



## **CORNUS MAS L. MORPHOBIOLOGICAL FEATURES AND HEALING PROPERTIES**

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### **Annotation**

Red ordinary (or male) - deciduous, strongly branched shrub or small tree up to 8 m tall. Dogwood fruits are considered biologically valuable. Their pulp contains up to 17% sugars, over 3% organic acids, vitamins C, P, A, many salts of iron, potassium, calcium, magnesium and sulfur. The unique properties of common dogwood and its biological value are due to the presence in the berries of a wide variety of substances and elements that are beneficial to human health.

**Keywords:** Red, garden plant, health, uses, medicinal properties, Vitamin C, immunity.

### **Introduction**

Red refers to early-flowering plants. Dogwood grows on any soil, but bears fruit abundantly on calcareous ones with a sufficient content of manganese. Dogwood fruits are mainly harvested from wild trees, of which there are still quite a lot in the Caucasus, Western Ukraine and especially in the Crimea [1]. Young shoots are green, later from yellow-gray to reddish-brown. The fruits of the male dogwood have a pleasant taste and a peculiar aroma. Dogwood bones consist of stony cells, have large air chambers, and inside the bone itself, all samples have two-seed chambers. Dogwood fruits, according to S.V. Klimenko [3], contain 7-15% sugars (glucose and fructose), 1.0-2.5% organic acids (malic, gallic, salicylic, etc.), 0.5-1.5% pectins, 60-105 mg% ascorbic acid, 250-700 mg% P-active substances. Juice, jam and compote from dogwood fruits are useful for anemia, liver diseases, gout, and pancreatic diseases. Infusions of leaves and flowers are known as antipyretic and diuretic, and from the bark as a tonic and stimulating [4,5].





Fig.1. *Cornus mas*.L. Dogwood flowering

Medicines from fruits and leaves are used as astringents and disinfectants, selectively acting even on dysentery bacillus, pathogens of typhus. According to A. I. Blaze [2], dogwood is used for rheumatism, colds, fever and skin diseases. Refers to medicinal plants, is a raw material for the pharmaceutical industry. The unique properties of common dogwood and its biological value are due to the presence in the berries of a wide variety of substances and elements useful for human health. Such substances are: organic acids, glucose and fructose, vitamins, tannins and flavonoids, trace elements (magnesium, iron and potassium), essential oils. Thanks to these components, dogwood has long been used to strengthen immunity, in the treatment of anemia, arthritis, infectious diseases, hemorrhoids. Dogwood, having a good astringent property, has a positive effect on gastrointestinal diseases. The phytoncides contained in it have a detrimental effect on typhoid, dysentery and other pathogenic microbes. Its durable and hard wood with a beautiful texture is of great value. The seeds of berries are rich in essential oils that have found application in the cosmetic and perfume industry. The highly valued taste and medicinal qualities of dogwood give reason to believe that this plant has long deserved to be introduced into culture, so dogwood can make a profit not only as a fruit crop.



Fig.2. Red common *Cornus mas*.L.



The main economic indicators that determine the value of dogwood are: high yield, drought resistance, resistance to pests and diseases, durability (in favorable conditions it lives up to 250 years), excellent honey content [6]. The fruits are beautiful, of various shapes and sizes, juicy drupes with a sweet and sour taste, contain a large amount of easily digestible glucose, fructose, vitamin C and pectin substances, organic acids, especially malic, nicotinic, salicylic, mineral salts (iron, calcium, potassium, magnesium), phytoncides, essential oils [7]. This is important, because with regular inclusion of dogwood in the diet, you can fill the daily need for vitamins. Fresh fruits are recommended for anemia, gout, arthritis, gastrointestinal diseases. They are used as a hemostatic and bactericidal agent that improves metabolism. They are eaten both fresh and frozen and processed [8].

Red is a valuable fruit, medicinal, ornamental plant. The main biological features of the species: there is no periodicity in fruiting, biological productivity in favorable growing conditions is 25-00 kg per tree, depending on its age. Plants are practically not damaged by pests and diseases, do not require treatment with pesticides. Garden dogwood does not require any special agricultural equipment. The varieties selected by the National Botanical Garden are the basis for the creation of productive, cost-effective farm and private dogwood gardens.

## Literature

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