ISSN 2181-3187

G’O’ZA O’SIMLIGIDA HOSIL ELEMENTLARNING RIVOSHLANISHI

Rahimova Gulnoza Yomġirovna
Osiyo xalqaro universiteti “Umumiy fanlar” kafedrasi o‘qituvchisi
e-mail: rahimovagulnozayomgirovna@oxu.uz

Annontatsiya: Bentonitdan qishloq xo’jaligida foydalanishning ilmiy jihatlari maqolada batafsil bayon etilgan.Bentonitning kimyoviy tarkibi va paxta yetishtirishda qollanishining ijobiy tomonlari haqida ma’lumotlar berilgan.Go’za chigitlarini sho’rlangan tuproq sharoitida bentonid bilan ishlov berish hosildorlik va sifat ko’rsatkichlarini oshiradi.

Kalit so’zlar: Bentonid, g’o’za navlari, tuproq sho’rligi, tuproq unumdorligi, mikroelementlar, hosildorlik.

G’o’zaning o’sib rivojlanishi har oyning birinchi sanasida amalga oshirilgan fenologik kuzatuv va biometrik o‘lchashlar natijasiga ko‘ra variantlar orasidagi farq tahlil etib borildi. Tajriba dalasining barcha variantlarda bir xil agrotexnik tadbirlar qo‘llanilib, o‘g‘itlash va sug‘orish me'yor va muddatlari ham bir xil belgilandi. Shunga qaramasdan, chigiti qobiqlab ekilganhamda bargidan oziqlantirishda bentonit gillari kukunidan foydalanilgan paxta maydonlari nazoratga nisbatan sezilarli darajada farq qildi. Bundan tashqari alohida ta'kidlash kerakki, joriy yilda yurtimizda g‘o‘zaning o‘sib rivojlanishi iyul oyida haroratning o‘ta yuqori bo‘lishi g‘o‘zaning o‘sib rivojlanishida ancha qiyinchiliklar tug‘dirdi.

G‘o‘zaning Buxoro-102 navi ekilgan tajriba dalalarida 1-iyun, 1-iyul va 1-avgustdagi kuzatishlar olib borilganda g‘o‘zaning bo‘yi nazorat paykalchalarida, ya'ni, chigit toza holda ekilgan variantda mos ravishda 19,1, 65,7, 102,6 sm ni, chigit bentonit gillari bilan qobiqlab ekilgan paykalchalarda 20,8, 69.8, 115,3 sm ni, chigitni qobiqlash bilan birgalikda bargidan bentonitli suspenziya bilan oziqlantirilgan variantlarda 21,8, 72,8, 120,5 sm va faqatgina bentonitli suspenziya bilan oziqlantirilgan variantlarda esa 20,7, 71,5, 113,7, 120,5 sm ni tashkil etdi.

Bir o‘simlikdagi chinbarglar soni chigitni qobiqlash bilan birgalikda bargidan bentonitli suspenziya bilan oziqlantirilgan variantlarda nazoratga nisbatan 1,7 taga ko‘p bo‘lganligi aniqlandi, hosil shoxlari ham aynan shu variantda yaxshi ko‘rsatkichlar berdi, ya'ni, 1-iyulda 2 taga oshgan bo‘lsa, keyingi oyda shu ko‘rsatgich 4,3 tagacha oshib borishi kuzatildi, hosil elementlari esa shu 2 oyda 2,9 va 3,7 taga ko‘p bo‘ldi (4.3-jadval).

ISSN 2181-3187

Buxoro-6 va Buxoro-8 navlari ekilgan tajriba dalalarida ham aynan shu 3-variantda qo‘llanilgan ekishdan oldin chigitni bentonit gillari kukuni bilan qobiqlash va bargidan oziqlantirilganda bentonit va karbamidli suspenziyadan foydalanish g‘o‘zaning bo‘yiga, hosil shox va hosil elementlarining shakllanishiga ijobiy ta'sir ko‘rsatdi (4.3-jadval).

