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Development of Viticulture in our Republic, Formation of Viticulture Clusters and Drawing them using ArcGIS Software

Safarov Eshqobul Yuldoshovich

Professor of the National University of Uzbekistan

Turdimatov Nurillo Abdug'ani o'g'li

Magister of Fergana Polytechnic Institute

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Annotation: *In this article, the information on how to develop viticulture in our Republic, how to organize viticulture in neglected, poorly drained areas, how to create viticulture clusters and how to draw their electronic maps using the ArcGIS program is briefly covered.*

Keywords: *ArcGIS, tourism, cluster, cooperation, grapes, storage, processing, export.*

INTRODUCTION.

Currently, in our Republic, information technologies have developed in all areas, including residential areas and agricultural enterprises, to such an extent that the improvement of cadastral work in them has become the demand of the times, and in other areas, new programs and modern tools are being used to work with digital maps and increase their efficiency [1-5]. Including in order to further expand and improve the possibilities of working with digital maps in the ArcGIS program

MAIN PART.

Today, in our country, further development of viticulture, establishment of a cluster system for growing grapes, processing them, production of finished products, providing the republic with high-quality products by widely introducing effective mechanisms for regulation of the alcohol market, export of the industry In order to strengthen its potential, increase its investment attractiveness, as well as develop wine tourism (wine tourism), the decision of the President of the Republic of Uzbekistan dated 07.28.2021 No. PQ-5200 was issued. In this mainly:

1. The following should be defined as the main directions of viticulture development:

- to determine the most optimal areas in favorable regions for specialization in grape cultivation;
- development of grape growing as a national culture, based on the national farming culture and values of our people formed over the centuries;
- creation of added value chain in the field by cultivation of viticulture in large areas, cluster and cooperative method, promotion of storage, sorting and processing of grapes;

- creating national brands of local grape varieties and expanding exports by entering new markets;
- to develop a scientific school of viticulture in order to grow grapes on a scientific basis, to create new fruitful, seedless varieties, and to establish an organic integration of science and production [6-12].

2. 48 districts of the Republic of Karakalpakstan and regions should be specialized in grape growing in accordance with Appendix 1 based on the natural climatic conditions and farming culture of the population.

Deputy Prime Minister Sh. Ganiyev, the Ministry of Agriculture (J. Khodzhayev), the Council of Ministers of the Republic of Karakalpakstan, regional administrations and official ministries and agencies, starting with the establishment of vineyards on an area of 156,000 hectares (including 50,000 hectares in 2021), be responsible for creating a seamless system until they reach the consumer.

3. Let it be noted that:

- from August 1, 2021, agricultural land plots (irrigated and non-irrigated (rainy) lands) will be leased on the basis of an open tender for the establishment of vineyards and the development of viticulture;
- plots of land are leased for a period of 30 years according to the results of an open competition;
- the plots of land leased on the basis of an open competition are used only for the purpose of planting vineyards and developing viticulture, failure to fulfill this condition is the basis for premature termination of the lease agreement;
- initiators are obliged to plant certified vine seedlings in the allocated area based on the recommendations of the Ministry of Agriculture and to organize work based on the recommendations of the competent body for the introduction of water-saving technologies and plant protection;
- plots of land are allocated to the open competition for the establishment of vineyards in the size of 0.06 - 1 hectare, and in the size of 1 - 30 hectares for the establishment of large vineyards in a single contour [13-20].

4. Deputy Prime Minister Sh. Ganiyev, J. Kochkarov, Minister of Agriculture J. Khodzhayev, the Council of Ministers of the Republic of Karakalpakstan, together with regional governors, said that the soil and climate conditions in each of the 48 districts were the most favorable for viticulture (khoraki). ensure the allocation of at least 2,000 hectares of land.

5. From September 1, 2021, permanent project offices for the development of viticulture, consisting of two to ten employees, without the status of a legal entity, should be established in the Republic of Karakalpakstan and its regions.

Note that:

- the project offices involved responsible employees of the Ministry of Agriculture, the Agency for the Regulation of the Alcohol and Tobacco Market and the Development of Winery (hereinafter referred to as the Agency), the Agency for Plant Quarantine and Protection and other interested agencies (with the retention of salaries). is organized by doing;
- The Ministry of Agriculture, the Agency will attract qualified experts from countries with developed viticulture to each project office at the expense of the funds of the Agency's Winery Development Fund [21-26].
- The following should be defined as the main tasks of project offices:
- organization of vineyards intensively, including cluster and cooperative;

- monitoring the establishment of vineyards by the initiators on the allocated land areas and giving recommendations on planting certified vine seedlings;
- selection of plots of land suitable for the establishment of vineyards, organization of their open selection according to the established procedure;
- delivery of seedlings, mineral fertilizers to vineyards, provision of agro-services, assistance in the organization of product sales.

6. It should be determined that starting from September 1, 2021, a new mechanism for expanding grape cultivation in residential estates and neighborhoods should be introduced. According to it, the Council of Farmers, Farmers and Homestead Land Owners of Uzbekistan together with the Ministry of Neighborhood and Family Support:

- identifies entrepreneurs who grow grapes on the estates of the population, formulates their targeted program;
- allocates funds to project initiators at the expense of the Fund for the Support of Farmers, Peasant Farms and Homestead Land Owners based on the targeted program;
- Based on the characteristics of the soil and climate, through "Tomorqa Service" LLC, it develops and approves a "roadmap" for the planting and cultivation of grape seedlings in the region, plant protection service and product purchase [27-30].
- The Ministry of Finance should allocate an additional 100 billion soums of credit resources this year within the framework of the family business program for the implementation of the measures specified in this paragraph.



