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# **SCIENTIFIC ACHIEVEMENTS OF MODERN SOCIETY**



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# **SCIENTIFIC ACHIEVEMENTS OF MODERN SOCIETY**

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## TABLE OF CONTENTS

1.	<i>Abrahamovych U., Tsyhanyk L., Synenkyi O.</i> TREATMENT OF SYSTEMIC LUPUS ERYTHEMATOUS: MODERN PRINCIPLES TAKING INTO ACCOUNT PATHOGENETICALLY ASSOCIATED LESIONS OF OTHER ORGANS AND SYSTEMS.	17
2.	<i>Albeshchenko O. S.</i> SYSTEMATIZATION OF THE DEVELOPMENT INDICATORS OF THE TOURIST-HOTEL ENTREPRENEURSHIP AND ITS INFORMATION PROVISION.	20
3.	<i>Aliyarbayova Aygun Aliyar, Gasimov Eldar Kochari, Sadiqi Ilaha Bahram, Yildirim Leyla Etibar, Qurbanova Shahana Qazanfar</i> MORPHOMETRIC ASSAYS OF PRIMARY SENSORY NEURONS OF DORSAL ROOT GANGLION OF THE RATS.	28
4.	<i>Armine Agvan Baghdasaryan, Akopyan Anna Abuzet</i> COMPUTER ADDICTION AS A PSYCHOLOGICAL-PEDAGOGICAL PROBLEM.	35
5.	<i>Axatova Durdona Aktamovna, Axatova Xilola Aktamovna, Tuyboeva Gulnoza Kuvondikkizi</i> A NON-TRADITIONAL APPROACH TO ORGANIZING LESSONS.	43
6.	<i>Bagmut I. Yu., Kolisnyk I. L.</i> PHOSPHOLIPID COMPOSITION OF ERYTHROCYTE MEMBRANES AND RAT HEPATOCYTES CAUSED BY SODIUM FLUORIDE.	49
7.	<i>Bakhtiyarov S. B.</i> MODIFICATION OF THE ADSORBENT.	53
8.	<i>Biba E. V.</i> INFORMATION SYSTEM ANALYSIS OF THE ACTIVITIES OF TRADE ENTERPRISES.	59
9.	<i>Brytan Yu. V.</i> WEB-CONTENT IN THE CONTINUOUS PROFESSIONAL EDUCATION AND DEVELOPMENT OF THE ENGLISH LANGUAGE TEACHERS.	65
10.	<i>Chernovol O.</i> FORMATION OF THE LINGUISTIC PERSONALITY OF A FOREIGN STUDENT WITHIN THE CONTEXT OF INTERLINGUAL COMMUNICATION.	73
11.	<i>Dunaievska O. F., Sokulskyi I. M., Dunaievska A.</i> MORPHOGENESIS OF THE WHITE PULP OF THE CATTLE'S SPLEEN.	79
12.	<i>Dobrovolska S. R., Opyr M. B.</i> PRODUCTIVE USE OF SOME VOCABULARY SOURCES.	83
13.	<i>Eliseeva T., Zemlianyi O.</i> POTASSIUM AND ITS EFFECTS ON HUMAN HEALTH.	91

14.	<i>Fedorova N., Sobolieva O., Madzihon V., Tkachenko L.</i> UNITED KINGDOM'S EXPERIENCE OF USING COMPUTER GAMES IN EDUCATIONAL INSTITUTIONS.	97
15.	<i>Fedoriv O. Ye., Melnyk N. A., Kopach O. Ye., Yurchyshyn O. M., Palytsia L. M., Fartushok T. V., Halabitska I. M., Tsvyntarna I. Ya.</i> EFFECT OF LEAD ACETATE IN COMBINATION WITH STEARATES ON BONE MARROW CELLS OF ANIMALS.	116
16.	<i>Hapon Yu., Chyrkina M.</i> STUDY OF CATODE MATERIALS IN THE ELECTROCHEMICAL METHOD OF WASTEWATER TREATMENT.	125
17.	<i>Khudik L. M., Tretiakova S. O., Ponomarenko A. M.</i> THEORETICAL JUSTIFICATION BACKGROUND ELECTRIC ARC METALLIZATION MODE TO THE RESTORE THE CRANKSHAFT WEIGHT TRACTOR.	129
18.	<i>Khrenova V.</i> EFFICIENCY OF THE PEDAGOGICAL CONDITIONS IMPLEMENTATION IN THE FUTURE CRAFT AND TECHNOLOGY TEACHERS' PROFESSIONAL TRAINING TO TEACHING TEXTILE CRAFTS AT HIGH SCHOOL.	133
19.	<i>Kovalenko-Marchenkova Ye., Tovstonoh O.</i> CRISIS OF THE NEW YORK STOCK EXCHANGE 2020.	143
20.	<i>Korniyaka O. M.</i> PSYCHOLOGICAL SUPPORT FOR UNIVERSITY LECTURERS' COMMUNICATIVE AND PROFESSIONAL SELF-FULFILMENT.	147
21.	<i>Korepanov O. S., Taiwo A.</i> HEALTHCARE IT MARKET ANALYSIS AS A BASIS FOR INFORMATION TECHNOLOGY IMPLEMENTATION IN HEALTHCARE ENTERPRISES.	157
22.	<i>Kokhan M., Mazur A.</i> ELEMENTS OF STARTUP ECOSYSTEM.	165
23.	<i>Kolotylo T. R.</i> IMMUNOPATHOGENESIS OF HIV AND TUBERCULOSIS.	170
24.	<i>Kyrylko N.</i> MANAGEMENT DECISION AS A RESULT OF MANAGEMENT ACTIVITY OF ENTERPRISES.	176
25.	<i>Loboda N., Bozhok Yu.</i> THE ROLE OF METEOROLOGICAL DROUGHTS IN LOW FLOW PERIOD ON THE RIVERS OF THE NORTH-WEST BLACK SEA REGION IN PRESENT AND FUTURE (BY THE CLIMATE SCENARIOS DATA).	185
26.	<i>Mahdalyna L., Chyzhma D.</i> UNDERSTANDING AND INTERPRETATION OF FOREIGN LANGUAGE EDUCATIONAL TEXT IN THE DEVELOPMENT OF STUDENTS' COMPETENCE IN READING.	195

