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SALINITY LEVELS OF IRRIGATED SOILS IN BUKHARA REGION, THEIR CHARACTERISTICS AND PREVENTIVE MEASURES

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Key words: Soil salinity, effects of salinity on soil, salinity control, erosion, productivity

Abstract. Current on the day in the province soil-climate conditions and village farm crops requirements attention received without one row agro-meliorative , agrotechnical and agrochemical measures complex done is being increased . As a result , irrigated of soils reclamation-ecological status improve , their fertility level and village economy crops productivity is rising . This article in the district various at the level salty of soils properties and prevent to take measure to events dedicated

Abstract: Currently, taking into account the soil and climatic conditions and needs of agricultural crops in the region, a number of agro-reclamation, agrotechnical and agrochemical measures are carried out. As a result, the reclamation and ecological state of irrigated soils improves, their productivity and crop yields increase. This article is devoted to the characteristics of soil salinization in the region and preventive measures.

Annotation: Currently, taking into account the soil and climate conditions and the requirements of agricultural crops, a number of agro melioration, agro technical and agrochemical measures are being implemented in the region. As a result, the amelioration-ecological condition of irrigated soils is improving, their productivity level and the productivity of agricultural crops are increasing. This article is devoted to the characteristics of the salinity soils in the district and preventive measures.

Current on the day village farm in possession of lands reclamation condition is satisfactory no , that's it because their effective productivity much lower. From the year per year irrigated on the ground salinization , erosion and this such as soil to the state impact enough one how much factors exceed is going on . Irrigated soils reclamation of the situation violation as a result average and strong salty on the ground crops productivity noticeable at the level is decreasing . For example cotton grain yield by 40-60% yield by 25-30%, legumes crops productivity is decreasing by 15-25% . Because of this in our country such problems prevent to take for various practical affairs This field is being of experts main purpose irrigated lands general reclamation status improve and village farm develop for the purpose row practical work

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to perform is considered . Salinity Uzbekistan village farm for still the most a sore spot remains . Therefore In Uzbekistan salinity prevent to take for the purpose various decisions projects and scientific affairs take It's going, but not yet. topic as of now remains .

Kagan district territory Bukhara of the province eastern in part located in the district general land area 44127.0 hectares organization reached , evaluated irrigated land The area is 17102.7 hectares . Of these lands village farm products cultivation opportunities there is .

Mist irrigated land of the fields Soils : subtropical desert zone , Sur- like brown soils of the region alluvial and proluvial from their beds organization found plains geomorphological in the district scattered various lithological , hydrogeological and soil-climate under the circumstances developed .

Foggy soils meadow soils in the zone prevalence because , mainly irrigated meadow alluvial and half hydromorphic water in mode meadow from the soil consists of is, this soils widespread regions for to oneself typical characteristics – wind and water erosion and salinity to the processes tendency , humus and other feed of the substances their scarcity , mobile forms with less availability of groundwater level level relatively deeper , weaker mineralized , soils mainly heavy , medium and light sandy mechanic from the content consists of .

Juicy I want to the results according to hungry colorful gray soils unsalted from differences consists of . Weak salty irrigated meadow in soils in the water easy soluble of salts general amount average 0.242-0.290%, average salty 0.524-0.590% in soils organization Salinity to chemistry according to sulfated , some in cases chloride-sulfate salinity in types .

Soil research your information analysis this shows that the fog in the area irrigated meadow alluvial soils their own relief and geomorphological-lithological to the structure according to , relatively This is considered a complex area , of soils to oneself typical properties – humus layer brevity is , their upper in layers irrigation and atmosphere precipitation under the influence various at the level wash to the processes encountered , some in the fields upper horizons washed , carbonated low- yielding layers land to the surface close located . Some soil differences into account if you don't get it mobile potassium and phosphorus to the amount according to poor

District areas his/her own geographical location instead of according to, Turan subtropical climate of the region Medium Asia dry continental climate in the region located and the mountain half desert to the zone belonging to oneself typical features with separated stands. Above as mentioned in the district irrigated of lands main part saline . Soils mechanic its composition, it’s to salt tendency, humus layer shortness, precipitation amount scarcity, scarcity of the waters land to the surface close location in the district in farming occurring of problems are the main ones. From this outside in the summer air temperature high to be as a result from the soil high evaporation happened will, as a result in the soil salts amount further increases. Sweet of the water’s depth of the place to the relief from 1.0-2.5 meters to 4-5 meters depending on to be possible. The district northern desert to the regions ignition on the ground size water If the level is 3-4 m , then the plain part of main 1.5-2 meters in the fields around , vegetation up to 2 meters in height Especially the plain depression , lowland in their lands land under waters flow almost not provided under the circumstances in the water easy solvent salts amount increasing , soils and groundwater initial sulfated salinity type mainly sulfate-chloride salinity to chemistry around is going on .

Sweet of the waters mineralization level of the district various in parts different, northern mountain 0-1, 1-2 g/ m2 on the plains, around the area middle 2-3g/l in parts, lower low 3-5g/l

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in the ground and from it more than. Fog sweet of the waters average mineralization level is 1.5-2g/l record General as in other words in the district irrigated on the ground negative reclamation processes observed, half hydromorphic (meadow) soils area expanding, expanding waters land to the surface approaching, salinity processes intensifying is going , them prevent to take and negative processes stop the most main from tasks one become remains . As of 2021 according to the district irrigation 45.1% of the soil average salted , 34.7 % weak salty and washed , 13.6 % strong salty and the remaining 6.6 % and from salt marshes consists of .

In the district salinity amount reduce, to against fight for the purpose village farm employees , farmer and farmers various measures In particular in exchange planting , plants salty resistant varieties cultivation , winter Jacob salt water to wash done increase , collector ditches digging and cleaning , geotechnics events correct application , irrigation their work correct take to go , to go groves organization to grow like to bring These methods are possible . application through of the harvest abundance, salinity reduction, soil reclamation status to improve achieve possible

For example in exchange planting through of the earth general status If it improves , the plants salty resistant varieties planting exactly Kagan like a fog salty regions for same midday , winter the ground Jacob irrigation with water salty of soils mechanic status to improve take comes , collector ditches digging and cleaning through size of water to decrease achieved , agrotechnical events correct application and irrigation their work correct on the road to put through various kind erosions and secondary salinity such as processes prevent if you get it , it will be fine. groves organization to grow through desert and sloppy in the regions to be from germless the ground protection to do possible. So here it is complex events done increase through of the earth fertility feature far years during storage and from salinity protection possible.

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