

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	660	Douar	Tadchert
C.R.	33	Dar Jamaa	Cerele
			3 Amizmiz

Location

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

	Yr 1996	Yr 2010
Households	30	36
Population	200	242

Working Member per household

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

Access (km)

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

House Conditions

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

Annual Budget per Household

Agri.	1,800	18.6%
Livestock	6,326	66.5%
Forestry	0	0.0%
Others	1,438	14.9%
Total	9,664	100.0%
Expend.	6,767	
Saving	2,897	

Education Ratio

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

Land holding and Cultivated land (ha household)

Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
1.43	1.55	0.00	0.00	0.00	0.00	0.10	0.00	1.65
Sold Ratio (%)	12.5	0.0	0.0	0.0	0.0	59.1	0.0	
Irrigation (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Number heads of Livestock per household

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

Water Sources, Satisfaction, Water Quality, and Water Shortage

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

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

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

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	100%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	670	Deuar	Tamsoult
C.R.	33	Dar Jamaa	Cerele
			3
			Amizmit

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)

Fist	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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	Dar Jamaa Ait Ali
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)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive,Alm	Apples,	
5.38	4.88	0.00	0.00	0.00	0.00	0.65	0.00	5.52
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	Deuar	Agadir Ait Brahim
C.R.	33	Dar Jamaa	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 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.	700	Douar	Iouraghan
C.R.	33	Dar Jamaa	Cercle 3 Amizmiz

Location									
Latitude	N31	14	39	Longitude	W8	23	6	Altitude	950 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	1.67	household	Fist	3.0	(km)
Households	18	21	Non-agri.	0.33	household	Path	0.0	(km)
Population	80	97	Total	2.00	household	Total	3.0	(km)

House Conditions						Annual Budget per Household		
House size-household		Structure of House		Number of houses		Agri.	4,011	28.2%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	9,560	67.1%
3	173	100%	0%	100%	0%	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%			
Keranic	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
Seld 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	Deuar	Imiki
C.R.	33	Dar Jamaa	Cercle
			3
			Amizmir

Location

Latitude	N31	15	21	Longitude	W8	23	43	Altitude	880	(m)
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Households and Population

	Yr 1996	Yr 2010
Households	50	59
Peupafion	500	605

Working Member per household

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

Access (km)

Pist	0.7	(km)
Path	0.0	(km)
Total	0.7	(km)

House Conditions

House size:household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
6	309	86%	14%	86%	14%

Annual Budget per Household

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 (7-12years old)		
	Total	Male	Female	Total	Male	Female
None	58.5%	31.8%	89.5%			
Keranic	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				1/1		

<Environmental Conditions informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation

yes	0%
no	100%

Forest Condition

Over-cutting	no
Degree	none

Possible Alternative Energy of Firewood

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

Damages by Natural Disasters

Disasters	yes
Floods	0%
Landslide	0%

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	720	Douar	
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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoss	Olive, Alm.	Apples,	Total
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	Boukhelf
C.R.	33	Dar Jamaa	Cercle
			3
			Amizuz

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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Afrn.	Apples,	Total
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)						

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	1.00	household	Pist	2.5	(km)
Households	22	26	Non-agri.	0.33	household	Path	0.0	(km)
Population	150	181	Total	1.33	household	Total	2.5	(km)

House Conditions						Annual Budget per Household		
House size-household		Structure of House		Number of houses		Agri.	6,335	38.7%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	6,888	42.1%
4	203	100%	0%	67%	33%	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
Nene	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	6.20
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 Denkey	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%

Over-grazing

yes	
Degree	fair

Damages by Natural Disasters

Disasters	yes
Floods	100%
Landslide	0%

Inventory concerned on Social and Environmental Aspects

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

Location										
Latitude	N31	13	35	Longitude	W8	22	5	Altitude	1,040	(m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	3.09	household	Pist	3.5	(km)
Households	100	119	Non-agri.	1.36	household	Path	0.0	(km)
Population	700	847	Total	4.45	household	Total	3.5	(km)

