

STUDY OF INFLUENCE OF COCK CALIBER AND LENGTH ON SILK YIELD

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Annotatsiya: Maqolada pillalar kalibri va uzunligini ipak chiqishiga ta'siri o'rganilib, 17-19 mm kalibri pillalardan xom ipak chiqishi miqdori 39,9-40,01% tashkil qilganligi, uzunligi 32-34 mm gacha bo'lgan pillalardan xom ipak chiqishimiqdori 41.25% bo'lgan yuqori ko'rsatkichlar aniqlandi.

Аннотация: В статье изучив влияние калибра и длины коконов на выход шелка, определены высокие показатели при калибре 17-19 мм выход шелка – сырца составил 39,91- 40,01 %, при длине 32-34 мм выход шелка- сырца составлял 41,25 %.

Annotation: In article are studied influence of caliber and length of cocoons on a silk exit, it is revealed high indicator at caliber of 17-19 mm a raw silk exit has made 39.91-40.01 % at length of 32-34 mm a raw silk exit were made by 41.25 %.

The main raw material of cocooning enterprises is cocoon. Currently, cocoon production is started in 3 seasons. This causes an increase in raw material, but there is a significant difference between the cocoons of the 1st season and the cocoons of the 2nd and 3rd seasons. The cocoons of the first season are of better quality than the rest, that is, they are larger in caliber and longer in length. This affects the production of silk. The following requirements are imposed to increase the yield of raw silk. The cocoon should be of the same type, medium caliber, and the same color. Silkiness should not be less than 50-54%. The continuous length should be 800-850 m and the total length should not be less than 1400-1500 m. The yield of raw silk should not be less than 42%. Silk spun from the cocoon should not be less than 45%.

The quality of silk fabrics depends on the quality indicators of raw silk and the characteristics of the cocoon.

It is difficult to imagine the modern cocooning and cocoon industry without the development of the raw material base, that is, it cannot be without the selection of new breeds and hybrid silkworms with certain high-quality of raw silk and cocoon yarn. The main requirements for good hybrids developed in Uzbekistan: the yield from 1 gram of worm is not

less than 4-5 kg, the average weight of a live cocoon is 1.8-1.9 grams, the silkiness of a live cocoon should not be less than 24%, the color is white, oval in shape, uniform in caliber (17-19 mm) and length (32-36 mm), the amount of dissolved substances in the cocoon should not be less than 25%.

Before forming the production batch, the cocoons are sorted by caliber. According to the caliber, the cocoons are divided into small, medium, large, and extra large. Small cocoons are 15-16 mm wide. Medium cocoons are 18-19 mm long. Large cocoons are up to 21-22 mm. Extra large cocoons include cocoons with a width of more than 22.1 mm.

In our research, we studied the effect of cocoon caliber and length on silk production. We selected cocoons of various calibers and lengths as research objects.

Effect of cocoon size on raw silk yield

Indicators	Hatching %				Silkiness%	Volatility%
	los	raw silk	an unwashed cocoon	boiler		
16.1-17.0	6.32	38.07	1.93	4.58	50.9	74.97
17.1-18.0	6.87	40.01	1.75	3.74	52.37	76.32
18.1-19.0	6.77	39.91	1.82	3.73	52.23	76.21
19.1-20.0	6.98	38.82	1.61	4.49	51.9	74.91
20.1-21.0	7.44	38.12	1.23	5.37	52.16	72.72
21.1-22.0	7.25	38.25	1.39	4.98	51.87	73.99

In the study of the influence of caliber on the yield of raw silk, cocoons with a length of 32.1-36.0 were taken. As can be seen from the obtained results, the best indicator was in 17.1-19.0 caliber cocoons, and the amount of raw silk output was 39.91-40.01%. Its volatility was 76.52-76.21%. The effect of cocoon length on raw silk yield was studied.

Effect of cocoon length on raw silk yield

Indicators	Hatching%	Silkiness%	Volatility%
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Caliber	los	raw silk	an unwashed cocoon	Boiler		
28.1-30.0	6.33	38.33	1.54	4.98	51.18	74.48
30.1-32.0	5.93	40.64	1.18	4.88	52.63	78.44
32.1-34.0	6.28	41.25	1.36	3.45	52.34	78.56
34.1-36.0	6.48	40.81	1.51	3.65	52.45	77.84
36.1-38.0	6.36	40.28	2.08	3.95	52.67	76.51

In studying the effect of cocoon length on raw silk yield, 17-18 mm caliber cocoons were taken. The results showed that the yield of raw silk from cocoons with a length of 32.1-34.0 mm was 41.25%.

List of references

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