

Regulation of unsaturated zone water-salt regime and top fine-grained soil
on background of vertical drainage

Code, index	Drainage modulus, l/sec/ha		Drainage outflow, m ³ /ha		Groundwater table regulation limits, m		Groundwater table lowering rate, cm/day		Salt balance, (±), t/ha	Groundwater salinity, g/l		Soil salinity within 0-1 m layer, % ha or t/ha	
	initial	achieved	initial	achieved	initial	achieved	initial	achieved		initial	achieved	initial	achieved

Syrdarya upper reaches

Objects of Uzbekistan

02.17. Uz.	0.13	0.24	4100	7670	1.5-2.0	2-3.5	1.5-2.0	> 10	-11	10-50	6-7	NS, WS	NS, WS
02.24. Uz.	0.14	0.22	4415	7884	1.5	1.8-3.5	1.5-2.0	8-15	-12.4	5-10	2-4	WS+MS = = 80 %	NS = 60 % WS = 40 %
02.33. Uz.	0.12	0.18	3780	5680	0.6-1.5	2-3	1.5-2.0	>8-10	-6.1	5-6	2-4	NS = 92 % WS = 8 %	NS = 100 %

Objects of Kyrgyzstan

02.1. Kyr.	0.007	0.013	210	416	3.6-3.8	2-3	-	-	-13.3	3-30	2-27	65 t/ha	35 t/ha
02.2. Kyr.	Field investigations have not been conducted, only forecast calculations were made												

Syrdarya middle reaches

02.4. Uz.	0.057	0.217	1800	6830	1.5-2.0	2-3.5	6	>10	-53.2	10-50	6-7	90 % засолен.	90 % NS.
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	initial	achieved	initial	achieved	initial	achieved	initial	achieved		initial	achieved	initial	achieved
02.18. Uz.	0.04	0.08	1100	2500	1.7-2.2	2-3	1.5-2.4	> 5	+6.0 -7.0	2.5-5	2.5-4	-	-
02.19. Uz.	0.042	0.15	1270	4750	1.8-2.2	2.5-4.0	2.5	> 5	-6.4	16-17	5-6	SS = 70 % MS = 30 %	WS = 65 % NS = 35 %
02.27. Uz.	0.042	0.12- 0.14	1250	4000- 4500	1.0-1.5	2.5-3.5	0.4	3-4	-11.4	8-25	3-6	SS = 66 % NS = 34 %	SS = 9 % NS = 91 %
02.30. Uz.	0.127	0.048	4000	1500	3.0	2.0	3-6	0.5	-6.5 +3.8	4.9	11.9	SS = 24 % WS = 76 %	SS = 60 % WS = 40 %
02.36. Uz.	0.04	0.18	1200	5670	1.2-1.8	2.5-3.5	1.5-2.5	>7-	-11.3	5-36	3-6	SS = 43 % WS = 57 %	SS = 4 % WS = 96 %
02.37. Uz.	0.05	0.160	1640	5000	1-2	2-3.5	0.5-1.5	5-10	-8.6	15-25	3-5	MS+SS = 70 %	NS+WS = 80 %
<u>Objects of Uzbekistan in Kazakhstan</u>													
02.11. Uz.	0.082	0.05	2600	1500	2-2.5	2-2.4	0.1-0.5	2-4	-5.2 +3.8	5-10	3-5	WS+MS = 88 %	SS = 39 % WS = 61 %
02.12. Uz.	0.04	0.14	1260	4410	1-1.5	1.5-4.5	0.5	3-4	-2.0	8-16	3-5	75 % saline	90 % NS
02.13. Uz.	0.05	0.15	1500	4600	1-2	2-5	0.5	3-5	-12.5	3-40	3-5	WS = 30 % SS MS = 70 %	NS WS = 80 % MS = 20 %

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	initial	achieved	initial	achieved	initial	achieved	initial	achieved		initial	achieved	initial	achieved
02.14. Uz.	0.052	0.11	1580	3500	1.5-2	2-5	0.5-1.0	5-10	-4.3	2-5	2-5	-	-
02.7. Uz.	0.03	0.16	1000	5000	1-1.5	1.8-3.5	0.2-0.4	>5	-18.7	5-10	3.5-4.0	70 % saline	94 % NS
02.9. Uz.	0.04	0.09- 0.19	1000- 1500	3000- 6000	1.2-1.5	2-3.5	0.6	>10	-11.6	5-10	3-6	70 % saline	75 % NS
<u>Objects of Kazakhstan</u>													
02.1. Kaz.	0.061	0.05	1920	1420	1.5-2.0	1.5-2.0	0.5-1.0	>5	-1.5	3-5	2-3	MS = 30 % NS = 70 %	WS = 20 % NS = 80 %
02.2. Kaz.	0.07	0.085	2240	2680	1-3	2.5-3.5	0.5	>5-6	0	2.0	1-1.5	MS = 30 % NS = 70 %	NS = 100 %
<u>Syrdarya low reaches</u>													
<u>Objects of Uzbekistan</u>													
02.8. Uz.	0.14	0.24	4280	7500	0-3.4	0-3.5	0.5	4-5	-9.8	4-5	3-4	NS+WS = 60 %	NS+WS = 75 %
02.10. Uz.	0.07	0.20	2090	3410	2-2.5	2.5-3.5	0.5	4	-2.4	2-3	1-3	WS+MS = 95 %	NS = 94 %

Objects of Kazakhstan

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	initial	achieved	initial	achieved	initial	achieved	initial	achieved		initial	achieved	initial	achieved
02.3. Kaz.	0.371	0.315	11710	9930	1.2-2.5	1.2-2.5	-	-	-5.0	1.2-2.2	1.2-1.4	spares: 91 t/ha	stay: 47 t/ha

Amudarya upper reaches

Objects of Tadjikistan

02.1. Tad.	0.28	0.52	8895	16405	1-2	2.5-3.0	0.75	>10	-33.2	10-15	3-5	SS = 91 %	SS = 20 %
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Amudarya middle reaches

Objects of Uzbekistan

02.31. Uz.	0.019	0.15	600	4800	0.5-2.0	1.5-3.2	1.5-3	>8-10	-9.3	5-10	1.2-3	MS+SS = 90 %	NS+WS = 94 %
02.40. Uz.	0.04	0.073	1200	2300	1.5-2.0	2.5-2.9	0.1-0.2	3-5	-12.1	20-40	5-10	MS+SS = 90 %	NS+WS = 95 %

02.41. Uz. regional objects

02.42. Uz. regional objects

NS - non-saline; WS - slightly saline; MS - medium saline; SS - strongly saline.