

Supplementary Materials

Table S1. List of studied documents relevant to the benefit sharing in the water and land resources development in the Ferghana Valley.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
1.	Decree on Land adopted by the 2nd All-Russian Congress of the Soviets of Deputies of Workers, Soldiers and Peasants		27 October 1917	Property rights for land, borders	2, 4
2.	Resolution of the Council of People's Commissars of the Union of Soviet Socialist Republics (USSR) on provision of the pastures for the livestock of the Ferghana group of districts of the Uzbek Soviet Socialist Republic (SSR). Osh province Water Management Department (WMD)	1313	27 June 1935	Pasture exchange, borders	2, 4
3.	Resolution of the Council of People's Commissars of the Kyrgyz SSR on provision of kolkhozes of the Uzbek SSR in the Ferghana Valley with pastures in the Kyrgyz SSR	1337	19 September 1939	Pasture exchange, borders	2, 4
4.	Resolution of the Council of Ministers of the USSR on consolidation of the pastures under State Custody for the kolkhozes of the Uzbek, Kazakh, Kyrgyz and Tajik SSRs and their reclamation	1509	09 July 1946	Pasture exchange, borders	2, 4
5.	Order of the Ministry of Land Reclamation of the USSR on consolidation of the pastures under State Custody for the kolkhozes of the Uzbek, Kazakh, Kyrgyz and Tajik SSRs and their reclamation	426	22 July 1946	Pasture exchange, borders	2, 4
6.	Law of the USSR on agricultural tax		08 August 1953	n/a	n/a
7.	Resolution of the Council of Ministers of the USSR on unified state accounting of lands	2529	31 December 1954	n/a	n/a
8.	Order of the Ministry of Agriculture of the USSR on consolidation of pastures under the State Land Fund for the kolkhozes of the Uzbek, Kazakh, Kyrgyz, Tajik and Turkmen SSRs	623	31 December 1955	Pasture exchange, borders	2, 4
9.	Resolution of the Council of Ministers of the USSR on the order of design and construction of reservoirs and hydropower stations	1251	07 September 1956	Increased autonomy in decision making	2, 3
10.	Decree of the Presidium of the Supreme Council of the USSR on liability of non-fulfillment of plans		24 April 1958	n/a	n/a
11.	Resolution of the Council of Ministers of the Kyrgyz SSR on redistribution of the lands of the sovkhos "Chatkal" to kolkhozes and sovkhos of the Uzbek SSR, Kazakh SSR, as well as Lenin and Kirov districts of the Kyrgyz SSR	201	17 April 1959	Land exchange, borders	2, 4
12.	Protocol of the Meeting of the representatives of the Uzbek and Kyrgyz SSRs on water shares on Aravansai and Akburasai systems		25 May 1961	Water sharing	2
13.	Protocol of the Inter-republican and Inter-province Meeting on water allocation issues of the Isfayramsai and Shakhimardansai STTs		21 July 1961	Water sharing	2
14.	Protocol of the Inter-republican Meeting of the representatives of the Kyrgyz and Uzbek SSRs on water allocation issues of the Karadarya river system		18 July 1962	Water sharing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
15.	Internal Note on the issue of the Kampyr-Ravat (Andijan) reservoir for the flow regulation of the Karadarya river		24 July 1962	Water sharing	2
16.	Letter for approval from Uzbek SSR to Kyrgyz SSR for construction of the Kampyr-Ravat (Andijan) reservoir		02 August 1962	Increased water supply, water sharing	2
17.	Resolution on the proposal of the Central Committee of the Communistic Party, Council of Ministers and Supreme Council of the Uzbek SSR on the construction of the Kampyr-Ravat (Andijan) reservoir in Uzgen district of the Kyrgyz SSR	45/8-B	13 September 1962	Increased water supply, water sharing	2
18.	Letter to the Central Committee of the Communistic Party, Council of Ministers of the Uzbek SSR	6/21	26 September 1962	Increased water supply, water sharing	2
19.	Letter to the Central Committee of the Communistic Party, Council of Ministers of the Kyrgyz SSR	252-33	08 January 1963	Increased water supply, water sharing	2
20.	Order of the Council of Ministers of the USSR on the approval of the project document of the construction of the Kampyr-Ravat (Andijan) reservoir	511-P	15 March 1963	Increased water supply, water sharing	2
21.	Protocol of the Inter-republican Meeting on the construction of the second stage of the Kirkidon (Karkidon) reservoir		20 February 1964	Increased water supply, water sharing	2
22.	Conclusion of the Osh province WMD on the scheme of use of the water resources of the Karadarya river basin taking into account the Kampyr-Ravat (Andijan) reservoir		18 August 1964	Increased water supply, water sharing	2
23.	Protocol of the Meeting under the Director of the State Design Institute on Land use “Uzgiprozem”		12 February 1965	Increased water supply, water sharing	2
24.	Decision on the withdrawal of the lands from the land users in the Uzgen and Karasu districts for the construction needs of the Kampyr-Ravat (Andijan) reservoir	285	11 May 1965	Increased water supply, water sharing	2
