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Article title: Long-term trends in yield variance of temperate managed grassland; **Journal:** Agronomy for Sustainable Development; **Authors:** Janna Macholdt, Steffen Hadasch, Andrew Macdonald, Sarah Perryman, Hans-Peter Piepho, Tony Scott, Merete Elisabeth Styczen & Jonathan Storkey; **Corresponding author:** Janna Macholdt, Professorship of Agronomy, Martin-Luther-University Halle-Wittenberg (Germany); janna.macholdt@landw.uni-halle.de

Parameter	Mean yield		Yield variability	
	Correlation coefficient	p value	Correlation coefficient	p value
Shannon`s diversity index	-0,15	0,04	-0,30	0,01
Species number	-0,50	0,01	-0,30	0,00
Proportion legumes	-0,18	0,06	-0,20	0,05

Table A10 Supplementary material Correlation across treatments between plant species diversity indices and mean yield, or rather yield variance. Bivariate correlation coefficient: Kendall's tau (τ) and associated p value; analyses based on available years of data/surveys (1991-2000, 2010-2012).