DIALECTE APPRAISAL

Farm presentation

Agro-environnemental evaluation software DIALECTE
Conception by SOLAGRO
Réalised in collaboration with :
IST - Mr. Hochard Laurent
Ferme de lauzeral - 2012 - Ref. 4769

Name	**Mr. Hochard Laurent**	**UAA**	**45 ha**
Denomination		Cereals and oilseeds surface	
Address	Lauzeral	Market garden vegetable surface	
Zip code	82220	Vineyards surface	
Municipality	VAZERAC	Arboriculture surface	
Fax	06 08 75 00 73	**Labour unit**	**5.5**
Type of production	**Mixed-farming - Breeding**	Country	France
Type of production (detail)	Goats	Region	Midi-Pyrénées
		Department	Tarn et Garonne
Type of practices	Conventional farming		
Official quality signs	Label Rouge	Year of reference	2012
Date of inquiry	15/05/2013		
Inquiry made by	Marine and Nuno and Agridiag		
A.E.M. 1	Diversification of crop rotation / grasslands preservation	Institution	IST
A.E.M. 2		Phone number	+351-965661815
		Altitude	
		Water precipitation	443

DIALECTE APPRAISAL

Identity card of the municipality

Municipality	VAZERAC
Municipality number	82189
Superficie (ha)	3275
Forêt (ha)	314
Surface agricole utile –SAU (ha)	2393
Altitude moyenne (m)	148
Nom petite région agricole (PRA)	BAS-QUERCY DE MONTPEZAT
Zone agricole défavorisée	Autres zones défavorisées
Orientation Technico-Economique dominante de la commune (OTEX)	Mixtes
Zone vulnérable Directive « nitrates » 2007	oui
Part des zones Natura 2000 dans la commune (%)	
Score « systèmes agricoles à haute valeur naturelle » (HVN) 1970	12.3
Score « systèmes agricoles à haute valeur naturelle » (HVN) 2000	9.1
Statut « systèmes agricoles à haute valeur naturelle » (HVN) 2000	Non
Part de la SAU classée en Natura 2000 (%)	
Part de la surface toujours en herbe (STH) dans la SAU (%)	11
Parc National ou en Parc Naturel Régional	
Etangs piscoles	Non
Part de prés-vergers dans la SAU (%)	<1%
Densité du bocage	Faible

Canton	Molières
Aléa érosion hydrique du canton en 2000	aléa très faible
Zone en excédent structurel de la Directive « nitrates »	Non
Solde N (kg N /ha SAU)	27
Evolution de la population cantonale 1990-1999 (%)	-2
Evolution de la SAU cantonale 1988-2000 (%)	
Risque d'abandon des terres agricoles	-
Type	Rural