House Conditions						Annual Budget per Household		
House size-household		Structure of House		Number of houses		Agri.	5,201	25.0%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	8,096	38.9%
5	169	91%	9%	91%	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%			
Koranic	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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>		Opinion of Leader on Irrigation water for Hydropower Generation	
Awareness of over deforestation causing soil erosion =	yes	100%	yes
	no	0%	no

Forest Condition		Possible Alternative Energy of Firewood		Damages by Natural Disasters	
Over-cutting	no	Energy	yes	no	Disasters
Degree	none	Gas	0%	100%	Floods
		Electricity	100%	0%	Landslide
Over-grazing	yes				
Degree	fair				

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	770	Donar	Ait MBarek
C.R.	33	Dar Janaa	Cercle 3 Amizniz

Location										
Latitude	N31	13'	42"	Longitude	W8	21'	56"	Altitude	1,000	(m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	6.00	household	Pist	3.5	(km)
Households	30	36	Non-agri.	0.20	household	Path	0.4	(km)
Population	120	145	Total	6.20	household	Total	3.9	(km)

House Conditions						Annual Budget per Household		
House size: household		Structure of House		Number of houses		Agri	4,155	14.0%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	8,963	30.2%
5	184	80%	20%	100%	0%	Forestry	0	0.0%
						Others	16,550	55.8%
						Total	29,668	100.0%

Education Ratio							Expend.	12,762	
Education Level	Villagers over 7 years old			Children (7-12 years old)			Saving	16,506	
	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 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.	780	Douar	Agadir Ait Bourd
C.R.	33	Dar Jamaa	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					Annual Budget per Household			
House size: household		Structure of House		Number of houses		Agri.	5,109	28.1%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	3,710	20.4%
5	118	75%	25%	100%	0%	Forestry	0	0.0%
						Others	9,375	51.5%
						Total	18,194	100.0%
						Expend	10,800	
						Saving	7,394	

Education Ratio						
Education Level	Villagers over 7 years old			Children (7-12 years old)		
	Total	Male	Female	Total	Male	Female
None	87.3%	82.4%	100.0%			
Koranic	12.5%	17.6%	0.0%			
Fundamental	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Land holding and Cultivated land (ha household)								
Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
4.38	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 informed by Village Leader>		Opinion of Leader on Irrigation water for Hydropower Generation.		
Awareness of over deforestation causing soil erosion =	yes	100%	yes	0%
	no	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	Afella Ouassif
C.R.	33	Dar Jamaa	Cercle 3 Annizimiz

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	3.3 (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 Land (ha)	Cultivated Crops (ha household)							
	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	1.71
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	Afella Ighil
C.R.	34	Ameghrass	Cercle 3 Amizmit

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

Agi	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	10.42
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	0.60	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	Anfeg
C.R.	34	Ameghrass	Cercle
		3	Amizmiz

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)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples,	
9.00	4.00	1.58	0.17	0.25	0.00	0.50	0.00	6.50
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	Aguersouak
C.R.	34	Ameghrass	Circle 3 Amizmiz

Location							
Latitude	N31	12	32	Longitude	W8	10	25
				Altitude	970	(m)	

Households and Population			Working Member per household			Access (km)	
	Yr 1996	Yr 2010	Agriculture	1.80	household	Pist	0.0 (km)
Households	20	24	Non-agri.	1.00	household	Path	0.4 (km)
Population	100	121	Total	2.80	household	Total	0.4 (km)

House Conditions						Annual Budget per Household		
House size household		Structure of House		Number of houses		Agri.	7,334	47.3%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	7,784	50.2%
4	139	100%	0%	80%	20%	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
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	
Irigation (%)	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>			Opinion of Leader on Irrigation water for Hydropower Generation		
Awareness of over deforestation causing soil erosion =	yes	100%	yes	0%	
	no	0%	no	100%	

