

SUPPLEMENTARY MATERIAL 1

TABLE S1

PAPER: Reducing Nitrogen Fertilization in Olive Growing by the Use of Natural Chabazite-Zeolitite as Soil Improver

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Treatment	Area	Type	Year	Management	pH	st.dev	EC (mS)	st.dev	SOM	st.dev	SOC	st.dev	TC (%)	st.dev	TN (%)	st.dev	δ ¹³ C	st.dev	δ ¹⁵ N	st.dev
cnt	SL	soil	2019	Pre-Fert	8.07	0.46	0.85	0.14	4.38	0.55	2.54	0.32	2.180	1.280	0.177	0.074	-20.320	4.125	6.947	1.933
zeo	SL	soil	2019	Pre-Fert	8.19	0.29	0.80	0.12	4.38	0.61	2.54	0.35	1.793	0.101	0.147	0.055	-16.733	4.546	4.960	0.653
cnt	SL	soil	2019	Post-Fert	7.42	0.73	2.12	1.74	5.97	1.14	3.46	0.66	2.543	0.190	0.207	0.049	-21.410	3.160	5.460	0.468
zeo	SL	soil	2019	Post-Fert	8.19	0.29	0.80	0.12	0.12	0.61	3.12	0.49	1.710	0.769	0.217	0.125	-20.017	3.040	5.673	0.499
cnt	SL	soil	2019	Harvest	7.78	0.49	0.89	0.47	2.96	0.51	1.71	0.30	1.290	0.573	0.103	0.025	-18.857	6.656	6.057	0.371
zeo	SL	soil	2019	Harvest	8.11	0.36	0.71	0.14	2.83	0.67	1.64	0.39	1.277	0.457	0.087	0.025	-15.010	7.553	4.747	0.176
cnt	SL	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid-19	covid-19
zeo	SL	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid-19	covid-19
cnt	SL	soil	2020	Post-Fert	8.21	0.50	9.14	5.34	4.47	0.21	2.59	0.12	1.417	0.381	0.289	0.148	-22.350	0.760	13.703	9.328
zeo	SL	soil	2020	Post-Fert	8.85	0.13	7.11	2.22	4.10	0.69	2.38	0.40	1.277	0.212	0.326	0.032	-22.190	0.389	17.577	3.932
cnt	SL	soil	2020	Harvest	7.60	0.40	3.41	2.83	2.77	0.70	1.60	0.41	0.939	0.135	0.157	0.033	-23.746	1.232	8.213	3.508
zeo	SL	soil	2020	Harvest	7.26	0.08	4.31	0.82	2.63	0.06	1.53	0.03	1.014	0.392	0.180	0.055	-25.887	1.145	9.417	4.206
cnt	SL	soil	2021	Pre-Fert	7.94	0.26	1.03	0.29	2.80	0.35	1.62	0.20	1.297	0.187	0.147	0.021	-22.871	0.759	5.358	0.384
zeo	SL	soil	2021	Pre-Fert	7.67	0.60	1.19	0.32	3.70	0.20	2.15	0.12	1.362	0.048	0.175	0.025	-25.008	3.243	7.311	1.956
cnt	SL	soil	2021	Post-Fert	7.50	0.25	0.64	0.16	4.71	1.06	2.73	0.62	1.442	0.371	0.172	0.019	-23.486	0.824	3.418	0.770
zeo	SL	soil	2021	Post-Fert	7.76	0.99	0.61	0.13	5.32	0.36	3.08	0.21	1.083	0.202	0.140	0.007	-22.457	3.358	2.953	1.083
cnt	SL	soil	2021	Harvest	7.30	0.20	0.03	0.02	3.92	0.56	2.27	0.33	0.762	0.207	0.109	0.022	-21.797	0.916	-0.317	2.695
zeo	SL	soil	2021	Harvest	7.29	0.10	0.05	0.02	3.60	0.43	2.09	0.25	0.847	0.289	0.117	0.005	-22.567	1.773	-4.020	4.691
