

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1			
No.	670	Douar	Tamsoult		
C.R.	33	Dar Jamaa		Cercle	3
		Amizmiz			

Location

Latitude	N31	14'	3	Longitude	W8	20'	25	Altitude	960 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	5	6
Population	37	45

Working Member per household

Agriculture	2.00	household
Non-agri.	1.00	household
Total	3.00	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
5	200	100%	0%	100%	0%

Annual Budget per Household

Agri.	9,160	37.8%
Livestock	6,060	25.0%
Forestry	0	0.0%
Others	9,000	37.2%
Total	24,220	100.0%
Expend.	18,000	
Saving	6,220	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	100.0%	100.0%	100.0%			
Koranic	0.0%	0.0%	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,	
3.00	3.00	0.00	0.00	0.00	0.00	0.20	0.20	3.40
Sold Ratio (%)	50.0	0.0	0.0	0.0	0.0	100.0	100.0	
Irrigation (%)	0.0	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
2.00	10.00	0.00	0.00	1.00	0.00	0.00	13.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	0%	100%	0%	100%	0%	0%
Satisfaction	0%	0%	100%		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	100%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	680	Douar
C.R.	33	Dar Jamaa
		Cercle
		3
		Amizmiz

Location

Latitude	N31	14	58	Longitude	W8	22	59	Altitude	970	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	60	71
Population	220	266

Working Member per household

Agriculture	4.17	household
Non-agri.	1.00	household
Total	5.17	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	198	100%	0%	67%	33%

Annual Budget per Household

Agri.	4,122	34.5%
Livestock	5,463	45.7%
Forestry	0	0.0%
Others	2,367	19.8%
Total	11,952	100.0%
Expend.	10,823	
Saving	1,129	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	64.9%	38.1%	100.0%			
Koranic	35.1%	61.9%	0.0%			
Fundamental	27.0%	47.6%	0.0%	33.3%	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, Ahn.	Apples,
5.38	4.88	0.00	0.00	0.00	0.00	0.65	0.00
Sold Ratio (%)	16.6	0.0	0.0	0.0	0.0	83.4	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
1.33	10.83	0.83	6.17	1.50	0.00	0.00	20.67

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	67%	83%	100%	0%	17%	0%
Satisfaction	0%	50%	100%		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	0%
no	100%

Forest Condition

Over-cutting	yes
Degree	fair

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.	690 Douar	Agadir Ait Brahim
C.R.	33	Dar Janina Cercle 3 Amizmiz

Location

Latitude	N31	14	49	Longitude	W8	22	49	Altitude	980 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	28	33
Population	120	145

Working Member per household

Agriculture	2.00	household
Non-agri.	1.00	household
Total	3.00	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
5	125	100%	0%	75%	25%

Annual Budget per Household

Agri.	2,628	24.0%
Livestock	6,093	55.5%
Forestry	0	0.0%
Others	2,250	20.5%
Total	10,971	100.0%
Expend.	11,525	
Saving	-554	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	66.7%	60.0%	71.4%			
Koranic	33.3%	40.0%	28.6%			
Fundamental	33.3%	40.0%	28.6%	66.7%	50.0%	75.0%

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,	
3.58	3.25	0.00	0.00	0.00	0.00	0.28	0.00	3.53
Sold Ratio (%)	11.0	0.0	0.0	0.0	0.0	67.1	0.0	
Irrigation (%)	9.4	0.0	0.0	0.0	0.0	16.7	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.25	7.50	0.00	13.75	2.00	0.00	0.00	24.50

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%	100%	0%	25%	0%
Satisfaction	0%	100%	0%		0%	100%	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	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.	700	Douar	fouraghan			
C.R.	33	Dar Jamaa		Cercle	3	Amizmiz

Location

Latitude	N31	14'	39	Longitude	W8	23'	6	Altitude	950	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	18	21
Population	80	97

Working Member per household

Agriculture	1.67	household
Non-agri.	0.33	household
Total	2.00	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
3	173	100%	0%	100%	0%

Annual Budget per Household

Agri.	4,011	28.2%
Livestock	9,560	67.1%
Forestry	0	0.0%
Others	667	4.7%
Total	14,237	100.0%
Expend.	8,637	
Saving	5,600	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	83.3%	62.5%	100.0%			
Koranic	16.7%	37.5%	0.0%			
Fundamental	16.7%	37.5%	0.0%	16.7%	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
4.83	2.83	0.00	0.00	0.00	0.00	0.03	0.00	2.87
Sold Ratio (%)	25.0	0.0	0.0	0.0	0.0	39.1	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	Horse	Others	Total
1.00	3.33	2.00	14.00	1.33	0.00	0.00	21.67

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%	0%	0%
Satisfaction	0%	100%	0%		0%	0%	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%
Landslide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages			1
No.	710	Donar	Inuki
C.R.	33	Dar Jamaa	Cerele 3 Amizmiz

Location									
Latitude	N31	15	21	Longitude	W8	23	43	Altitude	880 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	1.71	household	Pist	0.7	(km)
Households	50	59	Non-agri.	0.86	household	Path	0.0	(km)
Population	500	605	Total	2.57	household	Total	0.7	(km)

House Conditions			Annual Budget per Household		
House size household		Structure of House			
Rooms	(m2)	Tradition	Modern	Single	Plural
6	309	86%	14%	86%	14%

Agri.	12,508	39.3%
Livestock	11,364	35.7%
Forestry	0	0.0%
Others	7,957	25.0%
Total	31,829	100.0%
Expend.	12,214	
Saving	19,615	

Education Ratio						
Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	58.5%	31.8%	89.5%			
Koranic	41.5%	68.2%	10.5%			
Fundamental	36.6%	59.1%	10.5%	37.5%	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
11.14	9.29	0.00	0.00	0.00	0.00	0.38	0.00	9.67
Sold Ratio (%)	41.9	0.0	0.0	0.0	0.0	72.2	0.0	
Irrigation (%)	3.6	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
2.14	15.00	0.86	51.43	2.14	0.00	0.00	71.57

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	29%	43%	29%	100%	14%	14%	0%
Satisfaction	100%	100%	100%		0%	100%	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	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.	720	Deuar	Ifit Ait Alla			
C R.	33	Dar Jamaa		Cercle	3	Amizmiz

Location

Latitude	N31	15'	25	Longitude	W8	24'	16	Altitude	900 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	22	26
Population	200	242

Working Member per household

Agriculture	4.00	household
Non-agri.	0.00	household
Total	4.00	household

Access (km)

Pist	1.2	(km)
Path	0.0	(km)
Total	1.2	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	250	100%	0%	100%	0%

Annual Budget per Household

Agri.	8,817	35.1%
Livestock	14,303	56.9%
Forestry	0	0.0%
Others	2,000	8.0%
Total	25,119	100.0%
Expend.	12,800	
Saving	12,319	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	85.0%	75.0%	91.7%			
Koranic	15.0%	25.0%	8.3%			
Fundamental	15.0%	25.0%	8.3%	25.0%	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	
5.33	5.17	0.00	0.00	0.00	0.00	0.31	0.00	5.47
Sold Ratio (%)	12.5	0.0	0.0	0.0	0.0	62.1	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	Horse	Others	Total
3.00	15.33	6.67	6.67	1.33	0.00	0.00	33.00

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	67%	33%	0%	100%	33%	0%	0%
Satisfaction	50%	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	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.	730	Douar
C.R.	33	Dar Jamaa
		Cercle
		3
		Amizmiz

Location

Latitude	N31	14'	40	Longitude	W8	23	57	Altitude	950	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	85	101
Population	425	514

Working Member per household

Agriculture	2.33	household
Non-agri.	0.93	household
Total	3.27	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	230	87%	13%	80%	20%

Annual Budget per Household

Agri.	4,379	16.8%
Livestock	3,325	12.7%
Forestry	0	0.0%
Others	18,407	70.5%
Total	26,110	100.0%
Expend.	9,768	
Saving	16,343	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.4%	59.5%	92.2%			
Koranic	22.6%	40.5%	7.8%			
Fundamental	18.3%	33.3%	5.9%	36.4%	100.0%	12.5%

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,	
3.97	3.80	0.00	0.00	0.07	0.00	0.35	0.00	4.22
Sold Ratio (%)	17.7	0.0	0.0	86.2	0.0	78.3	0.0	
Irrigation (%)	0.0	0.0	0.0	100.0	0.0	10.6	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.20	3.80	0.07	10.73	1.13	0.07	0.00	17.00