27.	<b><i>Mandra G.</i></b> IS A MARKET FOR CITIZENSHIP JUSTIFIABLE?	205
28.	<b><i>Mishchenko M. M., Mishchenko A. N., Shevchenko A. S.</i></b> THE IDENTIFICATION OF RISK FACTORS OF CARDIOVASCULAR DISASTERS AND MONITORING OF ACTIONS OF MEDICAL STAFF.	211
29.	<b><i>Obukhov I.</i></b> IMPORTANCE OF SCIENTIFIC METHOD IN ACHIEVING SUSTAINABLE DEVELOPMENT.	219
30.	<b><i>Peniuk V. O.</i></b> MANAGEMENT EFFICIENCY OF TEACHER'S ACTIVITIES - MANAGER OF HIGHER EDUCATION IN UKRAINE.	224
31.	<b><i>Sanaev S. T., Rakhmatov I. I.</i></b> RESULTS OF EVALUATION AFTER GROWING SORTS OF VEGETABLE (SWEET) CORN AS RE-SOWING.	231
32.	<b><i>Bobojonov Shavkat</i></b> BAKHOUDDIN NAKSHBAND'S SHRINE IN DARIES OF TRAVELERS.	235
33.	<b><i>Tereshchenko O. P.</i></b> DECENTRALIZATION REFORM IN UKRAINE AND THE POST- SOVIET COUNTRIES: COMPARATIVE ANALYSIS.	244
34.	<b><i>Tokar O.</i></b> EVALUATION OF THE EFFECTIVENESS OF TREATMENT OF GINGIVAL RECESSIONS BY COATING A FREE CONNECTIVE TISSUE GRAFT WITH A CORONARY DISPLACED GUM FLAP USING A PRF MEMBRANE.	253
35.	<b><i>Verkholaz I. L., Yaroshenko K. O., Malinovskiy S. L.</i></b> VENOUS THROMBOEMBOLISM IN SURGICAL PRACTICE.	260
36.	<b><i>Vorobyova E. V.</i></b> ATTRIBUTIVE CONSTRUCTIONS IN THE JURIDICAL DISCOURSE TEXTS.	266
37.	<b><i>Wenhui Wie, Kandyba N., Qiaoyan Chen</i></b> EFFECT OF LOW TEMPERATURE ANTI – OXIDATION SYSTEM.	270
38.	<b><i>Yevstihnieiev I. V.</i></b> PROBLEMS OF EARLY IDENTIFICATION OF TUBERCULOSIS IN PRIMARY HEALTH.	273
39.	<b><i>Zamlynskyi V., Zamlynska O.</i></b> THE ROLE OF COMMUNICATION AND BUSINESS REPUTATION IN ANTI-CRISIS MANAGEMENT.	278
40.	<b><i>Азизов Ш. И.</i></b> АУТСОРСИНГ - В СФЕРЕ ОКАЗАНИЯ ГОСУДАРСТВЕННЫХ УСЛУГ.	285

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**RESULTS OF EVALUATION AFTER GROWING SORTS OF VEGETABLE  
(SWEET) CORN AS RE-SOWING**

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**Abstract:** This article provides information about growth, development of plants during cultivation of sorts of vegetable (sweet) corn as re-sowing, as well as on the yield of cob.

**Keywords:** vegetable (sweet) corn, sort, heterosis mix, State Register, corn grain, period of milk ripeness, panicle, main sowing, growing period, plant growth, number of side stems, height of the first cob, number of ears in one bush, yield.

