaction	100%	100%	100%		100%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	yes
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	390	Deuar
C.R.	31	Anougal
		Cercle
		3
		Amizmiz

Location

Latitude	N31	9'	0"	Longitude	W8	15'	51"	Altitude	1,350 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	86	102
Population	450	544

Working Member per household

Agriculture	2.58	household
Non-agri.	0.58	household
Total	3.17	household

Access (km)

Pist	14.0	(km)
Path	0.0	(km)
Total	14.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	143	92%	8%	92%	8%

Annual Budget per Household

Agri.	9,693	43.2%
Livestock	5,896	28.0%
Forestry	0	0.0%
Others	6,042	28.7%
Total	21,030	100.0%
Expend.	10,784	
Saving	10,246	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	79.7%	60.6%	97.2%			
Koranic	20.3%	39.4%	2.8%			
Fundamental	7.2%	12.1%	2.8%	11.1%	12.5%	10.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples
2.44	1.61	0.29	0.00	0.08	0.63	0.00	0.08
Sold Ratio (%)	0.0	14.3	0.0	100.0	98.2	0.0	95.1
Irrigation (%)	45.5	100.0	0.0	100.0	100.0	0.0	57.1

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.33	5.17	13.25	15.00	0.75	0.00	0.00	35.50

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	58%	42%	0%	0%	75%	25%
Satisfaction	0%	100%	60%		0%	100%	67%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	400	Deuar
C.R.	31	Arourgal
		Cercle
		3
		Amizanz

Location									
Latitude	N31	8'	41	Longitude	W8	15'	28	Altitude	1,320 (m)

Households and Population

	Yr 1996	Yr 2010
Households	35	42
Population	220	266

Working Member per household

Agriculture	3.25	household
Non-agri.	0.75	household
Total	4.00	household

Access (km)

Fist	8.5	(km)
Path	0.0	(km)
Total	8.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	167	100%	0%	75%	25%

Annual Budget per Household

Agri.	17,348	53.0%
Livestock	12,663	38.7%
Forestry	0	0.0%
Others	2,750	8.4%
Total	32,760	100.0%
Expend	12,000	
Saving	20,760	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	83.9%	70.6%	100.0%			
Koranic	16.1%	29.4%	0.0%			
Fundamental	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
1.53	1.38	0.09	0.00	0.19	0.50	0.15	0.45	2.76
Sold Ratio (%)	0.0	0.0	0.0	93.1	100.0	97.8	98.9	
Irrigation (%)	100.0	100.0	0.0	0.0	100.0	0.0	25.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.25	3.25	25.50	10.00	1.25	0.00	0.00	42.25

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	100%	25%	0%	0%	50%	75%	0%
Satisfaction	100%	100%	0%		100%	100%	0%
Quality		poor				good	
Shortage		yes				yes	
Frequency (yr)		1/1				1/1	

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	yes
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	410	Douar
C.R.	31	Ancugal
		Cercle
		3
		Anizimiz

Location							
Latitude	N31	9'	32	Longitude	W8	15'	15
							Altitude
							1,350 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	4.00	household	Pist	7.0	(km)
Households	13	15	Non-agri.	0.33	household	Path	0.6	(km)
Population	100	121	Total	4.33	household	Total	7.0	(km)

House Conditions						Annual Budget per Household		
House size-household		Structure of House		Number of houses		Agri.	39,213	61.5%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	19,593	30.7%
5	193	100%	0%	33%	67%	Forestry	0	0.0%
						Others	5,000	7.8%
						Total	63,808	100.0%

Education Ratio							Expend.	20,932
Education Level	Villagers over 7 years old			Children (7-12 years old)			Saving	42,876
	Total	Male	Female	Total	Male	Female		
None	60.0%	33.3%	81.8%					
Koranie	40.0%	66.7%	18.2%					
Fundamental	25.0%	33.3%	18.2%	71.4%	100.0%	50.6%		

Land holding and Cultivated land (ha household)								
Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
7.33	3.17	0.53	0.00	0.33	1.17	0.42	1.01	6.62
Sold Ratio (%)	0.0	0.0	0.0	100.0	100.0	100.0	98.5	
Irrigation (%)	55.6	100.0	0.0	100.0	100.0	33.3	33.3	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
4.67	0.00	40.00	36.67	1.00	0.00	0.00	82.33

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	67%	67%	33%	0%	33%	100%	0%
Satisfaction	0%	100%	100%		100%	100%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =	yes	100%
	no	0%

Opinion of Leader on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition	
Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood		
Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	420	Douar
C.R.	31	Aneugal
		Cercle
		3
		Amizmiz

Location

Latitude	N31	9'	57"	Longitude	W8	15'	28"	Altitude	1,200	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	40	48
Population	250	302

