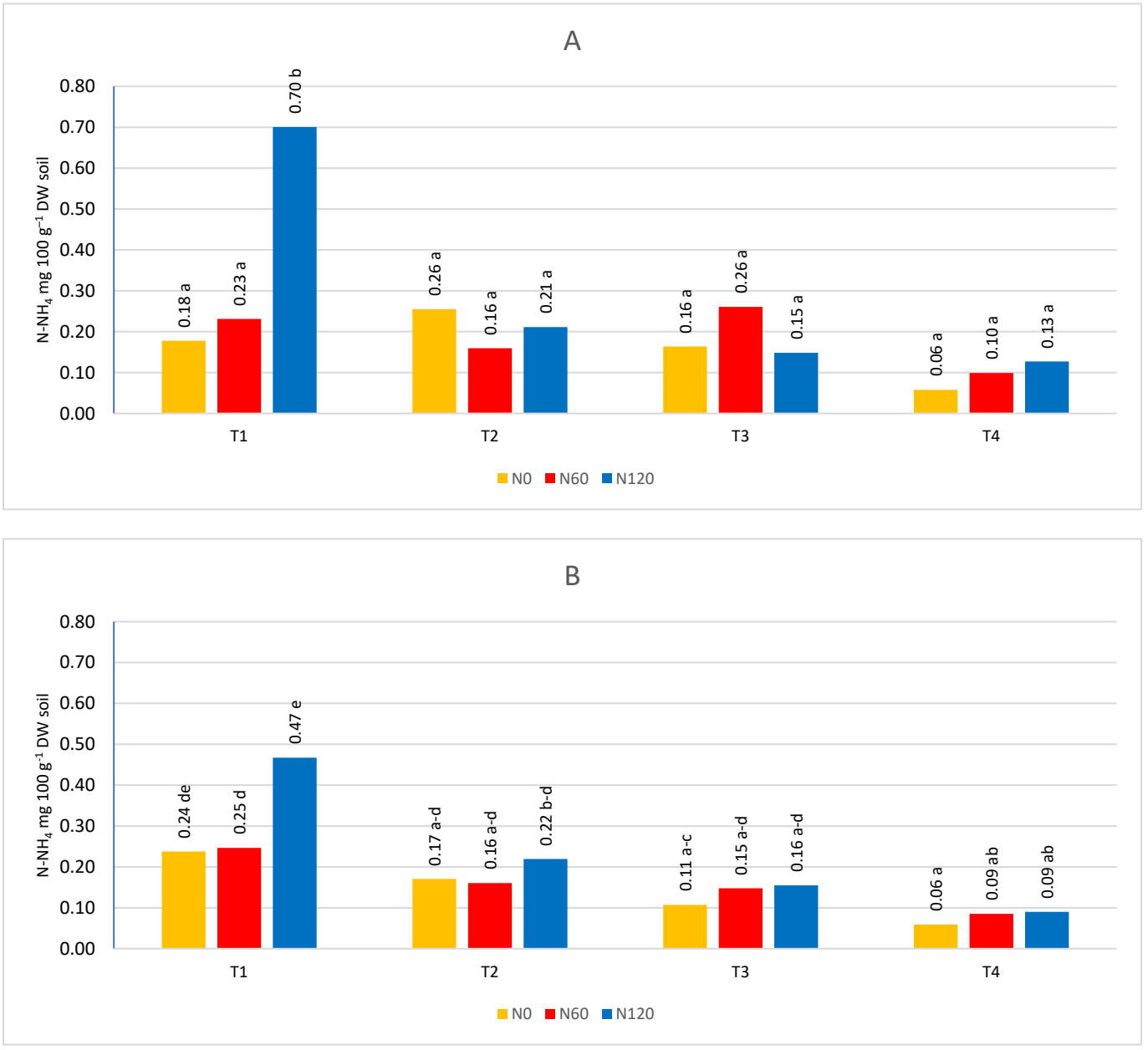


Figure S1. The content of N-NH4 depending on the term and nitrogen fertilization A- in the soil layer 0-20 cm, B- soil layer 21-40 cm. The nitrogen determination: T1- term after flowering trees, T2- term during the intensive fruit growth, T3 term after fruit harvest in August, T4 term after the end of vegetation.