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%	7%	100%	0%	67%	0%
Satisfaction	0%	100%	100%		0%	70%	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	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.	740	Douar	Addar Ait Ali			
C.R.	33	Dar Jamaa		Cercle	3	Amizmiz

Location

Latitude	N31	14	26	Longitude	W8	23	27	Altitude	1,030	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	22	26
Population	150	181

Working Member per household

Agriculture	1.00	household
Non-agri.	0.33	household
Total	1.33	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	(n2)	Tradition	Modern	Single	Plural
4	203	100%	0%	67%	33%

Annual Budget per Household

Agri.	6,335	38.7%
Livestock	6,888	42.1%
Forestry	0	0.0%
Others	3,133	19.2%
Total	16,356	100.0%
Expend.	8,000	
Saving	8,356	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	68.7%	50.0%	87.5%			
Koranic	31.3%	50.0%	12.5%			
Fundamental	31.3%	50.0%	12.5%	100.0%	100.0%	100.0%

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
5.75	5.75	0.00	0.00	0.00	0.00	0.45	0.00
Sold Ratio (%)	33.3	0.0	0.0	0.0	0.0	72.8	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
2.67	1.00	0.00	4.00	1.67	0.00	0.00	9.33

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	67%	100%	100%	0%	67%	0%
Satisfaction	0%	0%	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	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	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	760	Douar	Ait Bourd
C.R.	33	Dar Jamaa	Cercle
			3
			Amizmiz

Location

Latitude	N31	13	35	Longitude	W8	22	5	Altitude	1,040	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	100	119
Population	700	847

Working Member per household

Agriculture	3.09	household
Non-agri.	1.36	household
Total	4.45	household

Access (km)

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

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	169	91%	9%	91%	9%

Annual Budget per Household

Agri	5,201	25.0%
Livestock	8,096	38.9%
Forestry	655	3.1%
Others	6,840	32.9%
Total	20,792	100.0%
Expend.	16,040	
Saving	4,752	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	69.1%	55.8%	92.0%			
Keranic	30.9%	44.2%	8.0%			
Fundamental	11.8%	16.3%	4.0%	40.0%	50.0%	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	
5.82	5.73	0.00	0.00	0.00	0.00	0.65	0.00	6.38
Sold Ratio (%)	15.8	0.0	0.0	77.2	0.0	73.7	0.0	
Irrigation (%)	9.1	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
1.64	10.36	0.00	18.27	1.82	0.00	0.00	32.09

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%	100%	36%	18%	9%
Satisfaction	0%	0%	82%		75%	50%	100%
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	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.	770	Douar	Ait MBarek			
C.R.	33	Dar Jamaa	Cercle	3	Amizmiz	

Location

Latitude	N31	13	42	Longitude	W8	21	56	Altitude	1,060 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	30	36
Population	120	145

Working Member per household

Agriculture	6.00	household
Non-agri.	0.20	household
Total	6.20	household

Access (km)

Pist	3.5	(km)
Path	0.4	(km)
Total	3.9	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	184	80%	20%	100%	0%

Annual Budget per Household

Agri.	4,155	14.0%
Livestock	8,963	30.2%
Forestry	0	0.0%
Others	16,550	55.8%
Total	29,668	100.0%
Expend.	12,762	
Saving	16,906	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	78.4%	57.9%	100.0%			
Koranic	21.6%	42.1%	0.0%			
Fundamental	16.2%	31.6%	0.0%	20.0%	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
4.65	5.15	0.00	0.00	0.00	0.00	0.18	0.00	5.33
Sold Ratio (%)	10.5	0.0	0.0	0.0	0.0	59.4	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
1.20	16.80	2.00	4.60	1.00	0.00	0.00	25.60

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	40%	0%	100%	100%	0%	0%	0%
Satisfaction	100%	0%	100%		0%	0%	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	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.	780	Deuar
C.R.	33	Dar Janina
		Cercle
		3
		Amizmiz

Location									
Latitude	N31	13'	14	Longitude	W8	22'	31	Altitude	1,190 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	2.50	household	Pist	3.5	(km)
Households	60	71	Non-agri.	1.00	household	Path	1.5	(km)
Population	400	484	Total	3.50	household	Total	5.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	118	75%	25%	100%	0%

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12years old)		
	Total	Male	Female	Total	Male	Female
None	87.5%	82.4%	100.0%			
Koranic	12.5%	17.6%	0.0%			
Fundamental	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Annual Budget per Household

Agri.	5,109	28.1%
Livestock	3,710	20.4%
Forestry	0	0.0%
Others	9,375	51.5%
Total	18,194	100.0%
Expend	10,800	
Saving	7,394	

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	
4.38	4.13	0.00	0.00	0.00	0.00	1.06	0.00	5.19
Sold Ratio (%)	13.2	0.0	0.0	0.0	0.0	83.1	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	Horse	Others	Total
0.75	6.25	0.00	16.25	1.00	0.25	0.00	24.50

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%	100%	0%	25%	0%
Satisfaction	0%	75%	33%		0%	0%	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	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.	790	Douar
C.R.	33	Dar Jamaa
		Cercle
		3
		Amizmiz

Location

Latitude	N31	13'	10"	Longitude	W8	22'	8"	Altitude	1,110	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	25	30
Population	120	145

Working Member per household

Agriculture	1.00	/household
Non-agri	0.00	/household
Total	1.00	/household

Access (km)

Pist	3.5	(km)
Path	0.9	(km)
Total	4.4	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	170	100%	0%	100%	0%

Annual Budget per Household

Agri.	3,704	37.3%
Livestock	5,613	56.6%
Forestry	0	0.0%
Others	600	6.1%
Total	9,917	100.0%
Expend.	5,731	
Saving	4,186	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	77.8%	55.6%	100.0%			
Koranic	22.2%	44.4%	0.0%			
Fundamental	22.2%	44.4%	0.0%	60.0%	100.0%	0.0%

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
1.69	1.50	0.00	0.00	0.00	0.00	0.21	0.00
Sold Ratio (%)	29.2	0.0	0.0	0.0	0.0	65.5	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
0.75	0.00	0.00	17.75	1.00	0.00	0.00	19.50

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	25%	100%	0%	0%	0%	50%
Satisfaction	0%	100%	100%		0%	0%	0%
Quality	good				poor		
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	100%
Landslide	0%

Over-grazing	yes
Degree	severe

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	810	Douar
C.R.	34	Ameghrass Cercle 3 Amizmiz

Location

Latitude	N31° 12' 14"	Longitude	W8° 10' 49"	Altitude	1,033 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	10	12
Population	70	85

Working Member per household

Agriculture	2.67	household
Non-agri.	1.33	household
Total	4.00	household

Access (km)

Pist	1.5	(km)
Path	0.5	(km)
Total	2.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	282	67%	33%	100%	0%

Annual Budget per Household

Agri.	28,796	86.1%
Livestock	4,106	12.3%
Forestry	550	1.6%
Others	0	0.0%
Total	33,452	100.0%
Expend.	3,751	
Saving	29,701	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	68.2%	56.2%	100.0%			
Koranic	31.8%	43.8%	0.0%			
Fundamental	27.3%	37.5%	0.0%	50.0%	75.0%	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
10.42	7.08	0.33	0.00	0.33	0.00	2.00	0.67
Sold Ratio (%)	17.7	8.3	0.0	75.2	0.0	100.0	100.0
Irrigation (%)	30.0	100.0	0.0	100.0	0.0	50.0	100.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
3.33	12.33	5.67	4.67	2.33	0.00	0.00	28.33

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	67%	100%	0%	0%	67%	100%	67%
Satisfaction	50%	67%	0%		0%	67%	100%
Quality	good				poor		
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	yes
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	100%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	831	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizniz

Location

Latitude	N31	12	5	Longitude	W8	11	1	Altitude	1,020	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	15	18
Population	95	115

Working Member per household

Agriculture	3.00	household
Non-agri.	0.67	household
Total	3.67	household

Access (km)

Pist	1.5	(km)
Path	0.0	(km)
Total	1.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	150	100%	0%	100%	0%

