

Table S1: Effect of fertiliser treatment on mean grass DM yield, over three cuts of the first year (2018) of the growth trial.

Treatment	First cut	Second cut	Third cut
DM yield kg/ha			
Eco P	4104.1 ^{ab} (411.4)	132.83 ^a (32.6)	350.00 ^b (137.6)
Eco P Comp	6443.60 ^{ab} (883.6)	224.47 ^a (15.4)	1636.25 ^{ab} (306.4)
C Comp	7052.93 ^a (892.1)	265.11 ^a (46.5)	2521.50 ^a (580.3)
Control	3854.29 ^b (307.6)	166.64 ^a (23.4)	283.33 ^b (84.5)

Within each column (harvests) shared letters denote no statistical difference occurring at $p > 0.05$, data was analysed using a repeated measure one-way analysis of variance (ANOVA) using the statistical software package R. Figures in brackets highlight standard error.

Table S2: Effect of fertiliser treatment on mean grass DM yield, over three cuts of the second year (2019) of the growth trial.

Treatment	First cut	Second cut	Third cut
DM yield kg/ha			
Eco P	205.4 ^b (88.1)	838.4 ^b (224.01)	1590.5 ^b (16.65)
Eco P Comp	1555.2 ^a (57.9)	2604.5 ^a (25.2)	3115 ^{ab} (459.15)
C Comp	2233.6 ^a (364.57)	3045.4 ^a (119.2)	3960 ^a (498.66)
Control	186.6 ^b (27.32)	1049.8 ^b (90.58)	1749.9 ^b (452.11)

Within each column (harvests) shared letters denote no statistical difference occurring at $p > 0.05$, data was analysed using a repeated measure one-way analysis of variance (ANOVA) using the statistical software package R. Figures in brackets highlight standard error.

Table S3: Effect of fertiliser treatment on mean grass DM yield, over three cuts of the third year (2020) of the growth trial.

Treatment	First cut	Second cut	Third cut
DM yield kg/ha			
Eco P	1562.5 ^c (144.7)	194.4 ^c (6.94)	272.2 ^c (13.96)
Eco P Comp	2744.3 ^b (54.7)	1062.5 ^b (46.94)	902.3 ^b (198.55)
C Comp	4302 ^a (273.2)	2529.41 ^a (45.18)	2480.3 ^a (98.94)
Control	1493.4 ^c (36.83)	213.24 ^c (37.31)	2044.2 ^c (45.07)

Within each column (harvests) shared letters denote no statistical difference occurring at $p > 0.05$, data was analysed using a repeated measure one-way analysis of variance (ANOVA) using the statistical software package R. Figures in brackets highlight standard error at.

Table S4: Yearly cumulative effect of fertiliser treatment on mean grass DM yield, and three-year cumulative grass DM yield.

Treatment	Year 1	Year 2	year 3	Trial cumulative
Yield DM kg/ha				
Eco P	4586.8 ^a (1289)	2634.4 ^c (400.3)	2084.7 ^c (435.5)	9305.9 ^c (759.1)
Eco P Comp	8304.3 ^b (1995.8)	7274.9 ^b (459.15)	4899.8 ^b (555.6)	20479 ^b (1008)
C Comp	98939.5 ^b (1995.8)	9239.17 ^a (498.6)	9875.6 ^a (526.5)	28985.3 ^a (206.4)
Control	4304.2 ^a (1210.2)	2986.4 ^c (452.1)	2044.2 ^c (45.07)	9334.95 ^c (452.1)

Within each column (harvests) shared letters denote no statistical difference occurring at $p > 0.05$, data was analysed using a repeated measure one-way analysis of variance (ANOVA) using the statistical software package R. Figures in brackets highlight standard error.