

===== **DISTRIBUTION AND PROTECTION OF ECOSYSTEMS** =====
AND THEIR COMPONENTS

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**DISTRIBUTION OF ALLERGENIC PLANTS ON THE TERRITORY OF RUSSIA AND
REPUBLIC OF KAZAKHSTAN: PROBLEMS OF STUDYING AND SOME RESULTS**

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Allergenic diseases became very widespread during the last decades in industrialized countries. One of the main causes of allergy is plants pollen. Pollinosis is the disease of every fourth person of the Earth. In this paper we present some approaches to the studying of allergenic plants distribution on the territory of Russia and Kazakhstan. The following methods were applied to the analysis of allergenic plants distribution:

- Cartographic analysis of allergenic plants species per administrative unit of the country, calculation of allergenic danger and cartographic analysis of “allergenic index”;
- Analysis of “hazard indicator” calculated for the population of each administrative unit;
- Calculation of the routes of pollen flight in accordance with the wind rose in the cities;
- Evaluation of allergenic introduced plants impact on public health;
- Evaluation of morphological composition of pollen and its role in allergenic reaction.

In conclusion we give some recommendations for lowering of danger of allergenic reaction.

Keywords: allergenic plants, pollinosis, allergenic index, cross allergy, maps of distribution.

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