Working Member per household

Agriculture	4.20	household
Non-agri.	0.40	household
Total	4.60	household

Access (km)

Pist	4.5	(km)
Path	2.5	(km)
Total	7.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	145	100%	0%	100%	0%

Annual Budget per Household

Agri.	25,308	65.7%
Livestock	10,512	27.3%
Forestry	0	0.0%
Others	2,700	7.0%
Total	38,520	100.0%
Expend	15,960	
Saving	22,560	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.8%	66.7%	100.0%			
Koranic	22.2%	33.3%	0.0%			
Fundamental	2.8%	4.2%	0.0%	12.5%	20.0%	0.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Aln.	Apples,	Total
4.20	2.70	0.68	0.00	0.40	1.00	0.40	0.41	5.59
Sold Ratio (%)	5.3	0.0	0.0	100.0	100.0	81.1	99.4	
Irrigation (%)	53.3	100.0	0.0	100.0	100.0	50.0	40.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.00	0.00	38.00	0.20	0.80	0.00	0.00	41.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	80%	60%	0%	0%	100%	60%	0%
Satisfaction	75%	100%	0%		100%	67%	0%
Quality	poor				poor		
Shortage	yes				yes		
Frequency (yr)	1/1				1/4		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	430	Deuar
C.R.	31	Anougal
		Cercle
		3
		Amizmiz

Location

Latitude	N31	11'	14"	Longitude	W8	14'	56"	Altitude	1,100	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	40	48
Population	250	302

Working Member per household

Agriculture	1.80	household
Non-agri.	1.40	household
Total	3.20	household

Access (km)

Pist	3.0	(km)
Path	0.0	(km)
Total	3.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	110	80%	20%	100%	0%

Annual Budget per Household

Agri.	2,273	10.9%
Livestock	7,160	34.5%
Forestry	1,200	5.8%
Others	10,140	48.8%
Total	20,773	100.0%
Expend.	9,660	
Saving	11,113	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	96.6%	92.9%	100.0%			
Koranic	3.4%	7.1%	0.0%			
Fundamental	3.4%	7.1%	0.0%	25.0%	100.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alnu	Apples, Total
4.61	4.20	0.00	0.00	0.12	0.15	0.05	0.00
Sold Ratio (%)	0.0	0.0	0.0	88.6	92.0	68.2	0.0
Irrigation (%)	25.0	100.0	0.0	100.0	100.0	100.0	100.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.40	2.00	30.00	10.00	0.80	0.00	0.00	44.20

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	60%	60%	0%	40%	0%	0%
Satisfaction	0%	100%	67%		0%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/4		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	440	Douar
C R.	31	Anougal
		Cercle
		3
		Amizmiz

Location

Latitude	N31	10'	25	Longitude	W8	14'	45	Altitude	1,400 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	50	59
Population	300	363

Working Member per household

Agriculture	1.50	household
Non-agri.	1.83	household
Total	3.33	household

Access (km)

Pist	5.5	(km)
Path	0.0	(km)
Total	5.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	108	100%	0%	100%	0%

Annual Budget per Household

Agri.	3,146	15.8%
Livestock	7,789	39.1%
Forestry	0	0.0%
Others	9,000	45.1%
Total	19,934	100.0%
Expend	8,800	
Saving	11,134	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	86.8%	77.3%	100.0%			
Koranic	13.2%	22.7%	0.0%			
Fundamental	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
2.50	2.25	0.00	0.00	0.00	0.25	0.02	0.00	2.52
Sold Ratio (%)	0.0	0.0	0.0	0.0	83.0	68.2	0.0	
Irrigation (%)	8.0	0.0	0.0	0.0	100.0	100.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.67	7.50	0.00	2.50	1.00	0.00	0.00	12.67

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	0%	100%	0%
Satisfaction	0%	100%	0%		0%	50%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions inferred by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	450	Douar
C.R.	31	Anougal
		Cercle
		3
		Amizmiz

Location

Latitude	N31	10'	47	Longitude	W8	15'	11	Altitude	1,180	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	60	71
Population	250	302

Working Member per household

Agriculture	2.14	household
Non-agri.	0.86	household
Total	3.00	household

Access (km)

Pist	4.5	(km)
Path	0.0	(km)
Total	4.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	143	100%	0%	100%	0%

Annual Budget per Household

Agri.	7,151	35.6%
Livestock	6,789	33.8%
Forestry	0	0.0%
Others	6,143	30.6%
Total	20,082	100.0%
Expend.	11,883	
Saving	8,199	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	86.0%	83.3%	89.5%			
Koranic	14.0%	16.7%	10.5%			
Fundamental	14.0%	16.7%	10.5%	71.4%	66.7%	100.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
2.32	1.07	0.32	0.00	0.47	0.31	0.06	0.06	2.29
Sold Ratio (%)	0.0	0.0	0.0	67.9	72.1	92.1	88.9	
Irrigation (%)	16.7	100.0	0.0	75.0	83.3	66.7	66.7	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.00	4.00	4.29	12.43	0.57	0.00	0.00	23.29