Name of the farm : Ferme de lauzeral

Year of reference : 2012

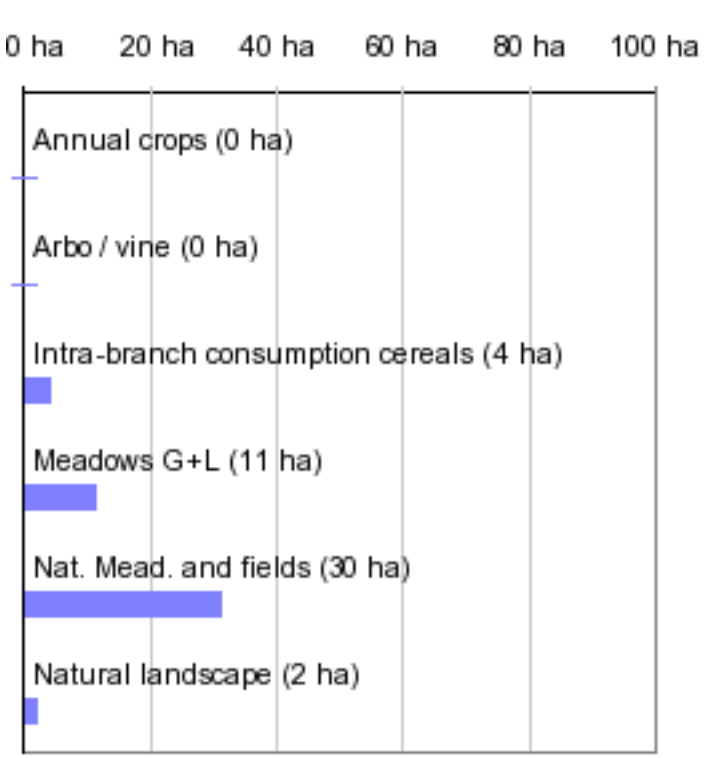
DIALECTE APPRAISAL

Agrosystem operation

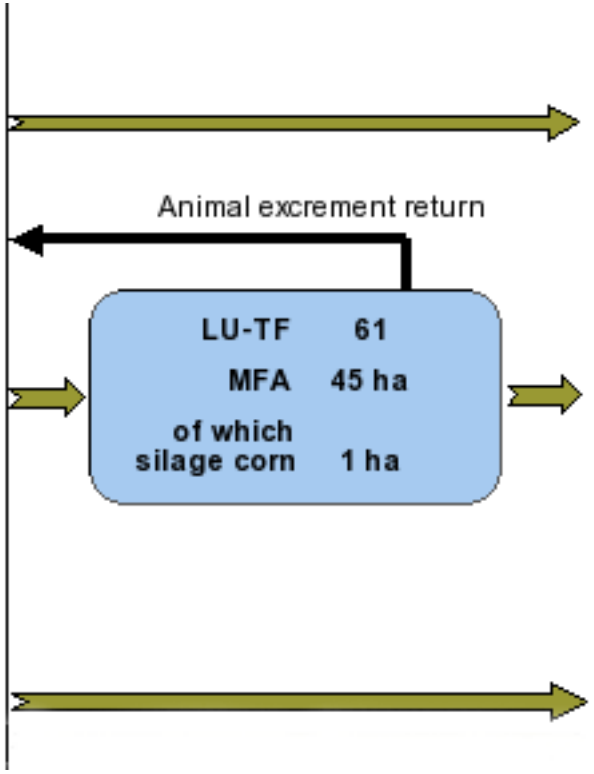
Inputs

Mineral fertilisers		Water consumption	Direct energy	Feed bought		Others	
Nitrogen	1 484 units	10 000 m3/year	15 818 eq-lit fuel	Forage	0 tonnes/year	Veterinary products	0 €/year
Phosphorus	0 units	**Pesticides**		Concentrates	69 tonnes/year	Breeding expenses	0 €/year
Potassium	0 units	0,0 ha/ha UAA					

Crop repartition UAA : 45 ha



Livestock



Productions

Crops sold		
Annual crops (including vegetables)	0	tMS
Meadows (temporary, artificial, MFA)	0	tMS
Arbo. Vineyards	0	tMS