Annual Budget per Household

Agri.	3,477	28.0%
Livestock	8,473	68.3%
Forestry	0	0.0%
Others	455	3.7%
Total	12,405	100.0%
Expend.	8,167	
Saving	4,238	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	66.7%	37.5%	100.0%			
Koranic	33.3%	62.5%	0.0%			
Fundamental	26.7%	50.0%	0.0%	100.0%	100.0%	#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
9.00	4.00	1.58	0.17	0.25	0.00	0.50	0.00
Sold Ratio (%)	0.0	0.0	0.0	79.4	0.0	84.1	0.0
Irrigation (%)	31.0	98.0	100.0	100.0	0.0	100.0	100.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
3.00	1.67	1.33	22.33	1.33	0.00	0.00	29.67

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%	33%	0%	33%	100%	33%
Satisfaction	0%	67%	0%		100%	67%	0%
Quality		good				poor	
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	100%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	832	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	12	32	Longitude	W8	10	25	Altitude	970	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	20	24
Population	100	121

Working Member per household

Agriculture	1.80	household
Non-agri.	1.00	household
Total	2.80	household

Access (km)

Pist	0.0	(km)
Path	0.4	(km)
Total	0.4	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	139	100%	0%	80%	20%

Annual Budget per Household

Agri.	7,334	47.3%
Livestock	7,781	50.2%
Forestry	0	0.0%
Others	400	2.6%
Total	15,518	100.0%
Expend.	8,680	
Saving	6,838	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	70.8%	57.1%	90.0%			
Koranic	29.2%	42.9%	10.0%			
Fundamental	20.8%	28.6%	10.0%	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	
3.50	2.20	0.05	0.00	0.20	0.35	0.64	0.00	3.44
Sold Ratio (%)	16.7	0.0	0.0	79.5	88.0	76.2	0.0	
Irrigation (%)	0.0	50.0	0.0	100.0	50.0	66.7	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.40	3.60	16.00	9.00	1.00	0.20	0.00	31.20

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	20%	0%	40%	60%	40%
Satisfaction	0%	100%	100%		100%	0%	50%
Quality	good				poor		
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	100%	0%
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.	840	Douar	Ait Bouzid			
C.R.	34	Ameglouss		Cercle	3	Amizniz

Location

Latitude	N31	13'	33	Longitude	W8	10'	13	Altitude	950	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	119	141
Population	733	887

Working Member per household

Agriculture	3.86	household
Non-agri	0.26	household
Total	4.71	household

Access (km)

Pist	1.5	(km)
Path	0.0	(km)
Total	1.5	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	289	86%	14%	71%	29%

Annual Budget per Household

Agri.	16,243	61.6%
Livestock	5,654	21.4%
Forestry	0	0.0%
Others	4,471	17.0%
Total	26,368	100.0%
Expend.	15,443	
Saving	10,925	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	80.0%	63.6%	100.0%			
Keranic	20.0%	36.4%	0.0%			
Fundamental	17.5%	31.8%	0.0%	50.0%	62.5%	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
5.93	5.46	0.21	0.07	0.71	0.00	2.38	0.00
Sold Ratio (%)	21.3	11.8	0.0	77.2	0.0	66.3	0.0
Irrigation (%)	53.9	66.7	100.0	0.0	0.0	40.2	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.86	9.71	2.29	17.14	1.43	0.14	0.00	32.57

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%	43%	0%	14%	86%	14%
Satisfaction	0%	100%	33%		100%	67%	0%
Quality	good				good		
Shortage	yes				no		
Frequency (yr)	1/0				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	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.	851	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	13'	31	Longitude	W8	10'	36	Altitude	940 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	35	42
Population	180	218

Working Member per household

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

Access (km)

Pist	1.2	(km)
Path	0.0	(km)
Total	1.2	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	180	86%	14%	71%	29%

Annual Budget per Household

Agri.	3,055	30.6%
Livestock	5,400	54.0%
Forestry	0	0.0%
Others	1,543	15.4%
Total	9,998	100.0%
Expend.	7,197	
Saving	2,801	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	66.7%	46.2%	94.7%			
Koranic	33.3%	53.8%	5.3%			
Fundamental	28.9%	46.2%	5.3%	50.0%	100.0%	25.0%

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
4.73	3.14	0.05	0.04	0.09	0.02	0.18	0.00	3.52
Sold Ratio (%)	3.6	0.0	100.0	76.0	88.0	48.6	0.0	
Irrigation (%)	51.9	100.0	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
2.29	12.29	0.86	9.86	1.14	0.29	0.00	26.71

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	86%	29%	0%	0%	71%	14%
Satisfaction	0%	50%	0%		0%	20%	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	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.	852	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	13'	13	Longitude	W8	10'	28	Altitude	1,000	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	35	42
Population	180	218

Working Member per household

Agriculture	5.00	household
Non-agri.	0.00	household
Total	5.00	household

Access (km)

Pist	0.8	(km)
Path	0.0	(km)
Total	0.8	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	408	33%	67%	67%	33%

Annual Budget per Household

Agri.	7,040	30.3%
Livestock	16,180	69.7%
Forestry	0	0.0%
Others	0	0.0%
Total	23,220	100.0%
Expend.	7,200	
Saving	16,020	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	90.0%	75.0%	100.0%			
Koranic	10.0%	25.0%	0.0%			
Fundamental	0.0%	0.0%	0.0%	0.0%	#DIV/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,	
9.33	10.00	0.13	0.03	0.21	0.12	0.25	0.00	10.74
Sold Ratio (%)	28.5	75.0	100.0	54.2	62.5	84.1	0.0	
Irrigation (%)	30.2	100.0	0.0	100.0	100.0	50.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.67	16.33	6.33	13.67	2.00	0.67	0.00	41.67

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%	33%	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	#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.	860	Douar
C.R.	34	Ameghrass
Tagadirt (Ait Bouimzgan)		
Cercle		3
Amizmiz		

Location

Latitude	N31	14'	0	Longitude	W8	8	25	Altitude	1,150	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	28	33
Population	137	166

Working Member per household

Agriculture	3.00	/household
Non-agri.	1.33	/household
Total	4.33	/household

Access (km)

Pist	2.8	(km)
Path	2.2	(km)
Total	5.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	316	67%	33%	67%	33%

Annual Budget per Household

Agri.	19,164	58.7%
Livestock	9,479	29.0%
Forestry	0	0.0%
Others	4,000	12.3%
Total	32,643	100.0%
Expend.	12,867	
Saving	19,776	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	83.3%	77.8%	100.0%			
Koranic	16.7%	22.2%	0.0%			
Fundamental	16.7%	22.2%	0.0%	100.0%	100.0%	#DIV/0!

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Afm	Apples,	Total
3.83	2.75	0.17	0.00	0.33	0.25	4.86	0.00	8.36
Sold Ratio (%)	33.1	25.0	0.0	79.5	88.0	76.2	0.0	
Irrigation (%)	33.3	50.0	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
1.67	9.67	5.33	17.00	2.00	0.33	0.00	36.00

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%	33%	0%	67%	100%	33%
Satisfaction	0%	67%	0%		100%	33%	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	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1				
No.	871	Douar	Zaouit			
C.R.	34	Ameghrass		Cercle	3	Amizmiz

Location

Latitude	N31	11'	42"	Longitude	W8	11'	48"	Altitude	1,160	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	9	11
Population	60	73

Working Member per household

Agriculture	1.50	household
Non-agri.	0.00	household
Total	1.50	household

Access (km)

Pist	2.8	(km)
Path	2.0	(km)
Total	4.8	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	223	100%	0%	50%	50%

Annual Budget per Household

Agri.	3,989	37.1%
Livestock	6,770	62.9%
Forestry	0	0.0%
Others	0	0.0%
Total	10,759	100.0%
Expend.	12,300	
Saving	-1,541	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	75.0%	55.6%	100.0%			
Koranic	25.0%	44.4%	0.0%			
Fundamental	25.0%	44.4%	0.0%	66.7%	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	
2.50	2.50	0.00	0.00	0.00	0.00	0.14	0.00	2.64
Sold Ratio (%)	25.0	0.0	0.0	0.0	0.0	34.4	0.0	
Irrigation (%)	10.0	0.0	0.0	0.0	0.0	0.5	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.00	28.00	8.50	3.00	2.00	0.00	0.00	43.50

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%	0%	0%	0%
Satisfaction	0%	50%	0%		0%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/5		

<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	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.	872	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	12	44	Longitude	W8	12	24	Altitude	1,020	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	12	14
Population	62	75

Working Member per household

Agriculture	1.75	household
Non-agri.	0.75	household
Total	2.50	household

Access (km)

Pist	1.3	(km)
Path	0.0	(km)
Total	1.3	(km)

