

Dynamics of factors influencing on the Amudarya river downstream

Factors	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Irrigated area*	thousand ha	1103	1126	1150	1180	1187	1189	1185	1181	1184	1187	1188	1188	1189	1191	1193	1197	1192	1192	1196	1201
River flow at the gauging station Tyuyamuyun	mln. m3	34235	51163	45642	42083	21808	28039	16900	47182	24810	11707	10467	24303	32628	23639	40065	21495	17169	11095	20343	37715
Salinity at the gauging station Tyuyamuyun	g/l	0,849	0,802	0,884	0,826	0,906	0,856	1,103	1,23	0,981	1,125	1,219	0,754	0,815	0,904	0,728	0,909	0,914	0,863	0,757	0,700
Salt discharge at the gauging station Tyuyamuyun	thousand tonn	29052	41035	40367	34752	19748	23997	18638	58057	24344	13166	12760	18315	26598	21370	29179	19540	15693	9578	15407	26401
Water withdrawal of the downstream	mln. m3	20731	20844	21461	20433	19686	20859	17816	23818	21395	12052	8366	17584	20528	21386	23288	20698	17383	10900	18073	21139
Salt discharge to the field plot	thousand tonn	17593	16718	18981	16874	17826	17852	19649	29308	20993	13555	10198	13251	16734	19333	16960	18816	15888	9409	13688	14797
Drainage flow to the river	mln. m3	509	424	378	346	270	354	306	303	324	251	168	209	281	286	326	296	302	190	**	**
Salinity of drainage flow	g/l	5,306	5,641	5,378	4,924	4,999	4,801	5,362	4,286	4,034	4,911	5,323	4,12	3,654	4,043	3,584	3,729	3,808	4,101	**	**
Salt discharge to the field plot	thousand tonn	2703	2391	2034	1706	1349	1701	1639	1299	1307	1231	894	860	1027	1158	1168	1103	1151	780	**	**
River flow at the gauging station Samanbay	mln. m3	10484	25922	14478	18706	1944	4925	683,2	20068	4039	1378	394,4	3424	9801	4217	13000	2566	596,2	470,6	2739	16919
Salinity at the gauging station Samanbay	g/l	1,126	1,095	1,011	1,066	1,034	0,949	1,231	1,288	1,399	1,459	1,662	1,266	1,275	1,072	0,983	1,108	1,059	0,943	0,804	0,750
Salt discharge to the gauging station Samanbay	thousand tonn	11806	28388	14642	19946	2010	4673	840,9	25851	5652	2011	655,6	4336	12499	4519	12779	2842	631,2	443,6	2203	12690

* Gross irrigated area - Dashoguz, Khorezm, Karakalpakstan

** Drainage flow from the field plot is directed to the Aral Sea since 2009

Source: BWO "Amudarya"