

The following tables outline the difference in N, P and GHG emissions between treatments from trials in WP2:

**Table 1.** Impact of ECO FCE experimentation on the N, P and GHG emissions from pigs

Institute	Features of diet		Difference (%)		Control (kg/h)			Test (kg/h)			Impact (kg/h)		
	Control	Test	ADG	FCR	N ex	P ex	GHG (CO <sub>2</sub> e)	N ex	P ex	GHG (CO <sub>2</sub> e)	N ex	P ex	GHG (CO <sub>2</sub> e)
AFBI	Simple cereal/soya	Soya replaced by DDGS/RSM	-3.9%	+1.7%	3.56	0.49	141	3.60	0.50	129	+1.2%	+2.4%	-8.8%
AFBI	Simple cereal/soya	Soya replaced by DDGS/RSM Spared 8% AA & 10% energy	-4.6%	+4.22%	3.56	0.49	141	3.73	0.52	144	+4.9%	+7.5%	+2.1%
ITPSA	Simple cereal/soya	Soya & wheat replaced by RSM	-0.1%	-2.6%	3.22	0.61	149	3.25	0.66	145	+1.0%	+7.7%	-3.2%
ITPSA	SBM / RSM diet	+ 500ppm $\alpha$ -galactosidase and xylanase	+2.8%	+0.9%	3.04	0.58	168	3.09	0.58	169	+1.8%	-0.3%	+0.7%
ITPSA	SBM/RSM diet with 3% reduction NE	+ 500ppm $\alpha$ -galactosidase and xylanase	-6.2%	-6.5%	3.44	0.64	177	3.18	0.59	169	-7.4%	-7.39%	-4.4%
ITPSA	SBM / RSM diet	with 3% reduction NE	+8.8%	+9.0%	3.04	0.58	168	3.44	0.64	177	+13.2%	+10.8%	+5.5%
ITPSA	SBM / RSM diet + 500ppm $\alpha$ -galactosidase and xylanase	with 3% reduction NE	-0.7%	+0.9%	3.09	0.58	169	3.18	0.59	169	+3.0%	+2.9%	+0.6%

**Table 2.** Impact of ECO FCE experimentation on the N, P and GHG emissions from broiler chickens

Institute	Features of diet		Difference (%)		Control (kg/h)			Test (kg/h)			Impact (kg/h)		
	Control	Test	ADG	FCR	N ex	P ex	GHG (CO <sub>2</sub> e)	N ex	P ex	GHG (CO <sub>2</sub> e)	N ex	P ex	GHG (CO <sub>2</sub> e)
AFBI	Simple cereal/soya	Soya replaced by DDGS/RSM	-2.0%	+2.2%	0.035	0.007	1.63	0.036	0.007	1.60	+4.4%	+8.7%	-2.0%
AFBI	Simple cereal/soya	Soya replaced by DDGS/RSM – low P & Ca	-6.2%	+7.2%	0.035	0.007	1.63	0.039	0.005	1.60	+12.1%	-30.8%	-2.1%
AFBI	Simple cereal/soya	Soya replaced by DDGS/RSM + phytase & protease -low P, Ca & AA	-2.1%	-2.9%	0.035	0.007	1.63	0.031	0.003	1.51	-11.2%	-52.6%	-7.4%
IRTA	Wheat based diet (raw)	Wheat (Extruded) + xylanase	-10.5%	-2.4%	0.063	0.012	2.13	0.054	0.010	1.87	-15.0%	-15.6%	-12.4%
IRTA	Wheat based diet	Barley diet+ L -glucanase	-8.2%	+4.0%	0.063	0.012	2.13	0.063	0.012	2.12	-0.4%	0.0%	-0.6%
IRTA	Barley based diet (raw) + L -glucanase	Barley based diet (Extruded)	-0.7%	-6.9%	0.063	0.012	2.12	0.054	0.010	1.97	-14.1%	-15.1%	-7.1%
AFBI	Simple wheat/soya	+ protease	+2.3%	-1.8%	0.076	0.013	2.17	0.078	0.014	2.223	+3.1%	+3.2%	+2.7%
IRTA	Maize/soyadiet + Peas (Raw)	Maize/soya diet + Peas (Extruded)	-0.3%	-0.1%	0.060	0.010	2.71	0.059	0.010	2.71	-1.9%	-0.1%	-0.1%
IRTA	Maize/soyadiet + Peas (Raw)	Maize/soya diet + Faba beans (Raw)	-1.9%	+1.3%	0.060	0.010	2.71	0.056	0.011	2.48	-6.5%	+10.0%	-8.5%
IRTA	Maize/soyadiet + Faba beans (Raw)	+ NSP degrading enzymes	-2.5%	+0.8%	0.056	0.011	2.48	0.056	0.011	2.44	-0.7%	-0.7%	-1.6%
IRTA	Maize/soyadiet + Faba beans (Raw)	Maize/soya diet + Faba beans (Extruded)	-0.3%	-0.2%	0.056	0.011	2.48	0.060	0.011	2.46	+7.1%	-2.2%	-1.1%