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# MELIORACIYADA ILIMYIY IZERTLEWLER USILLARI



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**“MELIORACIYADA ILIMIY IZERTLEWLER USILLARI”**  
**OQIW QOLLANBA**

**Usi oqiw qo'llanba 70812306-"Suw unemlewshi sug'ariw texnologiyalari"**  
**qanigeligi ushin "TIAXMMI" Milliy izertlew universiteti tarepinen**  
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#### ANNOTACIYA

Oqiw qollanbada suw xojaligi basqaruvini jänede jetilistiriw maqsetinde suwğarıw tarmaqların suw òlshew quralları hám úskeneleri menen támiyinlew boyınsha teoriyalıq bilim, ámeliy kònlikpe hám olardı qollanıw boyınsha bağdar profiline sáykes metodikalıq jandasıw hámde kònlikpe qalıplestiriw wazıypaların orınlaydı.

Oqıw qollanbada suwğarılatuğın jerlerde awıl xojalığı eginleri boyınsha alıp barılatuğın laboratoriya, dala islep shıǵarıw tájiriybelerin jolǵa qoyıw, bul processte izertlewler, baqlawlar hám basqa ámellerdi ótkiziw usılları haqqında toqalıp ótilgen. Sonnan tájiriybe dalası topırağın esapqa alıw, dala tájiriybeleri, fenologiyalıq baqlawlar hám dala tájiriybelerinde esapqa alıw, topıraqqa islew beriw boyınsha dala tájiriybelerin alıp barıw usıllarına tiyisli ulıwma qaǵıydalar, awıl xojalığın jetilistiriw agroilájları, eroziyaǵa ushıraǵan topıraqlar jaǵdayında tájiriybeler ótkiziw usılları, samal eroziyasınıń dawamlılıǵın boljawda EEM hám matematik usıllardan paydalanıw, izew suwlar qáddin úyreniw, lizimetrlerde izew suwlarınıń topıraqtan puwlanıw hám ósimlikler arqalı transpiraciyaǵa sarıplanıwdı, topıraqtıń aeraciya qatlamında duzlardıń toplanıw muǵdarına qarap, izew suwları sarpın anıqlaw, shorlangan topıraqlarda dala tájiriybeleri hám izertlewler ótkiziw usılları, ǵawashanıń suwğarıw tártibin anıqlaw, suwğarıwdı mexanizaciyalaw hám avtomatlastırıw, paxta zúrääti boyınsha alınǵan maǵlıwmatlarǵa statistik usılda matematik islew beriw usılları tolıq bayan etilgen.

Oqıw qollanba 70812306–“Suw únemlewshi suwğarıw texnologiyaları” magistratura qanıgeligi boyınsha “Melioraciya ilmiy izertlewler usılları” päninen úyreniw ushın mólsherlengen hám úlgi baǵdarlama tiykarında duzilgen hámde joqarı oqıw orınlarınıń tiyisli (sáykes hám turles) magistratura qanıgelikleri studentleri hám oqıwshılar, taraw qanıgeleri paydalanıwı mümkin.

#### ANNOTATSIYA

O`quv qo`llanmada suv xo`jaligi boshqaruvini yanada takomillashtirish maqsadida sugorish tarmoqlarini suv o`lchash vositalari va jihozlari bilan ta`minlash bo`yicha nazariy bilim, amaliy ko`nikma va ularni qo`llash bo`yicha yo`nalish profiliga mos uslubiy yondashuv hamda malaka shakllantirish vazifalarini bajaradi.

O`quv qo`llanmada sugoriladigan erlarda qishloq xo`jaligi ekinlari ustida olib boriladigan laboratoriya, dala ishlab chiqarish tajribalarini yo`lga qo`yish, bu jarayonda tadqiqotlar, kuzatishlar va boshqa amallarni o`tkazish usullari haqida to`xtalib o`tilgan. Jumladan tajriba dalasi tuprogini hisobga olish, dala tajribalari, fenologik kuzatuvlar va dala tajribalarida hisobga

технологии орошения магистратур. Учебным пособием могут пользоваться специалисты данной области и студенты специальности магистратуры соответствующих ВУЗов.

### ABSTRACT

The textbook provides guidance on the theoretical knowledge, practical skills and profile of the direction of use of irrigation systems with water measuring instruments and equipment for further improvement of water management.

The manual mentions a laboratory for agricultural crops on irrigated lands, field practice, and methods of research, observation and other activities in this process. Specific guidelines on field soil testing, field experiments, phenological observations and field experiments, general principles of soil-based field experiments, methods of experiments in the conditions of erosion soils, forecasting of wind erosion, and mathematical methods, the study of the surface water level, the evaporation of ground waters in the lysers, and transpiration through plants the methods of field experiments and research in saline soils, determination of the rules of irrigation of irrigation, mechanization and automation of irrigation, methods of mathematical processing of statistical data on cottonseed crops are explained in detail in accordance with the amount of salts in the aerosol layer of the soil.

The textbook for 70812306-Water saving irrigation technologies on magistracy specialties is designed for studying of the subject "Methods of scientific researches in melioration" and students of corresponding special (correspondent and related) magistracy specialties and students can use industry expertise.

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