25.	Internal Note of the Council of Deputies of Osh province of the Kyrgyz SSR on the Decision #285 11 May 1965 on the withdrawal of the lands from the land users in the Uzgen and Karasu districts for the construction needs of the Kampyr-Ravat (Andijan) reservoir		11 May 1965	Increased water supply, water sharing	2
26.	Proposition on additional measures to mitigate low water conditions in the Syr Darya and Karadarya river basins		18 June 1965	Water sharing	2
27.	Protocol of the Meeting of the representatives of the Ministries of water management of the Uzbek and Kyrgyz SSRs, Design institutes “Sredazgiprovodhlopok” and “Kyrgyzgiprovodhoz” on use of water resources of the Kara-Darya river with Andijan/Kampyr-Ravat reservoir		23 September 1965	Increased water supply, water sharing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
28.	Resolution of the Council of Ministers of the Kyrgyz SSR on the allocation of the lands for the construction of Kampyr-Ravat (Andijan) reservoir	475	22 October 1965	Increased water supply, water sharing	2
29.	Protocol of the Meeting of the representatives of the Ministries of Agriculture of the Uzbek and Kyrgyz SSRs, Ministries of Melioration and Water Resources of the Uzbek and Kyrgyz SSRs with participation of representatives of the State Construction department of the Kyrgyz SSR, institutes “Sredazgiprovodhlopok”, Osh Oblvodkhoz on some issues related to the construction of the Andijan/Kampyr-Ravat reservoir		12 November 1965	Increased water supply, water sharing	2
30.	Resolution of the Councils of Ministers of the Kyrgyz and Uzbek SSRs on some issues related to the construction of the Andijan/Kampyr-Ravat reservoir	559/656	11 December 1965	Increased water supply, water sharing	2
31.	Resolution of the Council of Ministers of the Uzbek SSR on the allocation of the lands in connection with the construction of the Andijan/Kampyr-Ravat reservoir	659	15 December 1965	Increased water supply, water sharing	2
32.	Protocol of the Inter-republican Meeting on agreement on the Terms of Reference of the Left-shore canal with water intake from the upstream of the Uch-Kurgan Hydropower Station			Increased water supply, water sharing	2
33.	Protocol of the Meeting of the representatives of the Ministries of Melioration and Water Resources of the Uzbek and Kyrgyz SSRs and the institutes Uzgiprovodkhoz and Kyrgyzgiprovodkhoz		12 July 1968	Increased water supply, water sharing	2
34.	Law of the USSR on the fundamentals of land legislation		13 December 1968	Increased autonomy in dispute resolution	2, 3
35.	Protocol of the Commission on resolving the land-management issues between Osh province of the Kyrgyz SSR and Andijan province of the Uzbek SSR		07 December 1969	Water sharing, land exchange	2
36.	Decision of the Executive Committee of the Council of Deputies of Osh province on construction of the Left-shore Naryn Canal and pump station of the Uzbek SSR on the territory of Lenin district of Osh province (Kyrgyz SSR) and partial implementation of the 1958 decisions of the Parity Inter-republican Commission of the Uzbek and Kyrgyz SSRs		08 December 1969	Increased water supply, water sharing	2
37.	Resolution of the Council of Ministers of the Kyrgyz SSR on the allotment of the lands in connection with resolving land-management issues between Osh province of the Kyrgyz SSR and Andijan province of the Uzbek SSR		08 December 1969	Land exchange, increased water supply, water sharing	2
38.	Letter to the Secretary of the Communist Party of the Uzbek SSR on the compensation for the expenses related to the construction of the Andijan/Kampyr-Ravat reservoir	110/10-c	01 April 1970	Land exchange, increased water supply, water sharing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
39.	Letter to the Secretary of the Communist Party of the Kyrgyz SSR on the compensation for the expenses related to the construction of the Andijan/Kampyr-Ravat reservoir	1-204c	1970	Land exchange, increased water supply, water sharing	2
40.	Order of the Ministry of Agriculture of the USSR and the Ministry of Water resources of the USSR on the land reclamation development perspectives in 1971-1985, regulation and re-allocation of the runoff of rivers. Osh province WMD	229/186	17 August 1970	Water and land resources development across the region, priorities	2, 3, 4
41.	Law of the USSR on the fundamentals of water legislation		10 December 1970	Formalizing Schemes—Basin approach	2, 3, 4
42.	Protocol of the Meeting of the scientific-technical council of the Ministry of Water resources of the USSR held in Moscow		22-23 February 1972	Development of Scheme for the Syr Darya	2, 3, 4
43.	Protocol of the Meeting of the Inter-republican Commission on regulation of the land-water management issues between the Uzbek SSR and the Kyrgyz SSR		08 May 1972	Water sharing, sharing and exchange of responsibilities, property rights of infrastructure	2, 3, 4
44.	Letter from the design institute Sredazgiprovodkhlopok to the Council of Ministers of the Kyrgyz SSR on the Corrective Note to the Scheme of complex use of water resources of the Syr Darya basin. Osh province WMD	52-1691	09 August 1972	Development of Scheme for the Syr Darya	2, 3, 4
