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ON THE CRITERIA FOR EVALUATING WATER RESERVOIRS FOR RECREATIONAL PURPOSES IN THE TERRITORY OF SYRDARYA REGION

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Abstract: Recreation ([lat. recreatio](#) (" recreation ") — healthy , but tired normal well-being of a person and labor activity restoration for the purpose done increaseable health-giving measures complex . On the shores of seas, lakes, rivers and artificial water bodies (ponds, quarries, reservoirs) recreational beach and swimming holidays are organized for these purposes . The assessment takes into account the conditions of access to the water, the presence of a beach line, the nature of the bottom, the speed of the current (river), the distribution of weak waves in large bodies of water, and the temperature regime. The swimming season is considered possible for a wide range of vacationers when the water temperature reaches +17°C.

Keywords : Recreation, basin, hydrography, water sports, water bodies, evaluation criteria, sanitation, hygiene.

Introduction. Water bodies of interest for recreational activities include seas, large and small rivers, lakes, and artificial reservoirs - from large reservoirs built on rivers to ponds and quarries filled with water.

The recreational aspects of water bodies in the region are determined by the following characteristics:

- ❖ **hydrographic aspects** - area, length, depth of water bodies, hydrographic network density, etc.;
- ❖ **Types of water bodies** - rivers, lakes, reservoirs, streams, rivulets, waterfalls, waterfalls, canals, ditches, artificial water bodies (created for various purposes), ditches, etc.

Water bodies are assessed in an integrated manner based on one or more factors, areas and purposes, and their interrelationships. In some cases, they can also be assessed in terms of several factors selected separately. For example, depending on the nature of recreational activities, assessment factors are stratified and an integrated assessment is carried out. For example, water resources are used for beach and swimming, recreation (for medical and health purposes), various types of water sports activities. When water resources are used for medical and health purposes, the chemical composition, temperature and pressure of the water are assessed from the point of view of comfort.

When using water resources for recreational purposes, the existing drinking water supply and suitability in the area should be considered and assessed first.

In addition, water bodies are evaluated for tourism purposes differently depending on their type. For example, in most cases, the coastal parts of large water bodies (lakes and reservoirs) are evaluated for tourism purposes and are carried out as follows:

Main criteria for evaluating water bodies for recreational purposes

Table 1

Parameter	Convenience level		
	comfortable	relatively comfortable	inconvenient
1	2	3	4
Coasts	Dry , terraced , steep smooth , natural under the circumstances development for suitable	Dry but steep edged , often peak , development to the water fall for simple structures demand does (if water near beach line if)	Coasts swamp or very steep , high cliff or ravine
To the water approach	Open field	cleaning need	Swamp , bush , closed
Beaches	Sandy , fine rocky	Grass – herbaceous , large rocky	Clay (mud) , peat , rock
The coast shallowness : - adults for	20-100 m	From 100 m more than	Sand shore

0.5-1.5 m; - children for 0.5-1.2 m	(at sea) 20-50 m (river) and on the lake)	(at sea) From 20 less than 50 m more than (river and on the lake)	no
Bottom sign	Sand and small stones	Big stones , mud sand , stones	water microorganisms with covered big plates
speed , m/s	from 0.3 less	0.3—0.5	from 0.5 more than
temperature , °C	18-24	16-17; 25-26	From 16 less than ; 26 more than
Sanitary and hygiene conditions	Clean , pollution sources no	Ease with pollution sources no is made , water himself himself/herself cleans	Pollution maximum permission done from concentration increases and pollution sources no to do possible it's not

