

Supplementary Materials: Table S1. Means and standard deviations of vegetation indices Normalized Difference Vegetation Index (NDVI), Moisture Stress Index (MSI), and Green Chlorophyll Index (GCI) for different variants of farmyard manure (FM), farmyard manure stabilized by Z'fix (FM_ZF), of biostimulant NeOsol (NS), and control variant (CL) application in individual dates; lower case letters denote significant differences at probability level of 0.05 within each date separately; numbers in bold indicate the most favourable value.

Date	NDVI						MSI						GCI					
	FM_Z F_NS	FM_ZF	FM_NS	FM	NS	CL	FM_ZF_ NS	FM_ZF	FM_NS	FM	NS	CL	FM_ZF_ NS	FM_ZF	FM_NS	FM	NS	CL
11. Jul.	0.573 ^d	0.621 ^e	0.698 ^{ab}	0.716 ^{bc}	0.686 ^a	0.719^c	0.641 ^e	0.569 ^d	0.473 ^c	0.452 ^{ab}	0.470 ^{bc}	0.442^a	0.641^e	0.569 ^d	0.473 ^c	0.452 ^{ab}	0.469 ^{bc}	0.443 ^a
2015	±0.065	±0.072	±0.029	±0.026	±0.040	±0.037	±0.072	±0.076	±0.030	±0.024	±0.033	±0.033	±0.072	±0.076	±0.030	±0.024	±0.033	±0.033
3. Aug.	0.613 ^c	0.647 ^d	0.698 ^{ab}	0.707^a	0.683 ^b	0.707^a	0.574 ^c	0.509 ^b	0.443 ^a	0.435 ^a	0.447 ^a	0.428^a	0.574^c	0.509 ^b	0.443 ^a	0.435 ^a	0.447 ^a	0.428 ^a
2015	±0.049	±0.057	±0.029	±0.308	±0.043	±0.039	±0.062	±0.065	±0.032	±0.035	±0.043	±0.039	±0.062	±0.065	±0.032	±0.035	±0.043	±0.039
30. Aug.	0.547 ^b	0.614 ^c	0.661 ^a	0.655 ^a	0.641 ^a	0.663^a	0.715 ^c	0.614 ^b	0.555 ^a	0.556 ^a	0.561 ^a	0.540^a	0.715^c	0.614 ^b	0.555 ^a	0.556 ^a	0.561 ^a	0.540 ^a
2015	±0.090	±0.059	±0.031	±0.038	±0.045	±0.042	±0.106	±0.078	±0.041	±0.046	±0.053	±0.049	±0.106	±0.777	±0.041	±0.458	±0.053	±0.049
17. Mar.	0.336 ^b	0.331 ^b	0.357 ^a	0.359 ^a	0.352 ^a	0.381^c	0.951 ^c	0.963 ^c	0.926 ^{ab}	0.931 ^a	0.936 ^a	0.915^b	0.951 ^c	0.963^c	0.926 ^{ab}	0.931 ^a	0.936 ^a	0.915 ^b
2016	±0.026	±0.027	±0.022	±0.034	±0.022	±0.032	±0.035	±0.042	±0.031	±0.039	±0.025	±0.036	±0.035	±0.042	±0.042	±0.039	±0.025	±0.036
27. Mar.	0.405 ^{b±}	0.392 ^{c±}	0.427 ^a	0.431^a	0.407 ^b	0.424 ^a	0.870 ^c	0.888 ^d	0.849 ^{ab}	0.846 ^a	0.860 ^{bc}	0.844^a	0.870 ^c	0.888^d	0.849 ^{ab}	0.846 ^a	0.860 ^{bc}	0.844 ^a
2016	0.025	0.025	±0.023	±0.033	±0.030	±0.028	±0.032	±0.035	±0.030	±0.033	±0.025	±0.026	±0.032	±0.035	±0.030	±0.033	±0.025	±0.026
9. May	0.762^c	0.723 ^a	0.750 ^{bc}	0.731 ^{ab}	0.672 ^d	0.734 ^{ab}	0.406^b	0.434 ^c	0.416 ^{ab}	0.420 ^a	0.467 ^d	0.426 ^{ac}	0.406 ^b	0.434 ^c	0.416 ^{ab}	0.420 ^a	0.466^d	0.426 ^{ac}
2016	±0.025	±0.038	±0.022	±0.042	±0.082	±0.028	±0.023	±0.018	±0.018	±0.025	±0.037	±0.035	±0.023	±0.018	±0.018	±0.025	±0.037	±0.035
