

## Actual water-salt balances of pilot plots with vertical drainage

Pilot index	Main elements of water-salt balance, m <sup>3</sup> /ha, t/ha														
	Inflow per year				Total	Outflow per year			Total	Balance elements ratio		water exchange between unsaturated zone and groundwater m <sup>3</sup> /ha	Salt influx, t/ha	Salt removal, t/ha	salt balance within unsaturated zone, t/ha (±)
	precipitation	water supply	filtration	ground water inflow		evapotranspiration	drainage outflow	ground water outflow		$\frac{W+P}{ET}$	$\frac{DO}{W+P}$				
P	W	F	GI	ET	DO	GO									

Syrdarya upper reachesObjects of Uzbekistan

02.17. Uz.	1640	10370	1435	4160	17605	8240	8470	-	16710	1.45	0.71	-3770	18.2	29.2	-11
02.24. Uz.	750	9670	-	4724	15100	7750	8000	-	15750	1.34	0.76	-2670	11.6	24.0	-12.4
02.33. Uz.	1259	7700	1685	3465	14109	7861	6840	-	14701	1.13	0.76	-2006	12.8	18.9	-6.1

Objects of Kyrgyzstan

02.1. Kyr.	144	9600	-	-	9744	7718	327	-	8045	1.26	0.034	-2026	3.03	16.29	-13.26
02.2. Kyr.	Field investigations have not been conducted, only forecast calculations were made														

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	precipitation	water supply	filtration	ground water inflow		evapotranspiration	drainage outflow	ground water outflow		$\frac{W+P}{ET}$	$\frac{DO}{W+P}$				
P	W	F	GI	ET	DO	GO									

Syrdarya middle reaches

Objects of Uzbekistan

02.4. Uz.	2500	8950	-	-	11450	5775	6248	-	12023	1.98	0.54	-5675	11.2	64.4	-53.2
02.18. Uz.	2298	7043	-	-	9341	7540	2000	-	9540	1.23	0.21	-1801	9.4	3.4	+6.0
														16.4	-7.0
02.19. Uz.	2000	10500	-	-	12500	8000	4750	-	12750	1.56	0.38	-4500	12.6	19.0	-6.4
02.27. Uz.	2000	9000	-	-	11000	7840	3850	-	11690	1.40	0.35	-3160	10.5	21.9	-11.4
02.30. Uz.	1870	8200	-	-	10070	7500	4000	-	11500	1.34	0.40	-2570	9.8	16.3	-6.5
	2150	5800	-	-	7950	8320	1500	-	9820	0.95	0.18	+370	6.96	3.2	+3.8
02.36. Uz.	2320	9000	-	-	11320	9100	4415	-	13515	1.24	0.39	-2220	10.8	22.08	-11.3
02.37. Uz.	3160	10960	-	-	14120	7500	6640	-	14140	1.88	0.47	-6620	16.4	25.4	-8.6

Objects of Uzbekistan in Kazakhstan

Pilot index	Main elements of water-salt balance, m <sup>3</sup> /ha, t/ha														
	Inflow per year				Total	Outflow per year			Total	Balance elements ratio		water exchange between unsaturated zone and groundwater m <sup>3</sup> /ha	Salt influx, t/ha	Salt removal, t/ha	salt balance within unsaturated zone, t/ha (+)
	precipitation	water supply	filtration	ground water inflow		evapotranspiration	drainage outflow	ground water outflow		$\frac{W+P}{ET}$	$\frac{DO}{W+P}$				
	P	W	F	GI	ET	DO	GO								
02.11. Uz.	2220	7500	-	-	9720	7780	2800	-	10580	1.25	0.28	-1940	9.56	14.80	-5.2
	2450	5700	-	-	8150	8256	1500	-	9756	0.98	0.18	+106	8.55	4.8	+3.8
02.12. Uz.	3148	5477	3290	-	11318	8516	3200	-	11716	1.32	0.28	-2802	11.5	13.5	-2.0
02.13. Uz.	2360	7000	2140	-	11500	8500	3050	-	11550	1.35	0.26	-3950	10.3	22.8	-12.5
02.14. Uz.	1820	7480	700	540	10540	7730	2275	422	10427	1.36	0.22	-2810	12.6	16.86	-4.26
02.7. Uz.	2481	6568	-	-	9049	9920	151	-	10071	0.91	0.02	+871	7.45	0.45	+7.0
	2540	7645	-	-	10185	7046	3481	-	10527	1.44	0.34	-3139	12.7	31.4	-18.7
02.9. Uz.	1880	9120	-	-	11000	8250	4000	-	12250	1.33	0.36	-2750	10.03	21.63	-11.6
	1971	5209	766	-	7946	8035	1400	697	10132	0.98	0.18	+89	11.14	3.14	+8.0
<u>Objects of Kazakhstan</u>															
02.1. Kaz.	2080	6700	330	420	9530	7080	1900	500	10400	1.24	0.22	-1700	3.65	5.1	-1.5
02.2. Kaz.	1840	6000	1500	2050	11390	8300	2400	-	10700	1.37	0.31	-1040	7.2	7.2	0

Syrdarya low reaches

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	precipitation	water supply	filtration	ground water inflow		evapotranspiration	drainage outflow	ground water outflow		$\frac{W+P}{ET}$	$\frac{DO}{W+P}$				
P	W	F	GI	ET	DO	GO									

Objects of Uzbekistan

02.8. Uz.	1400	20200	-	-	21600	8150	7000	-	15150	2.65	0.32	-13600	24.2	34.0	-9.8
02.10. Uz.	2770	8680	828	707	12985	8130	4880	-	13010	0.71	0.43	-3320	12.26	14.64	-2.4

Objects of Kazakhstan

02.3. Kaz.	2100	22830	-	-	24930	13780	11600	-	25380	1.81	0.46	-11150	28.4	33.4	-5.0
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Amudarya upper reaches

Objects of Tadjikistan

02.1. Tad.	2748	11326	3216	10374	27666	8895	15294	4032	28221	1.58	1.08	-5179	82.9	116.1	-33.2
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Amudarya middle reaches

Objects of Uzbekistan

Pilot index	Main elements of water-salt balance, m <sup>3</sup> /ha, t/ha														
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	precipitation	water supply	filtration	ground water inflow		evapotranspiration	drainage outflow	ground water outflow		$\frac{W+P}{ET}$	$\frac{DO}{W+P}$				
P	W	F	GI	ET	DO	GO									
02.31. Uz.	1226	9366	1588	2561	14714	7637	6085	2604	16326	1.38	0.57	-2955	13.77	23.07	-9.3
02.40. Uz.	1390	7280	2701	-	11371	6691	3486	1196	11374	1.29	0.40	-1979	10.37	22.46	-12.09
02.41. Uz.	object encompasses several regions														
02.42. Uz.	objects encompass all Golodnaya steppe														