Livestock products		
Milk	100 000	litres
Meat	3 888	kg live
Eggs	0	kg

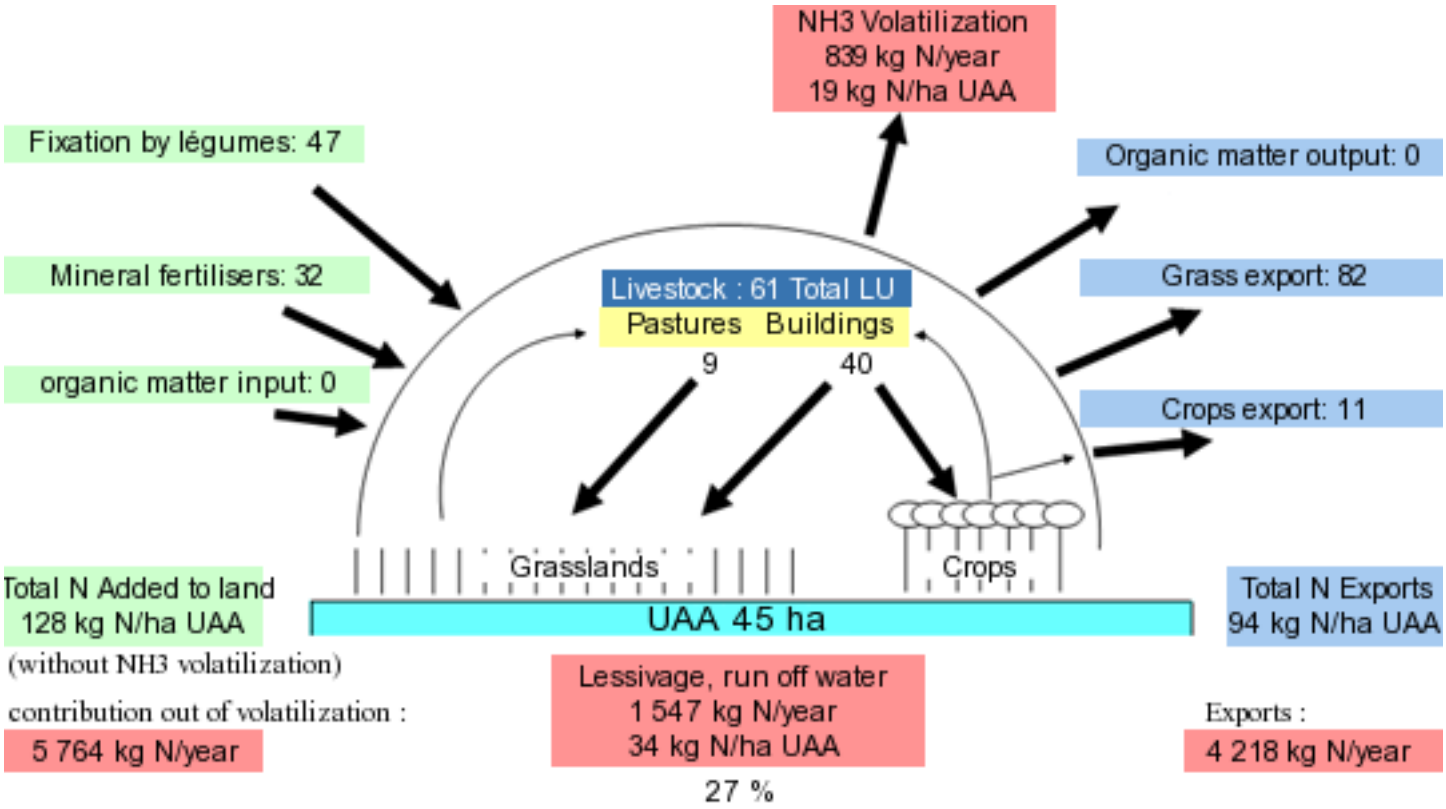
Natural products		
Wood for burning	0	steres /year
Planks, construction wood	0	average m3/year
Manufacture of posts	0	number/year
Country walks		
Drinking water / private springs		
Biologically valuable land	no	

DIALECTE APPRAISAL

Soil surface balance

Overall on UAA	N	P2O5	K2O
Organic matter added to land	2 196	2 184	5 521
Export from land through crops	513	206	663
Export from land through forage	3 705	1 284	6 259
Balance prior to mineral fertiliser	**-2 021**	**694**	**-1 400**
N from legumes added to land	2 114	NC	NC
Chemical fertiliser added to land	1 454	0	0
Balance after adding chemical fertiliser			
global	1 547	694	-1 400
/ ha UAA	34	15	-31
Organic additive / total additive	***60 %***	***100 %***	***100 %***
Controllable	81 %	84 %	84 %

Nitrogen annual flow in the farm(kg N / ha)