45.	Letter from the Council of Ministers of the Kyrgyz SSR to the Gosplan of the USSR, State Experts Commission (SEC) and institute Sredazgiprovokhlopok. Osh province WMD	11-8/58	05 January 1973	Development of Scheme for the Syr Darya	2, 3, 4
46.	Resolution of the SEC of State Planning Committee (Gosplan) USSR on expertise of the Scheme of the complex use of the water resources of the Syr Darya river. Osh province WMD	2	07 February 1973	Development of Scheme for the Syr Darya	2, 3, 4
47.	Letter from the Kyrgyz SSR to the Gosplan of the USSR, SEC and design institute Sredazgiprovodkhlopok	11-8/58	07 May 1973	Development of Scheme for the Syr Darya	2, 3, 4
48.	Report of the Minister of Water resources of the Kyrgyz SSR to the Government of the Kyrgyz SSR on the Resolution #2 (7/02/1973) of the SEC Gosplan USSR. Osh province WMD		1973	Setting national priorities	2
49.	Protocol of the Inter-republican Meeting on regulation of land-water management issues between Uzbek SSR and Kyrgyz SSR	325-p	07 June 1973	Water and pasture sharing, increased water supply, sharing responsibilities	2, 3, 4
50.	Notes of the Ferghana province Executive Committee on the Protocol of the Inter-republican Meeting on regulation land-water management issues between the Uzbek SSR and Kyrgyz SSR		07 June 1973	Pasture sharing, increased autonomy	2, 3

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
51.	Letter of the Council of Ministers of the Uzbek SSR on the draft of the joint Resolution on approval of the Protocol of the inter-republican meeting on regulating the land-water management issues between the Kyrgyz SSR and the Uzbek SSR	10/12-19	14 June 1973	Water sharing, increased water supply, sharing responsibilities, property rights of infrastructure	2, 3
52.	Internal Note on the draft of the joint Resolution of the Council of Ministers of the Uzbek SSR and the Council of Ministers of the Kyrgyz SSR “On the land-water management issues between the Kyrgyz SSR and the Uzbek SSR”	15-1/4	27 June 1973	Water and pasture sharing, increased water supply, sharing responsibilities	2, 3, 4
53.	Questions on land management from the Kyrgyz SSR to the Uzbek SSR		1974	Land exchange, borders	2, 3
54.	Response Letter to the Letter from the Central Committee of the Communist Party of Uzbekistan and Council of Ministers of Uzbek SSR	37/344	1974	Land exchange, borders	2, 3
55.	Reference Certificate of the Osh province WMD on Inter-republican water allocation issues between the Kyrgyz SSR and Uzbek SSR		1974	Water sharing, increased water supply, sharing responsibilities	2
56.	Reference Certificate of the Osh province WMD on provision of land for use by the Uzbek SSR in the territory of the Kyrgyz SSR		1974	Land exchange, issue linkages with other sectors	2
57.	Reference Certificate of the Osh province WMD on the issues of Inter-republican land use between Osh province of the Kyrgyz SSR and provinces of the Uzbek, Tajik and Kazakh SSRs		1974	Pasture exchange, borders, livestock development	2, 3
58.	Reference Certificate on the highest priority objects of water infrastructure in Osh province of the Kyrgyz SSR		1974	Water sharing, increased water supply, sharing responsibilities	2
59.	Letter from the Kyrgyz SSR to the Minister of Agriculture of the USSR on the issues of Inter-republican land use between Osh province of the Kyrgyz SSR and provinces of the Uzbek, Tajik and Kazakh SSRs		1974	Pasture exchange, borders, livestock development	2, 3
60.	Letter from the Kyrgyz SSR to the Secretary of the Communist Party of the Uzbek SSR on the land-water management issues between Osh province of the Kyrgyz SSR and Ferghana, Andijan, Namangan provinces of the Uzbek SSR		1974	Land compensation, reconsidering water allocation	2
61.	Report on the results of the Meeting of the representatives of the Uzbek and Kyrgyz SSRs		06 September 1974	Water sharing, land compensation	2
62.	Protocol of the Meeting on inter-seasonal water allocation of the Isfara river among the Tajik, Uzbek and Kyrgyz SSRs		21 November 1974	Water sharing, increased water supply, sharing responsibilities	2
63.	Resolution of the Council of Ministers of the USSR on the order of implementing activities on preparation of the zones of flooding related to the construction of hydropower stations and reservoirs. Osh province WMD	76	02 February 1976	Compensation for the losses	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
64.	Protocol of the Inter-republican allocation of runoff of the small rivers in the Ferghana Valley		10 April 1980	Water sharing, linking all water resources	2
65.	Notes from the Kyrgyz SSR to the Protocol 10/04/1980 on Inter-republican allocation of the runoff of the small rivers of the Ferghana Valley		1980	Increased autonomy in decision making, water sharing, linking all water resources	2