Forest Condition		Possible Alternative Energy of Firewood		Damages by Natural Disasters		
Over-cutting	no	Energy	yes	no	Disasters	yes
Degree	none	Gas	100%	0%	Floods	0%
		Electricity	100%	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	Ameghrass	Cercle
			3 Amizmiz

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	0.86	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	8.84
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 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.	851	Douar	Oumast
C.R.	34	Ameghrass	Cercle 3 Amizmiz

Location									
Latitude	N31	13'	31	Longitude	W8	10'	36	Altitude	940 (m)

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			
Recons	(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%	56%	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	Ait Zitoun
C.R.	34	Ameghrass	Cercle
		3 Amizouiz	

Location

Latitude	N31	13	13	Longitude	W8	16	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%			
Keranic	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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

Over-grazing	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%

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	860	Douar	Tagadirt (Ait Bouimzgan)
C.R.	34	Ameghrass	Cercle 3 Amizmit

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

	household
Agriculture	3.00
Non-agri.	1.33
Total	4.33

Access (km)

	(km)
Pist	2.8
Path	2.2
Total	5.0

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m ²)	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)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Aln.	Apples,	
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	Zacuil
C.R.	34	Ameghrass	Cerele
			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%			
Keranic	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
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 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	#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	Deuar	Izalaghan (Dar Brahim Ou Ali)
C.R.	34	Amoghass	Cerele 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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
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.	889	Douar	Tigoudet (Ben said, Zyoub-I)
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%			
Keranic	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	3.21
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	Deour	Amezi
C.R.	34	Ameghrass	Cercle 3 Amizmiz

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

Households and Population

	Yr 1996	Yr 2010
Households	36	43
Population	181	219

Working Member per household

Agriculture	3.14	household
Non-agri.	1.00	household
Total	4.14	household

Access (km)

Pist	2.8	(km)
Path	0.5	(km)
Total	3.3	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	Tradition	Modern	Single	Plural
5	162	71%	29%	100%	0%

Annual Budget per Household

Agri.	2,776	21.5%
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	Cultivated Crops (ha household)							
Land (ha)	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 Irigation 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	Agouni
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%			
Koranic	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples,	Total
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 informed by Village Leader>

Awareness of over deforestation causing soil erosion =

yes	100%
no	0%

Opinion of Leader

on Irrigation water for Hydropower Generation.

yes	0%
no	100%

Forest Condition

Over-cutting	yes
Degree	fair

Possible Alternative Energy of Firewood

Energy	yes	no
Gas	100%	0%
Electricity	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	Chaabat Tarik (Talet N'Tghharast)
C.R.	34	Ameghrass	Cercle 3 Amizmiz

Location									
Latitude	N31	15	7	Longitude	W8	9	41	Altitude	830 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	2.67	household	Pist	5.0	(km)
Households	53	63	Non-agri	0.83	household	Path	0.0	(km)
Population	254	307	Total	3.50	household	Total	5.0	(km)

House Conditions						Annual Budget per Household		
House size: household		Structure of House		Number of houses		Agri.	4,054	30.0%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	5,797	43.0%
7	258	67%	33%	83%	17%	Forestry	0	0.0%
						Others	3,640	27.0%
						Total	13,491	100.0%

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	29%	0.0%	5.6%	50.0%	0.0%	100.0%

Expend.	12,442	
Saving	1,049	

Land holding and Cultivated land (ha household)								
Total Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Aln.	Apples	Total
4.46	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>		Opinion of Leader on Irrigation water for Hydropower Generation.	
Awareness of over deforestation causing soil erosion =		yes	0%
		no	100%

Forest Condition		Possible Alternative Energy of Firewood		Damages by Natural Disasters		
Over-cutting	no	Energy	yes	no	Disasters	yes
Degree	none	Gas	0%	100%	Floods	0%
		Electricity	100%	0%	Landslide	0%
Over-grazing	yes					
Degree	severe					

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	920	Douar	Ighil Sdidene (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.	1,068	11.6%
Livestock	5,793	63.0%
Forestry	0	0.0%
Others	2,333	25.4%
Total	9,195	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	
Irrigation (%)	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	Deuar	Tizi
C.R.	34	Ameghrass	Cercle
			3
			Amizanz