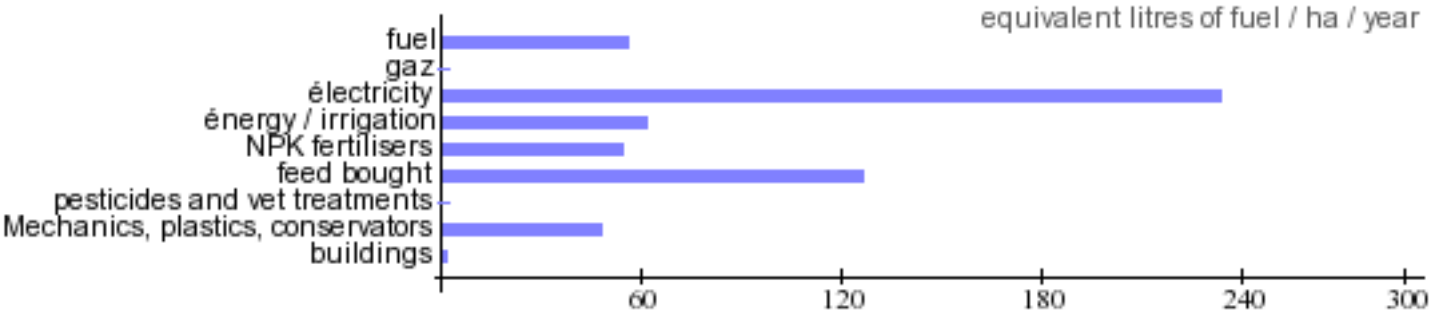
NB : Evaluation made by surface. Grass is exported but not milk and meat. This is not a visible evaluation.

DIALECTE APPRAISAL

Energy consumption (direct and indirect) and energy produced

Simplified energy balance, values expressed in equivalent litres of domestic fuel - Références : PLANETE, SCEES

Energy consu.	/ ha UAA	/ year	
fuel	56	2 536	10%
gaz	0	0	0%
électricity	234	10 532	40%
énergy / irrigation	61	2 750	11%
NPK fertilisers	54	2 423	9%
feed bought	126	5 692	22%
pesticides and vet treatments	0	0	0%
Mechanics, plastics, conservators	48	2 157	8%
buildings	1	65	0%
total input	**581**	**26 155**	**100%**



energy produced	/ ha UAA	/ year	
milk	195	8 765	93%
meat(+eggs)	15	680	7%
cereals, other crops	0	0	0%
Total output	**210**	**9 446**	**100%**

Energy input/output ratio	**0,36**	**(energetic efficiency)**
energy consumption	**26 155**	**eq-lit fuel / an**
	581	**eq-lit fuel / ha UAA**
per 100 lit milk :	26,2	eq-lit fuel
per 100 kg meat :	673	eq-lit fuel
per 100 kg of OPC :	0	eq-lit fuel

Evaluation of the energetic efficiency specific to the system :			
Type	Mixed systems	min	0,0
Evaluation of the energetic efficiency specific to the system	50 %	max	0,0

Renewable energy produced and/or consumed on the farm :				
	wooded areas	**biofuels**	**Renewable energy consumed**	
Net production(TEP / an)	0,0 TEP	0,0 TEP	heating wood	
Surface	0 ha	0 ha	biofuel	
TEP/ha/year	0,0	0,0	solar panels	
			renewable electricity	

DIALECTE APPRAISAL

Livestock feed Appraisal

Grazing livestock LU-RF	Theoretical needs	Forage production on the UAA
35	**181**	184

Forage

quantity in tonnes of dry matter			
Intraconsumed (TDM)	Bought (TDM)	Sold (TDM)	Total of forage consumed
181	0	0	**181**

The theoretical needs must fit to the total of forage consumed.

La production par les surfaces doit correspondre à la quantité de fourrages intraconsommés + la quantité de fourrages vendus.

