

ANNEXES TO SECTION 1

List of the pilot projects on direction

Code	##	Symbol	Author	Location			Title
				Province	Rayon	Farm	
UZBEKISTAN							
1.01.Uzb.	1	Δ	V.Zheleznykh	Tashkent	Zangiata	NISTO SANIIRI	Determination of cotton water consumption under two methods of irrigation (furrow and sprinkler) and cotton water consumption normalization using lizymeters
1.02.Uzb.	2	Δ	O.Inchenkova	Syrdarya	Sh.Rashidov	collective farm G.Gulyam	Agricultural crops water consumption for definition of norms and terms of cotton irrigation
1.03.Uzb.	3	Δ	A.Ramazanov	Karakalpakstan		collective farm Oktyabr	Study of rice water consumption
1.04.Uzb.	4	Δ	F.Rakhimbayev	Tashkent	Yangiyul	collective farm Tinchlik	Study of winter wheat irrigation on typical grey soils of Tashkent oasis
1.05.Uzb.	5	Δ	M.Khamidov	Syrdarya	Gulistan	dekhkan farm Yangiabad	Field investigations on rational rice irrigation regime
1.06.Uzb.	6	Δ	M.Khamidov	Khorezm		collective farm Khalkabad	Irrigation regime of agricultural crops of cotton complex on hydromorphous soils
1.07.Uzb.	7	Δ	Kh. Umarov	Fergana	Akhunba-	collective farm	Study and development of irrigation regime and nutrients application for cereals
1.08.Uzb.	8	Δ	E.Cholpankulov	Kashkadarya	bayev Kamashinsk	Niyazov	
KAZAKHSTAN							
1.01.Kaz.	1	Δ	G.Zhdanov	Chymkent	Kzylkum massif	-	Study of secondary crops in rice rotation irrigation regime
1.02.Kaz.	2	Δ	R.Kvan	Kzyl-Orda	Terenozek massif	-	Water consumption norms for agricultural crops in rice rota-

Code	##	Symbol	Author	Location			Title
				Province	Rayon	Farm	
							tion on non-saline and slightly saline soils in the Syrdarya lower reaches
1.03.Kaz.	3	Δ	R.Kvan	Kzyl-Orda	Terenozek massif	-	Water consumption norms for rice and lucerne on saline soils of the Syrdarya lower reaches
1.04.Kaz.	4	Δ	S.Magay	Chymkent	Кзылкумский массив	-	Normalization of water consumption and disposal for rice growing on background of vertical drainage
1.05.Kaz.	4	Δ	S.Magay	Chymkent	Кзылкумский массив	-	Normalization of water consumption and disposal for rice on background of horizontal drainage
1.06.Kaz.	6	Δ	V.Petrinin	Kazalinsk		-	Irrigation regime and irrigation norms for rice on background of horizontal drainage on Kazalinsk irrigation massif.
1.07.Kaz.	7	Δ	V.Petrinin	Kzyl-Orda	Terenozek massif	-	Development of irrigation regime and Irrigation norms for Terenozek massif
KYRGYZSTAN							
1.01.Kyrg.	1	Δ	R.Gorbacheva	Chui	Alamedin	collective farm Prigorodny	Perfection of water use norms and normatives system providing established level of crops yield and Irrigation water rational use
TURKMENISTAN							
1.01.Turk.	1	Δ	T.Djumanazarova	Pre-KopetDag	Akhal	collective farm Vatan	Vegetables water consumption under conditions of Pre-KopetDag zone
TADJIKISTAN							

Code	##	Symbol	Author	Location			Title
				Province	Rayon	Farm	
1.01.Tad.	1	Δ	A.Akramov	Khatlon	Kumsanpir	collective farm Kommunizm	Thin-fibre cotton irrigation and consumption regime under all year use of land in extreme South-West of Tadjikistan
1.02.Tad.	2	Δ	M.Djurayev	Gissar valley	Bakhtar	collective farm Turkmenistan	Optimization of irrigation regime, water consumption and maize biological coefficients on lands of 3rd water allowance rayon.
1.03.Tad.	3	Δ	Sh.Pulatova	-	Shakhristan	SPA Zemledelie	Irrigation and water consumption regime of winter wheat in pre-mountain zones of Tadjikistan
1.04.Tad.	4	Δ	Ya.Pulatov	Leninabad	Khodjent	collective farm Lenin	Middle-fibre cotton irrigation regime on stony soils of Khodjent province
1.05.Tad.	5	Δ	Ya.Pulatov	-	Gissar	collective farm K.Marx	Crops irrigation regime in system of all year use of arable lands
1.06.Tad.	6	Δ	S.Satibaldyev	-	Gissar	Experimental farm of Tad- NIISKh	Optimization of middle-fibre cotton irrigation regime under conditions of Gissar valley
1.07.Tad.	7	Δ	M.Tukhliyev	Gissar valley	Lenin	collective farm Khosilot	Study of sugar beet water consumption and irrigation regime in Gissar valley