In areas with water resources, the shallowness of water bodies is a necessary factor for recreational use, beach and swimming, and relaxation. The reason is that most vacationers do not know how to swim. For this reason, it is recommended to walk along the shore in shallow waters, wading in the water. Shallow waters that extend over an excessively long distance also cause discomfort to vacationers. If the shallow waters exceed 100 m, vacationers will have to wade through shallow water for a very long distance to dive. This leads to a sharp decrease in the quality of vacation on the coast. In the rivers to swim organization in doing stream speed from 0.3 m/s optimal conditions if not exceeded is observed . Fast flowing rivers - from 0.5 m/s more - swimming for suitable not . Sea and large of lakes on the shores swimming for limiting factor of water rudeness is considered . Sea level 3 points if not , go swimming permission is given . The most good water basins swimming season during weak waves dominance to do water Swimming pools . for the most comfortable conditions from 18 to 24 ° C was water at temperature Water is observed . only if the temperature is below 16 ° C very hard people swimming possible . Very high water temperature - from 26 ° C high - also uncomfortable .

water bodies used for recreational purposes to be safe for health, they must meet certain **sanitary and hygienic requirements** . These requirements ensure that citizens are protected from various infectious and other health-threatening factors during their recreation.

Below water to the basins wearable main **sanitary and hygienic requirements** quoted :

◆ 1. Water quality according to requirements

a) Bacteriological indicators

- 1 liter in the water intestine stick bacteria indeterminacy need .
- Intestine stick to the group related bacteria number hygienic out of the norm not exceed (usually ≤ 500 bacteria in 100 ml of water).

b) Chemical indicators

- **Harmful substances (heavy metals , pesticides , nitrates , oil products)** out of the norm not to exceed .
- **pH Level** : between 6.5–8.5 to be need .
- **Smell and color in water** no to be necessary .

c) Physics indicators

- Water clear (at least 1 meter) to the depth see possibility).
- Temperature bathing for safe (18–24°C is optimal).
- Hard particles , blurry and many peaks not to be .

◆ 2. Water basin location and status

- Basin **pollutant from sources (industry waste , sewage waters , farms)** far away located to be need .
- **Sanitation protection zone** separated to be necessary (near) around landfill , septic tank , sewage (not to be).
- **Ventilation and natural cleaning** opportunity good was in places to be to the goal according to .

◆ 3. Environment environment and infrastructure requirements

- **Bathing places marked** , security signs installation necessary .

- **Toilets , garbage dishes , showers , clothes replacement cabins** there is to be need .
- Water basin surroundings **clean , from plants , from waste cleaned** to be necessary .

◆ 4. Hygienic monitoring

- Water quality **regular control to be done** must (at least summer in season once a week).
- Local sanitation control organs by **certification** or to use **permit** to be taken need .

Based on the above information, the water resources of the Syrdarya region for recreational purposes can be assessed as follows:

🦋 1. Location and natural opportunities difference

Area / Watershed	Type of use	Current status
Syrdarya River	Water sports (limited)	Boating and fishing are possible, but there are dangerous currents
Shurazak collector zone	Holiday (informal)	Population bathe , but sanitation and security requirements answer does not give
South Mirzachul Canal	Sports or recreation it's not	Used as a technical channel
Artificial basins (Sardoba water warehouse)	Vacation (permitted)	In some permission vacation zones there is
Around Gulistan city recreational zones	Holiday (informal)	Bathing for open some places open , but complete control not done

✂ 2. Offer and solutions :

Directions	Offers
Water sports for special regions	Syrdarya river or Idle water in the warehouse safe zones mark
Hygienic control	Vacation in places water samples checking stand need
Infrastructure	Bathing in the zones shower , toilet , umbrella , lifeguard tools organization to grow
Ecological protection	Boat and scooters movement restriction , waste control

Directions	Offers
Legal standards	Informal use control to do , unauthorized sports and to bathe restriction
Tourism develop	Certified water sports schools open , local entrepreneurs attraction to do

Summary : Syrdarya in the province water basins **both in the direction (sports and recreation)** is used , but **informal , formal not included** in the form of . They right to zones isolation , sanitation , safety and ecological to the requirements based **territorial management model** working exit necessary .

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