G‘o‘za hosildorligi

Urug‘ning sifati, chigitni ekish muddati va miqdori, tuproqning meliorativ holati, unumdorligi kabi ko‘rsatkichlar bilan bir qatorda vegetasiya davri davomida olib borilgan agrotexnik tadbirlar paxta hosiliga bevosita o‘z ta'sirini ko‘rsatadi. Tajribalarimizda qo‘llanilgan bentonit gillari kukuni bilan qobiqlab ekish hamda bargidan oziqlantirilganda mineral o‘g‘itidan tayyorlangan suspenziyaga bentonit gillari kukunini aralashtirib sepish usullari qo‘llanilgan variantlardagi paxta hosilida sezilarli o‘zgarishlar kuzatildi.

Buxoro-102 navida hosildorlik ko‘rsatkichi nazorat variantida 38 s/ga bo‘lgan bo‘lsa, chigiti qobiqlab ekilgan variantda 41,9, chigiti qobiqlab ekilgan va bargidan bentonit+karbamidli suspenziya bilan 3 marta oziqlantirilgan variantda 45,2 hamda faqatgtna bentonit+karbamidli suspenziya bilan bargidan 3 marta oziqlantirilgan variantda 42,5 s/ga paxta hosili olindi. Bu esa o‘z navbatida nazoratga nisbatan mos ravishda 3,9, 7,2 hamda 4,5 s/ga yoki 10,2, 18,9 hamda 11,8% qo‘shimcha hosil olinganligidan dalolat beradi.

Xuddi shunday, hosildorlik ko‘rsatkichi Buxoro-6 navida nazoratga nisbatan mos ravishda 2,8, 5,7 va 3,7s/ga yoki 9,2, 18,7 va 12,2 % hamda Buxoro-8 navida 2,8, 4,5 va 3.1s/ga yoki 10,0, 16,6 va 11,4 % qo‘shimcha hosil olishga erishildi (4.4 - jadval).

Xulosa o‘rnida aytish mumkinki, bentonit gillarining yuqorida keltirilgan xususiyatlari tajribalardagi paxta xosilida ham o‘z ijobiy natijalarini berdi. Mavsum davomida 4 marta emas, 3 marta sug‘orish bilan, ya'ni, 700-1000 m3 gacha sug‘orish suvlarini tejagan holda ham bentonit gillaridan foydalangan holda yuqori hosildorlikka erishish mumkin.

Adabiyotlar ro’yxati

1. Tuyg’unovna, S. S. (2023). DORIVOR NA’MATAKNING FOYDALI XUSUSIYATLARI VA TIBBIYOTDA QO’LLANILISHI. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, *3*(9), 11-13.
2. Shukurova, S. (2023). DORIVOR ACHCHIQ BODOM URUG’INING SHIFOBAXSHLIGI, DORI TAYYORLASH USULLARI. *Центральноазиатский журнал образования и инноваций*, *2*(10 Part 3), 116-120.
3. Tuyg’unovna, S. S. (2023). USEFUL PROPERTIES OF THE MEDICINAL PRODUCT AND USE IN MEDICINE. *Gospodarka i Innowacje.*, *40*, 179-181.