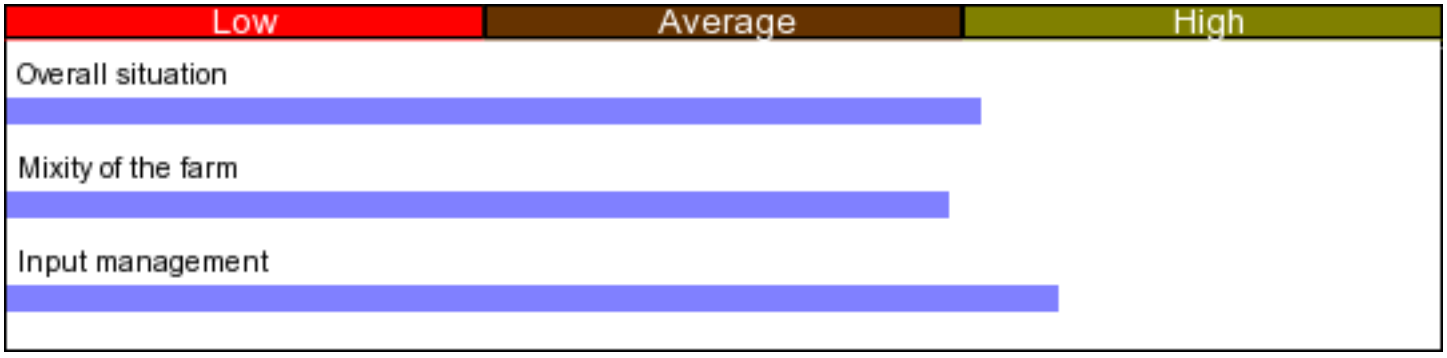
DIALECTE APPRAISAL

Overall situation of the farm with respect to the environment

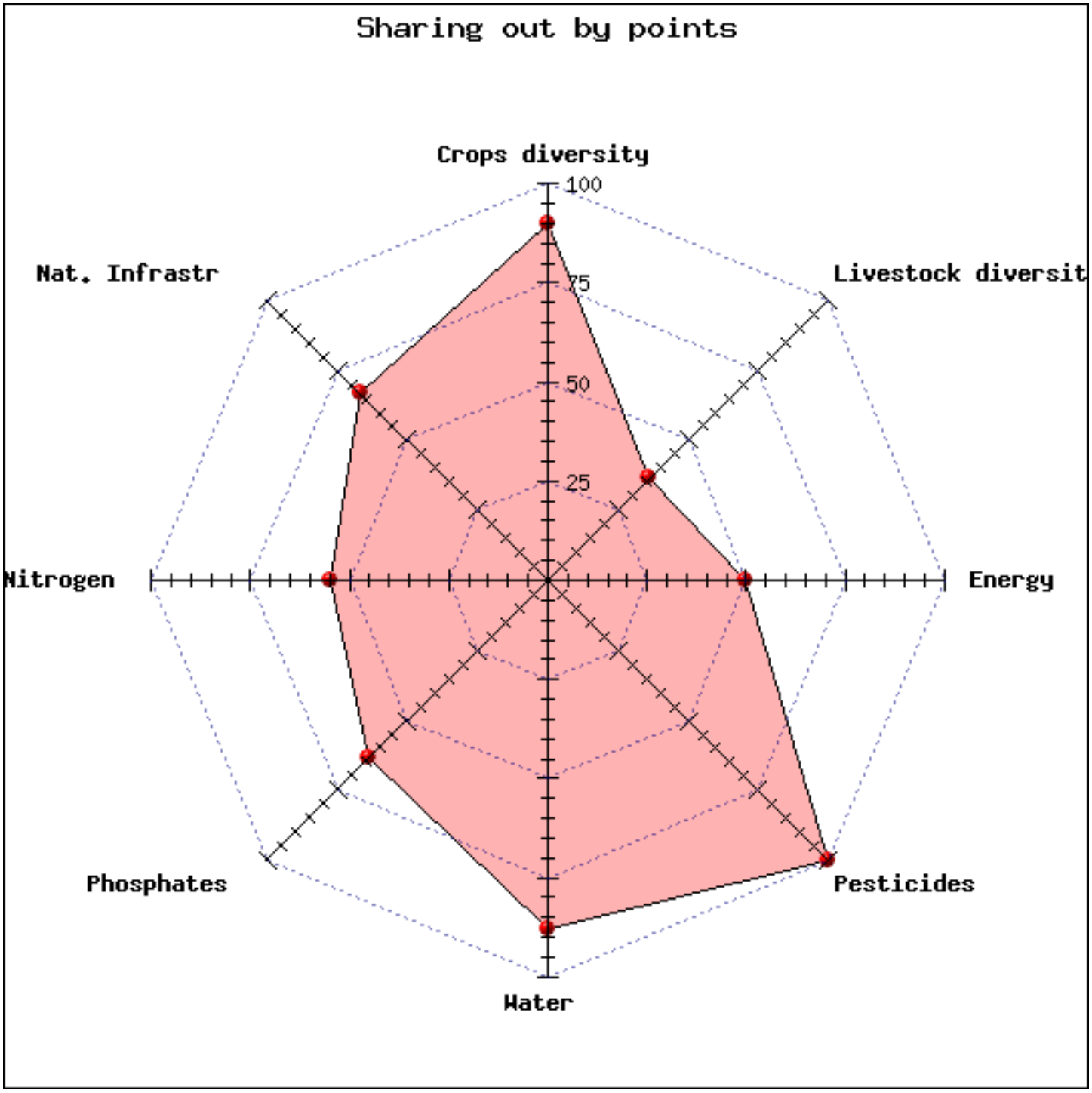
General approach of the farm (system):