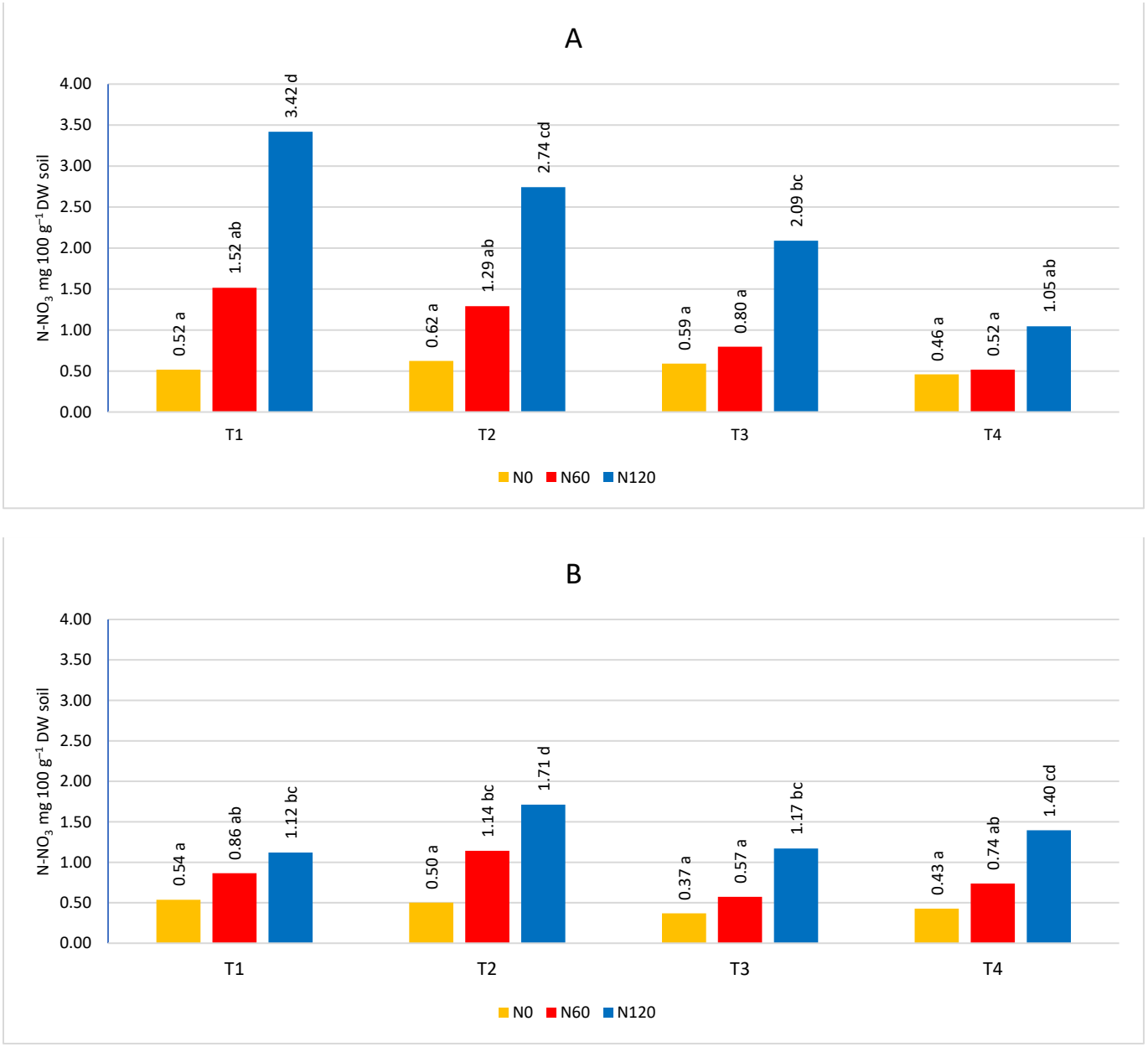


Figure S2. The content of N-NO3 depending on the term and nitrogen fertilization A in the soil layer 0-20 cm, B in the soil layer 21-40 cm.