Figure 1.

Now let's talk about the steps to create e-cards for these vineyards:

- first of all, a photoplane of the place is taken by flying a drone;
- the resulting photo plan is uploaded to the Gis program;
- the editor is launched and each conditional symbol is entered into the database;

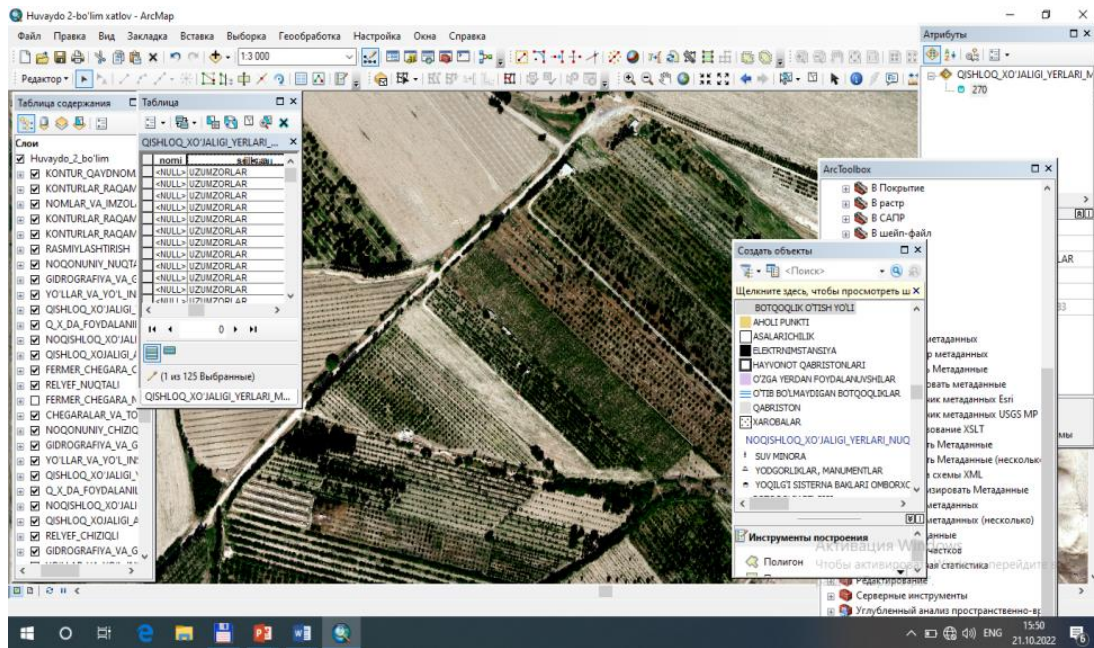


Figure 2.

- after that, the boundaries of all vineyards were set;
- a contour number is assigned to each area according to the borders;

After we do the above steps slowly, the map of the vineyards will be ready. We will be able to use it for many purposes [31-35].

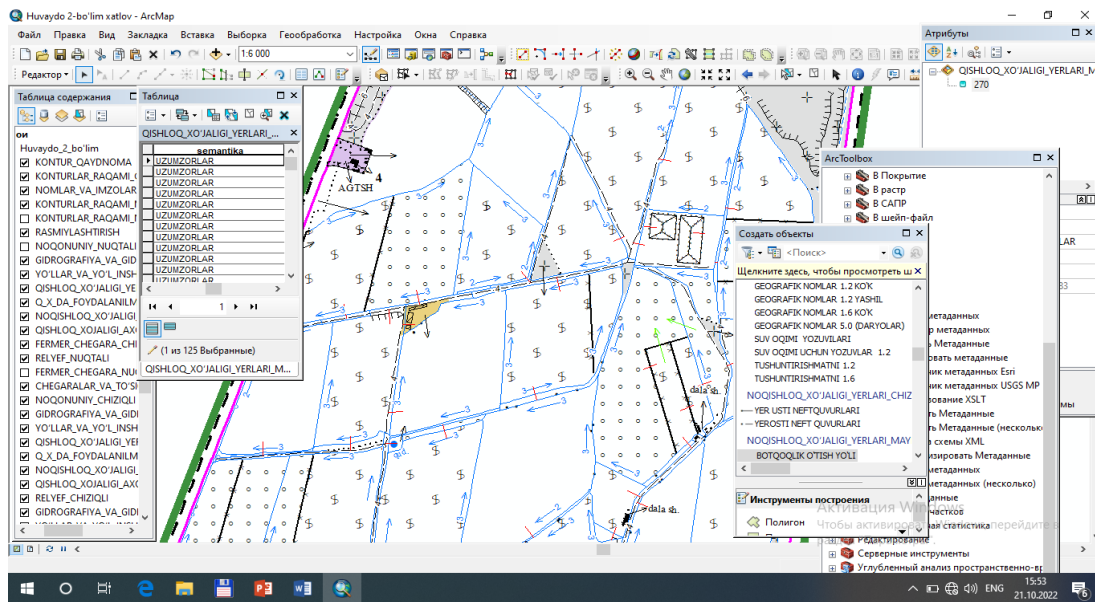


Figure 3.

CONCLUSION.

In conclusion, I can say that the Republic of Uzbekistan is gradually rising to the ranks of developed countries. It is no exaggeration to say that the attention paid to agriculture is increasing. even if there is a foundation.

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