House Conditions

House size:household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	223	75%	25%	75%	25%

Annual Budget per Household

Agri.	5,230	36.2%
Livestock	7,757	53.7%
Forestry	0	0.0%
Others	1,450	10.0%
Total	14,437	100.0%
Expend.	8,688	
Saving	5,750	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	65.4%	33.3%	92.9%			
Koranic	34.6%	66.7%	7.1%			
Fundamental	30.8%	58.3%	7.1%	75.0%	100.0%	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,	
3.13	2.50	0.00	0.00	0.00	0.00	0.26	0.00	2.76
Sold Ratio (%)	12.5	0.0	0.0	0.0	0.0	68.2	0.0	
Irrigation (%)	10.0	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
1.50	12.50	2.50	13.00	1.00	0.00	0.00	30.50

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	25%	100%	100%	25%	0%	0%
Satisfaction	0%	100%	100%		100%	0%	0%
Quality	good				poor		
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	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.	880	Donar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	11'	22	Longitude	W8	11'	25	Altitude	1,240 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	24	29
Population	130	157

Working Member per household

Agriculture	3.20	/household
Non-agri.	1.20	/household
Total	4.40	/household

Access (km)

Pist	2.8	(km)
Path	2.5	(km)
Total	5.3	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	163	60%	40%	80%	20%

Annual Budget per Household

Agri.	1,807	18.3%
Livestock	7,852	79.6%
Forestry	0	0.0%
Others	200	2.0%
Total	9,859	100.0%
Expend.	7,117	
Saving	2,742	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	82.1%	75.0%	93.3%			
Koranic	17.9%	25.0%	6.7%			
Fundamental	17.9%	25.0%	6.7%	45.5%	57.1%	25.0%

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
2.51	2.24	0.80	0.00	0.00	0.00	0.17	0.00
Sold Ratio (%)	1.0	0.0	0.0	0.0	0.0	53.8	0.0
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	6.1	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.20	4.00	24.40	10.20	1.20	0.20	0.00	42.20

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	100%	0%	0%	0%	20%	0%
Satisfaction	0%	80%	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	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	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	890	Deuar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location									
Latitude	N31	11	53	Longitude	W8	12	19	Altitude	1,180 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	36	43	Agriculture	3.14	household	Pist	2.8	(km)
Population	181	219	Non-agri.	1.00	household	Path	0.5	(km)
			Total	4.14	household	Total	3.3	(km)

House Conditions						Annual Budget per Household		
House size:household		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Plural	Agri.	2,776	21.5%
5	162	71%	29%	100%	0%	Livestock	3,120	24.2%
						Forestry	0	0.0%
						Others	6,986	54.2%
						Total	12,881	100.0%
						Expend.	10,080	
						Saving	2,801	

Education Ratio						
Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	66.0%	48.0%	86.4%			
Koranic	34.0%	52.0%	13.6%			
Fundamental	25.5%	36.0%	13.6%	100.0%	100.0%	100.0%

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
3.43	3.39	0.00	0.04	0.00	0.00	0.36	0.00	3.79
Sold Ratio (%)	13.6	0.0	0.0	0.0	0.0	68.2	0.0	
Irrigation (%)	14.3	0.0	100.0	0.0	0.0	0.0	0.0	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.00	5.00	2.29	29.00	1.29	0.14	0.00	38.71

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%	100%	0%	43%	0%
Satisfaction	0%	86%	0%		0%	33%	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	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	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	900	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	12'	11	Longitude	W8	12'	7	Altitude	1,100	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	30	36
Population	172	208

Working Member per household

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

Access (km)

Pist	2.8	(km)
Path	0.0	(km)
Total	2.8	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	97	100%	0%	100%	0%

Annual Budget per Household

Agri.	1,813	22.2%
Livestock	2,247	27.5%
Forestry	0	0.0%
Others	4,113	50.3%
Total	8,173	100.0%
Expend.	4,814	
Saving	3,359	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	73.5%	55.6%	93.7%			
Keranic	26.5%	44.4%	6.3%			
Fundamental	14.7%	27.8%	0.0%	33.3%	66.7%	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,	
1.88	1.79	0.00	0.00	0.00	0.00	0.03	0.00	1.83
Sold Ratio (%)	13.8	0.0	0.0	0.0	0.0	84.1	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	Horse	Others	Total
0.67	5.17	0.00	10.50	0.67	0.00	0.00	17.00

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%	33%	67%	0%
Satisfaction	0%	100%	0%		0%	25%	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	0%
no	100%

Forest Condition

Over-cutting	yes
Degree	fair

Possible Alternative Energy of Firewood

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

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	910	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	15	7	Longitude	W8	9	41	Altitude	830	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	53	63
Population	254	307

Working Member per household

Agriculture	2.67	household
Non-agri.	0.83	household
Total	3.50	household

Access (km)

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

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	258	67%	33%	83%	17%

Annual Budget per Household

Agri.	4,054	30.0%
Livestock	5,797	43.0%
Forestry	0	0.0%
Others	3,640	27.0%
Total	13,491	100.0%
Expend.	12,442	
Saving	1,049	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	82.4%	68.7%	94.4%			
Koranic	17.6%	31.3%	5.6%			
Fundamental	2.9%	0.0%	5.6%	50.0%	0.0%	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,	
4.46	3.70	0.00	0.08	0.10	0.00	0.29	0.00	4.17
Sold Ratio (%)	7.2	0.0	50.0	75.2	0.0	46.7	0.0	
Irrigation (%)	28.4	0.0	100.0	50.0	0.0	16.7	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.67	9.50	1.67	28.50	1.50	0.00	0.00	42.83

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%	17%	83%	17%
Satisfaction	0%	67%	0%		100%	0%	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	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.	920	Douar	Ighil Ssidena (Draa Rkik)
C.R.	34	Ameghrass	Cercle 3 Amizmiz

Location

Latitude	N31	14	16	Longitude	W8	10	1	Altitude	900 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	14	17
Population	54	65

Working Member per household

Agriculture	2.67	household
Non-agri.	0.67	household
Total	3.33	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
3	83	100%	0%	100%	0%

Annual Budget per Household

Agri.	1,063	11.6%
Livestock	5,793	63.0%
Forestry	0	0.0%
Others	2,333	25.4%
Total	9,193	100.0%
Expend.	4,317	
Saving	4,878	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	73.7%	60.0%	88.9%			
Koranic	26.3%	40.0%	11.1%			
Fundamental	21.1%	30.0%	11.1%	33.3%	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
3.02	2.50	0.12	0.00	0.10	0.00	0.12	0.00	2.83
Sold Ratio (%)	0.0	0.0	0.0	76.7	0.0	68.2	0.0	
Irigation (%)	0.0	100.0	0.0	100.0	0.0	0.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.67	6.67	3.33	7.67	1.33	0.00	0.00	20.67

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	67%	100%	100%	0%	67%	33%
Satisfaction	0%	100%	100%		0%	0%	100%
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	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	930	Douar
C.R.	34	Ameghrass
		Cerele
		3
		Amizmiz

Location

Latitude	N31	13'	33'	Longitude	W8	10'	13'	Altitude	930	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	59	70
Population	284	344

Working Member per household

Agriculture	3.67	household
Non-agri.	1.00	household
Total	4.67	household

Access (km)

Pist	2.2	(km)
Path	0.0	(km)
Total	2.2	(km)

House Conditions

House size:household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	165	83%	17%	83%	17%

Annual Budget per Household

Agri.	7,170	49.9%
Livestock	6,740	46.9%
Forestry	0	0.0%
Others	450	3.1%
Total	14,360	100.0%
Expend.	10,676	
Saving	3,683	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	81.1%	81.8%	80.0%			
Koranic	18.9%	18.2%	20.0%			
Fundamental	13.5%	9.1%	20.0%	60.0%	0.0%	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,	
4.58	3.77	0.13	0.00	0.04	0.00	0.10	0.00	4.03
Sold Ratio (%)	4.2	0.0	0.0	76.3	0.0	68.2	0.0	
Irrigation (%)	16.5	50.0	0.0	50.0	0.0	0.0	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.83	13.00	0.00	14.00	1.83	0.00	0.00	30.67

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%	50%	0%	0%	83%	17%
Satisfaction	0%	83%	33%		0%	40%	0%
Quality	good				good		
Shortage	yes				no		
Frequency (yr)	1/0				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.	940	Deuar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	13	53	Longitude	W8	9	1	Altitude	850 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	90	107
Population	472	571