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	100%	0%	0%	0%	100%	0%	0%
Satisfaction	86%	0%	0%		86%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	460	Douar
C.R.	31	Ansougal Cercle 3 Amizmiz

Location

Latitude	N31° 4' 31"	Longitude	W8° 16' 50"	Altitude	1,800 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	160	190
Population	700	847

Working Member per household

Agriculture	3.00	household
Non-agri.	0.79	household
Total	3.79	household

Access (km)

Pist	20.0	(km)
Path	0.5	(km)
Total	20.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
10	165	89%	11%	95%	5%

Annual Budget per Household

Agri.	22,444	58.1%
Livestock	10,717	27.7%
Forestry	0	0.0%
Others	5,489	14.2%
Total	38,651	100.0%
Expend.	16,955	
Saving	21,696	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	73.0%	62.6%	88.5%			
Koranic	27.0%	37.4%	11.5%			
Fundamental	13.2%	15.4%	9.8%	37.2%	38.5%	35.3%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
2.49	1.42	0.50	0.00	0.06	0.74	0.01	0.65	3.33
Sold Ratio (%)	0.0	0.0	0.0	91.5	95.1	93.3	99.9	
Irrigation (%)	81.8	100.0	0.0	100.0	100.0	100.0	60.5	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.84	19.11	15.79	10.53	1.00	0.00	0.00	48.26

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	32%	84%	0%	0%	74%	63%	5%
Satisfaction	100%	94%	0%		86%	83%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions Inferred by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	470	Douar
C.R.	32	Azgour
		Cercle
		3
		Amizmiz

Location

Latitude	N31	6	34	Longitude	W8	22	17	Altitude	1,840 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	160	190
Population	985	1,192

Working Member per household

Agriculture	2.60	household
Non-agri.	1.10	household
Total	3.70	household

Access (km)

Pist	0.0	(km)
Path	0.0	(km)
Total	0.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	225	100%	0%	75%	25%

Annual Budget per Household

Agri.	60,880	68.7%
Livestock	8,785	9.9%
Forestry	0	0.0%
Others	18,897	21.3%
Total	88,562	100.0%
Expend.	17,210	
Saving	71,352	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	70.4%	47.4%	97.0%			
Koranic	29.6%	52.6%	3.0%			
Fundamental	17.6%	32.9%	0.0%	25.8%	53.3%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples, Total
6.91	4.69	1.06	0.00	0.03	0.95	0.16	2.12
Sold Ratio (%)	7.5	0.0	0.0	100.0	94.3	98.7	100.0
Irrigation (%)	25.4	84.6	0.0	100.0	93.3	12.5	37.5

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.90	15.65	3.25	3.75	1.25	0.00	0.00	25.80

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	100%	25%	0%
Satisfaction	0%	100%	0%		55%	100%	0%
Quality		good				good	
Shortage		yes				yes	
Frequency (yr)		1/1				1/1	

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	100%
no	0%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	severe

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	480	Douar
C.R.	32	Azgeur
Tnait		3
Amizmiz		

Location

Latitude	N31	6'	31	Longitude	W8	19	13	Altitude	1,750	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	230	273
Population	1,416	1,713

Working Member per household

Agriculture	1.96	household
Non-agri.	1.04	household
Total	3.00	household

Access (km)

Pist	0.0	(km)
Path	4.0	(km)
Total	4.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	207	89%	11%	78%	22%

Annual Budget per Household

Agri.	27,274	63.4%
Livestock	9,697	22.5%
Forestry	267	0.6%
Others	5,802	13.5%
Total	43,039	100.0%
Expend.	16,582	
Saving	26,457	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	60.9%	33.3%	86.7%			
Koranic	39.1%	66.7%	13.3%			
Fundamental	33.5%	55.1%	13.3%	55.3%	87.5%	31.8%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
8.71	6.50	0.63	0.02	0.14	0.76	0.09	0.84	8.98
Sold Ratio (%)	0.0	5.8	0.0	59.8	76.4	96.6	96.0	
Irrigation (%)	43.2	80.8	100.0	80.0	93.3	28.6	17.5	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.19	10.85	29.07	8.67	0.96	0.04	0.00	50.78

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	30%	78%	4%	0%	37%	78%	0%
Satisfaction	75%	95%	100%		60%	81%	0%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	6%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	490	Deuar
C.R.	32	Arzour
		Cercle
		3
		Amizmiz