	Indicator values	Points	Ceiling
Total Mixity + Inputs :		**68**	**100**
Mixity of the farm		**46**	**70**
Diversity of crops and land coverage		***27***	***30***
Diversity of crops	9,0	12	13
Share of legumes	24%	5	7
Land coverage during winter	100%	10	10
Diversity of livestock., autonomy and ferti. transfers		***8***	***22***
Diversity of livestock production	1	2	3
Sufficiency in forage	100%	4	4
Sufficiency in concentrates	0%	0	11
Bought < 50 km	1	1	1
Transfers through organic matter	27%	1	4
Natural infrastructures		***12***	***18***
Agro-environmental facilities	4%	5	11
Average size of plots (10ha)	2,5 ha	7	7

Input management		**22**	**30**
Nitrogen		***4,1***	***7,5***
Controllable nitrate pressure (mineral + org.)	73	2,1	2,5
Input/output balance for the farm	34	1,4	4,5
Few fractionation	0	0,5	0,5
Phosphates		***1,9***	***3,0***
Controllable phosphate pressure (mineral + org.)	41	1,2	1,5
Input/output balance for the farm	15	0,8	1,5
Water		***5,3***	***6,0***
Volume consumed	10 000 m3		
Membership of management system		no	case 2
Pesticides		***7,5***	***7,5***
Pesticide pressure (PP)	0,0	7,5	7,5
Energy		***3,0***	***6,0***
Total consumption per ha UAA	581	1,5	3,0
Energy efficiency specific to the system	0,36	1,5	3,0