Location							
Latitude	N31	13'	33	Longitude	W8	10'	13
							Altitude
							930 (m)

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 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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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	Douar	Aghbatou
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	4.25
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	Ait Hsain
C.R.	34	Ameghrass	Cercle 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)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	
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%
Lan. slide	0%

Over-grazing	yes
Degree	fair

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	960	Deuar	Ait Boukker
C.R.	34	Ameghrass	Cerele 3 Amizmiz

Location									
Latitude	N31	12	11	Longitude	W8	9	24	Altitude	1,160 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	5.67	household	Pist	2.5	(km)
Households	14	17	Non-agri.	2.00	household	Path	1.2	(km)
Population	80	97	Total	7.67	household	Total	3.7	(km)

House Conditions						Annual Budget per Household		
House size:household		Structure of House		Number of houses		Agri.	5,656	25.2%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	10,820	48.1%
8	217	100%	0%	67%	33%	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 (7-12years 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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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 inferred by Village Leader>			Opinion of Leader on Irrigation water for Hydropower Generation.			
Awareness of over deforestation causing soil erosion =			yes	100%	yes	#DIV/0!
			no	0%	no	#DIV/0!

Forest Condition	
Over-cutting	yes
Degree	fair
Over-grazing	yes
Degree	severe

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

Damages by Natural Disasters	
Disasters	yes
Floods	0%
Landslides	0%

Inventory concerned on Social and Environmental Aspects

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

Location							
Latitude	N31	12	26	Longitude	W8	8	8
				Altitude	1,050	(m)	

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	3.00	/household	Pist	2.5	(km)
Households	33	39	Non-agri	0.83	/household	Path	2.5	(km)
Population	152	184	Total	3.83	/household	Total	5.0	(km)

House Conditions					Annual Budget per Household			
House size/household		Structure of House		Number of houses		Agri.	5,180	27.3%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	7,197	37.9%
6	178	100%	0%	83%	17%	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%			
Keranic	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	6.69
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>		Opinion of Leader on Irrigation water for Hydropower Generation.	
Awareness of over deforestation causing soil erosion =	yes	100%	yes
	no	0%	no

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	Tamsoulte
C.R	34	Ameghrass	Cercle 3 Amizmiz

Location

Latitude	N31	12	34	Longitude	W8	9	18	Altitude	1,050 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	33	39
Population	320	387

Working Member per household

Agriculture	2.50	household
Non-agri.	1.33	household
Total	3.83	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
5	170	100%	0%	83%	17%

Annual Budget per Household

Agri.	2,987	36.2%
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	64.4%	50.0%	88.2%			
Keranic	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 Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
3.00	2.29	0.08	0.00	0.04	0.03	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	Herse	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

Over-grazing	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%

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	990	Douar	Tizgui
C.R.	34	Ameghrass	Cercle
			3
			Amizmiz

Location										
Latitude	N31	11'	10	Longitude	W8	10'	42	Altitude	1,220	(m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	3.20	household	Pist	1.5	(km)
Households	50	59	Non-agri.	0.80	household	Path	1.7	(km)
Population	360	436	Total	4.00	household	Total	3.2	(km)

House Conditions						Annual Budget per Household		
House size household		Structure of House		Number of houses		Agri	13,927	62.0%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	8,548	38.0%
5	130	40%	60%	60%	40%	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>		Opinion of Leader on Irrigation water for Hydropower Generation.	
Awareness of over deforestation causing soil erosion =	yes	100%	yes
	no	0%	no

Forest Condition		Possible Alternative Energy of Firewood		Damages by Natural Disasters	
Over-cutting	no	Energy	yes	no	Disasters
Degree	none	Gas	100%	0%	Floods
		Electricity	0%	100%	Landslide
Over-grazing	yes				
Degree	fair				

