

## HARMFUL EFFECTS OF ATMOSPHERIC AIR ON THE EXTERNAL ENVIRONMENT

*Yadgarova Shahodat Salihovna*

[yadgarova.shaxodat@bsmi.uz](mailto:yadgarova.shaxodat@bsmi.uz)

*Bukhara State Medical Institute, Uzbekistan*

<https://orcid.org/0009-0004-70025-5671>

**Abstract.** Mineral substances make up the solid part of the soil. In natural deposition, solid particles occupy a certain part of the mass of the soil, and the rest is made up of pits (porosity), which have different sizes and shapes in the range of particles and their aggregates. The total sum of these spaces is called soil porosity. Soil porosity is Capillary and non-capillary. Small particles of capillary porous soil are equal to the volume in the capillary range, and non-capillary porosity is equal to the volume of large pits between the elements of the macrostructure.

**Keywords.** Lithosphere, radiating rocks, reclamation state, microflora.

The soil is a natural structure formed from the change of lithospheric surface floors under the influence of water, air and living organisms and made up of genetically interconnected horizons; the surface and fertile layer of the Earth's crust. The most important feature of the soil, which differs from the radiating rocks, is its fertility. Soil science is engaged in such issues as the study of soil and the compilation of its classification, the development of methods for improving its composition and increasing its fertility. The main factors that make up the soil are: climate, soil native sex, flora and fauna, terrain and geological age of the area and human economic activity.

Rock rocks that rise to the surface of the earth are eroded (irradiated) under the influence of precipitation, carbon dioxide, oxygen, air temperature, mechanical forces, water and substances dissolved in it, air, microorganisms and tuberous plants (or lichens). The radiating rocks are crushed to form a porous layer. This layer acquires a new property over time — a moist capacity and a small amount of nutrients that plants can absorb. Microorganisms in the emerging new environment create conditions for the growth of plants due to their life activity, plants absorb and accumulate in themselves the necessary nutrients for their life from the soil. Part of the destroyed plant decomposes under the influence of microorganisms and turns into minerals, and the rest into humus (humus) as a result of complex biochemical processes. All these processes take place in conditions of continuous irradiation, as well as the sour substances secreted by the plant roots, as well as organic residues.

The soil is composed of solid, liquid, gaseous and living components. Their ratio to each other is different. Not only in the same soil, but also different in different layers of one soil type. Mineral substances make up the solid part of the soil. In natural deposition, solid particles occupy a certain part of the mass of the soil, and the rest is made up of pits (porosity), which have different sizes and shapes in the range of particles and their aggregates. The total sum of these spaces is called soil porosity. Soil porosity is Capillary and non-capillary. Small particles of capillary porous soil are equal to the volume in the capillary range, and non-capillary porosity is equal to the volume of large pits between the elements of the macrostructure. The porosity of the mineral part of the soil is around 40-60%, and in swampy and glazed soils it is around 27%. Porosity depends on the specific and volume weight of the soil. Earth in the composition, which makes up the liquid part of the soil in the pits.

The air permeability of the soil is the right proportional size to the amount of air in it, and depends on the structure, structure and water resistance of the soil. The specific mass of the soil is determined by the ratio of the weight of a certain volume of soil solid to the weight of water of the same volume obtained at 4°. The specific mass of mineral parts depends on the mineralogical composition and the content of organic substances in it (ranges from 2.50— 2.80 g/cm<sup>3</sup>). The density of intact soil is said to be the weight of 1 cm<sup>3</sup> soil weight in its natural state per gram, and is determined by the porosity of the soil and the average density of the solid phase. The chemical composition, physicochemical, physicochemical and other properties of the soil that determine the level of fertility depend to some extent on the nature and composition of the absorbing complex in it. Depending on the characteristics of this absorbent complex of the soil, measures for improving the land are prescribed.

The living component of the soil is soil microorganisms (see microflora), many groups of invertebrates — from representatives of the simplest animals, earthworms, molluscs, insects, and Earth-carving vertebrates (hummingbirds, mice, rats), etc. formed from them.

Based on the circulation and resettlement of substances in nature, soil morphology, composition and properties change along the profile from top to bottom according to a certain law and are manifested in the alternation of soil horizons. Therefore, the improper use of soil cover, which is one of the factors that make up a person's living environment without knowing these processes, leads to soil erosion, its salinity and waterlogging. Agriculture to reduce soil pollution. At the rules for the use of pesticides are introduced.

### Literature used

1. Azim o'g'li N. S. Sanitary Protection of Water Bodies and The Process of Natural Cleaning in Water Bodies //AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI. – 2023. – T. 2. – №. 10. – C. 83-85.