DIALECTE APPRAISAL

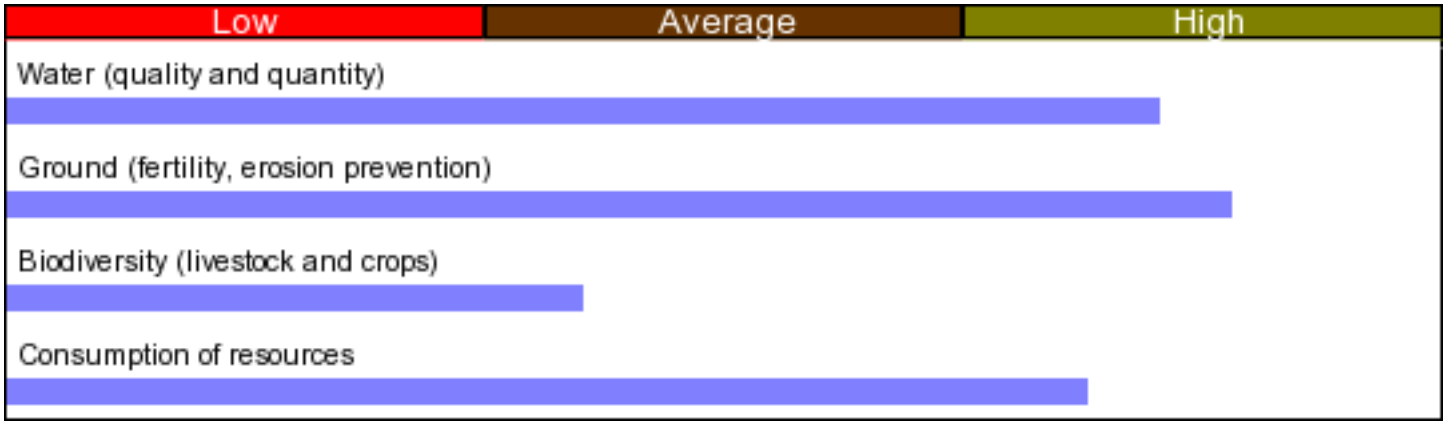


DIALECTE APPRAISAL

Overall situation of the farm with respect to the environment

Environmental theme approach

		Indicator values	Points	Ceiling
Water (quality and quantity)			**16,4**	**20,0**
Nitrates released		54%	1,6	3,0
Phosphates released		65%	1,3	2,0
Residual pesticides		100%	3,0	3,0
Release of effluent associated with rearing		100%	3,0	3,0
Water management		88%	2,6	3,0
Land coverage in winter		100%	1,5	1,5
Plot size of different crops		100%	1,5	1,5
% of stream protected		100%	1,0	1,0
Protection by natural elements		44%	0,9	2,0
Ground (fertility, erosion prevention)			**17,7**	**20,0**
MFA (% UAA)		67%	6,7	10,0
Temporary meadow (%UAA)		24%	2,0	8,0
ATOM controllable(%UAA)		27%	1,1	4,0
Land covered in winter (%UAA)		100%	8,0	8,0
Area sown without ploughing (%UAA)		0%	0,0	8,0
Biodiversity (livestock and crops)			**8,1**	**20,0**
Agro-environmental facilities		44%	3,1	7,0
Permanent pastures with low fertilisation		0%	0,0	7,0
Biologically valuable areas		no	0,0	4,0
No or little use of pesticides		absence	5,0	5,0
Consumption of resources			**15,0**	**20,0**
Direct energy	25 000	15 818	1,5	4,0
Indirect energy	25 000	10 337	2,3	4,0
Phosphates	3 400	0	4,0	4,0
Potash	4 800	0	4,0	4,0
Water	50 000	10 000	3,2	4,0



DIALECTE APPRAISAL

Overall situation of the farm with respect to the environment

Indicateurs HVE issus de Dialecte

	Indicator values	Points	Ceiling
HVE Biodiversité		**13**	**26**
Part de la SAU en IAE	0 %	0	10
Poids de la culture dominante dans la SAU	20 %	5	6
Culture dominante	Sorgho fourrager		
Nombre d'espèces végétales cultivées	13 %	7	7
Nombre d'espèces animales élevées (hors abeille)	1 %	1	3
HVE Fertilisation		**19**	**24**
Bilan azoté	34	10	10
Part de la SAU non fertilisé	16 %	2	10
Part des légumineuses seules dans la SAU	8.89 %	2	2
Part des mélanges contenant des légumineuses dans la SAU	15.56 %	2	2
Couverture automnale des sols et enherbement	100 %	3	3
HVE Phytosanitaire		**13**	**30**
IFT - Grandes cultures et PT - produits herbicides	0	5	5
IFT - Grandes cultures et PT - autres produits phytos	0	5	5
IFT - Vignes - produits herbicides	NC	NC	5
IFT - Vignes - autres produits phytos	NC	NC	5
Part de la SAU non traitée	100 %	10	10
HVE Irrigation		**0**	**10**
Volume eau consommée	10000 %	0	10

DIALECTE APPRAISAL

Overall agro-environmental summary and proposed actions

Strong points / weak points, system / environment and territorial consistency, general approach / environment and actions to be undertaken