4. Shukurova, S. (2023). DORIVOR O'SIMLIKLARNING KIMYOVIY TARKIBI VA TASNIFI. *Центральноазиатский журнал образования и инноваций*, *2*(11), 5-10.
5. Tuyg'unovna, S. S. (2023). CHEMICAL COMPOSITION OF MEDICINAL PLANTS AND CLASSIFICATION. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, *3*(11), 33-35.
6. Shukurova, S. (2023). KIYIKO'T VA YALPIZDAN FOYDALANISH USULLARI. *Центральноазиатский журнал образования и инноваций*, *2*(12), 171-177.
7. Shukurova, S. (2024). TARKIBIDA GLIKOZIDLAR BO'LGAN DORIVOR O'SIMLIKLAR. *Центральноазиатский журнал образования и инноваций*, *3*(1), 217-222.
8. Tuygunovna, S. S. (2023). Ways to Use Mint and Peppermint. *EUROPEAN JOURNAL OF BUSINESS STARTUPS AND OPEN SOCIETY*, *3*(12), 20-23.
9. Tuygunovna, S. S. (2023). Medicinal Plants Containing Glycosides. *EUROPEAN JOURNAL OF BUSINESS STARTUPS AND OPEN SOCIETY*, *3*(12), 24-27.
10. Mukhriddin, T. (2023). XENOBIOTICS AND THEIR TYPES. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(10), 14-17.
11. Mukhriddin, T. (2023). A LARGE-SCALE ANALYSIS OF RARE PLANTS DISTRIBUTED IN THE NUROTA RESIDUE MOUNTAINS. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(12), 111-1
12. Muxriddin, T. (2023). KSENOBIOTIKLAR VA ULARNING TURLARI. TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI, 3(11), 220-223.
13. Mukhriddin, T. (2023). DEMOGRAPHIC INDICATORS OF XENOPOPULATIONS AND XENOPOPULATION. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(11), 69-71.
14. Тешаев, М. (2023). ЦЕНОПОПУЛЯЦИЯЛАРНИНГ ДЕМОГРАФИК КЎРСАТКИЧЛАРИ ВА ЦЕНОПОПУЛЯЦИЯ. TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI, 3(9), 134-140.
15. *Rahimova, G. (2024). G'O'ZA HOSIL ELEMENTLARINING SHAKLLANISHI. Центральноазиатский журнал образования и инноваций, 3(1), 212-216.*
16. *Yomgirovna, R. G. (2023). SCIENTIFIC ASPECTS AND EFFICACY OF BENTONITE USE IN AGRICULTURE. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(11), 116-120.*
17. *Rahimova, G. (2023). SHO'RLANGAN TUPROQLAR SHAROITIDA G'O'ZANING MORFOLOGIK BELGILARI VA RIVOJLANISHIGA BENTONITNING TA'SIRI. B CENTRAL ASIAN JOURNAL OF EDUCATION AND INNOVATION (T. 2, Выпуск 12, сс. 141–145). Zenodo.*

18. *Yomgirovna, R. G. (2023). FORMATION OF COTTON CROP ELEMENTS. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(12), 113-115.*
19. *Yomgirovna, R. G. (2023). EFFECT OF SEED ENCAPSULATION ON COTTON YIELD. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(12), 42-44.*
20. *Rahimova, G. (2023). MAKTABLARDA BIOLOGIYA FANINI O'QITISHDA ZAMONAVIY INTERFAOL METODLARDAN FOYDALANISH. B CENTRAL ASIAN JOURNAL OF EDUCATION AND INNOVATION (T. 2, Выпуск 10, cc. 103–109). Zenodo.*
21. *Yomgirovna, R. G. (2023). AGROBIOLOGICAL PROPERTIES OF BENTONITE IN AGRICULTURE. TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI, 3(9), 126-130.*
22. *Yomgirovna, R. G. (2023). AGROBIOLOGICAL PROPERTIES OF BENTONITE IN AGRICULTURE. Gospodarka i Innowacje., 40, 179-183.*
23. *Rahimova, G. (2023). QISHLOQ XO'JALIGIDA BENTONITDAN FOYDALANISHNING ILMIY JIHATLARI VA SAMARADORLIGI. B CENTRAL ASIAN JOURNAL OF EDUCATION AND INNOVATION (T. 2, Выпуск 11, cc. 189–196). Zenodo.*
24. Ostonova, G. (2023). ICHKI SEKRETSIYA BEZLARI FIZIOLOGIYASI. *Центральноазиатский журнал образования и инноваций*, *2*(10 Part 3), 110-115.
25. Rashidovna, O. G. (2023). PHYSIOLOGY OF THE ENDOCRINE GLANDS. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, *3*(11),
26. Ostonova, G. (2023). TURLI XIL STRESS OMILLARDAN GARMSEL OMILINING G ‘O ‘ZA BARG SATHIGA TA’SIRI. *Центральноазиатский журнал образования и инноваций*, *2*(11 Part 2), 107-111.
27. Rashidovna, O. G. (2023). EFFECT OF SOILS WITH DIFFERENT LEVELS OF SALINITY ON COTTON GERMINATION IN FIELD CONDITIONS. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, *3*(12), 116-119.
28. Rashidovna, O. G. (2023). THE EFFECT OF THE HARMSEL FACTOR ON THE LEVEL OF COTTON LEAVES FROM VARIOUS STRESSORS. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, *3*(12), 105-107.
29. Ostonova, G. (2023). DALA SHAROITIDA TURLI DARAJADA SHO ‘RLANGAN TUPROQLARNING G ‘O ‘ZA UNUVCHANLIGIGA TA’SIRI. *Центральноазиатский журнал образования и инноваций*, *2*(12), 206-211.