**Introduction.** In clause 3.3 of STRATEGY OF ACTIONS concerning five priority spheres of development of the Republic of Uzbekistan for 2017-2021, there are planned modernization and accelerated development of agriculture: deepening structural reforms and dynamic development of agricultural production, further strengthening the country's food security, expanding the production of environmentally friendly products, significantly increasing export potential agricultural sector; further optimization of sown area, aimed at reducing sown area for cotton and cereal crops, with placement of potatoes, vegetables, fodder and oilseeds, as well as new intensive orchards and vineyards on liberated lands; Therefore, acclimatization of cultivars suitable for growing vegetable corn and crossbreeds created in our republic as the main and re-sowing crossbreeds that meet local conditions, as well as the development of growing technologies in different soil

and climatic conditions and at different times and by different methods, is one of the most pressing issues this industry.

Primary features of growing vegetable (sweet) corn in various regions of our country consist of the following. Vegetable (sweet) corn is suitable for growing depleted and saline lands, and is grown as the main and second sowing. Growth period as a vegetable sowing is short, therefore, this will be saved from the consumption of water, during the phase of milk-wax ripeness of the ears, corn is harvested, after which it is consumed in boiled, canned and frozen form. After collecting the ears, the plant stalk remains green, the amount of sugar and the nutrient unit on the stalk and leaves are very high, which is why they are considered a very satisfying food for livestock farming.

**Results of the tests.** Complex of sorts of vegetable (sweet) corn was sown as a replant on the land liberated from the main sowing on June 10 according to the 70\*20 cm pattern, the timing of such phenomena as germination, the appearance of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>-leaves of sympathy, the appearance of panicle, panicle bloom, the appearance of an ears, the beginning of milk-wax ripeness (10%) and full ripeness (75%).

Germination of sorts of vegetable (sweet) corn mainly occurs on June 18-20, that is, on the 9<sup>th</sup>-10<sup>th</sup> day of sowing. Relatively fast germination was recorded in Sherzod and Zamin sorts (June 18-19). Later germination was observed in the sort Evrika (June 21). In addition, with the appearance of the first leaf of sympathy and the second leaf of sympathy, this pattern among sorts was preserved. In the studied sorts, the appearance of a panicle was mainly observed between the sorts for July 28 - August 4. The appearance of cobs was observed in all sorts, in Sherzod and Zamin sorts this happened on the 8<sup>th</sup>-9<sup>th</sup> day of August, in Mazza and Evrika sorts - relatively later, i.e. on August 12-14. When studying during the experiments of milk and wax ripeness of corn, the fastest milk ripeness was recorded in the standard Sherzod sort on September 1, and in other sorts it happened between September 3-8, that is, 2-7 days later in relation to the standard sort.



Biometric indicators of sorts of vegetable (sweet) corn were studied during the tests, it was found that the highest plants are the following: standard Sherzod sort (165.6 cm), Zamin (161.2 cm), Eureka (158.1 cm) sorts. Location of first ears, that is, height was 30.0-34.3 cm. The tilling between the sorts was 1-4 pieces. Number of leaves on the main stem of sorts varied from 11.7 to 13.4. Number of internodes ranged from 9.5 units to 11.1 units. Highest rate for appearance of cobs on one bush was recorded on Sherzod (4.9 pieces), Zamin (5.3 pieces), Eureka (2.0 pieces) and Mazza (2.0 pieces) sorts. In the complex of studied sorts, plants without a cob were observed.

Productivity. In our tests, we studied productivity indicators of vegetable (sweet) corn, while the weight of the cob, the rows of grains on the cob, the number of grains in a row, the number, weight of grains on the cob and grain consumption percentage were relatively different.

In sorts of vegetable (sweet) corn, weight of one ears is fixed to inter-sort of 245.5-314.4 grams. The highest indicator on the weight of the ears was recorded in the Sherzod sort (314.4 grams). When studying the number of grain rows on the cob, the indicators ranged from 12.8 to 15.3 rows. The highest index in the number of rows was recorded in the Zamin sort. Inter-sort number of grains on one row of the cob is up to 32.5-39.7 pieces, number of grains on one cob is up to 458.3-526.3 pieces, and weight of grains on one cob is up to 194.1-247.5 grams. Weight of the core of cob varied between 46.4-66.9 grams, grain consumption was from 78.7 to 81.9 percent. The highest rate of grain consumption on the cob was observed in Zamin and Sherzod sorts. In general, when studying the productivity index of vegetable (sweet) corn, that is, weight of 1000 pieces of grain, this indicator amounted to 218.3-381.6 grams.

During the tests, productivity of silage obtained from a hectare of vegetable (sweet) corn was studied very poorly, while the productivity of the inter-varietal silage made 35.1-37.6 tons.

Grain productivity of the studied sorts was observed up to 5.0-5.8 tons. From this, the highest productivity was recorded in Zamin sort (5.8 tons).

**Conclusion.** The results of our tests show that growing sorts of vegetable (sweet) corn as a second sowing, you can get 85-105 thousand pieces or 10-12 tons of ears. In case of cultivation for seed grain, opportunities have been created for growing crops up to 5.0-5.8 tons of grain. At the same time, it was observed a yield of 35.1-37.6 tons of juicy food silage for livestock production.

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