Working Member per household

Agriculture	3.33	household
Non-agri.	1.56	household
Total	4.89	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	202	78%	22%	67%	33%

Annual Budget per Household

Agri.	6,317	35.8%
Livestock	7,405	41.9%
Forestry	0	0.0%
Others	3,933	22.3%
Total	17,655	100.0%
Expend	7,212	
Saving	10,443	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	50.7%	42.9%	59.4%			
Koranic	49.3%	57.1%	40.6%			
Fundamental	32.8%	28.6%	37.5%	37.5%	25.0%	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
4.54	3.36	0.22	0.00	0.30	0.11	0.25	0.00
Sold Ratio (%)	6.4	0.0	0.0	80.1	88.0	54.2	95.5
Irrigation (%)	9.9	40.0	0.0	91.7	50.0	67.5	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.89	14.56	5.11	8.22	1.56	0.00	0.00	31.33

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%	56%	0%	44%	100%	22%
Satisfaction	100%	100%	80%		75%	67%	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	100%	0%
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.	950	Douar
C.R.	34	Ameghrass
		Cereke
		3
		Amizmiz

Location

Latitude	N31	12	21	Longitude	W8	9	9	Altitude	1,080 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	13	15
Population	75	91

Working Member per household

Agriculture	5.67	household
Non-agri.	0.00	household
Total	5.67	household

Access (km)

Pist	2.5	(km)
Path	0.3	(km)
Total	2.8	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	367	0%	100%	33%	67%

Annual Budget per Household

Agri.	13,089	60.3%
Livestock	8,453	38.9%
Forestry	0	0.0%
Others	180	0.8%
Total	21,723	100.0%
Expend.	9,047	
Saving	12,676	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	52.6%	27.3%	87.5%			
Koranic	47.4%	72.7%	12.5%			
Fundamental	21.1%	27.3%	12.5%	66.7%	50.0%	100.0%

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
3.48	4.17	0.17	0.08	0.00	0.08	2.57	0.23	7.30
Sold Ratio (%)	12.7	0.0	0.0	0.0	80.0	49.4	97.8	
Irrigation (%)	21.3	50.0	100.0	100.0	100.0	75.0	50.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.00	9.67	21.67	16.67	1.67	0.00	0.00	51.67

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%	67%	0%	33%	67%	33%
Satisfaction	100%	100%	100%		0%	100%	100%
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	yes
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.	960	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	12'	11"	Longitude	W8	9'	24"	Altitude	1,160 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	14	17
Population	80	97

Working Member per household

Agriculture	5.67	household
Non-agri	2.00	household
Total	7.67	household

Access (km)

Pist	2.5	(km)
Path	1.2	(km)
Total	3.7	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	217	100%	0%	67%	33%

Annual Budget per Household

Agri.	5,656	25.2%
Livestock	10,820	48.1%
Forestry	0	0.0%
Others	6,000	26.7%
Total	22,476	100.0%
Expend.	12,717	
Saving	9,759	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	73.5%	66.7%	81.2%			
Koranic	26.5%	33.3%	18.8%			
Fundamental	14.7%	16.7%	12.5%	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	
4.83	3.00	0.17	0.00	0.17	0.00	0.89	0.00	4.23
Sold Ratio (%)	24.8	50.0	0.0	75.4	0.0	62.1	0.0	
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	16.7	50.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
4.33	0.00	46.67	5.33	1.00	0.00	0.00	57.33

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%	67%	0%
Satisfaction	0%	67%	0%		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	#DIV.0!
no	#DIV.0!

Forest Condition

Over-cutting	yes
Degree	fair

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	yes
Degree	severe

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	970	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	12	26	Longitude	W8	8	8	Altitude	1,050	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	33	39
Population	152	184

Working Member per household

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

Access (km)

Pist	2.5	(km)
Path	2.5	(km)
Total	5.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	178	100%	0%	83%	17%

Annual Budget per Household

Agri.	5,180	27.3%
Livestock	7,197	37.9%
Forestry	0	0.0%
Others	6,628	34.9%
Total	19,005	100.0%
Expend.	11,050	
Saving	7,955	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	97.1%	94.7%	100.0%			
Koranic	2.9%	5.3%	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
6.30	6.17	0.01	0.00	0.05	0.00	0.47	0.00
Sold Ratio (%)	5.5	0.0	0.0	76.3	0.0	63.9	0.0
Irrigation (%)	25.6	50.0	0.0	100.0	0.0	50.0	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.83	11.33	15.83	12.17	1.67	0.17	1.67	45.67

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	83%	33%	0%	33%	83%	0%
Satisfaction	0%	100%	100%		50%	40%	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	yes
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.	980	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location									
Latitude	N31	12	34	Longitude	W8	9	18	Altitude	1,050 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	33	39	Agriculture	2.50	household	Pist	2.5	(km)
Population	320	387	Non-agri.	1.33	household	Path	0.0	(km)
			Total	3.83	household	Total	2.5	(km)

House Conditions						Annual Budget per Household		
House size:household		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Plural	Agri.	2,987	36.2%
5	170	100%	0%	83%	17%	Livestock	4,593	55.7%
						Forestry	0	0.0%
						Others	667	8.1%
						Total	8,247	100.0%
						Expend	4,967	
						Saving	3,280	

Education Ratio						
Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	61.4%	50.0%	88.2%			
Koranic	35.6%	50.0%	11.8%			
Fundamental	13.3%	14.3%	11.8%	50.0%	33.3%	100.0%

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
3.00	2.29	0.08	0.00	0.04	0.08	0.18	0.00	2.68
Sold Ratio (%)	8.4	0.0	0.0	77.2	88.0	68.2	0.0	
Irrigation (%)	16.7	50.0	0.0	100.0	100.0	100.0	0.0	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.17	3.33	6.17	6.50	1.33	0.00	0.00	18.50

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%	83%	0%	67%	33%	17%
Satisfaction	0%	100%	60%		50%	50%	0%
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	100%	0%
Electricity	100%	0%

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.	990	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	11	10	Longitude	W8	10	42	Altitude	1,220	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	50	59
Population	360	436

Working Member per household

Agriculture	3.20	household
Non-agri	0.80	household
Total	4.00	household

Access (km)

Pist	1.5	(km)
Path	1.7	(km)
Total	3.2	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	130	40%	60%	60%	40%

Annual Budget per Household

Agri.	13,927	62.0%
Livestock	8,548	38.0%
Forestry	0	0.0%
Others	0	0.0%
Total	22,475	100.0%
Expend.	11,120	
Saving	11,355	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	72.4%	53.3%	92.9%			
Koranic	27.6%	46.7%	7.1%			
Fundamental	10.3%	13.3%	7.1%	25.0%	0.0%	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
3.70	3.32	0.18	0.00	0.00	0.00	1.21	0.38	5.09
Sold Ratio (%)	10.0	0.0	0.0	0.0	0.0	93.6	98.5	
Irrigation (%)	8.0	75.0	0.0	0.0	0.0	50.0	16.7	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.80	4.00	17.00	6.80	1.00	0.20	0.00	31.80

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	60%	60%	0%	0%	80%	40%	0%
Satisfaction	67%	33%	0%		75%	50%	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.	1000	Douar
C.R.	34	Ameghrass
		Cercle
		3
		Amizmiz

Location

Latitude	N31	10'	39	Longitude	W8	11'	37	Altitude	1,480	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	50	59
Population	600	726

Working Member per household

Agriculture	2.17	household
Non-agri.	1.50	household
Total	3.67	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
5	227	67%	33%	100%	0%

Annual Budget per Household

Agri.	17,990	64.7%
Livestock	6,742	24.2%
Forestry	0	0.0%
Others	3,083	11.1%
Total	27,815	100.0%
Expend.	17,250	
Saving	10,565	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	62.7%	48.4%	85.0%			
Koranic	37.3%	51.6%	15.0%			
Fundamental	27.5%	35.5%	15.0%	100.0%	100.0%	100.0%

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
7.42	4.67	0.92	0.00	0.50	1.58	0.00	0.10
Sold Ratio (%)	0.0	0.0	0.0	79.1	91.6	0.0	95.5
Irrigation (%)	6.5	83.3	0.0	75.0	87.5	100.0	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.17	0.83	21.67	7.83	1.33	0.00	0.00	33.83

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%	83%	0%
Satisfaction	0%	67%	0%		0%	80%	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	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.	1010	Douar
C.R.	35	Sidi Badhaj
		Cercle
		3
		Amizmiz