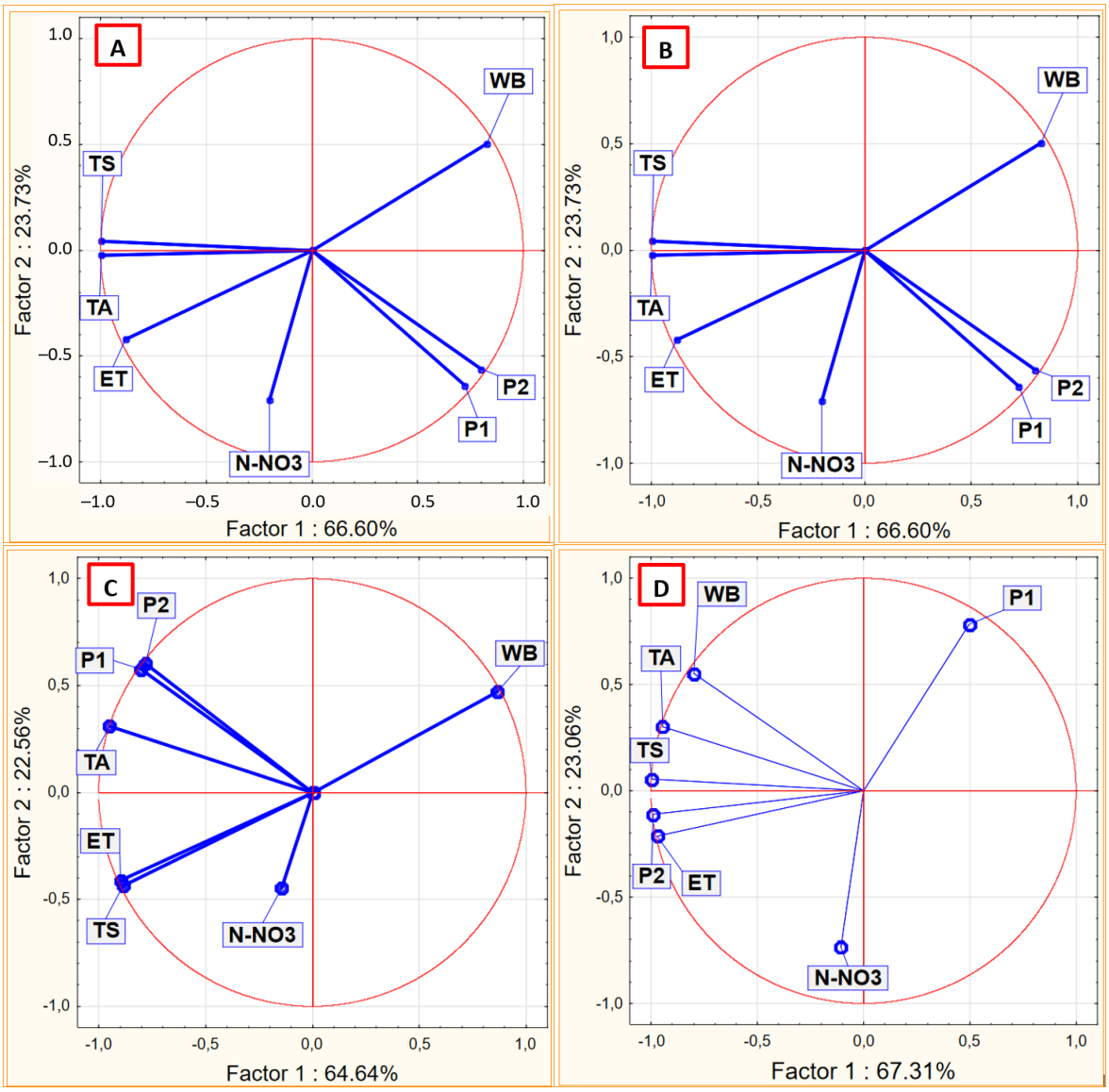


Figure S3. Influence of climatic conditions on the nitrate nitrogen content in the soil according to the sampling time, as shown by PCA. A- sampling time T1, B- sampling time T2, C- sampling time T3, D – sampling time T4. WB- water balance, P1- sum precipitation 30 days before sampling, P2 sum precipitation 14 days before sampling, TA- average temperature 30 days before sampling, TS- soil temperature. ET- evapotranspiration.

