

Assessment of reclamation efficiency and irrigation water expenses per agricultural production unit
 (direction 2: «Regulation of water-salt regime and ecological-reclamation processes management
 on background of drainage, irrigation and leaching (vertical drainage)»)

Plot index	Soil-climatic zone	water allowance	Agri-cultural crop	Data type	Water supply, m ³ /ha per year		Drainage modulus,	Soil 0-1 m layer salinity, %, ha or t/ha	Yield, c/ha	Yield increase (+) or decrease (-)	Irrig. water expenses per yield unit, m ³ /c	Irrig. water productivity at field level, kg/m ³	
					net	gross						experiment	FAO recommend.

UZBEKISTAN

02.04	Ц-П-Б	V	cotton	initial achieved	8950 7190	9850 8200	0.057 0.217	90 % saline 90 % NS	22 37	+12(55)	406 194	0.245 0.515	0.4-0.6
02.17	Ц-П-А	V	cotton	initial achieved	6770 6690	9030 8920	0.13 0.24	- -	27 32	+5(19)	250 210	0.399 0.478	0.4-0.6
02.18	Ц-П-Б	V	cotton	initial achieved	5300	5840	0.04	-	12.4	+9(73)	470	0.232	0.4-0.6
02.19	Ц-П-Б	V	cotton	initial	6970	9300	0.04	SS=70% MS=30%	5	+20(400)	1860	0.071	0.4-0.6
				achieved	6970	9300	0.15	WS=65% NS=35%	25		372	0.360	
02.24	Ц-П-А	V	cotton	initial	8100	8910	0.14	WS+MS=80% NS=20%	25	+10(40)	356	0.309	0.4-0.6
				achieved	7500	8250	0.22	NS=60% MS=40%	35		235	0.466	
02.27	Ц-П-Б	V	cotton	initial	5200	7020	0.042	SS=66% NS=31%	10	+20(200)	702	0.192	
				achieved	7000	9100	0.14	SS=9% NS=91%	30			0.420	0.4-0.6
02.30	Ц-П-Б	IV	cotton	initial	6540	9340	0.127	SS+MS=24%	22.4	-4.9(22)	571	0.342	0.4-0.6

Plot index	Soil-climatic zone	water allowance	Agricul-tural crop	Data type	Water supply, m ³ /ha per year		Drainage modulus,	Soil 0-1 m layer salinity, %, ha or t/ha	Yield, c/ha	Yield increase (+) or decrease (-)	Irrig. water expenses per yield unit, m ³ /c	Irrig. water productivity at field level, kg/m ³	
					net	gross						experiment	FAO recommend.
02.31	Ц-II-A	IV	cotton	initial	6200	7750	0.019	MS+SS=90% NS WS=94%	14	+16(114)	554	0.225	0.4-0.6
				achieved	6110	9400	0.15	WS=76% SS=60% WS=40%	30		313	0.490	
02.33	Ц-II-A	V	cotton	initial	7800	9360	0.12	NS=92% WS=8%	27	+8(30)	347	0.346	0.4-0.6
				achieved	7770	9320	0.18	NS=100%	35		266	0.450	
02.36	Ц-II-B	V	cotton	initial	6000	7500	0.04	SS=43% SS=4%	15	+15(100)	500	0.250	0.4-0.6
				achieved	6750	9000	0.20	MS SS=70% NS WS=80%	30		300	0.444	
02.37	Ц-II-B	V	cotton	initial	6000	6300	0.05	MS SS=70% NS WS=80%	14	+14(100)	450	0.233	0.4-0.6
				achieved	6900	9200	0.16				393	0.340	
02.40	Ц-II-B	V	cotton	initial	5140	6850	0.04	MS SS=90% NS WS=95%	12.7	+9.2(72)	539	0.247	0.4-0.6
				achieved	6450	8600	0.073		21.9		260	0.480	
OBJECTS OF UZBEKISTAN IN KAZAKHSTAN													
02.11	Ц-II-B	IV	cotton	initial	7500	9375	0.082	MS SS=12% WS=88%	36	-9(25)	239	0.418	0.4-0.6
				achieved	6470	8620	0.048	WS=61% MS SS=39%	27		650	0.200	
02.12	Ц-II-B	V	cotton	initial	5500	7150	0.05	75% saline	11	+21(190)	345	0.462	0.4-0.6
02.13	Ц-II-B	V	cotton	initial	7500	10050	0.14	NS=90%	32		703	0.202	

Plot index	Soil-climatic zone	water allowance	Agri-cultural crop	Data type	Water supply, m³/ha per year		Drainage modulus,	Soil 0-1 m layer salinity, %, ha or t/ha	Yield, c/ha	Yield increase (+) or decrease (-)	Irrig. water expenses per yield unit, m³/c	Irrig. water productivity at field level, kg/m³	
					net	gross						experiment	FAO recommend.
02.1	Ю-1-Г	IV	cotton	initial	-	13240	0.52	SS=91%	13	+6.3(48)	1018	0.09	0.4-0.6
				achieved	-	10522	0.28	SS=20%	19.3		545	0.183	
	lucerne			initial	-	13240	0.52	SS=91%	38	+51(134)	348	0.290	1.5-2.0
				achieved	-	10522	0.28	SS=20%	89		118	0.845	

Abbreviations: NS - non-saline; WS - weakly saline; MS- medium saline; SS - strongly saline.