

Pollen anomalies in Scots pine (*Pinus sylvestris* L.) were studied under different ecological conditions. The results obtained testified to an adverse effect of technogenic pollution on the grain quality in Scots pine. The comparison of anomaly/fertility values using χ^2 -criterion revealed the significant differences between the test plots located under contrasting ecological conditions. The cytological method applied is considered as a very sensitive one for the assessment of the influence of unfavorable factors on Scots pine ecosystems.