66.	Response Certificate to the Notes made by the Kyrgyz SSR to the Protocol 10/04/1980 on Inter-republican allocation of the runoff of the small rivers of the Ferghana Valley		1980	Increased autonomy in decision making, water sharing, linking all water resources	2
67.	Letter from the Central Committee of the Communistic Party and the Council of Ministers of the Kyrgyz SSR on the unresolved land-water management issues between the Kyrgyz SSR and the Uzbek SSR	133/10-c	16 April 1980	Water sharing, linking water resources	2
68.	Letter from the Central Committee of the Communistic Party and the Council of Ministers of the Uzbek SSR in response to the Letter #133/10-c dd. 16/04/1980 on the land-water issues between the Kyrgyz SSR and the Uzbek SSR	BX-1-454	07 May 1980	Water sharing, linking all water resources	2
69.	Information on allocation of water resources of the small rivers of the Ferghana Valley between the Uzbek SSR and Kyrgyz SSR on irrigation		1980	Water sharing, linking all water resources	2
70.	Theses to the Meeting on inter-republican water allocation between the Kyrgyz SSR and the Uzbek SSR		1980	Water sharing, linking all water resources	2
71.	Agreement on regulation of the issues of water allocation from the small rivers between Uzbek and Kyrgyz Republics through joint consideration of the water management departments of Ferghana and Osh provinces		28 August 1980	Water sharing, linking water resources, sharing responsibilities	2
72.	Decision of the Executive Committee of the Council of Deputies of Osh province on the allocation of the lands for the construction of the Sokh reservoir, complex of industrial and civil buildings for it as well as for the objects being relocated from the flooding zone belonging to the land users of Batken and Frunze districts of Osh province	440	28 August 1980	Water sharing, linking water resources, sharing responsibilities	
73.	Agreement on regulation of the issues of water allocation from the small rivers between Uzbek and Kyrgyz Republics through joint consideration of the water management departments of Andijan and Osh provinces		29 August 1980	Water sharing, linking water resources, sharing responsibilities	
74.	Notes of the Osh province Council to the refined scheme of complex use and protection of water resources in the Syr Darya basin		no date assumed 1980	Further development of Scheme	

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
75.	Information on the farmlands in the Toktogul district, flooded by the Toktogul reservoir due to the construction of the hydropower station		no date assumed 1980	Water sharing, increased water supply, land compensation	2
76.	Information on the lands of the Kyrgyz SSR given for construction of reservoirs, canals and hydropower stations to other republics		no date assumed 1980	Water sharing, increased water supply, land compensation	2
77.	Information on the lands of Osh province of the Kyrgyz SSR given to the Uzbek, Tajik and Kazakh SSRs for long-term use as pastures		no date assumed 1980	Pasture exchange, land compensation	2
78.	Letter from the Osh province Executive Committee of the Council of Peoples' Deputies to the Ministry of Water resources of the Uzbek SSR and the Ministry of Water resources of the Kyrgyz SSR on water compensation for the non-used share of the Kyrgyz SSR from the Andijan reservoir		no date assumed 1980	Water sharing, increased water supply, water compensation	2
79.	Annotation on allocation of water resources of the rivers of the Ferghana Valley between the Uzbek SSR and Kyrgyz SSR during the vegetation period of 1981 and other unresolved issues		1981	Water sharing, reconsidering shares	2
80.	Reference Certificate on the implementation of the Protocol dd. 10/04/1980 on inter-republican allocation of the runoff of the small rivers of the Ferghana Valley approved by the Deputy Minister of Water resources of the USSR and other inter-republican questions		01 June 1981	Water sharing, linking water resources, sharing responsibilities, reconsidering shares	2
81.	Stage Questions on Water related construction to the Uzbek SSR		01 June 1981	Water sharing, linking water resources, sharing responsibilities, reconsidering shares	2
82.	Protocol of the Meeting on the decadal allocation of the runoff of the Sokh STT, Shakhimardansai STT and Isfayramsai STT between the Uzbek and Kyrgyz SSRs		14 June 1981	Water sharing	2
83.	Corrective Note to the Refined Scheme of the Complex Use and Protection of Syr Darya River Basin 1983. Ministry of Melioration and Water Resources of USSR, detailed in Protocol #413 dd. 29 February 1984, Sredazgiprovodkhlopok (in Russian).		1983	Further development of Scheme	2
84.	Scheduled water intake on filling and releasing the Papan reservoir on the Akburasai STT under 75% water supply		no date	Water sharing	2
85.	Letter from Osh province WMD to Andijan province WMD on the clarification of the lands and water allocation from the Maylisaï STT		27 February 1985	Water sharing, reconsidering shares	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