cnt	BG	soil	2019	Pre-Fert	8.91	0.15	1.11	0.13	5.53	0.40	3.20	0.23	3.495	0.233	0.095	0.007	-4.265	0.361	2.895	0.304
zeo	BG	soil	2019	Pre-Fert	8.72	0.30	1.04	0.07	5.90	0.71	3.42	0.41	3.610	0.325	0.120	0.028	-5.915	1.690	4.225	1.435
cnt	BG	soil	2019	Post-Fert	8.82	0.20	1.40	0.24	5.01	0.59	2.91	0.34	3.603	0.255	0.108	0.028	-4.910	3.182	2.680	1.817
zeo	BG	soil	2019	Post-Fert	8.76	0.15	1.38	0.29	5.05	0.66	2.93	0.38	3.550	0.290	0.123	0.014	-5.880	1.930	2.670	1.994
cnt	BG	soil	2019	Harvest	8.83	0.06	1.36	0.66	6.30	0.93	3.65	0.54	3.800	0.014	0.130	0.014	-6.290	1.174	2.895	0.177
zeo	BG	soil	2019	Harvest	8.89	0.10	1.14	0.17	6.30	0.62	3.65	0.36	3.720	0.608	0.125	0.021	-6.130	1.697	3.290	2.899
cnt	BG	soil	2020	Pre-Fert	9.08	0.07	0.85	0.11	5.53	0.54	3.20	0.31	4.000	0.000	0.139	0.000	-8.260	0.000	6.040	0.000
zeo	BG	soil	2020	Pre-Fert	9.01	0.09	0.90	0.10	7.33	0.90	4.25	0.52	4.820	0.000	0.172	0.000	-11.760	0.000	5.450	0.000
cnt	BG	soil	2020	Post-Fert	8.45	0.19	2.44	0.21	5.60	0.26	3.25	0.15	4.003	0.262	0.143	0.018	-6.993	2.310	3.097	0.244
zeo	BG	soil	2020	Post-Fert	8.61	0.32	1.67	0.59	6.23	0.45	3.61	0.26	3.987	0.309	0.140	0.029	-7.490	2.327	1.693	2.681
cnt	BG	soil	2020	Harvest	8.75	0.22	1.36	0.28	5.33	1.44	3.09	0.83	4.062	0.537	0.125	0.026	-7.370	3.219	3.152	0.514
zeo	BG	soil	2020	Harvest	8.70	0.29	1.36	0.24	5.87	1.16	3.40	0.67	4.158	0.088	0.148	0.013	-8.524	0.799	4.471	1.061
cnt	BG	soil	2021	Pre-Fert	8.51	0.35	1.20	0.09	3.23	1.07	1.88	0.62	4.702	0.296	0.164	0.033	-6.729	1.994	5.190	0.782
zeo	BG	soil	2021	Pre-Fert	8.59	0.15	1.20	0.18	3.30	0.96	1.91	0.56	5.193	0.426	0.188	0.019	-8.340	1.758	5.413	0.349
cnt	BG	soil	2021	Post-Fert	8.70	0.08	1.13	0.29	5.17	2.33	3.00	1.35	4.582	0.386	0.168	0.008	-9.314	0.935	3.605	1.687
zeo	BG	soil	2021	Post-Fert	8.64	0.25	1.80	1.06	4.37	0.70	2.54	0.40	3.937	0.212	0.155	0.025	-7.549	1.516	3.615	1.817
cnt	BG	soil	2021	Harvest	8.74	0.45	0.08	0.02	6.10	0.53	3.54	0.31	3.697	0.163	0.117	0.016	-6.759	1.695	3.332	0.537
zeo	BG	soil	2021	Harvest	8.95	0.15	0.07	0.01	6.30	1.83	3.65	1.06	3.727	0.326	0.146	0.013	-9.058	1.386	9.577	3.498
cnt	BN	soil	2019	Pre-Fert	9.69	0.16	1.21	0.30	6.42	0.81	3.72	0.47	4.393	1.859	0.227	0.064	-13.160	3.820	2.660	0.959
zeo	BN	soil	2019	Pre-Fert	9.73	0.21	1.23	0.14	6.53	0.49	3.79	0.29	3.780	1.373	0.197	0.025	-11.400	2.455	2.207	0.426

