

Increase the protein self sufficency for the livestock farms of west of France

1 – The experimental farm of Thorigné d'Anjou (organic cattle farm)



2 – The operationnal group: 4ageprod















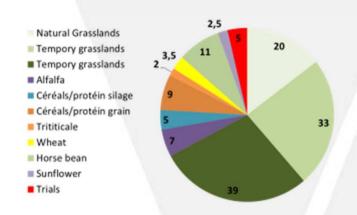


1) Expérimental farm of Thorigné d'Anjou



A research and developement structure, created in 1998

To serve the organic farming developement and sustainable agriculture.



137 ha,
76 % fodder area
24 % grain crops
Low soil potential:
hydromorphic in winter,
dry in summer
680 mm rainfall/year



Limousin cattle of 115 LU: 68 suckler cows + followers + 15 steers / year (31/32 m)

5 ha with analytical tests: Grasslands, crops



A small team: 2 researchs engineers, 3 technicians



Communication: training sessions, tours, open days

Several ways to have self sufficiency

Various flora grassland

+ 1,5 DM/ha
for Various flora
VS
Ryagrass/white clover

Composed of: 5 to 7 species:

Fescue

Ryagrass

White clover

Hybrid clover

Lotier corniculé

Specific diversity brings postive effects:

On the productivity and rusticity

More flexibility in the grass management





Several ways to have self sufficiency

Cereals/protéin crop associations

Associations for forage:

Triticale/Pea/vetch harvest in silage around the 15th june.

8,5 T DM / ha, 9 % of crude protein (CP)



Triticale/pea
with 35 % of Pea
A balanced food concentrate ≈ 14/15 % of CP

Protéin crop : horse bean 2,6 t DM in grain / ha 28 % of CP











2) The operationnal group: 4ageprod



- ✓ Piloted by the PAO : Pôle Agronomique Ouest
- ✓ Objectives: Produce high rate of protein forage and references to feed cattle.
- ✓ Cultures concerned : Alfalfa, clover, association of cereal-leguminous, grass-leguminous and pasture













Specific tests for 4ageprod on the farm





1 - Alafalfa harvest:

Test on two types of Alfalfa harvest. Test on a windrow turner. The aim is to reduce the leaf losses, to converse most protein value.

2 – "Perpe't" : grassland sustainability Increase the duration of grassland productivity with improvement of the practices collection of data: Botanical composition, production during 4 years, in several parcels















Many other actions by lot of partners



- ✓ For exemple :
 - Forage production and zootechnical tests in other experimental farms
 - Monitoring of grassland silage harvest and conservation in 40 farms
 - harmonization of protocol
 - synthesis of data
- ✓ More than 18 Partners work on this project :

Regional chambers of agriculture, Breeding and vegetable Institute, Organic networks, researchers, Cooperatives, livestock advisory, farmers, experimental farms

✓ Duration: 2016-2019 -> In progress, results expected mid 2018









