



CURRENT STATE OF THE REPUBLIC'S SILK INDUSTRY AND PROSPECTS FOR ITS DEVELOPMENT

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ABSTRACT

This article analyzes the current state of the sericulture industry of our republic and the prospects for its development. The forces that negatively affect the cocoon shell during the processes of preparation, transportation, storage and preliminary processing of cocoons, which are the main raw material of cocoon enterprises, are theoretically studied. The values of the forces acting on the cocoon during the mixing of cocoons with wooden shovels at cocoon reception points are also determined.

Keywords: Cocoon, silk, silk fiber, sericulture, steaming, cocoon steaming device, cocoon shell, mixing, speed, acceleration, damage, experiment..

Introduction

In our republic, special attention is paid to the cultivation of high-quality cocoon raw materials, the extraction of high-quality raw silk from the grown cocoons that meet the requirements of world standards, the improvement of the quality of silk products and the expansion of the assortment, the reduction of their cost, the identification of factors that negatively affect the quality of products and their elimination. The development of the silk industry not only increases the source of income for cocoons, but also leads to an increase in the amount of cocoons grown, an increase in the amount of raw silk and silk products obtained from them, and an increase in the volume of exports to foreign countries, and also has an impact on the development of the economy of our republic. In our republic, special attention is paid to the cultivation of high-quality cocoon raw materials, the extraction of high-quality raw silk from the



grown cocoons that meet the requirements of world standards, the improvement of the quality of silk products and the expansion of the assortment, the reduction of their cost, the identification of factors that negatively affect the quality of products and their elimination. The development of the silk industry not only increases the source of income for cocoons, but also leads to an increase in the amount of cocoons grown, an increase in the amount of raw silk and silk products obtained from them, and an increase in the volume of exports to foreign countries, and also has an impact on the development of the economy of our republic.

The President of the Republic of Uzbekistan and the Cabinet of Ministers have adopted a number of Resolutions and Decrees for the comprehensive development of the sericulture industry. These Resolutions and Decrees are mainly aimed at the rapid development of the sericulture feed base, continuous improvement of the processes of silkworm care and cocoon cultivation, widespread introduction of effective methods of sericulture industry, production of cocoons, raw silk, unwound silk, silk yarn and their deep processing, establishment of the production of finished products from silk yarn, increasing the export potential of the industry and increasing the level of additional employment for the population in rural areas.

The “Uzbekipaksanoat” Association was established by the Resolution of the President of the Republic of Uzbekistan dated March 29, 2017 No. PQ 2856. It envisages the comprehensive development of the sericulture industry by establishing a single and integrated organizational technological process that ensures the continuous integration of the technological processes of silkworm seed preparation, revival, feeding, cocoon cultivation, preliminary processing, storage of dry cocoons, processing, and production of silk products in a single system. In accordance with this Resolution, the main tasks and activities of the “Uzbekipaksanoat” Association are as follows: strengthening the silkworm feed base; preparation of silkworm seed; improvement of cocoon cultivation, cocoon preparation and primary processing processes; organization of deep processing processes of dry cocoons; coordination of the rapid development of the industry; creation of new jobs and employment of the population.

Based on the requirements of Resolution No. PQ 2856, in order to improve the processes of cocoon cultivation and processing, to produce high-quality cocoon crops through fundamental changes in the sericulture sector, to properly organize the production of raw silk and silk products, and to increase the competitiveness of these