cnt	BN	soil	2019	Post-Fert	9.71	0.17	1.18	0.23	7.13	0.59	4.14	0.34	4.073	1.927	0.167	0.006	-11.420	4.661	3.340	0.139
zeo	BN	soil	2019	Post-Fert	9.55	0.17	1.73	0.76	8.37	3.17	4.85	1.84	3.713	1.253	0.160	0.010	-11.700	2.998	3.607	0.888
cnt	BN	soil	2019	Harvest	9.74	0.20	1.08	0.12	6.43	0.81	3.73	0.47	4.010	1.589	0.160	0.000	-10.687	3.972	12.560	0.404
zeo	BN	soil	2019	Harvest	9.67	0.22	1.11	0.12	6.18	0.75	3.58	0.44	3.800	1.220	0.160	0.010	-11.630	2.291	11.607	6.872
cnt	BN	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid-19	covid-19
zeo	BN	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid-	covid	covid	covid	covid-19	covid-19
cnt	BN	soil	2020	Post-Fert	8.11	0.14	0.33	0.18	7.23	0.70	4.20	0.41	4.260	1.895	0.264	0.086	-15.703	6.685	3.767	2.205
zeo	BN	soil	2020	Post-Fert	7.97	0.28	0.41	0.05	7.27	0.64	4.21	0.37	3.663	1.660	0.289	0.061	-14.483	4.186	2.593	1.635
cnt	BN	soil	2020	Harvest	7.98	0.09	0.13	0.06	2.63	1.89	1.53	1.09	4.512	2.021	0.199	0.019	-19.926	8.932	2.820	0.899
zeo	BN	soil	2020	Harvest	7.98	0.28	0.27	0.15	1.00	1.00	0.58	0.58	3.771	1.512	0.207	0.042	-12.833	4.018	3.734	2.078
cnt	BN	soil	2021	Pre-Fert	7.98	0.09	0.13	0.06	6.47	0.95	3.75	0.55	4.512	2.021	0.199	0.019	-19.926	8.932	2.820	0.899
zeo	BN	soil	2021	Pre-Fert	7.98	0.28	0.27	0.15	6.07	0.47	3.52	0.27	3.771	1.512	0.207	0.042	-12.833	4.018	3.734	2.078
cnt	BN	soil	2021	Post-Fert	8.13	0.23	0.37	0.20	6.53	0.31	3.79	0.18	4.572	1.997	0.246	0.064	-12.707	5.639	3.085	3.104
zeo	BN	soil	2021	Post-Fert	7.83	0.15	0.74	0.27	7.29	0.72	4.23	0.42	4.438	1.491	0.351	0.086	-15.543	3.725	4.696	3.195
cnt	BN	soil	2021	Harvest	7.70	0.27	0.07	0.04	6.99	0.52	4.06	0.30	4.080	2.150	0.222	0.054	-23.450	11.793	0.157	4.560
zeo	BN	soil	2021	Harvest	7.64	0.21	0.10	0.05	7.19	0.80	4.17	0.46	3.537	1.656	0.232	0.070	-21.487	10.293	2.120	2.530

Treatment	Area	Type	Year	Management	F ⁻	st.dev	Cl ⁻	st.dev	N-NO ₂	st.dev	Br ⁻	st.dev	N-NO ₃	st.dev	PO ₄ ³⁻	st.dev	SO ₄ ²⁻	st.dev
cnt	SL	soil	2019	Pre-Fert	6.07	1.39	14.06	14.98	0.37	0.09	0.07	0.15	17.20	11.69	11.21	17.78	20.36	6.81
zeo	SL	soil	2019	Pre-Fert	6.13	1.96	16.16	8.18	0.39	0.11	0.00	0.00	12.61	8.12	3.55	3.11	20.43	13.27
cnt	SL	soil	2019	Post-Fert	5.32	2.42	11.30	3.40	0.29	0.23	0.10	0.18	78.55	88.47	299.24	353.71	108.08	74.00