8. Jun.	0.751^a	0.738 ^{ab}	0.746 ^a	0.724 ^b	0.677 ^c	0.746 ^a	0.328^a	0.338 ^a	0.333 ^a	0.372 ^b	0.401 ^c	0.338 ^a	0.328 ^a	0.338 ^a	0.333 ^a	0.372 ^b	0.401^c	0.338 ^a
2016	±0.024	±0.026	±0.026	±0.041	±0.063	±0.027	±0.018	±0.022	±0.021	±0.032	±0.045	±0.031	±0.018	±0.022	±0.021	±0.032	±0.045	±0.031
11. May	0.879 ^c	0.886 ^c	0.903 ^{ab}	0.909 ^{ab}	0.900 ^a	0.911^b	0.373 ^d	0.358 ^c	0.334 ^b	0.320 ^a	0.319 ^a	0.313^a	0.373^d	0.358 ^c	0.334 ^b	0.320 ^a	0.319 ^a	0.313 ^a
2017	±0.023	±0.024	±0.015	±0.019	±0.026	±0.017	±0.031	±0.029	±0.022	±0.025	±0.029	±0.025	±0.031	±0.029	±0.022	±0.025	±0.029	±0.025
3. Jun.	0.866 ^c	0.873 ^b	0.878 ^{ab}	0.881 ^a	0.878 ^{ab}	0.883^a	0.322 ^c	0.308 ^b	0.298 ^a	0.293^a	0.296 ^a	0.298 ^a	0.322^c	0.308 ^b	0.298 ^a	0.293 ^a	0.296 ^a	0.298 ^a
2017	±0.015	±0.012	±0.013	±0.016	±0.018	±0.018	±0.020	±0.013	±0.017	±0.020	±0.021	±0.019	±0.020	±0.013	±0.017	±0.020	±0.021	±0.019
20. Jun.	0.726 ^a	0.730 ^a	0.737^a	0.729 ^a	0.706 ^b	0.698 ^b	0.442 ^a	0.422 ^b	0.407^a	0.408 ^a	0.412 ^{ab}	0.423 ^b	0.442^c	0.422 ^b	0.407 ^a	0.408 ^a	0.412 ^{ab}	0.423 ^b
2017	±0.036	±0.038	±0.039	±0.041	±0.045	±0.053	±0.027	±0.022	±0.025	±0.030	±0.028	±0.030	±0.027	±0.022	±0.025	±0.030	±0.028	±0.307

28. Sept.	0.601 ^a	0.636 ^b	0.692^e	0.620 ^{ab}	0.517 ^c	0.567 ^d	0.674 ^a	0.629 ^c	0.580^b	0.666 ^a	0.776 ^e	0.730 ^d	0.674 ^a	0.629 ^c	0.580 ^b	0.666 ^a	0.776^d	0.730 ^e
2017	±0.071	±0.085	±0.060	±0.063	±0.074	±0.089	±0.071	±0.082	±0.064	±0.068	±0.082	±0.098	±0.072	±0.082	±0.064	±0.068	±0.082	±0.098
15 Mar.	0.339 ^b	0.359 ^a	0.407^d	0.386 ^c	0.352 ^{ab}	0.367 ^a	0.883 ^e	0.816 ^{ab}	0.740^d	0.800 ^a	0.849 ^c	0.843 ^{bc}	0.883^e	0.816 ^{ab}	0.740 ^d	0.780 ^a	0.849 ^d	0.843 ^{bc}
2018	±0.029	±0.033	±0.028	±0.036	±0.049	±0.049	±0.063	±0.058	±0.049	±0.065	±0.087	±0.079	±0.063	±0.058	±0.049	±0.065	±0.087	±0.079
21. Apr.	0.712 ^{ab}	0.736 ^{bc}	0.799^d	0.759 ^c	0.698 ^a	0.721 ^{ab}	0.548 ^a	0.476 ^b	0.413^c	0.457 ^b	0.529 ^a	0.517 ^a	0.548^a	0.476 ^b	0.413 ^c	0.457 ^b	0.529 ^a	0.517 ^a
2018	±0.072	±0.070	±0.047	±0.060	±0.090	±0.079	±0.088	±0.074	±0.059	±0.079	±0.108	±0.084	±0.088	±0.074	±0.059	±0.079	±0.108	±0.084
31. Oct.	0.316^d	0.299 ^b	0.296 ^b	0.275 ^c	0.254 ^a	0.253 ^a	1.120^c	1.153 ^d	1.168 ^a	1.177 ^{ab}	1.189 ^b	1.203 ^c	1.119 ^c	1.153 ^d	1.168 ^a	1.177 ^{ab}	1.189 ^b	1.203^e
2018	±0.020	±0.015	±0.012	±0.013	±0.016	±0.016	±0.034	±0.027	±0.033	±0.033	±0.026	±0.028	±0.034	±0.027	±0.032	±0.033	±0.026	±0.028
15. Nov.	0.553^c	0.536 ^b	0.553^c	0.533 ^b	0.499 ^a	0.505 ^a	0.897^a	0.916 ^{bc}	0.909 ^{ab}	0.926 ^c	0.955 ^d	0.952 ^d	0.897 ^a	0.916 ^{bc}	0.909 ^{ab}	0.926 ^c	0.955^d	0.952 ^d