Climatic characteristics of pilot projects on irrigation and drainage constructed in Central Asia in the past years
(direction 1 - irrigation regime and water consumption norms)

Code of objects	Location	Temperature					Oc, mm	E, mm	D water availability	$K_y = \frac{O_c}{E}$	Y average year
		t _{max.}	t _{min.}	t _{average year}	eef.t > 10 ⁰ C	t days without frost					
KAZAKHSTAN											
1.01 K (C-I)	Kyzylkum massif, Chimkent province	-	-	-	4800			1200	1050	008	-
1.02 K (C-II)	Kyzylkum massif, Chimkent province	-	-	-	3500-4100	177-192	109-159	1300-1600	1200-1440	006-008	-
1.03 K (C-II)	Kyzylkum massif, Chimkent province	-	-	-	3500-4100	177-192	109-159	1300-1600	1200-1440	006-008	-
1.04 K (C-II)	Kyzylkum massif, Chimkent province	-	-	12 ⁰ C	4600-4800	200-210	165-210	1100-1200	1080	0,117	-
1.05 K (C-II)	Kyzylkum massif, Chimkent province	-	-	12 ⁰ C	4600-4800	200-210	165-210	1100-1200	1080	0,117	-
1.06 K (C-II)	Kyzylkum massif, Chimkent province	-	-	12 ⁰ C	4600-4800	200-210	165-210	1100-1200	1080	0,115	-
1.07 K (C-II)	Kyzylkum massif, Chimkent	-	-	12 ⁰ C	4600-4800	200-210	165-210	1100-1200	1080	0,115	-

Code of objects	Location	Temperature					Oc, mm	E, mm	D water availability	$K_y = \frac{Oc}{E}$	Y average year
		t _{max.}	t _{min.}	t _{average} year	eef.t > 10 ⁰ C	t days without frost					
	province										
1.08 K (C-I)	Kazalinsk massif	26 ⁰ C	-11,3 ⁰ C	8 ⁰ C	3524-3850	170-180	104-132	1737	≈1600	0,067	-
1.09 K (C-II)	Terenozek massif, Kzyl-Orda province	-	-	8,9 ⁰ C	3700	180	120	1300-1600	1350	0,082	-
UZBEKISTAN											
1.01.U	NISTO, Tashkent province	-	-	10,6	2315	205-210	370	1300-1400	980	027	-
1.02.U	collective farm G.Gulyam, Syrdarya province	47	34	12,5	4500	169-200	250-300	1400	1375	019	1,7-2,6
1.03.U	collective farm Oktyabr, Karakalpakstan	-	-	11-13	4000	160-190	80-140	1500	14860	006	
1.04.U	collective farm Tinchlik, Yangi-yul, Tashkent province			13-14,5	2300	200-220	240-300	1300-1400	≈ 1000	0,2	
1.05.U	dekhkan farm Yangiabad, Syrdarya province	42-43	14-18	13	4300	180-200	200-225	1350-1420	≈1200	0,153	10-12
1.06.U	collective farm			13,5	4000	170-180	70-80	1000-	≈1120	0,068	