products, the Uzbek Paksanoat Association has determined priority areas for further development of the sericulture sector for 2021-2025. Based on this priority area, in line with the sharp increase in the volume of cocoon cultivation, a sharp increase in the volume of raw silk production and processing, as well as the production of silk products, will be achieved. Based on the requirements of Resolution No. PQ 2856, in order to improve the processes of cocoon cultivation and processing, to produce high-quality cocoon crops through fundamental changes in the sericulture sector, to properly organize the production of raw silk and silk products, and to increase the competitiveness of these products, the Uzbek Paksanoat Association has determined priority areas for further development of the sericulture sector for 2021-2025. Based on this priority area, in line with the sharp increase in the volume of cocoon cultivation, a sharp increase in the volume of raw silk production and processing, as well as the production of silk products, will be achieved. Based on the requirements of Resolution No. PQ 2856, in order to improve the processes of cocoon cultivation and processing, to produce high-quality cocoon crops through fundamental changes in the sericulture sector, to properly organize the production of raw silk and silk products, and to increase the competitiveness of these products, the Uzbek Paksanoat Association has determined priority areas for further development of the sericulture sector for 2021-2025. Based on this priority area, in line with the sharp increase in the volume of cocoon cultivation, a sharp increase in the volume of raw silk production and processing, as well as the production of silk products, will be achieved.

One of the priority tasks of producing modern products using innovative technologies in our republic is to expand the export of low-cost, industrially produced products that meet world standards, effectively using existing raw materials and waste-free technology. Serious attention is being paid to the quality of all types of products produced in our independent country, including cocoons and products obtained from them. Another change in the industry is that cocooning units no longer raise silkworms in their homes for a full month, as before. Because 220 innovative silkworm houses have been built across our country. Each of these cocoons houses 250 boxes of one to three-year-old silkworms and 30-40 boxes of four-five-year-old silkworms. Each innovative cocoon house employs 10 permanent workers and up to 60 seasonal workers.

At the suggestion of the “Uzbekipaksanoat” association, in addition to the first harvest, about 500 tons of cocoons were grown in 2017 through the second autumn cocoon



feeding. Of course, this level of growth in cocoon production was achieved as a result of the organizational work of specialists and managers of regional and district sericulture departments, breeding stations, seed factories, and cocoons. The implemented comprehensive measures will increase the volume of cocoon raw material cultivation, increase the volume of export-oriented silk products through its processing, and also provide employment to the population in remote regions of our republic.

The Resolution of the President of the Republic of Uzbekistan No. PQ-4567 dated January 17, 2020 “On additional measures to develop the silkworm feed base in the silkworm breeding industry” stipulates the implementation of a number of measures to expand mulberry plantations in the Republic, encourage the use of water-saving irrigation technologies in mulberry farming and the effective implementation of agrotechnical measures, increase the feed base of the silkworm breeding industry through the widespread introduction of innovative ideas, scientific developments and scientific achievements, increase the production of products intended for export, as well as further deepen the reforms being implemented in the silkworm breeding industry. In accordance with this Resolution, promising development indicators for silkworm breeding in the Republic for 2021-2025 have been established.

Our republic has favorable conditions for the development of cocoon farming and an increase in the volume of raw material production. Further development of the industry will not only increase the income of cocoon farmers, but also allow for the processing of cocoons, the export of semi-finished and finished products abroad, and the increase in foreign exchange earnings.

In particular, the yield of one box of silkworm cocoons is 50–52 kg, and the quality is 75–78%. In developed countries of sericulture, this indicator is 1.3–1.5 times higher, and the number of quality cocoons is 93–94%. The price of quality cocoons in the foreign market is 3–4 times higher than in ours. The most urgent problem of the cocoon industry is to establish the production of high-quality competitive cocoons and raw silk.

In industrial cocoons grown in China and India, the proportion of unwashable cocoons is 3-5%, the yield of raw silk is 42-44%, and the majority of cocoons are 95-98% of medium-caliber cocoons, which ensures the high quality of raw silk. In our republic, today, the proportion of unwashable cocoons is 25-30%, and the yield of raw silk from cocoons is 26-29%.



According to the author below, the creation of a silk cluster based on the cocoon and cocooning industries will create new opportunities for further development of the industry, creation of additional jobs, increase in local budget revenues, increase the innovative activity of small businesses and private entrepreneurs and the innovative attractiveness of regions, and diversification of the regional economy .

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