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“INNOVATION IN THE MODERN EDUCATION SYSTEM”

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**MAMADALIEV ASILBEK NURMUKHAMMAD UGLI**

author of the article:

**TECHNICAL HEMP IS THE PLANT OF THE FUTURE.**



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**TECHNICAL HEMP IS THE PLANT OF THE FUTURE.**

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Sowing hemp ( *Cannabis sativa L.* ) is an annual bast-fiber agricultural crop, which is a raw material for a huge variety of products in various industries (food, medical, textile, paper, construction, fuel and many others). Depending on the variety and the purpose of its cultivation, hemp cultivation directions are divided into seed (for obtaining seeds), "green" (for obtaining fiber) and bilateral use (for fiber and seeds). Hemp fiber (hemp), cellulose and hemp seed oil are of particular value to the plant. Studies have established that the stems of selective varieties of hemp contain about 32% fiber, 55% cellulose, seeds contain about 32% oil [1].

Hemp forms a large biomass compared to other crops. This biomass can be processed into pure alcohol fuels or artificial coal. From four tons of hemp stalk, one ton of fuel is obtained. The stems of new varieties of hemp contain 27-30% fiber, 40-48% cellulose, 26% lignin, which does not exclude additional use of the crop under conditions of wood shortage. For example, the annual growth of a 10-year-old pine forest is 2.5 m<sup>3</sup> from 1 hectare, and the yield of southern hemp stems from 1 hectare is 3-5 times more, that is, from 1 hectare hemp gives a much greater increase in wood than forest species. Using this feature of hemp, you can reduce deforestation, which will have a positive impact on the environment. Hemp forms a large biomass compared to other crops. This biomass can be processed into pure alcohol fuels or artificial coal. From four tons of hemp stalk , one ton of fuel is obtained [2]. From one hectare of hemp, you can get as much paper as from **4** hectares of forest. Trees take **20** to **50** years to grow to be ready for use. Hemp also grows to a height **of 2,5 4,0** m for **4-5** months after sowing.

Harvest straw, wood from a different plant

Table 1

Culture	Straw harvest wood, c / ha	Cellulose yield	
		Output in%	Make in year t / ha
Forest (timber)	40-50	38-40	0.5-1.5

Flax fiber	20-40	54.0	1.1-2.2
Rape	50-100	42.5	2.1-4.3
Hemp	130-190	52-60	7.0-10.0

High quality cost. Cellulose - 3600-3800 dollars. Ton of Khtmts - 1800 dollars. T (chemothermal microcellulose)

Great use conop To find and construction are different insulation mats are eco-friendly, kostroplity, kostrobloki etc. In Germany, a house was built that consisted of 90% hemp. The doors and floors of which were also made of hemp stalks, which, at high temperature and pressure, turn into environmentally friendly plastic, without formaldehyde resin, but only due to the presence of lignin. Hemp, or rather oil and seeds, are widely used in the food industry [ 3] .

Hemp is mainly used in the textile industry. Hemp fabrics are soft and pleasant, they keep you cool in summer and warm in winter. This fiber absorbs moisture from the body and dissipates heat. It also absorbs up to 95% of infrared and UVA rays . Another interesting fact is that hemp clothing reflects electromagnetic radiation . This fiber is 3 times stronger than cotton, and of all natural fibers such as wool, it has the least amount of wear. Hemp is considered a living fiber, and when left outdoors overnight, hemp clothing will heal itself and become soft again.

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