Code of objects	Location	Temperature					Oc, mm	E, mm	D water availability	$K_y = \frac{Oc}{E}$	Y average year
		t _{max.}	t _{min.}	t _{average} year	eef.t > 10 ⁰ C	t days without frost					
	Khalkabad, Khorezm province							1200			
1.07.U	collective farm Niyazov, Fergana province	46-50		13-14,8	3800-4200	190-210	90-170	1000-1175	≈1000	0,113	
1.08.U	collective farm # 24, Karshi steppe			14,5-16	-	-	146-535	1100-1300	854	765	0,2
TADJIKISTAN											
1.01.Tad.	collective farm Kommunizm, Kumkorg district, Khatlan province	46-47	-25,-26	15,7-15,9	4200	190-235	294	-	-	-	08-1,9
1.02.Tad	collective farm Turkmenistan, Bakhtar district	46-47	-25,-26	15-17	4500-5800	250-310	143-297	1469-1950	1326-1653	0097-0152	1,2-2,1
1.03.Tad	Shakhristan point	25-42	-29 +34	13-13,2	500-5100	125-270	372-440	-	-	-	1,6-4,7
1.04.Tad	collective farm Lenin, Khodjent province	34-45	27-29	14-,1	2500-4800	160-220	155	1725	1570	0,032	2-5
1.05.Tad	collective farm K.Marx, Gissar district	43-44	24-30	12,8-15,1	2192-2510	220-240	630	1505	873	042	1,5-2,8
1.06.Tad.	experimental	43-44	24-30	14>15,1	2192	220-240	613	5115	842	044	1,5-2,8

Code of objects	Location	Temperature					Oc, mm	E, mm	D water availability	$K_y = \frac{Oc}{E}$	Y average year
		t _{max.}	t _{min.}	t _{average} year	∑ef.t > 10 ⁰ C	t days without frost					
	farm TadNIISH, Gissar district				2510						
1.07.Tad.	collective farm Khasilot, Gissar district	43-44	24-30	14,1-15,1	2192-2510	629	220-240	1505	873	042	1,5-2,8
KYRGYZSTAN											
1.01.Kyr.	collective farm Prigorodny, Alamedin district, Chui province	21-24	-32-83	9-10	3000-3800	380-460	180	1000	580	0,42	-
TURKMENISTAN											
1.01.Turk.	collective farm Vatan, Akhal province	-	-	-	5300-5400	186-257	128-149	-	-	-	-

Note:

t_{max} - maximum air temperature

t_{min} - minimum air temperature

t_{ср.г.г.} - average annual air temperature

∑ef.t sum of effective temperatures higher than 10⁰ °C

t days without frost - duration of non-freezing period with temperature higher than 10⁰ °C

Îñ - annual precipitation, mm

Å - evaporability, mm

D - water supply deficit

Êó - moistening coefficient

Geomorphological-hydrological conditions of the pilot projects on irrigation regime and water consumption norms in Central Asia (direction 1)

Code of object	Location	Geomorphology	Lithology	Soil permeability		Artesian waters		Groundwater table		Salinity, g/l	
				↳ top soil permeability, m/day	↳ aquifer permeability, m/day	artesian system	non-artesian	depth, m	amplitude, m	ground water	deep water
KAZAKHSTAN											
1.01. K	Kyzylkum massif, Chymkent province	alluvial plane, i=0,0002-0,003	multi-layer deposits	0,2-0,3	10-12	weak		0,5-3,0	up to 1,6	3-5	up to 2,0
1.02. K	Terenozek massif, Kzyl-Orda province	delta, alluvial plane, i=0,0005-0,001	multi-layer deposits	0,3-0,5	6-10	-	without	1-3	up to 1,5	1-5	up to 2,0-3
1.03. K	Terenozek massif, Kzyl-Orda province	ancient delta 00005	multi-layer deposits	0,3-0,5	6-10	-	+	1-3	1,5	1-5	2-3
1.04. K	Kyzylkum massif, Chymkent province	Alluvial plane i=0,0002-0,003	multi-layer deposits	0,35	up to 12	-	+	1,5-3,0	-	1,2-2,2	0,5-1,5
1.05. K	Kyzylkum massif, Chymkent province	alluvial plane, i=0,0002-	two-layer deposits	1,45	up to 12	-	+	up to 5 m	-	4,4	0,5-1,5

Code of object	Location	Geomorphology	Lithology	Soil permeability		Artesian waters		Groundwater table		Salinity, g/l	
				Ê top soil permeability, m/day	Ê aquifer permeability, m/day	artesian system	non-artesian	depth, m	amplitude, m	ground water	deep water
		0,003									
1.06. K	Kyzylkum massif, Chymkent province	alluvial plane i=0,0002-0,003	two- and multi-layer deposits	0,21-0,35	up to 12	-	+	0,6-2,0	1,6	1,9-8,14	
1.07. K	Kyzylkum massif, Chymkent province	alluvial plane i=0,0002-0,003	two- and multi-layer deposits	0,21-0,35	up to 12	-	+	0,6-1,8	1,4	1,9-8,14	-
1.08. K	Kazalinsk massif, Kzyl-Orda province	delta, alluvial plane i=0,000015	multi-layer deposits	0,5-1,0	1-5	-	+	1-3	up to 2	up to 3	-
1.09. K	Terenozek massif, Kzyl-Orda province	slightly corrugated alluvial plane i=0005-0001	multi-layer deposits	03-05	6-10	-	+	1-3,0	up to 3,0	1-10	-
UZBEKISTAN											
1.01.UZ.	NISTO, Tashkent province	corrugated plane of Chirchik river	thick one-layer sediment	0,5-1,0	-	-	+	>5	-	2-3	-
1.02.UZ.	collective farm G.Gulyam, Syrdarya prov-	proluvial plane	thick one-layer sediment	0,5-1,0	-	+	-	1,5-2,5	2,0	3-5 and higher	-