Location

Latitude	N31	15'	48"	Longitude	W8	12'	11"	Altitude	850	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	30	36
Population	220	266

Working Member per household

Agriculture	2.50	household
Non-agri.	0.67	household
Total	3.17	household

Access (km)

Pist	2.5	(km)
Path	0.5	(km)
Total	3.0	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
4	269	100%	0%	92%	8%

Annual Budget per Household

Agri.	18,482	70.0%
Livestock	6,699	25.4%
Forestry	0	0.0%
Others	1,225	4.6%
Total	26,406	100.0%
Expend.	10,346	
Saving	16,060	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12) years old		
	Total	Male	Female	Total	Male	Female
None	64.0%	36.8%	91.9%			
Koranic	36.0%	63.2%	8.1%			
Fundamental	32.0%	55.3%	8.1%	45.5%	80.0%	16.7%

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,	
6.30	4.46	0.13	0.00	0.00	0.75	0.05	0.40	5.78
Sold Ratio (%)	11.0	0.0	0.0	0.0	97.0	86.9	87.6	
Irrigation (%)	6.3	100.0	0.0	100.0	87.5	100.0	71.4	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mula Donkey	Horse	Others	Total
1.67	8.33	1.25	4.25	1.58	0.17	0.00	17.25

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%	50%	100%	25%	100%	25%
Satisfaction	0%	92%	100%		0%	50%	100%
Quality		good				good	
Shortage		yes				yes	
Frequency (yr)		1/1				1/6	

<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.	1020	Douar
C.R.	35	Sidi Badhaj
		Tachibit Echattoui
		Cercle
		3
		Amizmiz

Location

Latitude	N31	16'	6"	Longitude	W8	12'	11"	Altitude	850	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	30	36
Population	150	181

Working Member per household

Agriculture	3.67	household
Non-agri.	1.17	household
Total	4.83	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
6	225	100%	0%	83%	17%

Annual Budget per Household

Agri.	23,731	66.7%
Livestock	6,673	18.8%
Forestry	0	0.0%
Others	5,167	14.5%
Total	35,571	100.0%
Expend.	12,400	
Saving	23,171	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	44.7%	33.3%	58.8%			
Koranic	55.3%	66.7%	41.2%			
Fundamental	50.0%	57.1%	41.2%	83.3%	100.0%	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,	
8.33	8.00	0.00	0.00	0.08	0.86	0.25	0.17	9.36
Sold Ratio (%)	10.0	0.0	0.0	100.0	94.0	74.3	98.0	
Irrigation (%)	10.0	0.0	0.0	100.0	100.0	60.0	100.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.33	6.00	0.00	31.00	0.50	0.00	0.00	39.83

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%	33%	100%	50%	100%	33%
Satisfaction	0%	100%	100%		0%	33%	100%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/6		

<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.	1030	Douar	Asgoune		
C.R.	35	Sidi Badhaj		Cercle	3
		Amizmiz			

Location

Latitude	N31	16'	49"	Longitude	W8	11'	15"	Altitude	820 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	30	36
Population	270	327

Working Member per household

Agriculture	2.43	household
Non-agri.	0.86	household
Total	3.29	household

Access (km)

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

House Conditions

House size household		Structure of House		Number of houses	
Room/s	(m2)	Tradition	Modern	Single	Plural
7	337	86%	14%	71%	29%

Annual Budget per Household

Agri.	6,350	15.3%
Livestock	12,540	30.1%
Forestry	0	0.0%
Others	22,729	54.6%
Total	41,619	100.0%
Expend.	13,624	
Saving	27,994	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	72.7%	56.2%	88.2%			
Koranic	27.3%	43.8%	11.8%			
Fundamental	22.7%	37.5%	8.8%	18.8%	37.5%	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,	
7.92	7.30	0.26	0.00	0.04	0.03	0.22	0.05	7.91
Sold Ratio (%)	11.6	0.0	0.0	77.2	88.0	75.9	97.8	
Irrigation (%)	15.4	100.0	0.0	0.0	100.0	71.4	100.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
3.29	31.86	1.57	5.14	2.00	0.00	0.00	43.86

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	29%	86%	100%	100%	86%	29%	14%
Satisfaction	0%	67%	86%		0%	0%	100%
Quality	good				poor		
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	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1			
No.	1040	Douar	Ait Aamara Loued		
C.R.	35	Sidi Badhaj	Cercle	3	Amizmiz

Location

Latitude	N31	17	27	Longitude	W8	9	55	Altitude	750	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	80	95
Population	420	508

Working Member per household

Agriculture	1.78	household
Non-agri.	1.00	household
Total	2.78	household

Access (km)

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

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	394	78%	22%	67%	33%

Annual Budget per Household

Agri	19,763	57.1%
Livestock	11,791	34.1%
Forestry	0	0.0%
Others	3,050	8.8%
Total	34,604	100.0%
Expend.	17,989	
Saving	16,615	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	70.3%	65.1%	77.4%			
Koranic	29.7%	34.9%	22.6%			
Fundamental	24.3%	27.9%	19.4%	26.7%	28.6%	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,	
6.23	5.36	0.06	0.00	0.08	0.12	0.72	0.57	6.91
Sold Ratio (%)	5.6	0.0	0.0	84.8	92.0	65.6	99.4	
Irrigation (%)	7.0	100.0	0.0	100.0	100.0	65.2	100.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.67	27.44	4.44	5.33	1.67	0.00	0.00	41.56

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	89%	89%	100%	56%	67%	22%
Satisfaction	0%	75%	100%		0%	33%	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	yes
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.	1050	Douar
C.R.	35	Sidi Badhaj
		Cercle
		3
		Amizmiz

Location

Latitude	N31	17	32	Longitude	W8	13	8	Altitude	835 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	120	143
Population	680	823

Working Member per household

Agriculture	1.54	household
Non-agri.	0.85	household
Total	2.38	household

Access (km)

Pist	0.3	(km)
Path	0.0	(km)
Total	0.3	(km)

House Conditions

House size-household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	241	85%	15%	85%	15%

Annual Budget per Household

Agri.	17,686	38.0%
Livestock	15,301	32.9%
Forestry	0	0.0%
Others	13,505	29.0%
Total	46,492	100.0%
Expend.	17,646	
Saving	28,845	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	72.3%	65.8%	81.5%			
Koranic	27.7%	34.2%	18.5%			
Fundamental	24.6%	28.9%	18.5%	22.2%	14.3%	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
11.42	11.38	0.05	0.00	0.08	0.07	1.74	0.01
Sold Ratio (%)	34.6	0.0	0.0	86.2	78.5	73.4	94.9
Irrigation (%)	17.2	100.0	0.0	50.0	100.0	44.4	100.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.92	15.85	3.92	25.00	1.23	0.00	0.00	47.92

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	23%	0%	77%	100%	100%	0%	0%
Satisfaction	0%	0%	80%		0%	0%	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	0%
no	100%

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.	1060	Douar
C.R.	35	Sidi Badaj
		Cercle
		3
		Amizmiz

Location							
Latitude	N31	14	47	Longitude	W8	16	9
							Altitude
							930 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	30	36	Agriculture	1.25	household	Pist	3.0	(km)
Population	185	224	Non-agri.	2.25	household	Path	0.0	(km)
			Total	3.50	household	Total	3.0	(km)

House Conditions						Annual Budget per Household		
House size: household		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Plural	Agri.	16,842	39.2%
8	294	100%	0%	75%	25%	Livestock	4,512	10.5%
						Forestry	0	0.0%
						Others	21,650	50.3%
						Total	43,005	100.0%
						Expend.	22,410	
						Saving	20,594	

Education Ratio						
Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	48.4%	50.0%	46.2%			
Koranic	51.6%	50.0%	53.8%			
Fundamental	38.7%	33.3%	46.2%	0.0%	0.0%	#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
9.44	9.44	0.00	0.00	0.00	0.00	1.66	0.00	11.09
Sold Ratio (%)	42.9	0.0	0.0	0.0	0.0	73.7	0.0	
Irrigation (%)	50.0	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
0.75	2.50	0.00	4.50	0.50	0.00	0.00	8.25

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%	50%	100%	50%	0%	0%
Satisfaction	0%	100%	0%		0%	0%	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	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.	1070	Deuar
C.R.	35	Sidi Badhaj
		Ait Amar El Bour
		Cercle
		3
		Amizmitz