Location

Latitude	N31	7	15	Longitude	W8	19	5	Altitude	1,700 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	90	107
Population	540	653

Working Member per household

Agriculture	2.00	household
Non-agri.	0.91	household
Total	2.91	household

Access (km)

Flat	0.0	(km)
Path	2.5	(km)
Total	2.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	166	100%	0%	100%	0%

Annual Budget per Household

Agri.	36,848	72.1%
Livestock	10,323	20.2%
Forestry	636	1.2%
Others	3,327	6.5%
Total	51,135	100.0%
Expend.	15,436	
Saving	35,699	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	50.8%	23.5%	80.6%			
Koranic	49.2%	76.5%	19.4%			
Fundamental	41.5%	67.6%	12.9%	62.5%	100.0%	25.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
2.91	2.05	0.68	0.00	0.00	0.68	0.04	1.29	4.74
Sold Ratio (%)	0.0	0.0	0.0	0.0	92.7	93.3	99.3	
Irrigation (%)	50.0	82.6	0.0	0.0	89.0	0.0	27.3	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.36	7.45	23.27	8.64	1.09	0.00	0.00	41.82

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	36%	100%	0%
Satisfaction	0%	91%	0%		0%	91%	0%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions inferred by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	yes
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	severe

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	500	Douar	Ansmrou
C.R.	32	Azgour	Cercle
			3
			Anizmiz

Location

Latitude	N31	6'	45"	Longitude	W8	21'	46"	Altitude	1,780 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	160	190
Population	985	1,192

Working Member per household

Agriculture	2 63	household
Non-agri.	0 37	household
Total	3 00	household

Access (km)

Pist	0.0	(km)
Path	3.5	(km)
Total	3.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
9	177	100%	0%	84%	16%

Annual Budget per Household

Agri.	34,598	72.2%
Livestock	10,726	22.4%
Forestry	0	0.0%
Others	2,621	5.5%
Total	47,945	100.0%
Expend.	15,382	
Saving	32,563	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	70.9%	56.9%	85.5%			
Koranic	29.1%	43.1%	14.5%			
Fundamental	20.6%	27.8%	13.0%	73.5%	88.9%	56.3%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
5.75	4.39	0.43	0.00	0.00	0.83	0.45	1.14	7.25
Sold Ratio (%)	0.0	0.0	0.0	76.7	82.0	91.6	97.7	
Irrigation (%)	15.6	74.0	0.0	100.0	83.3	0.0	60.8	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.53	26.16	17.42	4.74	1.16	0.00	0.00	51.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	95%	42%	0%
Satisfaction	0%	100%	0%		56%	75%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	yes
Degree	fair

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	510	Douar
C.R.	32	Argour
Cercle		3
Amizmiz		

Location

Latitude	N31	6'	0	Longitude	W8	20'	59	Altitude	1,760	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	70	83
Population	210	254

Working Member per household

Agriculture	2.20	household
Non-agri.	0.70	household
Total	2.90	household

Access (km)

Pist	0.0	(km)
Path	0.0	(km)
Total	0.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	136	90%	10%	90%	10%

Annual Budget per Household

Agri.	51,219	63.7%
Livestock	26,299	32.7%
Forestry	0	0.0%
Others	2,850	3.5%
Total	80,368	100.0%
Expend.	24,860	
Saving	55,508	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	52.5%	17.9%	81.8%			
Koranic	47.5%	82.1%	18.2%			
Fundamental	32.8%	50.0%	18.2%	58.3%	100.0%	37.5%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Aln.	Apples,	
6.95	5.09	0.13	0.00	0.00	1.15	0.00	1.81	8.17
Sold Ratio (%)	0.0	0.0	0.0	0.0	90.0	93.3	89.4	
Irrigation (%)	32.1	50.0	0.0	0.0	75.0	100.0	20.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.90	41.00	6.50	25.40	1.30	0.00	0.00	76.10

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	50%	50%	10%	0%	100%	20%	10%
Satisfaction	0%	100%	0%		20%	50%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	520	Douar
C.R.	32	Azgour
		Cercle
		3
		Amizmiz

Location

Latitude	N31	9'	52"	Longitude	W8	19'	52"	Altitude	1,710	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	190	226
Population	1,400	1,694

Working Member per household

Agriculture	1.86	household
Non-agri.	0.68	household
Total	2.55	household

Access (km)

Pist	0.0	(km)
Path	0.0	(km)
Total	0.0	(km)

House Conditions

House size:household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	212	95%	5%	86%	14%

Annual Budget per Household

Agri.	8,127	34.2%
Livestock	11,360	47.8%
Forestry	0	0.0%
Others	4,255	17.9%
Total	23,742	100.0%
Expend.	10,970	
Saving	12,772	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	70.6%	40.4%	98.4%			
Koranic	29.4%	59.6%	1.6%			
Fundamental	24.4%	49.1%	1.6%	55.6%	69.2%	20.0%