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	1060	Deuar	Ait Tirghit
C.R.	34	Ameghrass	Cerele 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	7.77
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	Tachibit Kabli
C.R.	35	Sidi Badhaj	Cercle 3 Amizniz

Location									
Latitude	N31	15'	48	Longitude	W8	12'	11	Altitude	850 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	2.50	household	Pist	2.5	(km)
Households	30	36	Non-agri.	0.67	household	Path	0.5	(km)
Population	220	266	Total	3.17	household	Total	3.0	(km)

House Conditions						Annual Budget per Household		
House size:household		Structure of House		Number of houses		Agi	18,482	70.0%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	6,699	25.4%
4	269	100%	0%	92%	8%	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%			
Keranic	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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	Mule 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
Over-grazing	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%

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	1020	Deuar	Tachbit Echsteui
C.R.	35	Sidi Badhaj	Cerele 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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alin.	Apples	Total
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	74.5	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	Asgoone
C.R.	35	Sidi Badhyj	Cercle
			3
			Amizmiz

Location							
Latitude	N31	16	49	Longitude	W8	11	15
Altitude	820 (m)						

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		
Rooms	(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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
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	83.0	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	Fank	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
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 Irigation 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	Deuar	Igouder
C.R.	35	Sidi Badhaj	Cerele
			3
			Amizimz

Location

Latitude	N31	17	32	Longitude	W8	13	8	Altitude	835 (m)
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Households and Population		Working Member per household		Access (km)		
	Yr 1996	Yr 2010	Agriculture	1.54	household	
Households	120	143	Non-agri.	0.85	household	
Population	680	823	Total	2.38	household	
					Pist	0.3 (km)
					Path	0.0 (km)
					Total	0.3 (km)

House Conditions				Annual Budget per Household				
House size household		Structure of House		Number of houses		Agri.	17,686	38.0%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	15,301	32.9%
5	241	85%	15%	85%	15%	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)							Total
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm	Apples,	
11.42	11.38	0.05	0.00	0.08	0.07	1.74	0.01	13.33
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

Over-grazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	1060	Douar	Lakaama
C.R.	35	Sidi Badhaj	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	Agriculture	1.25	household	Pist	3.0	(km)
Households	30	36	Non-agri.	2.25	household	Path	0.0	(km)
Population	185	224	Total	3.50	household	Total	3.0	(km)

House Conditions						Annual Budget per Household		
House size household		Structure of House		Number of houses		Agri.	16,842	39.2%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	4,512	10.5%
8	294	100%	0%	75%	25%	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	Deouar	Ait Amar El Bour
C.R.	35	Sidi Badhaj	Cerele 3 Amizmit

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

	2.50	household
Agriculture	1.20	household
Non-agri.	3.70	household
Total		

Access (km)

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

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(m2)	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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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	Chourige
C R	35	Sidi Badhaj	Cercle 3 Amizmiz

Location							
Latitude	N31	21'	35"	Longitude	W8	10'	47"
Altitude	720 (m)						

Households and Population			Working Member per household			Access (km)	
	Yr 1996	Yr 2010	Agriculture	2.31	household	Pist	1.2 (km)
Households	120	143	Non-agri	0.38	household	Path	0.0 (km)
Population	800	968	Total	2.69	household	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%			
Keranic	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 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	1120	Douar	Lamhamid
C.R.	35	Sidi Bachaj	Circle 3 Amizmitz

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	Agriculture	1.80	household	Pist	0.6 (km)
Households	30	36	Non-agri	2.00	household	Path	0.0 (km)
Population	150	181	Total	3.80	household	Total	0.6 (km)

House Conditions						Annual Budget per Household	
House size household		Structure of House		Number of houses		Agri	15,715 15.4%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	30,450 29.9%
6	193	80%	20%	80%	20%	Forestry	0 0.0%
						Others	55,730 54.7%
						Total	101,895 100.0%
						Expend	27,480
						Saving	74,415

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%			
Keranic	40.0%	57.1%	14.3%			
Fundamental	40.0%	57.1%	14.3%	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, 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-culting	no
Degree	none
Over-grazing	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%