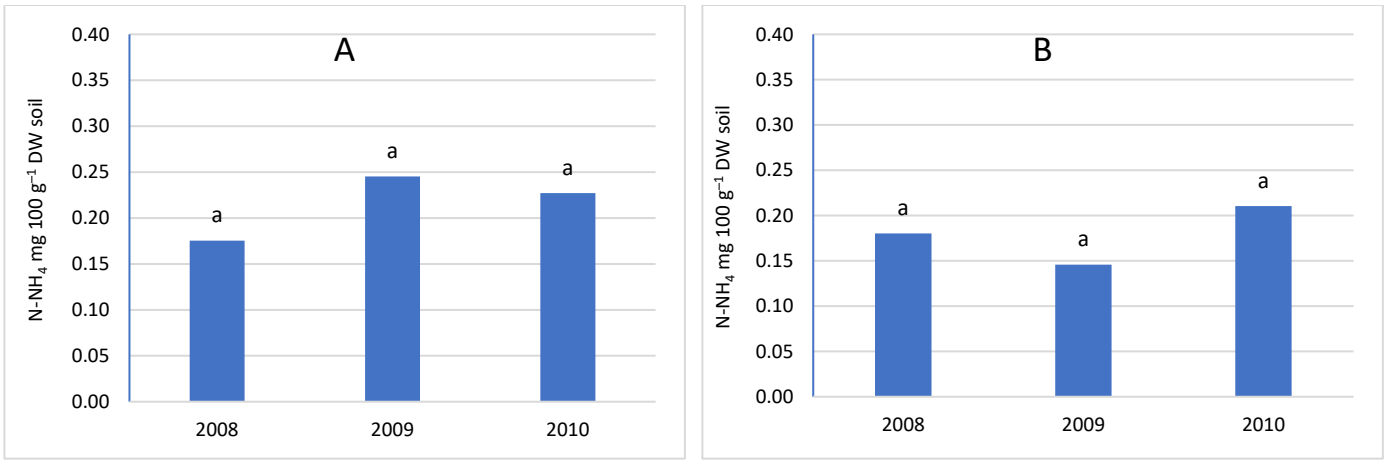


Figure S4. The content of N-NH4 depending on the year of research A- in the soil layer 0-20 cm, B- in the soil layer 21-40 cm.