zeo	SL	soil	2019	Post-Fert	4.11	1.09	10.80	7.74	0.31	0.27	0.03	0.09	47.71	44.04	271.12	390.73	76.01	91.36
cnt	SL	soil	2019	Harvest	6.45	2.11	6.99	1.16	0.40	0.27	0.00	0.00	2.21	1.71	88.92	105.58	76.27	127.62
zeo	SL	soil	2019	Harvest	7.22	2.30	8.59	3.03	0.26	0.17	0.00	0.00	2.57	2.54	14.43	6.41	27.58	18.60
cnt	SL	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid
zeo	SL	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid
cnt	SL	soil	2020	Post-Fert	4.71	3.48	52.74	11.15	2.87	4.05	0.00	0.00	70.30	61.29	458.01	443.15	1781.88	982.12
zeo	SL	soil	2020	Post-Fert	4.76	0.51	26.05	9.24	1.92	1.38	0.00	0.00	46.76	1.58	203.63	98.18	897.00	532.02
cnt	SL	soil	2020	Harvest	2.17	1.07	22.90	7.37	2.25	1.55	0.00	0.00	205.39	182.09	10.41	11.09	592.65	456.14
zeo	SL	soil	2020	Harvest	2.32	0.41	20.17	8.70	2.30	0.18	0.00	0.00	399.98	86.84	12.62	17.41	102.78	52.71
cnt	SL	soil	2021	Pre-Fert	3.78	2.19	22.88	16.84	0.06	0.10	0.00	0.00	11.95	14.14	48.05	38.76	34.62	17.54
zeo	SL	soil	2021	Pre-Fert	2.18	0.84	14.19	6.81	0.76	0.27	0.00	0.00	18.88	11.73	123.44	133.33	99.89	91.95
cnt	SL	soil	2021	Post-Fert	3.50	1.12	15.55	4.51	1.34	0.10	0.24	0.42	19.36	6.45	49.42	18.25	55.59	33.91
zeo	SL	soil	2021	Post-Fert	4.69	2.47	16.16	5.29	3.19	2.99	8.78	15.20	22.32	9.09	35.69	35.54	37.00	29.07
cnt	SL	soil	2021	Harvest	4.20	1.29	22.14	3.57	0.56	0.60	na	na	5.10	1.83	22.46	25.06	23.28	12.40
zeo	SL	soil	2021	Harvest	2.35	0.65	39.77	24.01	0.17	0.00	na	na	7.65	4.45	15.48	10.11	17.57	14.64
cnt	BG	soil	2019	Pre-Fert	7.46	2.23	14.41	5.68	0.67	0.42	1.07	1.51	2.19	0.96	3.73	3.96	14.14	8.47
zeo	BG	soil	2019	Pre-Fert	6.18	1.70	12.66	6.06	0.56	0.07	0.25	0.09	3.14	1.31	2.39	2.07	12.05	0.98
cnt	BG	soil	2019	Post-Fert	6.11	1.78	44.40	13.97	0.44	0.40	1.11	0.03	14.78	12.47	4.72	3.82	59.82	27.72
zeo	BG	soil	2019	Post-Fert	5.16	1.80	37.39	10.91	0.55	0.19	0.17	0.07	15.76	10.41	5.10	5.72	90.58	52.23
cnt	BG	soil	2019	Harvest	7.38	2.55	35.64	3.40	0.00	0.00	0.12	0.06	3.46	3.30	0.80	0.95	40.20	22.51
zeo	BG	soil	2019	Harvest	5.72	1.99	54.61	12.18	0.17	0.33	0.29	0.36	3.64	3.06	1.11	2.22	61.32	30.30
cnt	BG	soil	2020	Pre-Fert	na	na	na	na	na	na	na	na	na	na	na	na	na	na
zeo	BG	soil	2020	Pre-Fert	na	na	na	na	na	na	na	na	na	na	na	na	na	na
cnt	BG	soil	2020	Post-Fert	3.06	0.88	20.96	4.11	0.23	0.39	0.00	0.00	105.00	22.48	0.10	0.17	34.70	9.68
zeo	BG	soil	2020	Post-Fert	4.79	0.74	24.00	11.09	1.85	3.20	0.00	0.00	38.62	40.92	0.00	0.00	27.01	2.22
