

THE AIR WE BREATHE

Zhiromskiy A., student,
Zhiromskaya O. F., master student
Scientific supervisor – Slesaryonok E. V., senior lecturer
Belarusian National Technical University
Minsk, Republic of Belarus

To apply the passive lichen indication method sites that are on the same line as they move away from the source of pollution (tractor plant) were selected, namely: site № 1 – a forest park zone in the city of Zaslavl (conditional control), site № 2 – the Pobeda Museum and park complex, site № 3 – inside the territory of the branch of BNTU “MGASK”, site № 4 – public garden “Belarus Partizanskaya”. An increased level of air pollution was detected in the area of site № 4. This is evidenced by the poor flora of lichens and an indicator of the relative purity of the atmosphere. The cause of pollution is the nearby public highway, connecting Minsk, Gomel and Mogilev. This contributes to air pollution, and the area is also an industrial part of the city. The lowest level of pollution was determined at site № 1. Far from sources of pollution, the air is cleaner, and there are more lichens. Along with crustaceans, there are leafy and bushy forms of lichens. Indeed, there are no industrial enterprises in the city and it is located 25 km from Minsk. However, the railway passing near the city has an impact on the purity of the air. On site № 2 favorable conditions have developed for the development of lichen flora. Although emissions of harmful substances into the atmosphere from enterprises and highways are present here, the level of pollution in this area is low. This is due to the fact that site № 2 is located on the banks of the artificial lake “Komsomolskoye Ozero”. On site № 3 the degree of coverage of the tree trunk with lichens is 50 % less than the control number, which may be due to the content of harmful substances in the air from the exhaust gases of cars. The college is located in the center of Minsk and is surrounded on all sides by major highways with parked cars. The territory of the branch of BNTU “MGASK” is located on a site that has an average degree of pollution. It is necessary to develop the park, switch to environmentally friendly fuels, electric cars, bicycles and, as an option, walk.