2. Azim o'g'li N. S. Cleaning of Open Water Bodies From Waste Water From Production Enterprises //SCIENTIFIC JOURNAL OF APPLIED AND MEDICAL SCIENCES. – 2023. – T. 2. – №. 10. – C. 80-82.
3. Azim o'g'li N. S. Existing Problems in Providing the Population With Drinking Water Through Underground Water Sources //AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI. – 2023. – T. 2. – №. 10. – C. 77-79.
4. O'G N. S. A. Z. et al. CHANGES IN TASTE AND FOOD INTAKE DURING THE MENSTRUAL CYCLE //Science and innovation. – 2022. – T. 1. – №. D3. – C. 251-253.
5. Нуров С. А. ИНСОН ОРГАНИЗМИДАГИ СУВНИНГ ХУСУСИЯТЛАРИ ВА ЮҚОРИ КИМЁВИЙ ТАРКИБЛИ СУВ ТАЪСИРИНИНГ ПАТОГЕНЕТИК ЖИҲАТЛАРИ //SCIENTIFIC JOURNAL OF APPLIED AND MEDICAL SCIENCES. – 2024. – T. 3. – №. 6. – C. 121-123.
6. Azimovich N. S. Pathogenetic Aspects of the Effect of Water with a High Chemical Content //International Journal of Integrative and Modern Medicine. – 2024. – T. 2. – №. 6. – C. 81-83.
7. Azimovich N. S. The Importance of Minerals for the Human Body //International Journal of Integrative and Modern Medicine. – 2024. – T. 2. – №. 6. – C. 77-80.
8. Azimovich N. S. Correction of Morpho-Functional Changes in the Kidney Caused by Groundwater Consumption with Bioactive Additives //International Journal of Integrative and Modern Medicine. – 2024. – T. 2. – №. 6. – C. 84-85.
9. Azimovich N. S. PATHOGENETIC ASPECTS OF THE PROPERTIES OF WATER IN THE HUMAN BODY AND THE EFFECT OF SOLID WATER //World Bulletin of Public Health. – 2024. – T. 34. – C. 47-49.
10. Sarboz A'zim o'g N. et al. STRATEGIES AND APPROACHES TO REACH OUT-OF-SCHOOL CHILDREN AND ADOLESCENTS //EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE. – 2023. – T. 3. – №. 3. – C. 56-58.
11. Sarboz A'zim o'g N. et al. Key Considerations for Assessing School Food Environments //AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI. – 2023. – T. 2. – №. 3. – C. 85-87.
12. Azim o'g'li N. S. Sanitary Protection of Water Bodies and The Process of Natural Cleaning in Water Bodies //AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI. – 2023. – T. 2. – №. 10. – C. 83-85.
13. Sarboz A'zim o'g N. et al. Disruption of Natural Systems Affects Health //AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI. – 2022. – C. 258-260.
14. Sarboz A'zim o'g N. et al. The Importance of Ecology for Children's Health and Well-Being //SCIENTIFIC JOURNAL OF APPLIED AND MEDICAL SCIENCES. – 2022. – C. 238-240.



- 15.Ю.С. Салиховна. Медицинские факторы, связанные с физическим развитием детей //- Центральноазиатский медико-естественный журнал, 2021
- 16.ШС Ядгарова. Антропометрические показатели Детей Города И Сельской Местности // - Центральный Азиатский Журнал из Медицинский и Естественный Наука , 2021
- 17.Ю.С. Салиховна. Основы гигиенической оценки физического развития детей в дошкольных образовательных учреждениях //- АМАЛИЙ В.А. ТИББИЙОТ ФАНЛАРИ ИЛМИЙ ЖУРНАЛИ, 2022
- 18.ШС Ядгарова, ШО Саитов, С.С. Набиева. Требования к питанию и применению биологически активных препаратов при COVID -19 // - Новый день в медицине, 2020
- 19.Ю.С. Салиховна. Современный подход к состоянию здоровья и когнитивному развитию детей и подростков в условиях реформы дошкольного образовательного учреждения // - АМАЛИЙ ВА ТИББИЙОТ ФАНЛАРИ ИЛМИЙ ЖУРНАЛИ, 2022
- 20.Ю. С. Салиховна. Гигиеническая оценка состояния здоровья и физического развития детей дошкольного возраста при сочетанном воздействии химических факторов окружающей среды-2022
- 21.Ю.С. Салиховна. Гигиеническая оценка роста и развития детей в условиях реформы дошкольного образования //- Европейский журнал безопасности и стабильности жизнедеятельности (2660..., 2022)