

Appendix D. Descriptive statistics and *P* values of Shapiro-Wilk test for normality on response ratios of soil microbial biomass nitrogen (MBN) ,Nitrobacteria, enzymes activity, soil C and N pool and bioenergetics in cropland. The *P* values in bold (> 0.05) denote the normality assumption for the response ratio was met.

Variable	Minimum	Maximum	Mean	Median	P
MBN	-2.54	1.89	0.26	0.19	0.00
MBN/TN	-2.70	1.76	0.06	0.07	0.00
Nitrobacteria	-0.85	2.35	1.00	0.89	<b>0.79</b>
UREA	-1.07	1.10	0.22	0.23	0.00
Protease	-0.29	0.69	0.09	0.04	<b>0.34</b>
TN	-0.75	0.72	0.15	0.13	0.00
C/N	-1.17	3.84	0.08	-0.03	0.00
DON	-0.38	1.18	0.26	0.23	0.00
Mineral N	-0.91	2.91	0.51	0.42	0.00
Nitrate N	-1.46	2.92	0.57	0.54	0.00
Ammonium N	-6.68	4.02	0.49	0.41	0.00
pH	-0.61	0.15	-0.05	-0.02	0.00
N	-0.92	0.77	0.10	0.23	0.01
mineralization					
Net nitrification	-0.32	2.12	0.87	0.78	<b>0.31</b>
<b>Net ammonification</b>	0.19	1.07	0.57	0.35	<b>0.09</b>