Land holding and Cultivated land (ha:household)

Total Land (ha)	Cultivated Crops (ha:household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm.	Apples.	Total
6.28	6.48	0.00	0.00	0.00	0.41	0.02	0.12	7.03
Sold Ratio (%)	7.9	0.0	0.0	0.0	84.2	66.9	85.1	
Irrigation (%)	0.0	0.0	0.0	0.0	76.9	33.3	3.3	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.64	23.23	7.95	18.05	1.14	0.05	0.00	52.05

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	9%	50%	86%	0%	23%	64%	23%
Satisfaction	50%	100%	79%		20%	43%	40%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1				
No.	530	Douar	Adghouss			
C.R.	32	Azgour		Cercle	3	Amizim

Location

Latitude	N31	11	12	Longitude	W8	19	18	Altitude	1,770	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	50	59
Population	200	242

Working Member per household

Agriculture	1.50	household
Non-agri.	0.83	household
Total	2.33	household

Access (km)

Pist	2.0	(km)
Path	3.5	(km)
Total	5.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	127	67%	33%	100%	0%

Annual Budget per Household

Agri.	8,091	38.2%
Livestock	10,020	47.3%
Forestry	0	0.0%
Others	3,067	14.5%
Total	21,178	100.0%
Expend.	9,629	
Saving	11,549	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	92.0%	85.7%	100.0%			
Koranic	8.0%	14.3%	0.0%			
Fundamental	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
4.29	4.50	0.00	0.00	0.00	0.58	0.09	0.03
Sold Ratio (%)	3.3	0.0	0.0	0.0	92.7	100.0	95.0
Irrigation (%)	0.0	0.0	0.0	0.0	83.3	83.3	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.67	23.33	46.67	9.00	1.17	0.00	0.00	81.83

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	0%	100%	0%
Satisfaction	0%	100%	0%		0%	83%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	540	Douar
C.R.	32	Azgor
		Cercle
		3
		Amizmiz

Location									
Latitude	N31	9'	45	Longitude	W8	23'	12	Altitude	1,820 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	220	261	Agriculture	2.36	household	Path	2.5	(km)
Population	1,500	1,815	Non-agri.	1.04	household	Total	1.5	(km)
			Total	3.40	household		4.0	(km)

House Conditions						Annual Budget per Household		
House size/ha		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Plural	Agri.	6,742	28.8%
6	191	96%	4%	96%	4%	Livestock	10,267	43.8%
						Forestry	0	0.0%
						Others	6,440	27.5%
						Total	23,449	100.0%
						Expend.	12,902	
						Saving	10,546	

Education Ratio						
Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	85.3%	70.9%	100.0%			
Koranic	14.7%	29.1%	0.0%			
Fundamental	7.6%	15.1%	0.0%	32.3%	66.7%	0.0%

Land holding and Cultivated land (ha household)								
Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
7.98	6.19	0.08	0.00	0.05	0.25	0.40	0.04	7.02
Sold Ratio (%)	2.1	66.7	0.0	84.8	78.8	90.9	89.1	
Irrigation (%)	1.6	100.0	0.0	100.0	87.5	12.0	50.0	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.04	25.60	13.80	11.80	1.44	0.08	0.12	54.88

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	0%	96%	4%
Satisfaction	0%	100%	0%		0%	71%	0%
Quality	good				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Land-slide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	550	Deour
C.R.	32	Argour
		Cercle
		3
		Amizmit

Location

Latitude	N31	9'	23"	Longitude	W8	23'	40"	Altitude	1,450 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	150	178
Population	600	726

Working Member per household

Agriculture	1.72	household
Non-agri.	0.94	household
Total	2.67	household

Access (km)

Pist	2.5	(km)
Path	0.0	(km)
Total	2.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	187	94%	6%	94%	6%

Annual Budget per Household

Agri.	9,783	39.3%
Livestock	8,129	32.6%
Forestry	0	0.0%
Others	7,006	28.1%
Total	24,918	100.0%
Expend.	17,365	
Saving	7,552	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	80.0%	73.3%	86.7%			
Koranic	20.0%	26.7%	13.3%			
Fundamental	15.8%	20.0%	11.7%	66.7%	78.6%	53.8%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
7.26	6.19	0.25	0.07	0.06	0.21	0.62	0.12	7.52
Sold Ratio (%)	7.4	16.3	70.0	93.1	66.9	94.3	96.7	
Irrigation (%)	19.6	87.5	0.0	50.0	91.7	21.4	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.33	13.39	4.00	19.17	1.56	0.00	1.28	41.72

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	6%	100%	0%
Satisfaction	0%	100%	0%		100%	67%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	yes
Degree	fair

