

**Table S3.** Fluorescence parameters of lettuce leaves withr optimal plant nutrition and under nitrogen, phosphorus or potassium deficiency (day 21 of vegetation).

FL	Control		ND		PD		KD	
	M	SEM	M	SEM	M	SEM	M	SEM
<b>‘Vitaminnyi’</b>								
F	1656	101	1828	59	1501	101	1385	61
Fm'	1920	74	1958	55	1668	100	1584	56
Y(II)	0.141	0.021	0.067	0.008	0.104	0.018	0.127	0.014
Fo'	351	7.9	322	10.5	309	12.1	267	10.0
qP	0.174	0.027	0.080	0.009	0.130	0.026	0.152	0.018
qN	0.045	0.006	0.020	0.007	0.046	0.01	0.045	0.009
qL	0.039	0.008	0.014	0.002	0.030	0.009	0.030	0.004
NPQ	0.040	0.005	0.018	0.006	0.040	0.009	0.041	0.008
Y(NO)	0.826	0.024	0.917	0.009	0.863	0.023	0.840	0.018
Y(NPQ)	0.033	0.004	0.016	0.005	0.034	0.007	0.034	0.007
Fo	353	7.9	323	10.8	311	12.6	269	10.1
Fm	1995	70.3	1993	57.6	1732	94.6	1647	47.7
Fv/Fm	0.822	0.008	0.838	0.003	0.816	0.019	0.837	0.004
<b>‘Kokarda’</b>								
F	1611	87	1869	85	1756	40	1923	43
Fm'	1907	81	2017	83	1896	52	2061	39
Y(II)	0.157	0.014	0.074	0.006	0.069	0.007	0.068	0.004
Fo'	350	17.5	352	13.0	337	6.5	358	8.96
qP	0.193	0.018	0.090	0.008	0.08	0.009	0.082	0.005
qN	0.043	0.002	0.026	0.005	0.014	0.007	0.019	0.010
qL	0.043	0.005	0.017	0.002	0.016	0.002	0.015	0.001
NPQ	0.038	0.001	0.023	0.004	0.012	0.007	0.017	0.008
Y(NO)	0.813	0.014	0.905	0.009	0.920	0.013	0.917	0.011
Y(NPQ)	0.031	0.001	0.020	0.004	0.011	0.006	0.015	0.007
Fo	352	17.6	353	12.8	338	6.6	359	9.0
Fm	1979	85.1	2062	79.6	1919	55.0	2095	36.6
Fv/Fm	0.822	0.006	0.828	0.005	0.823	0.005	0.828	0.004

Note. M denotes fluorescence parameters mean values. SEM is the standard error of the means