86.	Letter from Andijan province WMD to Osh province WMD on the clarification of the lands and water allocation from the Maylisai STT		15 March 1985	Water sharing, reconsidering shares	2
87.	Report on the design and construction of the Sokh reservoir, Ferghana province WMD		1986	Water sharing, increased water supply	2
88.	Protocol of the Meeting on agreement on the volumes and deadlines for preparation of the documentation on design specification and estimates as well as for construction of the objects by the Ferghanavodstroy of the Uzbek SSR in compensation of the objects in the zone flooding by the Sokh reservoir in the territory of the Kyrgyz SSR		9-12 February 1988	Water sharing, increased water supply, compensation for resettlement	2
89.	Protocol of the Meeting on the process of designing and construction of the objects in the Aygultash settlement (Sokh reservoir) of Batken district of Osh province		1-2 March 1988	Water sharing, increased water supply, compensation for resettlement	2
90.	Protocol of the Meeting of the Technical Council of the Ministry of water resources of the Kyrgyz SSR	1634	30 March 1989	Water sharing, sharing responsibilities	2
91.	Protocol of the Meeting of the Parity Commission of the Uzbek SSR and the Kyrgyz SSR on regulation of the issues between sovkhoses Khushyor of Rishtan district of Ferghana province and Pervomayskiy of Batken district of Osh province		17 June 1989	Water sharing, reconsidering shares	2
92.	Protocol of the Technical Meeting on regulation of the water management issues between the State Committee for water resources of the Uzbek SSR and the Ministry of water resources of the Kyrgyz SSR	3	22 August 1989	Water sharing, reconsidering shares	2
93.	Protocol of the Meeting on the issues related to operations of the Tortgul reservoir on the Isfara STT and water sharing between Kyrgyzstan and Tajikistan. Osh province WMD		16 May 1991	Water sharing, increased water supply reconsidering shares	2
94.	Letter from the Government of Uzbekistan to the Government of Kyrgyzstan on resuming the construction works of the Sokh reservoir	30-5610	08 July 1993	Water sharing, increased water supply, compensation for resettlement	2
95.	Letter from the Kadamjai district Water Management Department (WMD), Kyrgyzstan to the Osh province WMD, Ferghana province WMD, Ministry of Agriculture and Water Resources (MAWR) Kyrgyzstan on increasing water supply from the Isfayramsai, Shakhimardansai Small Transboundary Tributaries (STTs), Andijan reservoir, Left-shore Kampyr-Ravat canal (LSKR)	87	08 June 1995	Water sharing, reconsidering shares	2
96.	Request from the Osh province Governor to the Osh province WMD to draft a letter to the Uzbek side with request to increase the share of Kyrgyzstan on STTs		22 January 1997	Water sharing, reconsidering shares	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
97.	Schedule from the MAWR Kyrgyzstan to the MAWR Uzbekistan, Big Ferghana Canal (BFC) authority on the decadal water allocation of the Karkidon feeder canal	06-166	04 April 1997	Water sharing	2
98.	Letter from the Osh province Basin WMD (BWMD) to the Andijan province WMD, BFC authority on increasing water supply from the Karkidon feeder canal		28 July 1997	Water sharing, reconsidering shares	2
99.	Letter (message) from Aravan district WMD to the Osh province BWMD	26	27 August 1997	Water sharing	2
100.	Letter (message) from the BFC authority to the Osh province BWMD on water shortage and compensation of the BFC, South Ferghana Canal (SFC), Andijan reservoir, Karkidon feeder canal	442	29 August 1997	Water sharing	2
101.	Letter from the Ferghana province WMD to the Osh province BWMD on increasing water supply of the Karkidon feeder canal, Isfayramsai, Shakhimardansai STTs		9 September 1997	Water sharing, issue linkages	2
102.	Report to the head of the Osh province WMD from the field monitor		10 September 1997	Water sharing	2
103.	Letter from the Osh province WMD to the Ferghana province BWMD on increasing water supply of the Karkidon feeder canal		10 September 1997	Water sharing, issue linkages	2
104.	Proposition of the Osh province WMD on reclamation of lands near the border with Tajikistan		1997	Irrigation expansion, borders	2
105.	Letter from the Andijan province WMD to the Osh province administration on crossing the border for Operations and Management (O&M), bridge construction of the Savai canal		1998	O&M, border crossing	2
106.	Letter from the Jalalabad province administration to the Andijan province administration on crossing the border for transportation for flood control dam on the Karadarya		21 September 1999	O&M, border crossing	2
107.	Protocol of the work of the Inter-agency water management commission of Uzbekistan and Kyrgyzstan. Andijan province WMD		19 March 2002	O&M	2
108.	Letter from the Andijan province WMD to the Osh province WMD on the O&M of the Andijan and Papan reservoirs		17 April 2002	O&M	2
