

characterized as decreased precipitations. Furthermore, human activities mainly as water consumption for irrigation and reservoirs construction result in shrinkage of inland lakes. Consequently, under climate change scenarios water saving by reducing losses in irrigation systems was estimated at 2,9 km³ and by applying more efficient farming methods, and the use of new irrigation technologies will be 2,3 km³ [21]. Therefore, the introduction of the water-saving irrigation technologies is relevant.

In our research it has been established that in comparison with furrow irrigation sprinkler irrigation saves irrigation water, reduces the contamination of fields, considerably. It also contributes to higher yields of cabbage varieties (7 t/h or more) and improves the quality products. Thus, implementation of relatively new method of irrigation in farms of Kazakhstan is very important. That is why scientifically approved recommendations are needed.

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