cnt	BG	soil	2020	Harvest	4.61	0.98	33.28	4.73	0.43	0.05	0.00	0.00	20.32	9.73	1.90	1.95	35.09	16.21
zeo	BG	soil	2020	Harvest	3.97	0.72	27.57	11.98	0.00	0.00	0.00	0.00	42.35	34.39	2.40	4.16	24.31	10.85

cnt	BG	soil	2021	Pre-Fert	6.14	3.02	34.92	2.31	0.46	0.41	0.00	0.00	11.16	8.56	2.21	2.00	14.28	10.21
zeo	BG	soil	2021	Pre-Fert	4.96	0.97	18.79	10.69	0.00	0.00	0.00	0.00	7.68	4.81	5.58	1.49	14.43	4.71
cnt	BG	soil	2021	Post-Fert	4.29	1.13	18.91	4.64	2.15	0.76	0.00	0.00	24.95	15.38	2.74	3.16	50.44	36.09
zeo	BG	soil	2021	Post-Fert	4.67	1.43	21.82	3.84	2.62	1.59	0.00	0.00	102.34	88.46	0.00	0.00	43.24	34.68
cnt	BG	soil	2021	Harvest	2.39	1.01	54.90	38.21	0.00	0.00	0.14	0.00	4.91	4.05	5.67	0.00	19.49	5.73
zeo	BG	soil	2021	Harvest	3.04	0.81	51.08	44.57	0.30	0.00	0.00	0.00	12.08	7.96	6.17	5.01	27.32	7.92
cnt	BN	soil	2019	Pre-Fert	6.67	1.27	15.45	12.84	1.26	0.99	0.00	0.00	6.64	6.23	0.08	0.12	5.17	2.76
zeo	BN	soil	2019	Pre-Fert	6.43	1.15	12.70	6.55	0.76	0.31	0.00	0.00	8.41	7.57	0.05	0.07	3.86	0.67
cnt	BN	soil	2019	Post-Fert	5.69	1.39	9.78	4.53	0.42	0.14	0.00	0.00	29.07	22.05	0.03	0.10	3.34	1.15
zeo	BN	soil	2019	Post-Fert	5.81	1.49	13.43	7.53	0.51	0.21	0.00	0.00	57.82	69.69	0.05	0.09	3.49	1.65
cnt	BN	soil	2019	Harvest	7.57	1.59	13.78	4.74	0.84	0.43	0.03	0.10	3.04	1.88	0.00	0.00	4.24	1.27
zeo	BN	soil	2019	Harvest	7.40	1.29	15.81	7.71	0.51	0.52	0.04	0.08	2.28	1.31	0.07	0.14	3.21	0.75
cnt	BN	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid
zeo	BN	soil	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid	covid
cnt	BN	soil	2020	Post-Fert	0.31	0.10	30.92	41.88	0.25	0.31	0.00	0.00	22.60	15.96	0.00	0.00	4.79	3.21
zeo	BN	soil	2020	Post-Fert	0.33	0.12	5.34	2.93	0.22	0.10	0.00	0.00	29.50	5.43	0.00	0.00	4.88	2.02
cnt	BN	soil	2020	Harvest	3.62	0.38	40.85	22.76	0.82	0.33	0.00	0.00	54.80	61.89	0.09	0.15	11.06	8.10
zeo	BN	soil	2020	Harvest	3.29	0.35	21.75	10.96	5.69	5.86	0.00	0.00	199.86	139.03	0.09	0.16	19.61	10.17
cnt	BN	soil	2021	Pre-Fert	3.62	0.38	40.85	22.76	0.82	0.33	0.00	0.00	54.80	61.89	0.09	0.15	11.06	8.10
zeo	BN	soil	2021	Pre-Fert	3.29	0.35	21.75	10.96	5.69	5.86	0.00	0.00	199.86	139.03	0.09	0.16	19.61	10.17
cnt	BN	soil	2021	Post-Fert	4.78	1.15	32.73	13.16	6.44	4.72	0.00	0.00	413.59	260.51	0.00	0.00	21.05	19.29
