

entific instrument of soil-cartographic, scientific-methodological and other works that require a scientifically grounded approach to the use of the republic's land resources. A more in-depth study of the republic's soils, accompanied by the accumulation of data on the structure of the profiles, the statistical and dynamic composition and properties, and their role in the functioning of soil systems, shows that the existing classification scheme needs to be improved.

In 1980, based on previous studies the new soil classification was developed (Smeyan 1980). It reflected natural and anthropogenic aspects of soil forming processes and remains relevant, taking into consideration the changes and additions made based on studying anthropogenically-transformed soils in the subsequent years. Based on the classification the nomenclature of soils of Belarus including 13 basic soil types: Sod-carbonate, Brown forest, Podzolic, Sod-podzolic, Podzolic waterlogged, Sod-podzolic waterlogged, Bog-podzolic, Sod waterlogged, Peat-bog (ground water), Peat-bog (water from atmospheric precipitations), Alluvial sod and sod waterlogged, Alluvial boggy, Anthropogenically transformed.

Today we have new classifications (for example Klebanovich's classifications, 2015) but all of them are based on the previous one developed in 1980.

Historically developed and actively used in soil mapping in the Republic of Belarus, the genetic classification of soils, in which 13 soil types are identified, is quite complete and informative for the country. However, the separation of some types of soil is controversial.

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### **ESSENTIAL OILS. AROMATHERAPY**

Essential oil is concentrated plant extract that has the characteristic taste and odor of the plant from which it was derived.

Chemical composition of essential oil. Essential oils are complex mixtures of organic compounds, such as terpenes, phenols, alcohols, aldehydes, ethers, ketones, carboxylic acids, oxides and others. The essential oil composition depends on the species of the extracted plant, the geographic location of this plant, harvest time and extraction technique [1].

Methods for the extraction oils and application of them. The most common methods for the extraction oils are steam-distillation, extraction with solvents and expression. Their selection will depend on the characteristics of the material from which the oil will be extracted. These oils are located in the seeds, leaves, stems, bark, roots, fruit, and flowers of the plants. A few of the essential oils are found in animal sources, for example, musk and sperm whale, or are produced by microorganisms [1].

Essential oils are used in the cosmetic industry, as ingredients of fragrances, decorative cosmetic, in the food industry, in the pharmaceutical industry, as components of medicines and as antibacterials, and in aromatherapy.

What is Aromatherapy? Aromatherapy is a type of medicine practice utilizing aromatic essential oils that are derived from healing plants. The term is derived from two words: Aroma (smell) and Therapy (healing). When inhaled or applied to the skin essential oils help people overcome various health problems without the need for medications. Essential oils are used to treat headaches, depression, insomnia, muscle pain; digestion, skin and respiratory problems, to improve sleep quality, to fight bacteria or fungus, to boost immunity.

The most popular essential oils are clary sage, cypress, eucalyptus, geranium, ginger, lavender, lemon, mandarin, peppermint, chamomile, rose, tea tree.

## REFERENCES

1. Chemical Structure, Quality Indices and Bioactivity of Essential Oil Constituents [Electronic resource]. – Mode of access: <https://www.intechopen.com>. – Date of access: 23.03.2020.

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## VOGELBEOBACHTUNG

Die Vogelbeobachtung ist ein praktisches Teilgebiet der Ornithologie. Die Vogelbeobachtung ist dasselbe wie birdwatching. Heute werden spezielle Touren für sie in den Nationalpark Pripjatskij, das Berezinsky Biosphärenreservat und andere Naturschutzgebiete organisiert.

Um Vögel in der Natur oder in der Stadt zu beobachten braucht man ein Fernglas, ein gutes Bestimmungsbuch und viel Geduld.