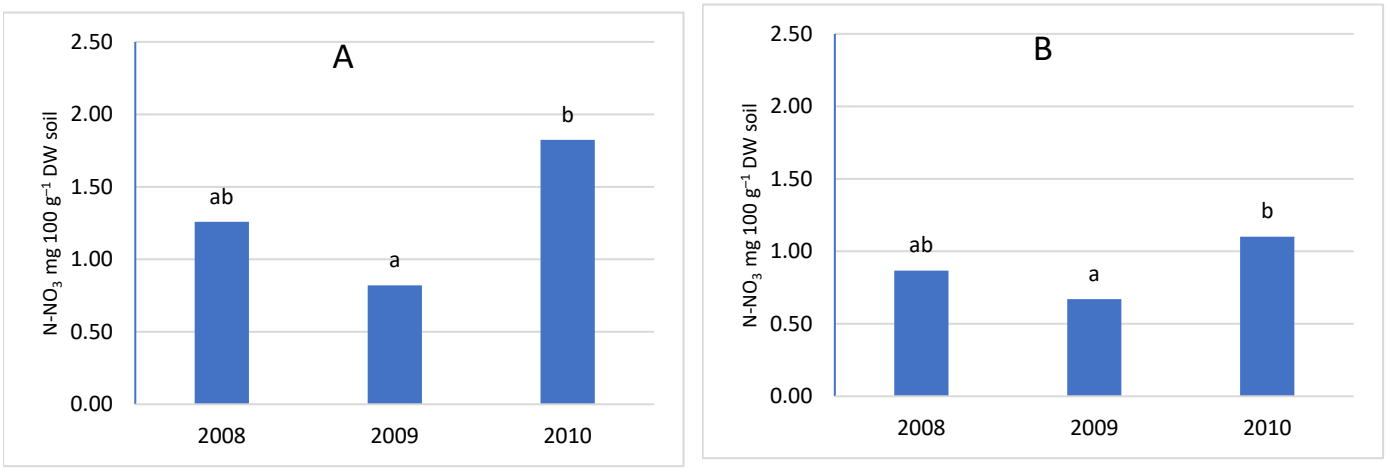
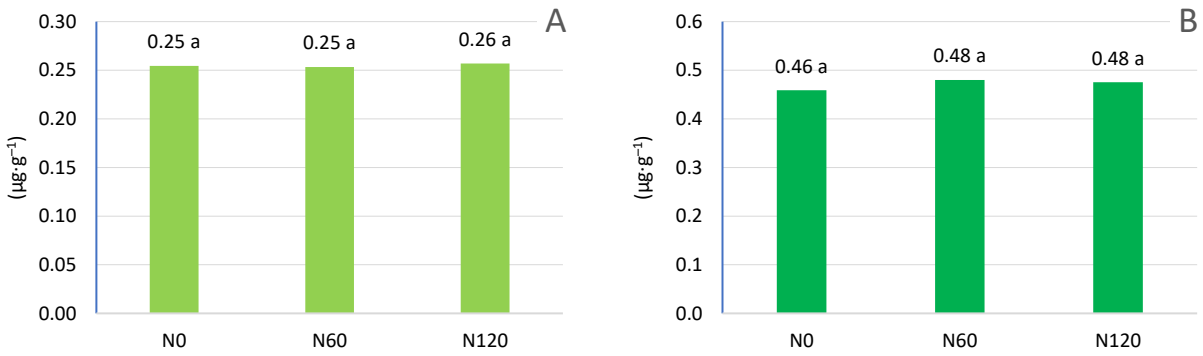


Figure S5. The content of N-NO3 according to the year of research A- in the soil layer 0-20 cm, B- in the soil layer 21-40 cm.



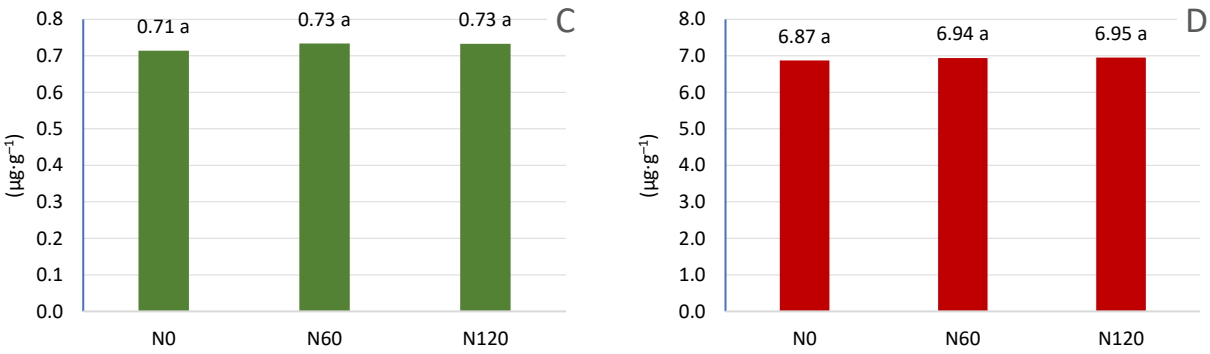


Figure S6. The content of pigments in the leaves depends on nitrogen fertilization. A- chlorophyll a, B- chlorophyll b, C- chlorophyll a+b, D– Carotenoids.