Code of object	Location	Geomorphology	Lithology	Soil permeability		Artesian waters		Groundwater table		Salinity, g/l	
				Êô top soil permeability, m/day	Êô aquifer permeability, m/day	artesian system	non-artesian	depth, m	amplitude, m	ground water	deep water
	ince										
1.03.UZ.	collective farm 10-à Syrdarya province	alluvial plane i=0001-00015	thick multi-layer sediments	0,35-0,5	10-12	-	+	2,5-3,0	2,5	3-4	-
1.04.UZ.	collective farm Oktyabr, Karakalpakstan	Amudarya river delta, i=0,0003	multi-layer sediments	-	-	-	+	1,5-2,5	1,2-1,4	3-10 and higher	
1.05.UZ.	collective farm Tinchlik, Yangiyul district, Tashkent province	corrugated pre-mountain plane, Chirchik river	thick one-layer sediment	0,18-0,35	-	-	+	>5-10	-	-	-
1.06.UZ.	dekhkan farm Yangiabad, Syrdarya province	alluvial plane i=00003-00004	two- and multi-layer sediments	003-01	>30	+	-	0,5-1,0	0,5	1-5	up to 2,0
1.07.UZ.	collective farm Khalkabad, Khorezm province	alluvial plane Amudarya river delta, i=0,0001-0,0003	multi-layer sediments	up to 0,3	10-12	-	+	0,5-1,5	1,0	3,0-5,0	up to 2,0
1.08.UZ.	collective farm	low plane	one-layer deposit	0,1-0,15	-	+	-	1,8-2,2	up	2,2-4,1	up

Code of object	Location	Geomorphology	Lithology	Soil permeability		Artesian waters		Groundwater table		Salinity, g/l	
				Ê top soil permeability, m/day	Ê aquifer permeability, m/day	artesian system	non-artesian	depth, m	amplitude, m	ground water	deep water
	Niyazov, Fergana province	Isfara-Shakhimardan							to1,6		to1,0
1.09.UZ.	collective farm # 24, Karshi steppe	intra-mountain slightly corrugated plane	alluvial-proluvial multi-layer deposits	up to 0,8	-	-	+	1,28-2,13	1,2	10-20	-
TADJIKISTAN											
1.01.Tad.	collective farm Kommunizm, Kumkorg district, Khatlan province	pre-mountain zone, Vakhsh terrace, i=001-0003	two- and multi layer deposits	-	-	+	-	>15	-	-	-
1.02.Tad.	collective farm Turkmenistan, Bakhtar district	Vakhsh 3rd terrace, i=0,0005-0,025	two- and multi layer deposits	-	-	+	-	>15	-	-	-
1.03.Tad.	Shakhristan point	technogenic erosion and denudation-accumulative	multi layer deposits	-	-	-	+	>15	-	-	0,1-0,7

Code of object	Location	Geomorphology	Lithology	Soil permeability		Artesian waters		Groundwater table		Salinity, g/l	
				Ê top soil permeability, m/day	Ê aquifer permeability, m/day	artesian system	non-artesian	depth, m	amplitude, m	ground water	deep water
		relief, i=0,0015									
1.04.Tad.	collective farm Lenin, Khodjent province	proluvial-alluvial deposits, i=0015-0002	multi-layer stony deposits	3,6	-	-	-	-	-	-	-
1.05.Tad.	collective farm K.Marx, Gissar district	Vakhsh 1st and 2nd terrace	multi-layer deposits	-	-	-	-	2-3	-	up to 1,0	-
1.06.Tad.	experimental farm TadNIISH, Gissar district	Vakhsh alluvial-proluvial deposits, i=0,012-0,015	0	-	-	-	-	4,5-5 and 1,5-3,0-	-	-	-
1.07.Tad.	collective farm Khasilot, Gissar district	Vakhsh low terrace i=0015-0035 реже 0003-0,008	multi-layer deposits	0,5-0,6	-	-	-	1,5-3,0	-	-	-
KYRGYZSTAN											
1.01. Kyr.	Collective farm	pre-mountain	multi-layer de-	-	-	-	+	1,5-3,0	1-8	0,17-	-