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	560	Douar
C.R.	32	Argour
		Tagadirt
		Cercle
		3
		Amizmiz

Location

Latitude	N31	11'	9"	Longitude	W8	23'	54"	Altitude	1,610	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	50	59
Population	140	169

Working Member per household

Agriculture	3.25	household
Non-agri.	2.00	household
Total	5.25	household

Access (km)

Pist	2.5	(km)
Path	4.5	(km)
Total	7.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	138	75%	25%	100%	0%

Annual Budget per Household

Agri.	3,429	26.4%
Livestock	8,120	62.5%
Forestry	0	0.0%
Others	1,450	11.2%
Total	12,999	100.0%
Expend	21,000	
Saving	-8,001	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.1%	60.0%	100.0%			
Koranic	22.9%	40.0%	0.0%			
Fundamental	14.3%	25.0%	0.0%	14.3%	25.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha/household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
2.38	3.15	0.00	0.04	0.00	0.00	0.75	0.00	3.94
Sold Ratio (%)	0.0	0.0	50.0	0.0	0.0	94.1	0.0	
Irrigation (%)	8.3	0.0	0.0	0.0	100.0	0.0	100.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.25	27.50	10.00	15.00	1.25	0.00	0.00	55.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	50%	0%	0%	75%	0%
Satisfaction	0%	75%	50%		0%	67%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/10		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Over-grazing	yes
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1				
No.	570	Douar	Tifirt			
C R	32	Azgour		Cercle	3	Amizmiz

Location

Latitude	N31	10	43	Longitude	W8	24	28	Altitude	1,580 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	90	107
Population	150	181

Working Member per household

Agriculture	2.91	household
Non-agri.	1.09	household
Total	4.00	household

Access (km)

Pist	2.5	(km)
Path	3.5	(km)
Total	6.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	175	100%	0%	73%	27%

Annual Budget per Household

Agri.	6,079	31.1%
Livestock	7,851	40.2%
Forestry	0	0.0%
Others	5,620	28.7%
Total	19,550	100.0%
Expend.	11,047	
Saving	8,503	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	84.2%	75.7%	92.3%			
Koranie	15.8%	24.3%	7.7%			
Fundamental	6.6%	5.4%	7.7%	30.8%	33.3%	28.6%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
3.52	3.30	0.00	0.02	0.00	0.00	1.16	0.01
Sold Ratio (%)	0.0	0.0	34.0	0.0	0.0	83.5	100.0
Irrigation (%)	4.4	0.0	0.0	0.0	0.0	9.4	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.00	12.00	28.18	15.18	0.82	0.09	0.73	58.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	73%	45%	0%	0%	73%	18%
Satisfaction	0%	100%	60%		0%	75%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	580	Douar
C.R.	32	Azgour
		Cercle
		3
		Anizimz

Location									
Latitude	N31	11'	25	Longitude	W8	22'	17	Altitude	1,720 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	60	71	Agriculture	1.43	household	Pist	2.5	(km)
Population	120	145	Non-agri.	0.86	household	Path	7.0	(km)
			Total	2.29	household	Total	9.5	(km)

House Conditions						Annual Budget per Household		
House size-household		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Pheral	Agri.	3,626	25.8%
4	157	100%	0%	100%	0%	Livestock	8,096	57.5%
						Forestry	0	0.0%
						Others	2,349	16.7%
						Total	14,070	100.0%
						Expend.	10,349	
						Saving	3,722	

Education Ratio						
Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	88.4%	80.8%	100.0%			
Koranic	11.6%	19.2%	0.0%			
Fundamental	2.3%	3.8%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha-household)								
Total Land (ha)	Cultivated Crops (ha-household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
2.75	2.36	0.00	0.00	0.00	0.25	0.00	0.00	2.61
Sold Ratio (%)	3.6	0.0	0.0	0.0	81.5	0.0	0.0	
Irrigation (%)	12.1	0.0	0.0	0.0	100.0	0.0	0.0	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.71	14.29	18.43	6.14	1.43	0.00	0.57	42.57

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	0%	71%	0%
Satisfaction	0%	100%	0%		0%	89%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1				
No.	590	Douar	Ait Smil			
C.R.	33	Dar Jamaa		Cercle	3	Amizmiz

Location

Latitude	N31	14'	5	Longitude	W8	21'	3	Altitude	1,040	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	150	178
Population	1,400	1,694

Working Member per household

Agriculture	2.86	household
Non-agri.	1.29	household
Total	4.14	household

Access (km)

Fist	1.0	(km)
Path	1.5	(km)
Total	2.5	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	142	86%	14%	81%	19%