109.	Protocol of the work of the Inter-agency water management commission on examining the dam of the Papan reservoir and estimation of the operational costs. Andijan province WMD		19 April 2002	O&M	2
110.	Protocol of the work of the Inter-agency water management commission on examining the impact of the Andijan reservoir on the surrounding lands and the condition of the runoff of the Karadarya and Yassi rivers of Uzgen district upstream the reservoir. Andijan province WMD		03 June 2002	O&M	2
111.	Letter from the Osh province BWMD to the Andijan province WMD on the O&M of the Andijan reservoir		14 July 2002	O&M	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
112.	Letter from the Osh province BWMD to the MAWR Uzbekistan on the O&M of the Papan reservoir		04 September 2002	O&M	2
113.	Letter from the Osh province BWMD to the Kyrgyzstan WMD on flood recovery of the Aravansai STT	01-240	05 September 2002	O&M	2
114.	Letter from the Osh province BWMD to the Andijan province WMD on the O&M of the Andijan and Papan reservoirs		17 March 2003	O&M	2
115.	Letter from the Osh province BWMD to the Andijan province WMD on flood recovery of the RSKR canal	01-161	28 May 2003	O&M	2
116.	Letter from the Osh province BWMD to the Andijan province WMD on the O&M of the Andijan reservoir		11 June 2003	O&M	2
117.	Letter from the Naryn-Karadarya (NK) Basin Irrigation Systems Authority (BISA) to the Jalalabad BWMD on crossing the border for O&M of the Pump-stations		24 February 2004	O&M, border crossing	2
118.	Letter from the NK BISA to the Jalalabad province, Nookent district Burgandy village administration on the O&M of the Nushkan canal, M 1-2 canal		25 February 2004	O&M	2
119.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the decadal water allocation of the Suzak canal		16 April 2004	Water sharing	2
120.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the decadal water allocation of the Maylisai STT		16 April 2004	Water sharing	2
121.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the decadal water allocation of the RSKR canal		16 April 2004	Water sharing	2
122.	Protocol on joint examination of operations and maintenance works of the Savai canal		25 June 2004	O&M	2
123.	Letter from the NK BISA to the Jalalabad province, Nookent district administration, Jalalabad BWMD on the long-term use of lands by Uzbekistan and distribution by Kyrgyzstan of the lands in Jalalabad province		13 August 2004	Land use clarification	2
124.	Letter from the Karadarya-Maylisai (KM) Irrigation Systems Authority (ISA) to the Regional Prosecutor of Osh, Jalalabad, Batken on the O&M of the Left-shore Naryn canal	104	24 November 2004	O&M	2
125.	Letter from the KM ISA to the Jalalabad province Interior affairs department on the O&M of the Left-shore Naryn canal		24 November 2004	O&M	2
126.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the decadal water allocation of the Akburasai STT		2004	Water sharing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
127.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the decadal water allocation of the Savai canal		2004	Water sharing	2
128.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the decadal water allocation of the Aravansai STT		2004	Water sharing	2
129.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the decadal water allocation of the Savai canal		2004	Water sharing	2
130.	Letter from the Osh province BWMD to the NK BISA on the O&M of the Savai canal		March 2005	O&M	2
131.	Letter from the Osh province BWMD to the Syrdarya-Sokh (SS) BISA on increasing water supply of the Isfayramsai STT		07 April 2005	Water sharing	2
132.	Letter from the Osh province BWMD to the NK BISA on the O&M of the Savai canal		13 May 2005	O&M	2
133.	Letter from the Osh province BWMD to the Kyrgyzstan WMD on flood recovery of the Aravan district	01-132	17 June 2005	O&M	2
134.	Letter from the Osh province BWMD to the NK BISA on the O&M of the Savai canal		25 June 2005	O&M	2
135.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the Decadal water allocation of the Maylisai STT		2005	Water sharing	2
136.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the Decadal water allocation of the Suzak canal		2005	Water sharing	2
137.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the Decadal water allocation of the Right-shore Kampyr-Ravat (RSKR) canal		2005	Water sharing	2
138.	Letter from the KM ISA to the Jalalabad province, Nookent district administration on crossing the border for O&M of the Dustlik and Mustakillik 8 yilligi canals		15 July 2006	O&M, border crossing	2
139.	Letter from the NK BISA to the Jalalabad BWMD on crossing the border for O&M of the Pump-stations		17 July 2006	O&M, border crossing	2
140.	Letter from the NK BISA to the Jalalabad BWMD on the Accident, O&M of the M 1-2 canal		11 October 2006	O&M	2
141.	Letter from the NK BISA to the Jalalabad BWMD on the O&M of the M 1-1 and M 1-2 canals of Dustlik pump-station		25 October 2006	O&M	2
142.	Protocol of the negotiations of the government delegations of Uzbekistan and Tajikistan (on Kayrakkum)		26 December 2006	Water sharing, issue linkages	2