2018	±0.011	±0.016	±0.017	±0.024	±0.031	±0.037	±0.024	±0.023	±0.030	±0.032	±0.039	±0.041	±0.024	±0.023	±0.030	±0.032	±0.039	±0.041
1. Apr.	0.700^c	0.629 ^a	0.663 ^b	0.663 ^b	0.624 ^a	0.631 ^a	0.635^c	0.686 ^b	0.674 ^a	0.668 ^a	0.689 ^b	0.707 ^d	0.635 ^c	0.686 ^b	0.674 ^a	0.668 ^a	0.689 ^b	0.707^d
2019	±0.029	±0.018	±0.027	±0.037	±0.045	±0.049	±0.021	±0.022	±0.024	±0.027	±0.038	±0.040	±0.021	±0.022	±0.024	±0.027	±0.038	±0.040
19. Apr.	0.743^b	0.681 ^c	0.706 ^a	0.729 ^b	0.703 ^a	0.699 ^a	0.529^c	0.584 ^b	0.573 ^{ab}	0.543 ^c	0.561 ^a	0.575 ^{ab}	0.529 ^c	0.584^b	0.573 ^{ab}	0.544 ^c	0.561 ^a	0.575 ^{ab}
2019	±0.031	±0.024	±0.040	±0.045	±0.047	±0.047	±0.029	±0.024	±0.032	±0.037	±0.042	±0.047	±0.029	±0.024	±0.032	±0.037	±0.042	±0.047
3.Jul.	0.878 ^a	0.870 ^c	0.882 ^{ab}	0.885^b	0.876 ^a	0.881 ^{ab}	0.306 ^{ab}	0.311 ^b	0.292 ^{cd}	0.289^c	0.306 ^{ab}	0.301 ^{ad}	0.306 ^{ab}	0.311^b	0.292 ^{cd}	0.289 ^c	0.306 ^{ab}	0.301 ^{ad}
2019	±0.011	±0.015	±0.017	±0.015	±0.020	±0.014	±0.018	±0.019	±0.022	±0.023	±0.030	±0.024	±0.018	±0.019	±0.022	±0.023	±0.030	±0.024
31.Oct.	0.157 ^a	0.155 ^{ab}	0.154 ^{ab}	0.153 ^b	0.158^a	0.155 ^{ab}	1.290^b	1.315 ^a	1.303 ^{ab}	1.306 ^{ab}	1.306 ^{ab}	1.314 ^a	1.290 ^b	1.315^a	1.303 ^{ab}	1.306 ^{ab}	1.306 ^{ab}	1.314 ^a
2019	±0.010	±0.009	±0.008	±0.008	±0.009	±0.010	±0.037	±0.041	±0.042	±0.037	±0.035	±0.035	±0.037	±0.041	±0.042	±0.037	±0.035	±0.035
18. Apr.	0.558 ^b	0.566 ^b	0.588 ^c	0.602 ^a	0.601 ^a	0.608^a	0.764 ^c	0.755 ^c	0.726 ^d	0.710 ^b	0.705 ^{ab}	0.699^a	0.764^c	0.755 ^c	0.726 ^d	0.710 ^b	0.705 ^{ab}	0.699 ^a
2020	±0.027	±0.018	±0.024	±0.035	±0.037	±0.040	±0.024	±0.015	±0.024	±0.029	±0.023	±0.030	±0.024	±0.015	±0.024	±0.029	±0.023	0.030
28.Apr.	0.550 ^{ab}	0.544 ^a	0.551 ^{ab}	0.548 ^{ab}	0.556 ^{bc}	0.567^c	0.575 ^{ab}	0.568^a	0.571 ^a	0.603 ^b	0.632 ^c	0.641 ^c	0.575 ^{ab}	0.568 ^a	0.571 ^a	0.603 ^b	0.632 ^c	0.641^c
2020	±0.021	±0.019	±0.025	±0.035	±0.035	±0.036	±0.025	±0.031	±0.026	±0.049	±0.100	±0.116	±0.025	±0.031	±0.026	±0.049	±0.100	±0.115
18.May	0.878 ^b	0.878 ^b	0.891 ^a	0.893 ^a	0.890 ^a	0.896^a	0.365 ^c	0.358 ^c	0.339 ^b	0.331 ^a	0.333 ^{ab}	0.324^d	0.365^c	0.358 ^c	0.339 ^b	0.331 ^a	0.333 ^{ab}	0.324 ^d
2020	±0.011	±0.010	±0.010	±0.009	±0.017	±0.016	±0.016	±0.014	±0.013	±0.012	±0.025	±0.022	±0.016	±0.014	±0.013	±0.012	±0.025	±0.022
22.Jun.	0.879 ^a	0.882 ^a	0.882 ^a	0.881 ^a	0.882 ^a	0.887^b	0.322 ^e	0.316 ^c	0.312 ^{bc}	0.307 ^a	0.310 ^{ab}	0.299^d	0.322^e	0.316 ^c	0.312 ^{bc}	0.307 ^a	0.309 ^{ab}	0.299 ^d
2020	±0.006	±0.005	±0.008	±0.013	±0.010	±0.009	±0.009	±0.006	±0.013	±0.017	±0.015	±0.012	±0.009	±0.006	±0.013	±0.017	±0.015	±0.012