30. Ostonova, G. (2024). TURLI DARAJADA SHO ‘RLANGAN TUPROQLARNING G ‘O ‘ZANING O’SISH VA RIVOJLANISH DINAMIKASIGA TA’SIRI. *Центральноазиатский журнал образования и инноваций*, *3*(1 Part 2), 73-80.
31. Akbar, A. (2023). DORI MODDALARINING KVANT KIMYOVIY HISOBLASHLARI VA ELEKTRONLARINING TABIATI. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, *3*(11), 100-104.
32. Azamat ogli, A. A. (2023). PIRATSETAM MONOSULAFAT TUZILISHINI VA ELEKTRONLARINI KVANT KIMYOVIY USULDA ORGANISH. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, *3*(12), 286-288.
33. Azamat o‘g‘li, A. A. (2023). KANAKUNJUT O ‘SIMLIGINING DORIVOR XUSUSIYATLARI. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, *3*(5), 200-202.
34. Azamat ogli, A. A. (2023). The Effect of Using Interactive Methods in Teaching Chemistry to School Students on Educational Efficiency. *Central Asian Journal of Medical and Natural Science*, *4*(5), 771-774.
35. Azamat o‘g‘li, A. A. (2023). QUANTUM CHEMICAL CALCULATIONS AND ELECTRON NATURE OF DRUG SUBSTANCES. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, *3*(11), 64-68.
36. Azamat ogli, A. A., & Shahribonu, B. (2023). BOIKIMYO FANIDA CHEM OFFICE DASTURLARIDAN FOYDALANISH. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, *3*(3), 272-274.
37. Azamat o‘g‘li, A. A. (2023). ROLLI O ‘YINLARNI KIMYO FANI MASHG ‘ULOTLARINING SIFATIGA TA’SIRI. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, *3*(9), 131-133.
38. Azamat ogli, A. A. (2023). VANADIY (IV) IONI BILAN HOSIL QILINGAN MODDALARNING XOSSALARINI ORGANISH. *TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI*, *3*(10), 305-308.
39. Azamat ogli, A. A. (2023). STUDYING THE STRUCTURE AND ELECTRONS OF PIRACETAM MONOSULFATE BY QUANTUM CHEMICAL METHOD. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, *3*(12), 108-110.
40. Rashitova, S. (2023). BENTONIT GIL KUKUNINI SORBSION XOSSASINI KIMYOVIY USULDA FAOLASHTIRISH. *Центральноазиатский журнал образования и инноваций*, *2*(10 Part 3), 98-102.
41. Shukhrat, R. S. (2023). PROCUREMENT OF SORBENTS WITH HIGH SORPTION PROPERTIES AND WASTEWATER TREATMENT ON THEIR

BASIS. *EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE*, *3*(12), 75-76.

