



Conclusions:

George and Noel told everyone attending the soil profile that they were happy with the performance of the field which was not the case 2 years ago. We compared 2 fields, one qualified as a good field and one qualified as a problem field. Within 2 years, both fields are equal, the problem field has become a good field, producing good quality hay with high dry matter content.

We can summarize the day with the following words:

- Aerated and crumbly soil
- Deep and dense root system
- Bulk and qualitative production of grass

- Tom STAPLETON : 087 232 80 51

- Mail : bacteriolit@gmail.com



Find testimonies on www.bacteriosol-sobac.com

SOBAC - ZA - 12740 LIOUJAS- FRANCE - TEL. +33 (0)5 65 46 63 30 - contact@sobac.fr



SOIL PROFILE

3rd APRIL 2017

GEORGE and NOEL
COYLE,
Nicholastown, Athy,
Co. Kildare

Commercial Hay
Growers and Mixed
Cereals



George and Noel started to use Bacteriosol® on their farm in 2014. They had one field that was not performing and could not find any solution. After 2 years using Bacteriosol®, we dug a soil profile in order to understand what happened as the field is now performing as well as others.

SOBAC : 100 kg Bactériosol Concentré 2 years
CONTROL : 10-5-25 450 kg

SOIL MEASURES

Temperatures:

The air temperature when taking the measures of the control side was 12.2°C and of Sobac's 11.1° C

Control		SOBAC
10.0	10	10.4
9.9	30	10.2
9.9	50	10.3
9.4	100	9.9
9.1	140	9.6

The control side is cooler than Sobac side, which means that after the winter, Sobac's field has warmed up quicker because the soil was more porous, more oxygenated and soil life more developed.

pH

Control		SOBAC
6.2	10	6.2
6.4	30	6.5
6	50	7
7	100	7

As recommended by Sobac, George and Noel did not apply any lime for the past 2 years on the field with Bacteriosol® and we can observe that the pH has naturally been regulated.

Life and humus are the keys to a well-balanced pH of the soil.

SOIL STRUCTURE



CONTROL		SOBAC
Soil very crumbly High density of roots Very lively soil	0	Soil very crumbly High density of roots Soil very porous, Very lively
	10	
	20	
Fewer roots Soil porous	30	Layer of stones, compacted, some roots
	40	
Fewer roots and presence of stones Disparate soil with darker and lighter colour	50	Soil very crumbly, lively, porous with many worm galleries
	60	
	70	
No more roots after 60 cm No porosity No life The soil is grey, compacted	80	Some compaction Many rocks Porous soil Roots going down to 1m20
	90	
	100	
	110	
	120	
	130	
	140	



Worms: 72 m2 on the control side and 168 on Sobac's side

Roots: 60 cm on control and 120 cm on Sobac's field. With the mineral fertilisers, the roots and the soil life are mainly developed in the first 20 cm and not at all under 60 cm. In the Sobac's field the roots and the soil life are very developed in the 30 first cm and are still active down to 120 cm. in the control, the plants get fertilisers and don't develop deep, whereas with Bactériosol® they explore over 2 times more volume of soil, which reduces much more their water and nutrient stresses.