Location

Latitude	N31	166'	29	Longitude	W8	13'	24	Altitude	860	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	70	83
Population	492	595

Working Member per household

Agriculture	2.50	/household
Non-agri.	1.20	/household
Total	3.70	/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	(m ²)	Tradition	Modern	Single	Plural
7	300	90%	10%	70%	30%

Annual Budget per Household

Agri.	5,192	14.9%
Livestock	9,936	28.6%
Forestry	0	0.0%
Others	19,670	56.5%
Total	34,798	100.0%
Expend.	17,400	
Saving	17,398	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	61.4%	60.5%	62.5%			
Koranic	38.6%	39.5%	37.5%			
Fundamental	37.1%	36.8%	37.5%	50.0%	33.3%	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	
9.73	8.00	0.00	0.00	0.00	0.00	0.36	0.00	8.36
Sold Ratio (%)	5.8	0.0	0.0	0.0	0.0	77.3	95.5	
Irrigation (%)	20.0	0.0	0.0	0.0	0.0	25.0	100.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.30	16.70	4.20	8.30	1.60	0.00	2.00	34.10

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	30%	10%	90%	100%	80%	10%	10%
Satisfaction	0%	100%	100%		13%	0%	100%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/6		

<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.	1090	Douar	Chouirige		
C.R.	35	Sidi Badhaj		Cercle	3
		Amizmiz			

Location

Latitude	N31	21'	35"	Longitude	W8	10'	47"	Altitude	720 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	120	143
Population	800	968

Working Member per household

Agriculture	2.31	household
Non-agri	0.38	household
Total	2.69	household

Access (km)

Pist	1.2	(km)
Path	0.0	(km)
Total	1.2	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	149	100%	0%	85%	15%

Annual Budget per Household

Agri.	12,098	45.6%
Livestock	7,992	30.1%
Forestry	0	0.0%
Others	6,446	24.3%
Total	26,536	100.0%
Expend.	12,492	
Saving	14,044	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	57.7%	51.4%	63.9%			
Koranic	42.3%	48.6%	36.1%			
Fundamental	32.4%	34.3%	30.6%	22.2%	0.0%	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
10.71	10.23	0.00	0.00	0.04	0.02	0.07	0.20	10.56
Sold Ratio (%)	23.3	0.0	0.0	77.2	88.0	68.2	82.5	
Irrigation (%)	1.5	0.0	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
0.77	17.08	3.92	8.38	1.00	0.00	0.00	31.15

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%	15%	15%	77%
Satisfaction	0%	100%	92%		50%	50%	90%
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	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.	1120	Deuar
C.R.	35	Sidi Badhaj
		Cerele
		3
		Amizmiz

Location							
Latitude	N31	15	55	Longitude	W8	14	11
Altitude	870 (m)						

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	30	36	Agriculture	1.80	household	Pist	0.6	(km)
Population	150	181	Non-agri.	2.00	household	Path	0.0	(km)
			Total	3.80	household	Total	0.6	(km)

House Conditions						Annual Budget per Household		
House size-household		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Plural	Agri.	15,715	15.4%
6	193	80%	20%	80%	20%	Livestock	30,450	29.9%
						Forestry	0	0.0%
						Others	55,730	54.7%
						Total	101,895	100.0%

Education Ratio								
Education Level	Villagers over 7 years old			Children (7-12 years old)				
	Total	Male	Female	Total	Male	Female		
None	60.0%	42.9%	85.7%				Expend.	27,480
Koranik	40.0%	57.1%	14.3%					
Fundamental	40.0%	57.1%	14.3%	33.3%	50.0%	0.0%	Saving	74,415

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
16.32	14.80	0.00	0.00	0.10	0.12	1.04	0.10	16.16
Sold Ratio (%)	21.8	0.0	0.0	75.4	94.0	49.6	95.5	
Irrigation (%)	12.5	0.0	0.0	100.0	100.0	0.0	100.0	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
4.40	24.20	0.00	39.40	1.40	0.00	0.00	69.40

Water Sources, Satisfaction, Water Quality, and Water Shortage							
Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	80%	0%	100%	100%	80%	0%	0%
Satisfaction	50%	0%	40%		50%	0%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/6		

<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	
Degree	yes
	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages			1
No.	1131	Douar	Tarast
C.R.	41	Ait Adel	Cercle
			4
			Ait Ourir

Location

Latitude	N31	33	44	Longitude	W7	12	22	Altitude	1,210	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	45	53
Population	417	505

Working Member per household

Agriculture	2.88	/household
Non-agri.	0.92	/household
Total	3.79	/household

Access (km)

Pist	28.0	(km)
Path	0.0	(km)
Total	28.0	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
8	213	96%	4%	71%	29%

Annual Budget per Household

Agri.	14,322	52.0%
Livestock	8,945	32.5%
Forestry	0	0.0%
Others	4,271	15.5%
Total	27,537	100.0%
Expend.	14,470	
Saving	13,067	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	83.3%	81.3%	85.7%			
Koranic	16.7%	18.7%	14.3%			
Fundamental	9.4%	9.3%	9.5%	20.0%	17.6%	22.2%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
6.67	5.98	0.00	0.00	0.09	0.03	2.97	0.06
Sold Ratio (%)	5.2	0.0	0.0	79.6	88.0	89.4	90.0
Irrigation (%)	3.6	0.0	0.0	100.0	100.0	16.4	0.0

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.08	9.08	26.83	10.63	1.17	0.00	0.00	49.79

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	4%	4%	100%	100%	13%	38%	42%
Satisfaction	0%	0%	83%		0%	67%	70%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/6		

<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	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.	1132	Doar
C.R.	41	Ait Aadel
		Cercle
		4
		Ait Ourir

Location

Latitude	N31	32'	25"	Longitude	W7	12'	53"	Altitude	1,200	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	45	53
Population	387	468

Working Member per household

Agriculture	#DIV/0!	household
Non-agri.	#DIV/0!	household
Total	#DIV/0!	household

Access (km)

Pist	28.0	(km)
Path	3.5	(km)
Total	31.5	(km)

House Conditions

House size/ household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Annual Budget per Household

Agri.	#DIV/0!	#DIV/0!
Livestock	#DIV/0!	#DIV/0!
Forestry	#DIV/0!	#DIV/0!
Others	#DIV/0!	#DIV/0!
Total	#DIV/0!	#DIV/0!
Expend.	#DIV/0!	
Saving	#DIV/0!	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	#DIV/0!	#DIV/0!	#DIV/0!			
Koranic	#DIV/0!	#DIV/0!	#DIV/0!			
Fundamental	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/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,	
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.00
Sold Ratio (%)	0.0	0.0	0.0	0.0	0.0	0.0	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
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	100%	100%	0%	0%	#DIV/0!	#DIV/0!	#DIV/0!
Satisfaction	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!	#DIV/0!
Quality		#DIV/0!				#DIV/0!	
Shortage		#DIV/0!				#DIV/0!	
Frequency (yr)		#DIV/0!				#DIV/0!	

<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	0%	100%
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.	1140	Douar
C.R.	42	Abadour
		Cercle
		4
		Ait Ourir

Location

Latitude	N31	34	56	Longitude	W7	18	42	Altitude	1,110 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	110	131
Population	800	968

Working Member per household

Agriculture	1.94	household
Non-agri.	1.45	household
Total	3.40	household

Access (km)

Pist	17.0	(km)
Path	0.0	(km)
Total	17.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	253	96%	4%	94%	6%

Annual Budget per Household

Agri.	4,261	22.3%
Livestock	4,785	25.0%
Forestry	0	0.0%
Others	10,100	52.8%
Total	19,146	100.0%
Expend.	12,245	
Saving	6,902	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	73.4%	67.8%	80.6%			
Koranic	26.6%	32.2%	19.4%			
Fundamental	20.8%	24.6%	16.0%	30.0%	20.0%	45.0%

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	
5.00	4.54	0.00	0.00	0.00	0.00	0.51	0.00	5.05
Sold Ratio (%)	4.0	0.0	0.0	86.2	0.0	73.4	96.6	
Irrigation (%)	1.6	0.0	0.0	100.0	0.0	32.8	75.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
1.55	4.32	0.91	10.08	1.17	0.00	0.00	18.02

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	0%	98%	55%	0%	47%	17%	8%
Satisfaction	0%	52%	69%		32%	0%	50%
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	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1
No.	1150	Douar
C.R.	43	Zerkten
		Cercle
		4
		Ait Ourir