143.	Letter from the NK BISA to the Osh BWMD on increasing water supply of the Akburasai and Aravansai STTs		02 May 2008	Water sharing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
144.	Schedule from the NK BISA to the Jalalabad BWMD on the Decadal water allocation of the Maylisai STT		2008	Water sharing	2
145.	Schedule from the NK BISA to the Jalalabad BWMD on the Decadal water allocation of the Druzhba pump-station		2008	Water sharing	2
146.	Letter from the Savai-Akbura (SA) ISA to the Aravan district Interior affairs department on crossing the border for O&M of the Aravansai STT		30 January 2009	O&M, border crossing	2
147.	Schedule from the KM ISA, NK BISA to the Jalalabad BWMD on the Decadal water allocation of the Druzhba pump-station		05 February 2009	Water sharing	2
148.	Letter from the SA ISA to the Aravan district Interior affairs department on crossing the border for O&M of the Aravansai STT		16 March 2009	O&M, border crossing	2
149.	Letter from the SA ISA to the Aravan district Interior affairs department on crossing the border for O&M of the Aravansai STT		30 September 2009	O&M, border crossing	2
150.	Schedule from the NK BISA to the Jalalabad BWMD on the Decadal water allocation of the Pakhta-Abad canal from Karadarya river		2009	Water sharing	2
151.	Report from the Jalalabad province WMD on the STTs. Jalalabad province WMD		2009	Water sharing, linked issues	2
152.	Letter from the SA ISA to the Aravan district Interior affairs department on crossing the border for O&M of the Aravansai STT		30 January 2010	O&M, border crossing	2
153.	Letter from the SA ISA to the Osh province administration on flood, crossing the border of the Azimboy canal		May 2010	O&M, border crossing	2
154.	Letter from the SA ISA to the Aravan district WMD on flood, crossing the border of the Azimboy canal		May 2010	O&M, border crossing	2
155.	Letter from the SA ISA to the Aravan district interior affairs department on flood, crossing the border of the Azimboy canal		May 2010	O&M, border crossing	2
156.	Letter from the Jalalabad province, Nookent district administration to the Andijan province WMD (NK BISA) on crossing the border for O&M of the Pump-stations Druzhba, Mustakillik 8-yilligi, Madaniyat		16 June 2010	O&M, border crossing	2
157.	Report from the Jalalabad province WMD on the STTs. Jalalabad province WMD		2010	Water sharing, linked issues	2
158.	Letter from the KM ISA to the Shamaldisai Unit of the border authority of Kyrgyzstan on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		14 February 2011	O&M, border crossing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
159.	Letter from the KM ISA to the Jalalabad province, Nookent district Burgandy village administration on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		14 February 2011	O&M, border crossing	2
160.	Letter from the KM ISA to the Jalalabad province, Customs authority on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		14 February 2011	O&M, border crossing	2
161.	Letter from the KM ISA to the Jalalabad province, Nookent district administration on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		14 February 2011	O&M, border crossing	2
162.	Letter from the SA ISA to the Aravan district Interior affairs department on crossing the border for O&M of the Aravansai STT		21 February 2011	O&M, border crossing	2
163.	Letter from the SA ISA to the Aravan district Interior affairs department on crossing the border for O&M of the Aravansai STT		08 April 2011	O&M, border crossing	2
164.	Letter from the SA ISA to the Aravan district administration on crossing the border for O&M of the Aravansai STT		20 April 2011	O&M, border crossing	2
165.	Letter from the NK BISA to the Jalalabad BWMD on increasing water supply of the Maylissai STT		10 July 2011	Water sharing	2
166.	Letter from the NK BISA to the Nookent district administration on increasing water supply of the Maylissai STT		11 July 2011	Water sharing	2
167.	Letter from the NK BISA to the Nookent district administration on increasing water supply of the Maylissai STT		04 August 2011	Water sharing	2
168.	Letter from the NK BISA to the Jalalabad BWMD on increasing water supply of the Maylissai STT		04 August 2011	Water sharing	2
169.	Letter from the Jalalabad BWMD to the NK BISA on crossing the border for O&M of the RSKR canal		12 September 2011	O&M, border crossing	2
170.	Letter from the Pump stations, energy and comm. dept. of NK BISA to the Jalalabad province, Nookent district administration on crossing the border for O&M of the Pump-stations Druzhba, Mustakillik 8-yilligi		10 January 2012	O&M, border crossing	2
171.	Letter from the KM ISA to the Shamaldisai Unit of the border authority of Kyrgyzstan on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		17 January 2012	O&M, border crossing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