42. Boltayeva,S. (2023).PREPARATION OF EMULSIONS FROM OIL EXTRACTS AND EVALUATION OF QUALITY INDICATORS.B CENTRAL ASIAN JOURNAL OF EDUCATION AND INNOVATION (T.2 Выпуск 10, сс. 93-97).
43. Boltayeva Shahribonu Ahmad qizi. MEDICINAL PROPERTIES OF CLOVE PLANT ANDMEDICINE PREPARATION METHODS. (2023) Laboratorium Wiedzy Artur Borcuch (182-185)
44. Boltayeva Shahribonu Ahmad qizi. Tirnoqgul o'simligining dorivorlik xususiyatlari va dori tayyorlash usullari.Analytical Journal of Education and Development. (14-17)
45. Boltayeva, S. (2023). PREPARATION OF EMULSIONS FROM OIL EXTRACTS AND EVALUATION OF QUALITY INDICATORS. Центральноазиатский журнал образования и инноваций, 2(10 Part 3), 93-97.
46. Boltayeva, S. (2023). GIDROLIZLANGAN POLIAKRILONITRILNING EPIXLORGIDRIN BILAN O'ZARO TA'SIRI JARAYONINI O'RGANISH, OLINGAN BIRIKMALARNING TUZILISHINI ANIQLASH. Центральноазиатский журнал образования и инноваций, 2(11), 71-76.
47. Boltayeva, S. (2023). O'ZARO BOG'LANGAN POLIMERLAR ASOSIDA YANGI GIDROGELLAR SINTEZI, VA NATIJALARINI O'RGANISH. Центральноазиатский журнал образования и инноваций, 2(12), 146-151.
48. Boltayeva, S. (2024). KIMYO FANINI O 'QITISHDA INNOVATSION TA'LIM TEXNOLOGIYALARDAN FOYDALANISHNING AFZALLIKLARI. Центральноазиатский журнал образования и инноваций, 3(1 Part 2), 69-72.
49. Эргашева, Г. Т. (2024). НОВЫЕ АСПЕКТЫ ТЕЧЕНИЕ АРТЕРИАЛЬНОЙ ГИПЕРТОНИИ У ВЗРОСЛОГО НАСЕЛЕНИЕ. *Лучшие интеллектуальные исследования*, *12*(4), 224-233.
50. Azamat ogli, A. A., & Shahribonu, B. (2023). BOIKIMYO FANIDA CHEM OFFICE DASTURLARIDAN FOYDALANISH. TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI, 3(3), 272-274.
51. Sh, B. (2023). PREPARATION OF EMULSIONS FROM OIL EXTRACTS AND EVALUATION OF QUALITY INDICATORS. TA'LIM VA RIVOJLANISH TAHLILI ONLAYN ILMIY JURNALI, 3(6), 215-218.
52. Bakhshullayevich, T. B., & Shaxina, S. (2022). Classification of Enzymes. *EUROPEAN JOURNAL OF BUSINESS STARTUPS AND OPEN SOCIETY*, *2*(5), 37-39.
53. Toxirov, B. B., Tagaeva, M. B., & Shukurova, S. (2023). Obtaining stabilized enzymes and their application in the food industry. Science and Education, 4(4),

529–537. Retrieved from https://openscience.uz/index.php/sciedu/article/view/5560

54. *Yomgirovna, R. G. (2023). EFFECT OF SEED ENCAPSULATION ON COTTON YIELD. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(12), 42-44.*
55. *Yomgirovna, R. G. (2023). FORMATION OF COTTON CROP ELEMENTS. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(12), 113-115.*
56. Atoyeva, R. O., Xanjanova, M. P., Sharipova, S. M., Ostonova, G., & G‘apurova, U. O. (2023). TURLI XIL STRESS OMILLARIDAN SHO ‘RLANISHNI G ‘O ‘ZANING UNUVCHANLIGIGA TA’SIRINI LABARATORIYA SHAROITIDA O ‘RGANISH. *Educational Research in Universal Sciences*, *2*(4), 298-301.
57. Qobilovna, A. M. (2022). BOSHLANG ‘ICH SINF O ‘QITUVCHILARIDA KOMMUNIKATIV KOMPITENTLIK SHAKLLANISHINING IJTIMOIY-PSIXOLOGIK DETERMINANTLARI. Central Asian Research Journal for Interdisciplinary Studies (CARJIS), (Special Issue 1), 102-105.
58. Qobilovna, A. M. (2023). PROGRAM FOR THE DEVELOPMENT OF FACTORS OF COMMUNICATIVE COMPETENCE OF PRIMARY SCHOOL TEACHERS. International Journal of Pedagogics, 3(11), 131-137.
59. Rashitova, S. (2023). USE OF INTERACTIVE METHODS IN CHEMISTRY. International Bulletin of Medical Sciences and Clinical Research, 3(10), 115-119.
60. Рашитова, Ш. (2023). ИСПОЛЬЗОВАНИЕ АКТИВИРОВАННОГО СОРБЕНТА ДЛЯ ОЧИСТКИ СТОЧНЫХ ВОД. Центральноазиатский журнал образования и инноваций, 2(12), 135-140
61. Рашитова Ш.Ш. (2023). ПРИМЕНЕНИЕ АКТИВИРОВАННОГО СОРБЕНТА ДЛЯ ОЧИСТКИ СТОЧНЫХ ВОД . Новости образования: исследование в XXI веке, 2(16), 656–672