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- Beef production systems economically sensitive
  - production costs
- Extending grazing during winter time
  - allows to reduce housing and associated costs: feed providing, straw for litter, worktime
- Condition required : managing animal location
  - ability and easiness either to let the animals grazing loose on the swards or to keep them closed in the pads for several days if needed, according to weather conditions

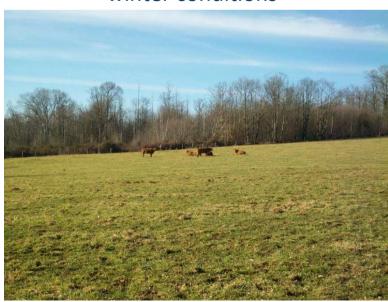




### Linkage of two techniques :

### Winter Grazing + Out Wintering Pads

- WGz exists in some plain areas on gravel soil, but is mostly uncommon on clay soils, or in tough winter conditions
- Confining animals when poaching
- Providing fodder if required
  - not mainly an alternative to barns,
  - better a tool to preserve the sward





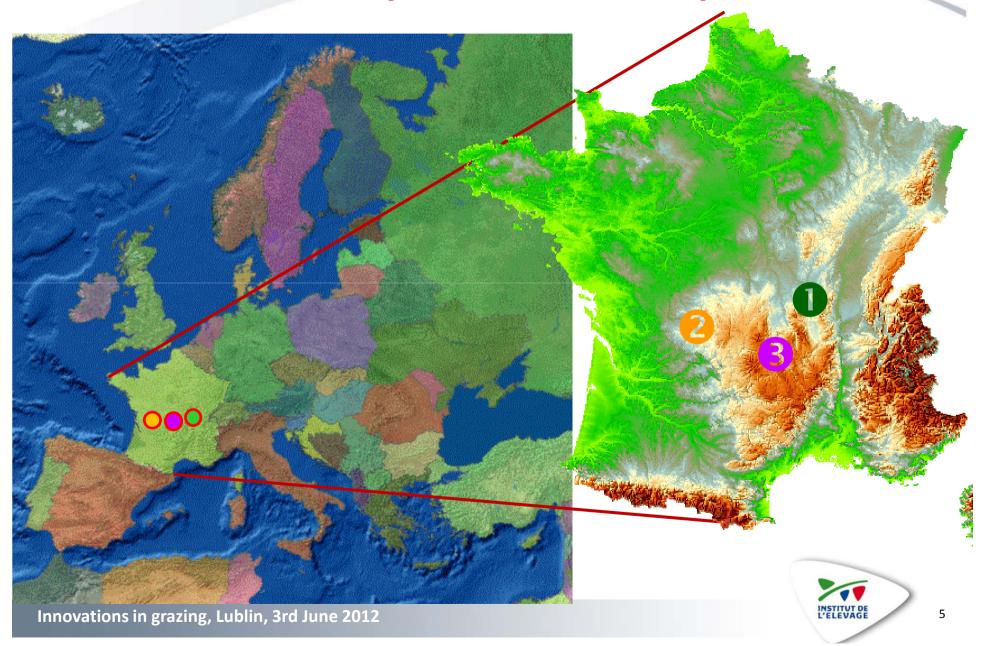


- H: Reduce by half the amount of fodder and straw for litter during wintertime?
- Q: Which impacts on:
  - Animal performance and welfare indicators ?
  - Grassland reaction : soil appearance, fodder production ?
  - Environment : production of leaching pollutants ?
  - Human welfare ?

... according to different ways of managing grazing

**Innovations** 

## An experiment on 3 spots



## 3 situations / 6 « treatments »

#### Fodder available in racks

#### Previous accumulation « on foot »











## **Tries management**

	① Plain / clay	②Plain / Gravel	③ Mid mountain
Animals	2 x 12 heifers 500 kg	2 x 10 pregnant cows	2 x 8 pregnant cows
WGz period	Déc – March 117 d	Déc – Féb 91 d	15 Nov – Jan 81 d
Feeding	Yes	Yes	If required only
Stock rate LU/ha	3,0	3,0	2,5





#### Feeding

	① Plain / clay	②Plain / Gravel	③Mid mountain
Confinement on OWPs	0 – 7 d (« free ») 56 d (« closed »)	0 – 7 d	27 d (Year1) - 7 d (Y2)
Feeding (DM) / Requirements	77 – 88 %	67 – 81 %	8 – 35 %
Grass height at the beginning (cm grassmeter)	7 - 10	11 - 15	20 – 24

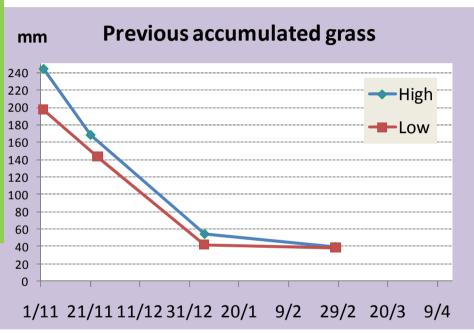
*In regard to H « 50 % » ...* 



#### THE ASSESSMENT OF THE PARTY OF WGz + Fodder → Free OWP mm 240 OWP (closed 220 11/01 - 8/03) 200 180 160 140 confining period 120 100 80 60 40 20 21/12 1/11 9/2 30/3 **→**OWP WGz + Fodder mm -WGz - No 240 **OWP** 220 200 180 160 140 120 100 80 60 40 20 1/11 21/11 11/12 31/12 20/1 9/2 29/2 20/3 9/4

#### First results

#### Height grazing



« On foot stock » quickly decreasing … whatever the situation …



Animal performances ....

	① Heifers	② Pregnant cows	③ Pregnant cows
ADG g/da	500 (Y1) 220 (Y2)		
Body C. variation		≈ <b>0,0</b>	- 0,3 to - 0,4

Compatible with breeding objectives





Animal welfare ....

- no injuries, no foot problem, animals healthy
- animal cleanliness ok ...

... whatever the aspect of litter





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#### First results

Pasture and soil damaging

Evolution of % bare soil seems reversible









Winter Grass and winter grazing....

	①	
Estimated availability		
Tons DM / ha	1,0 - 1,5	
Kg DM / head / day	2,1 – 3,3	
Valued grass		
Kg DM / head / day		
30/11 - 15/12	5,1	
15/12 - 29/03	1,4	
Tons DM / ha on winter grazing period	0,9	



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## Other results coming

Leaching (under the OWP)

#### Animal behaviour









## Questions to be solved

Defining and managing previous « on foot stock »

Managing rotation in wintertime