zeo	BN	soil	2021	Post-Fert	4.21	0.84	46.33	16.91	12.41	5.33	0.00	0.00	975.43	456.03	0.00	0.00	49.05	42.54
cnt	BN	soil	2021	Harvest	3.10	0.85	18.87	0.91	0.22	0.04	0.00	0.00	31.83	24.17	0.00	0.00	9.72	7.21
zeo	BN	soil	2021	Harvest	2.84	0.74	33.42	24.93	16.24	27.88	0.00	0.00	44.69	31.58	0.32	0.31	7.42	1.55

Treatment	Area	Type	Year	Management_status	TC (%)	dev.std TC	TN (%)	dev.std TN	$\delta^{13}\text{C}$	dev.std $\delta^{13}\text{C}$	$\delta^{15}\text{N}$	dev.std $\delta^{15}\text{N}$
cnt	SL	leaf	2019	Pre-Fert	44.951	1.322	2.069	0.189	-26.822	1.852	2.164	0.757
zeo	SL	leaf	2019	Pre-Fert	46.353	0.384	2.020	0.230	-25.966	0.431	1.795	1.429
cnt	SL	leaf	2019	Post-Fert	49.979	3.420	1.968	0.218	-25.243	0.458	3.629	0.607
zeo	SL	leaf	2019	Post-Fert	46.048	1.535	1.778	0.036	-24.905	0.634	2.631	1.419
cnt	SL	leaf	2019	Harvest	46.427	2.959	1.665	0.290	-25.503	0.558	4.088	0.563
zeo	SL	leaf	2019	Harvest	51.354	3.069	1.833	0.145	-25.608	0.419	2.537	1.086
cnt	SL	leaf	2020	Pre-Fert	covid	covid	covid	covid	covi	covid	covid	covid
zeo	SL	leaf	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid
cnt	SL	leaf	2020	Post-Fert	46.673	4.178	1.672	0.228	-26.053	0.724	2.770	1.700
zeo	SL	leaf	2020	Post-Fert	46.350	2.138	1.739	0.198	-24.423	0.918	1.787	1.272
cnt	SL	leaf	2020	Harvest	47.580	0.574	1.407	0.327	-24.390	2.144	0.723	4.517
zeo	SL	leaf	2020	Harvest	47.320	2.696	1.927	0.194	-28.320	6.699	0.563	4.027
cnt	SL	leaf	2021	Pre-Fert	44.523	2.572	1.845	0.332	-25.170	0.667	1.857	1.287
zeo	SL	leaf	2021	Pre-Fert	44.027	3.639	2.002	0.161	-25.153	0.451	2.643	0.093
cnt	SL	leaf	2021	Post-Fert	37.440	8.073	1.487	0.239	-23.797	0.423	0.683	1.946
zeo	SL	leaf	2021	Post-Fert	35.660	4.966	1.453	0.125	-24.010	0.199	2.083	0.692
cnt	SL	leaf	2021	Harvest	57.773	14.392	2.215	0.562	-57.867	1.904	2.217	2.276
zeo	SL	leaf	2021	Harvest	47.517	3.843	1.872	0.170	-49.247	6.866	-0.313	3.204
cnt	BG	leaf	2019	Pre-Fert	46.909	2.163	1.960	0.421	-24.922	0.237	2.645	0.893
zeo	BG	leaf	2019	Pre-Fert	45.808	0.766	1.709	0.146	-24.763	0.571	3.452	1.264
cnt	BG	leaf	2019	Post-Fert	42.201	8.359	1.059	0.225	-24.498	0.243	1.506	0.384
zeo	BG	leaf	2019	Post-Fert	46.861	0.521	1.160	0.105	-24.323	0.134	2.452	0.898
cnt	BG	leaf	2019	Harvest	57.960	7.439	1.395	0.403	-26.670	3.380	1.060	0.028
zeo	BG	leaf	2019	Harvest	49.652	1.384	1.249	0.148	-33.567	15.090	1.185	0.807