Location

Latitude	N31	22	32	Longitude	W7	24	16	Altitude	1,550	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	22	26
Population	280	339

Working Member per household

Agriculture	1.50	household
Non-agri.	1.25	household
Total	2.75	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
5	157	100%	0%	100%	0%

Annual Budget per Household

Agri.	10,894	36.6%
Livestock	9,100	30.6%
Forestry	0	0.0%
Others	9,750	32.8%
Total	29,744	100.0%
Expend.	17,349	
Saving	12,395	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	76.2%	58.3%	100.0%			
Koranic	23.8%	41.7%	0.0%			
Fundamental	4.8%	8.3%	0.0%	0.0%	0.0%	#DIV/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,	
1.78	0.75	0.10	0.00	0.25	0.31	0.81	0.06	2.28
Sold Ratio (%)	0.0	0.0	0.0	100.0	100.0	100.0	100.0	
Irrigation (%)	33.3	100.0	0.0	100.0	100.0	0.9	0.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.00	2.75	12.50	5.00	0.25	0.00	0.00	22.50

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%	0%	0%	100%	25%	0%
Satisfaction	0%	50%	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	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.	1160	Douar
C.R.	43	Zerkten
		Cercle
		4
		Ait Ouir

Location									
Latitude	N31	28'	0"	Longitude	W7	19'	28"	Altitude	1,500 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010						
Households	287	341	Agriculture	1.28	household	Pist	13.5	(km)
Population	1,767	2,138	Non-agri.	0.72	household	Path	0.0	(km)
			Total	2.00	household	Total	13.5	(km)

House Conditions						Annual Budget per Household		
House size household		Structure of House		Number of houses				
Rooms	(m2)	Tradition	Modern	Single	Plural	Agri.	4,075	18.7%
7	246	88%	13%	91%	9%	Livestock	12,234	56.1%
						Forestry	550	2.5%
						Others	4,948	22.7%
						Total	21,807	100.0%

Education Ratio								
Education Level	Villagers over 7 years old			Children (7-12 years old)				
	Total	Male	Female	Total	Male	Female		
None	80.1%	77.2%	84.0%				Expend.	15,045
Keranic	19.9%	22.8%	16.0%					
Fundamental	10.2%	11.9%	8.0%	4.7%	8.0%	0.0%	Saving	6,761

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
4.10	3.53	0.29	0.00	0.10	0.05	0.02	0.03	4.03
Sold Ratio (%)	4.7	0.0	0.0	68.6	77.0	88.3	97.2	
Irrigation (%)	10.5	100.0	0.0	100.0	100.0	100.0	44.4	

Number heads of Livestock per household							
Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.53	14.78	28.75	18.31	0.94	0.06	0.00	65.38

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%	22%	44%	0%
Satisfaction	0%	59%	0%		14%	79%	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	100%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1			
No.	1170	Douar			
C.R.	44	Tighdounine		Cercle	4
		Ait Ourir			

Location

Latitude	N31	24	14	Longitude	W7	28	55	Altitude	1,889 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	59	70
Population	300	363

Working Member per household

Agriculture	2.00	household
Non-agri.	0.17	household
Total	2.17	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
8	122	100%	0%	100%	0%

Annual Budget per Household

Agri.	9,807	42.8%
Livestock	12,403	54.1%
Forestry	0	0.0%
Others	700	3.1%
Total	22,910	100.0%
Expend.	13,167	
Saving	9,744	

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%	85.0%			
Koranic	20.0%	26.7%	15.0%			
Fundamental	17.1%	20.0%	15.0%	23.1%	25.0%	22.2%

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)						
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples, Total
0.88	0.67	0.25	0.00	0.13	0.05	0.00	1.35
Sold Ratio (%)	0.0	0.0	0.0	84.2	94.0	0.0	98.3
Irrigation (%)	66.7	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
2.50	16.33	36.67	0.83	0.83	0.00	0.00	57.17

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%	67%	83%	17%
Satisfaction	0%	100%	0%		75%	80%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/6		

<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.	1180	Douar
C.R.	44	Tighdouine
		Cercle
		4
		Ait Ouir

Location

Latitude	N31	20	33	Longitude	W7	26	29	Altitude	1,750	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	40	48
Population	316	382

Working Member per household

Agriculture	2.00	household
Non-agri.	1.20	household
Total	3.20	household

Access (km)

Pist	7.0	(km)
Path	0.5	(km)
Total	7.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
7	172	66%	40%	100%	0%

Annual Budget per Household

Agri.	15,046	24.0%
Livestock	39,200	62.6%
Forestry	0	0.0%
Others	8,400	13.4%
Total	62,646	100.0%
Expend.	20,760	
Saving	41,886	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	91.7%	95.8%	83.3%			
Koranic	8.3%	4.2%	16.7%			
Fundamental	5.6%	0.0%	16.7%	16.7%	0.0%	33.3%

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
196	0.72	0.46	0.00	0.02	0.00	0.10	0.50	1.80
Sold Ratio (%)	0.0	15.0	0.0	75.4	0.0	96.6	90.0	
Irrigation (%)	60.0	100.0	0.0	100.0	0.0	100.0	50.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
7.00	66.00	54.00	0.80	0.80	0.00	0.00	128.60

Water Sources, Satisfaction, Water Quality, and Water Shortage

Hydrological Conditions	Drinking Water				Irrigation Water		
	River	Spring	Well	Tank	River	Spring	Well
Water Source	80%	40%	0%	0%	100%	40%	0%
Satisfaction	100%	100%	0%		80%	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	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.	1190	Douar	Ait Atmane			
C.R.	44		Tighdounine	Cercle	4	Ait Ourir

Location

Latitude	N31	24	16	Longitude	W7	28	55	Altitude	1,550 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	104	124
Population	900	1,089

Working Member per household

Agriculture	2.18	household
Non-agri.	0.73	household
Total	2.91	household

Access (km)

Pist	4.0	(km)
Path	4.0	(km)
Total	8.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(n2)	Tradition	Modern	Single	Plural
8	191	100%	0%	91%	9%

Annual Budget per Household

Agri.	17,339	54.7%
Livestock	8,213	25.9%
Forestry	0	0.0%
Others	6,136	19.4%
Total	31,688	100.0%
Expend.	16,591	
Saving	15,097	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	69.9%	71.1%	68.6%			
Koranic	30.1%	28.9%	31.4%			
Fundamental	19.2%	15.8%	22.9%	18.8%	0.0%	39.0%

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,	
3.75	4.27	0.16	0.09	0.28	1.09	0.18	0.33	6.40
Sold Ratio (%)	0.0	0.0	100.0	65.7	88.2	68.2	90.2	
Irrigation (%)	31.7	100.0	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
1.91	15.00	0.00	16.27	0.91	0.00	0.00	34.09

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%	27%	100%	9%
Satisfaction	0%	91%	0%		100%	82%	0%
Quality	good				good		
Shortage	yes				yes		
Frequency (yr)	1/1				1/6		

<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.	1200	Douar	Ezzaouite
C.R.	44	Tighdounine	Cercle
			4
			Ait Ourir

Location

Latitude	N31	21	24	Longitude	W7	31	55	Altitude	1,690 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	16	19
Population	121	146

Working Member per household

Agriculture	2.33	household
Non-agri.	0.17	household
Total	2.50	household

Access (km)

Pist	0.0	(km)
Path	18.0	(km)
Total	18.0	(km)

House Conditions

House size/household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
9	153	100%	0%	83%	17%

Annual Budget per Household

Agri.	10,731	52.4%
Livestock	9,745	47.6%
Forestry	0	0.0%
Others	0	0.0%
Total	20,476	100.0%
Expend	10,413	
Saving	10,064	

Education Ratio

Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	88.5%	93.3%	81.8%			
Koranie	11.5%	6.7%	18.2%			
Fundamental	3.8%	0.0%	9.1%	33.3%	#DIV/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
4.50	3.58	0.42	0.00	0.08	0.75	0.07	0.13	5.03
Sold Ratio (%)	0.0	25.0	0.0	100.0	91.0	68.2	100.0	
Irrigation (%)	51.1	100.0	0.0	100.0	100.0	100.0	75.0	

Number heads of Livestock per household

Cattle	Sheep	Goat	Poultry	Mule Donkey	Horse	Others	Total
2.33	18.33	15.00	9.17	0.67	0.17	0.00	45.67

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%	67%	83%	0%
Satisfaction	0%	100%	0%		75%	100%	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	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