Annual Budget per Household

Agri.	5,029	24.6%
Livestock	9,939	48.6%
Forestry	0	0.0%
Others	5,499	26.9%
Total	20,467	100.0%
Expend.	10,234	
Saving	10,233	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	57.4%	30.8%	92.0%			
Koranic	42.6%	69.2%	8.0%			
Fundamental	30.4%	49.2%	6.0%	50.0%	62.5%	33.3%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
3.43	3.69	0.14	0.00	0.00	0.00	0.60	0.01	4.44
Sold Ratio (%)	18.0	0.0	0.0	0.0	0.0	65.6	95.5	
Irrigation (%)	2.5	0.0	0.0	0.0	0.0	7.7	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.19	2.19	0.00	16.19	1.48	0.00	0.95	23.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	71%	62%	0%	0%	19%	0%
Satisfaction	0%	73%	69%		0%	75%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	600	Douar
C.R.	33	Dar Jamaa
Tifratine		
		Cercle
		3
		Amizmiz

Location

Latitude	N31	17	14	Longitude	W8	20	46	Altitude	810	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	80	95
Population	600	726

Working Member per household

Agriculture	2.67	household
Non-agri.	0.67	household
Total	3.33	household

Access (km)

Pist	3.6	(km)
Path	0.0	(km)
Total	3.6	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	258	92%	8%	83%	17%

Annual Budget per Household

Agri.	2,881	12.8%
Livestock	15,520	69.2%
Forestry	0	0.0%
Others	4,042	18.0%
Total	22,443	100.0%
Expend.	12,571	
Saving	9,872	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	78.4%	68.4%	88.9%			
Koranic	21.6%	31.6%	11.1%			
Fundamental	18.9%	26.3%	11.1%	30.0%	60.0%	0.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
4.33	3.96	0.00	0.00	0.08	0.00	0.08	0.00	4.12
Sold Ratio (%)	8.3	0.0	0.0	33.0	0.0	68.2	0.0	
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.33	7.50	2.58	12.08	1.67	0.08	0.50	26.75

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	33%	33%	67%	0%	8%	17%	17%
Satisfaction	100%	100%	88%		100%	50%	50%
Quality	poor				good		
Shortage	no				yes		
Frequency (yr)	1/1				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	#DIV/0!
no	#DIV/0!

Forest Condition

Over-cutting	no
Degree	none

Over-grazing	yes
Degree	fair

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	610	Douar
C.R.	33	Dar Jamaa
		Cercle
		3
		Amizmiz

Location

Latitude	N31	17	14	Longitude	W8	22	3	Altitude	820(m)
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Households and Population

	Yr 1996	Yr 2010
Households	20	24
Population	200	242

Working Member per household

Agriculture	4.63	household
Non-agri.	1.25	household
Total	5.88	household

Access (km)

Pist	3.7	(km)
Path	0.0	(km)
Total	3.7	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	165	100%	0%	88%	13%

Annual Budget per Household

Agri.	4,168	15.0%
Livestock	16,915	61.0%
Forestry	0	0.0%
Others	6,650	24.0%
Total	27,732	100.0%
Expend.	15,473	
Saving	12,260	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	87.3%	79.5%	100.0%			
Koranic	12.7%	20.5%	0.0%			
Fundamental	7.9%	12.8%	0.0%	12.5%	25.0%	0.0%

Land holding and Cultivated land (ha.household)

Total Land (ha)	Cultivated Crops (ha.household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	
6.72	6.09	0.00	0.00	0.00	0.00	0.11	0.00	6.20
Sold Ratio (%)	12.5	0.0	0.0	0.0	0.0	59.1	0.0	
Irrigation (%)	6.3	0.0	0.0	0.0	0.0	33.3	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.13	35.75	12.38	18.88	2.25	0.25	2.50	74.13

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	25%	50%	75%	100%	13%	13%	0%
Satisfaction	100%	100%	83%		100%	100%	0%
Quality	poor				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	6%
Landslide	0%

Over-grazing	yes
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages			1		
No.	620	Douar	Ift Baragha		
C.R.	33	Dar Jamaa		Cercle	3
			Amizniz		

Location

Latitude	N31	15'	57"	Longitude	W8	20'	57"	Altitude	850 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	35	42
Population	250	302

Working Member per household

Agriculture	2.20	household
Non-agri.	0.60	household
Total	2.80	household

Access (km)

Pist	1.7	(km)
Path	0.3	(km)
Total	2.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	166	80%	20%	100%	0%

Annual Budget per Household

Agri.	7,675	20.9%
Livestock	28,095	76.4%
Forestry	0	0.0%
Others	1,000	2.7%
Total	36,770	100.0%
Expend.	22,600	
Saving	14,170	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	75.0%	46.2%	100.0%			
Koranic	25.0%	53.8%	0.0%			
Fundamental	25.0%	53.8%	0.0%	14.3%	100.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
5.40	5.30	0.00	0.00	0.00	0.00	0.47	0.00	5.77
Sold Ratio (%)	19.8	0.0	0.0	0.0	0.0	55.5	0.0	
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
4.20	13.40	0.80	20.60	1.40	0.00	0.00	40.40