cnt	BG	leaf	2020	Pre-Fert	44.525	1.294	0.982	0.095	-24.380	0.297	0.795	1.110
zeo	BG	leaf	2020	Pre-Fert	43.985	4.476	0.945	0.018	-24.635	0.304	1.065	1.817
cnt	BG	leaf	2020	Post-Fert	48.120	1.218	0.794	0.058	-25.527	2.324	-0.303	0.692
zeo	BG	leaf	2020	Post-Fert	42.583	16.094	-0.151	1.814	-24.943	1.262	0.650	0.996
cnt	BG	leaf	2020	Harvest	40.363	0.627	1.105	0.060	-27.173	2.032	1.360	2.512

zeo	BG	leaf	2020	Harvest	44.980	5.983	1.263	0.175	-32.517	13.963	0.523	1.900
cnt	BG	leaf	2021	Pre-Fert	43.330	5.012	1.280	0.203	-24.670	0.319	1.505	0.726
zeo	BG	leaf	2021	Pre-Fert	44.215	4.593	1.412	0.416	-24.723	0.393	0.565	1.013
cnt	BG	leaf	2021	Post-Fert	46.297	7.252	1.474	0.364	-24.023	0.352	-2.117	1.930
zeo	BG	leaf	2021	Post-Fert	50.340	4.946	1.600	0.303	-24.183	0.060	-0.623	0.822
cnt	BG	leaf	2021	Harvest	52.327	2.120	1.690	0.272	-35.057	14.939	-0.107	1.804
zeo	BG	leaf	2021	Harvest	61.913	7.955	2.029	0.498	-36.667	22.806	-0.350	0.984
cnt	BN	leaf	2019	Pre-Fert	44.740	2.019	2.169	0.256	-25.918	0.425	0.340	1.462
zeo	BN	leaf	2019	Pre-Fert	45.166	1.019	2.267	0.262	-26.086	0.391	0.009	1.822
cnt	BN	leaf	2019	Post-Fert	44.855	1.274	1.794	0.045	-25.401	0.406	-1.932	0.627
zeo	BN	leaf	2019	Post-Fert	46.023	0.544	1.926	0.088	-26.487	0.579	-1.769	0.644
cnt	BN	leaf	2019	Harvest	48.140	4.739	2.081	0.125	-36.776	19.224	0.177	1.318
zeo	BN	leaf	2019	Harvest	51.932	7.873	2.289	0.295	-28.944	3.285	1.494	1.386
cnt	BN	leaf	2020	Pre-Fert	covid	covid	covid	covid	covid	covid-	covid	covid
zeo	BN	leaf	2020	Pre-Fert	covid	covid	covid	covid	covid	covid	covid	covid
cnt	BN	leaf	2020	Post-Fert	53.300	4.775	1.739	0.201	-29.220	7.838	-1.667	1.358
zeo	BN	leaf	2020	Post-Fert	47.937	2.336	1.721	0.150	-25.370	0.661	-1.627	0.248
cnt	BN	leaf	2020	Harvest	47.993	0.842	1.817	0.300	-24.560	0.439	-1.553	0.903
zeo	BN	leaf	2020	Harvest	49.257	2.115	2.025	0.269	-25.657	1.831	-0.790	1.502
cnt	BN	leaf	2021	Pre-Fert	47.993	0.842	1.817	0.300	-24.560	0.439	-1.553	0.903
zeo	BN	leaf	2021	Pre-Fert	49.257	2.115	2.025	0.269	-25.657	1.831	-0.790	1.502
cnt	BN	leaf	2021	Post-Fert	50.277	6.019	2.122	0.459	-23.813	0.520	-0.317	0.345
zeo	BN	leaf	2021	Post-Fert	48.227	13.246	1.910	0.493	-24.320	0.707	-2.377	1.756
cnt	BN	leaf	2021	Harvest	48.630	4.241	1.927	0.043	-33.620	14.441	-1.130	2.082
zeo	BN	leaf	2021	Harvest	50.920	5.931	1.996	0.383	-45.230	19.645	-0.990	1.428