Inventory concerned on Social and Environmental Aspects

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

Location							
Latitude	N31	33	44	Longitude	W7	12	22
							Altitude
							1,210 (m)

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	2.88	household	Pist	28.0	(km)
Households	45	53	Non-agri.	0.92	household	Path	0.0	(km)
Population	417	505	Total	3.79	household	Total	28.0	(km)

House Conditions				Annual Budget per Household				
House size-household		Structure of House		Number of houses		Agri.	14,322	52.0%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	8,945	32.5%
8	213	96%	4%	71%	29%	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	Cultivated Crops (ha household)							
Land (ha)	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	9.14
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	Douar	
		Assaka	
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	Cultivated Crops (ha household)							
Land (ha)	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
#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	Abadou
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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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	Quriz
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)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples,	Total
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	Tabant Ighi
C.R.	43	Zerkten	Cerele
			4 Ait Ourir

Location

Latitude	N31	28'	0	Longitude	W7	19'	28	Altitude	1,500 (m)
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Households and Population

	Yr 1996	Yr 2010
Households	287	341
Population	1,767	2,138

Working Member per household

Agriculture	1.28	household
Non-agri.	0.72	household
Total	2.00	household

Access (km)

Pist	13.5	(km)
Path	0.0	(km)
Total	13.5	(km)

House Conditions

House size household		Structure of House		Number of houses	
Rooms	(n2)	Tradition	Modern	Single	Plural
7	246	88%	13%	91%	9%

Annual Budget per Household

Agri.	4,075	18.7%
Livestock	12,234	56.1%
Forestry	550	2.5%
Others	4,948	22.7%
Total	21,807	100.0%
Expend	15,045	
Saving	6,761	

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%			
Keranic	19.9%	22.8%	16.0%			
Fundamental	10.2%	11.9%	8.0%	4.7%	8.0%	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
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	Ansa
C.R.	44	Tighdouine	Cercle
			4
			Ait Ourit

Location			
Latitude	N31	24	14
Longitude	W7	28	55
Altitude	1,850 (m)		

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	706	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	0.25	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	Deuar	Tidsi
C.R.	44	Tighdouine	Cerele
			4 Ait Ourir

Location

Latitude	N31	26'	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	60%	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%			
Keranic	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 Land (ha)	Cultivated Crops (ha household)							
	W. Cereal	S. Cereal	Legumes	Vegetable	Potatoes	Olive, Alm.	Apples	Total
1.96	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-gazing	no
Degree	none

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	1190	Douar	Ait Almane
C.R.	44	Tighdeouine	Cercle 4 Ait Ourir

Location							
Latitude	N31	24	16	Longitude	W7	28	55
Altitude	1,550 (m)						

Households and Population			Working Member per household			Access (km)		
	Yr 1996	Yr 2010	Agriculture	2.18	household	Pist	4.0	(km)
Households	104	124	Non-agri.	0.73	household	Path	4.0	(km)
Population	900	1,089	Total	2.91	household	Total	8.0	(km)

House Conditions						Annual Budget per Household		
House size household		Structure of House		Number of houses		Agri.	17,339	54.7%
Rooms	(m2)	Tradition	Modern	Single	Plural	Livestock	8,213	25.9%
8	191	100%	0%	91%	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%	30.0%

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
3.75	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>		Opinion of Leader on Irrigation water for Hydropower Generation	
Awareness of over deforestation causing soil erosion =	yes 100%	yes	0%
	no 0%	no	100%

Forest Condition	
Over-cutting	no
Degree	none
Over-grazing	yes
Degree	fair

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

Damages by Natural Disasters	
Disasters	yes
Floods	100%
Landslide	0%

Inventory concerned on Social and Environmental Aspects

Number of Selected Villages		1	
No.	1200	Douar	
C.R.	44	Tighdouine	
		Cercle	4
		Ait Ouir	

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%			
Koranic	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	Tark	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 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