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	20%	40%	40%	0%	0%	0%	0%
Satisfaction	100%	100%	100%		0%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/4		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	0%
no	100%

Opinion of Leader on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	0%	100%
Electricity	100%	0%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	severe

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	630	Douar
C R	33	Dar Jamaa
		Cerele
		3
		Amizmiz

Location

Latitude	N31	14'	11	Longitude	W8	20'	28	Altitude	1,070 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	40	48
Population	300	363

Working Member per household

Agriculture	3.25	household
Non-agri.	1.13	household
Total	4.38	household

Access (km)

Pist	2.0	(km)
Path	0.0	(km)
Total	2.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	153	88%	13%	100%	0%

Annual Budget per Household

Agri.	6,681	27.1%
Livestock	10,955	44.4%
Forestry	0	0.0%
Others	7,038	28.5%
Total	24,673	100.0%
Expend.	13,913	
Saving	10,761	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	71.7%	45.5%	95.8%			
Koranic	28.3%	54.5%	4.2%			
Fundamental	21.7%	45.5%	0.0%	14.3%	50.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
4.41	4.13	0.00	0.00	0.00	0.00	1.18	0.00
Sold Ratio (%)	3.0	0.0	0.0	0.0	88.0	68.3	0.0
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.63	6.25	0.00	17.50	1.38	0.13	0.00	27.88

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	63%	50%	0%	0%	25%	0%
Satisfaction	0%	80%	75%		0%	100%	0%
Quality	good				good		
Shortage	no				no		
Frequency (yr)	1/0				1/20		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irigation water for Hydropower Generation.

yes	#DIV/0!
no	#DIV/0!

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	650	Douar
C.R.	33	Dar Jamaa
		Cercle
		3
		Amizmiz

Location

Latitude	N31	13'	1	Longitude	W8	20'	22	Altitude	1,070	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	11	13
Population	60	73

Working Member per household

Agriculture	2.50	household
Non-agri.	0.00	household
Total	2.50	household

Access (km)

Dist	2.5	(km)
Path	1.5	(km)
Total	4.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	131	100%	0%	100%	0%

Annual Budget per Household

Agri	8,618	36.9%
Livestock	14,744	63.1%
Forestry	0	0.0%
Others	0	0.0%
Total	23,362	100.0%
Expend.	14,483	
Saving	8,879	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	87.0%	66.7%	100.0%			
Koranic	13.0%	33.3%	0.0%			
Fundamental	13.0%	33.3%	0.0%	28.6%	100.0%	0.0%

Land holding and Cultivated land (ha/household)

Total Land (ha)	Cultivated Crops (ha/household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm.	Apples,	Total
4.00	6.38	0.00	0.00	0.03	0.03	0.81	0.15	7.40
Sold Ratio (%)	3.7	0.0	0.0	100.0	100.0	73.9	95.5	
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.00	14.75	17.50	12.25	1.00	0.00	0.00	47.50

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	75%	0%	0%	50%	0%
Satisfaction	0%	100%	100%		0%	50%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	yes
Degree	fair

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	660	Deour
C.R.	33	Dar Jamaa
		Cercle
		3
		Amizmiz

Location

Latitude	N31	14	1	Longitude	W8	20	12	Altitude	1,100	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	30	36
Population	200	242

Working Member per household

Agriculture	3.50	household
Non-agri.	1.50	household
Total	5.00	household

Access (km)

Pist	2.5	(km)
Path	0.0	(km)
Total	2.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	120	100%	0%	100%	0%

Annual Budget per Household

Agri.	1,800	18.6%
Livestock	6,426	66.5%
Forestry	0	0.0%
Others	1,438	14.9%
Total	9,664	100.0%
Expend.	6,767	
Saving	2,897	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	76.2%	61.5%	100.0%			
Koranic	23.8%	38.5%	0.0%			
Fundamental	19.0%	30.8%	0.0%	50.0%	100.0%	0.0%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples
1.43	1.55	0.00	0.00	0.00	0.00	0.10	0.00
Sold Ratio (%)	12.5	0.0	0.0	0.0	0.0	59.1	0.0
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Herse	Others	Total
1.50	2.50	0.00	4.25	0.75	0.00	0.00	9.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	25%	50%	0%
Satisfaction	0%	100%	0%		100%	50%	0%
Quality		good				poor	
Shortage		yes				yes	
Frequency (yr)		1/1				1/1	

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	0%	100%

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	no
Degree	none