

Phil Williams – Fagwrgoch – SLURRYFORSOIL (S_{FOR}S®) farm study

Background information on measured benefits:

7th Jan 2022 6kg of S_{FOR}S® (SKG at the time) were sent to be added to a 20,000 gal slurry tank which receives a mix of parlour washings and slurry. This is pumped into the main store (65,000 gals) every 4 weeks. He had emptied these stores shortly prior to adding the S_{FOR}S® so it was only treated on the basis that he had 70 cows (at one pack of 2kg/30 Livestock Units). Note that parlour washings mixed with slurry and urine even containing disinfectants do not interfere with the activity of S_{FOR}S®.

Cows were housed at night at the beginning of October and fully housed in mid to late October going out again in mid-April. Treatment was therefore over a 3 month period.

The slurry was applied to 120 acres – 90 acres at 1800gal/ac (= 20.2T/Ha), the remaining 30 acres at a lower rate.

50 acres were cut for silage - the remainder grazed. Application rate could not therefore be considered high.

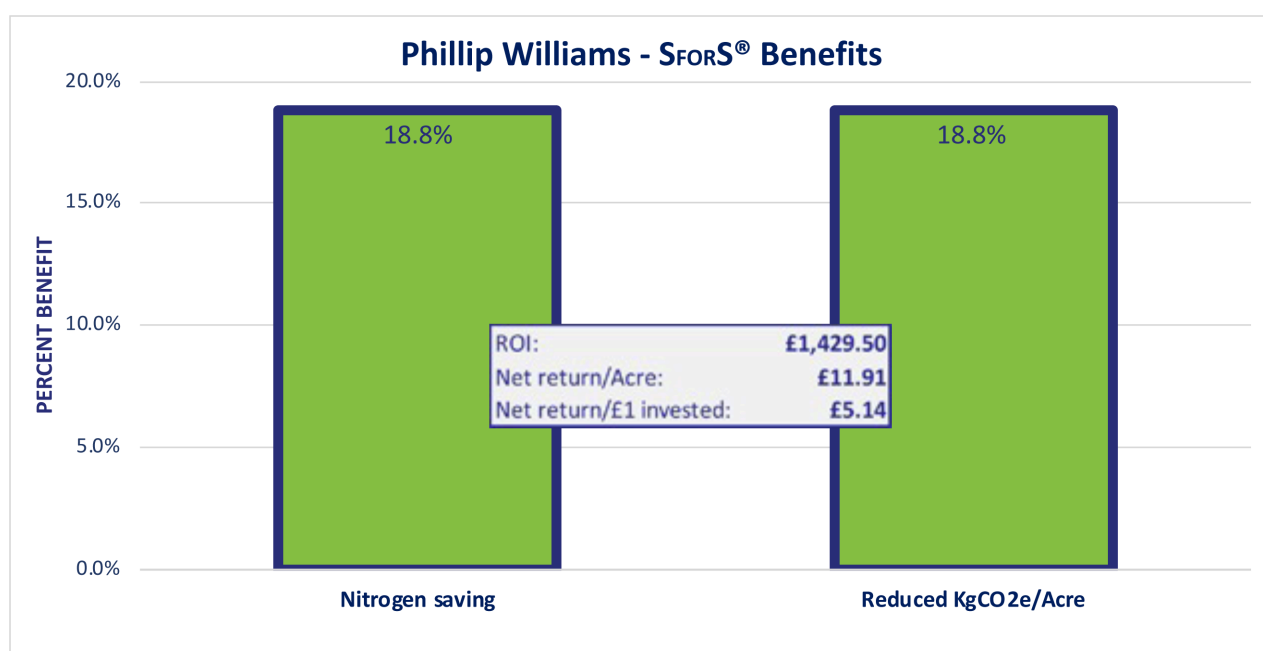
The fertiliser use was reduced from N:69 – P:0 – K:33/ac last year to N:56 – P:0 – K:28.

The silage crop was similar to last year in volume.

The grazing available was also similar – note that this year was very dry; a challenging year. Even a small decrease in fertiliser or increase in yield results in a significant ROI (see below). A 5:1 return, especially in a year beset by more problems than solutions is worth having.

SUMMARY OF MEASURED BENEFITS:

REF.	SAVING/COST	% BENEFIT	BENEFIT/ACRE	BENEFIT FOR FARM
-	Fertiliser use (120 Acres)	Reduced by 18.8%	£14.79	£1,774.50
A	Nitrogen use (120 Acres)	Reduced by 18.8%		
B	Increase in forage produced	0%	£0.00	£0.00
C	Cost of S _{FOR} S® added to the slurry		(£2.88)	(£345.00)
-	Nitrogen impact on KgCO ₂ e (@3.95kg CO ₂ e/kg of Nitrogen)	Reduced by 18.8%	25.68Kg	3,081.00Kg
D	ROI (=A+B-C)	Unknown	£11.91	£1,429.50
E	Net return/£1 invested (=A+B)/C	£5.14		



There were a number of other comments made about the improvements to slurry and pasture management seen as a result of adding the SFORS®:

1. The slurry mixed well. No re-mixing was needed. (Normally re-mixed every 5-6 loads) – clearly saving time and costs.
2. Reduced smell.
3. After one rain shower all spread slurry was absorbed into the ground well. Even prior to any rain the slurry was well absorbed on all the ground on which it was spread.
4. He would use it again.