Code of object	Location	Geomorphology	Lithology	Soil permeability		Artesian waters		Groundwater table		Salinity, g/l	
				Ê top soil permeability, m/day	Ê aquifer permeability, m/day	artesian system	non-artesian	depth, m	amplitude, m	ground water	deep water
	Prigorodny, Alamedin district	plane, alluvial deposits, I=0,0054	posits of Alamedin, Chu rivers							2,7	
TURKMENISTAN											
1.01.Turk.	collective farm Vatan Akhal province	pre-mountain plane i=0005	multy-layer alluvial-proluvial deposits					4,5	-	3,0	-

Soil-reclamation characteristics of the previous pilot projects on irrigation and drainage in Central Asia
(direction 1 - «irrigation regime and crop water consumption norms»)

Code of objects	Location	Soils type		Water-physical soil properties				Salinity					
		genesis	mechanical composition	γ t/m ³	η t/m ³	μ	$\frac{\delta}{III B}$	salinity degree	salinity type	salt stock distribution	Σ S,% 0-1 m	Cl, %	SO ₄ , %
KAZAKHSTAN													
1.01.	Kyzylkum massif, Chymkent province	meadow-gray	sandy loam, light loam (IV)	1,43-1,47	2,7-2,75	01	$\frac{1,2}{21-25\%}$	weak	chloride-sulphate	surface	0,3-0,4	0,012	0,12
1.02. (VI)	Terenzek massif, Kzyl-Orda province	alluvial-meadow meadow-swamp	medium and light loam	-	-	-	-	from weak to medium	chloride-sulphate	surface	0,3-1,0	0,01-0,05	-
1.03. (VI)	Terenzek massif, Kzyl-Orda province	alluvial-meadow-desert	from light to heavy loam	-	-	-	-		chloride-sulphate	surface	0,3-0,8	0,01-0,05	-
1.04. (IV)	Kyzylkum massif, Chymkent province	meadow-gray	loam with clay inter-layer	1,41-1,54	2,63-2,72	006-0,08	$\frac{1,2}{18-25\%}$	weak and strong	chloride-sulphate	surface	0,31-0,4	0045-018	0115-1,1
1.05 (VII)	Kyzylkum massif, Chymkent province	meadow-gray	loam with clay inter-layer	1,41-1,54	2,63-2,72	006-0,08	$\frac{1,2}{18-22\%}$	weak and strong	chloride-sulphate	surface	0,3-2,1	0,18	1,1
1.06 (VII)	Kazalinsk massif (VII)	-	loam	1,46	2,72	0,06	-	weak	chloride-sul-	surface	0,4-0,5	-	-

Code of objects	Location	Soils type		Water-physical soil properties				Salinity					
		genesis	mechanical composition	γ t/m ³	η t/m ³	μ	$\frac{\delta}{III B}$	salinity degree	salinity type	salt stock distribution	Σ S, % 0-1 m	Cl, %	SO ₄ , %
									phate				
1.07. (VII)	Tertenozek massif	alluvial-meadow, meadow-swamp	heavy loam	-	-	-	-	from slight to strong	chloride-sulphate	surface	-	-	-
UZBEKISTAN													
1.01.Uz	NISTO, Tashkent province	typical gray soil	medium loam	1,18-1,45	-	0,06	$\frac{-}{20}$	non-saline	-	-	-	-	-
1.02.Uz	collective farm G.Gulyam, Syrdarya province	salt gray soils, meadow-gray soils (VI)	medium loam with gypsum and silt	1,34-1,46	-	0,06-0,08	$\frac{1,2}{2}$	from slight to strong	chloride-sulphate	surface	-	-	-
1.03.Uz	collective farm Oktyabr, Karakalpakstan	meadow-desert	loam (IV)	-	-	-	-	medium	chloride-sulphate	surface	-	-	-
1.04.Uz	collective farm Tinchlik, Yangiyul district, Tashkent province	typical gray soil	medium loam III	1,3-1,35	-	-	-	non-saline	-	-	-	-	-

Code of objects	Location	Soils type		Water-physical soil properties				Salinity					
		genesis	mechanical composition	γ t/m ³	η t/m ³	μ	$\frac{\delta}{III B}$	salinity degree	salinity type	salt stock distribution	Σ S, % 0-1 m	Cl, %	SO ₄ , %
1.05.Uz	Dekhkan farm Yangiabad, Syrdarya province	gray-meadow-marshy	loamy and sandy loam (VIII)	1,36-1,41	2,6-2,7	0,08	$\frac{11}{18-23}$	weak and strong	chloride-sulphate	surface	2-3	01-07	-
1.06.Uz	collective farm Khalkabad, Khorezm province	marshy meadow	heavy loam and clay (IX)	1,41-1,47	2,6-2,65	006	$\frac{1,2}{22-23}$	weak and strong	chloride and sulphate-chloride	surface	2,5-3,0	002-003	-
1.07.Uz	collective farm Niya-zov, Fergana province	gray-meadow	medium loam (IV)	1,37-1,4	2,6	006	-	weak and medium	chloride-sulphate	surface	1,3-1,6	001-002	-
1.08.Uz	collective farm # 24, Karshi steppe	gray soil	loess loam and sandy loam (IV)	1,33-1,4	2,4-2,64	0,06-008	-	salt	chloride-sulphate	deep	-	-	-
TADJIKISTAN													
1.01.Tad.	collective farm Kommunizm, Kumkorg district, Khatlan province	old irrigated light gray meadow soils	loamy (III)	1,24-1,34	1,61-1		$\frac{-}{22}$	non-saline	-	-	-	-	- c

Code of objects	Location	Soils type		Water-physical soil properties				Salinity					
		genesis	mechanical composition	γ t/m ³	η t/m ³	μ	$\frac{\delta}{III B}$	salinity degree	salinity type	salt stock distribution	Σ S, % 0-1 m	Cl, %	SO ₄ , %
1.02.Tad.	collective farm Turkmenistan, Bakhtar district	light gray soils	medium loam (III)	1,3-1,48	2,6-2,65	006	$\frac{-}{22}$	non-saline	-	-	-	-	-
1.03.Tad.	point Zemledelie	light typical gray soils	medium loam (III)	1,34	2,72	006	$\frac{-}{22,9}$	-	-	-	-	-	-
1.04.Tad.	collective farm Lenin, Khodjent province	gray-brown and desert	gray-brown stony (II)	1,6-2,5	-	-	-	-	-	-	-	-	-
1.05.Tad.	collective farm K.Marx, Gissar district	mountainous brown dark gray soils	brown-carbonate loam	1,42	2,64	0,08	$\frac{-}{19,6}$	-	-	-	-	-	-
	2nd test	meadow-gray	loam	1,30	2,11	0,06	$\frac{-}{26}$	-	-	-	-	-	-
1.06.Tad.	Experimental plot of Tad-NIISH	dark gray, meadow, brown-carbonate	dark gray loam (III)	1,37-1,39	-	-	$\frac{-}{23,4}$	-	-	-	-	-	-
	2nd test Gissar valley	meadow-gray	medium loam (IV)				$\frac{-}{23,1-23,4}$						
1.07.Tad	collective farm Khosilot, Lenin district, Gissar	mountainous brown dark gray	medium loam (III)	1,34	2,66	0,08	$\frac{-}{22,2}$						

Code of objects	Location	Soils type		Water-physical soil properties				Salinity					
		genesis	mechanical composition	γ t/m ³	η t/m ³	μ	$\frac{\delta}{\text{ППВ}}$	salinity degree	salinity type	salt stock distribution	Σ S, % 0-1 m	Cl, %	SO ₄ , %
	sar valley	soils											
KYRGYZSTAN													
1.01.Kyr.	collective farm Prig- orodny, Alamedin district	gray meadow	medium loam					mainly non-saline and slightly saline	surface	-	-	-	-
ТУРКМЕНИСТАН													
1.01. Turk	collective farm Vatan Akhal province	light gray	medium and heavy loam (III)	1,45	2,70	0,06	21,8	-	-	-	-	-	

Note: γ - volumetric mass, t/m³; η - specific mass, t/m³; μ - water availability; δ - salt availability; ППВ - limit field water capacity, %