172.	Letter from the KM ISA to the Jalalabad province, Customs authority on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		17 January 2012	O&M, border crossing	2
173.	Letter from the KM ISA to the Jalalabad province, Nookent district Burgandy village administration on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		17 January 2012	O&M, border crossing	2
174.	Letter from the Savai-Akbura (SA) ISA to the Osh province BWMD on the O&M of the Savai canal	01-09-18	27 February 2012	O&M	2
175.	Letter from the Andijan province administration to the Border Authority Sharq on crossing the border for O&M of the Pump-stations Druzhba, Mustakillik 8-yilligi		31 March 2012	O&M, border crossing	2
176.	Letter from the Osh BWMD to the NK BISA on increasing water supply of the Kyzyl Bayraq canal		17 July 2012	Water sharing	2
177.	Letter from the Osh BWMD to the NK BISA on increasing water supply of the Kyzyl Bayraq canal		08 August 2012	Water sharing	2
178.	Schedule from the Unified authority of main canals, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the Decadal water allocation of the RSKR canal		2012	Water sharing	2
179.	Schedule from the NK BISA, MAWR Uzbekistan to the Jalalabad BWMD, Kyrgyzstan WMD on the Decadal water allocation of the Pakhta-Abad canal from Karadarya river		2012	Water sharing	2
180.	Schedule from the NK BISA, MAWR Uzbekistan to the Osh BWMD, Kyrgyzstan WMD on the Decadal water allocation of the Aravansai STT		2012	Water sharing	2
181.	Schedule from the NK BISA, MAWR Uzbekistan to the Osh BWMD, Kyrgyzstan WMD on the Decadal water allocation of the Akburasai STT		2012	Water sharing	2
182.	Schedule from the NK BISA, MAWR Uzbekistan to the Osh BWMD, Kyrgyzstan WMD on the Decadal water allocation of the Savai canal		2012	Water sharing	2
183.	Report from the Osh province WMD on the shared water resources. Osh province WMD		2012	Water sharing, linked issues	2
184.	Report from the Ferghana province WMD on the STTs. Ferghana province WMD—Sirdarya-Sokh BISA (in Uzbek).		2012	Water sharing, linked issues	2
185.	Report from the Jalalabad province WMD on the STTs. Jalalabad province WMD		2012	Water sharing, linked issues	2
186.	Letter from the KM ISA to the Jalalabad province, Nookent district Burgandy village administration on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		01 February 2013	O&M, border crossing	2

Table S1. Cont.

Chronological order of the document	Document ¹	NO.	Date	Relevance to (Present) Benefit Sharing ²	Type [4] of Benefits ³
187.	Letter from the KM ISA to the Jalalabad province, Customs authority on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		01 February 2013	O&M, border crossing	2
188.	Letter from the KM ISA to the Jalalabad province, Nookent district administration on crossing the border for O&M of the M-1, M-1-1, M-1-2, Druzhba approach and pumping canals		01 February 2013	O&M, border crossing	2
189.	Letter from the Jalalabad province, Nookent district administration to the Andijan province WMD (NK BISA) on crossing the border for O&M of the Pump-stations Druzhba, Mustakillik 8-yilligi, Madaniyat		2013	O&M, border crossing	2
190.	Report from the Jalalabad province WMD on the STTs. Jalalabad province WMD		2013	Water sharing, linked issues	2

Notes: ¹ The originals of documents are in Russian language unless otherwise stated; ² Some pivotal, in the authors' opinion, documents which may have likely influenced the level of autonomy in decision making and strategic priorities are highlighted in grey; ³ Due to the great heterogeneity of the levels, actors, objects and other details involved, the results are descriptive and do not imply a numeric accuracy, on the same grounds the results are not aggregated.

Table S2. Agreements of the Central Asian states related to management of shared water resources after 1991.

Chronological order of the document	Date	Agreement/Institutional Arrangements	Purpose and Brief Content/Accomplishments	Basin and Governance Level	Validity at Present
1.	18 February 1992	Almaty Agreement on cooperation in the field of joint water resources management and conservation of interstate sources	To establish the ICWC, the two BWOs—Amu Darya and Syr Darya—property rights for the structures operated by these organizations. It was agreed to respect the existing pattern and principles of water allocation as well as acting regulations on water allocation from interstate sources	The entire Aral Sea basin, regional level	Yes
2.	04 January 1993	Decision of heads of the Central Asian states on creation of the International Fund for Saving the Aral Sea (IFAS)	To establish an organization which would manage the funds of the member states and international donors	The entire Aral Sea basin, regional level	Updated by the Ashgabat Agreement

Table S2. Cont.

Chronological order of the document	Date	Agreement/Institutional Arrangements	Purpose and Brief Content/Accomplishments	Basin and Governance Level	Validity at Present
3.	26 March 1993	Kzyl-Orda Agreement on Joint Activities in the Aral Sea Basin	To address environmental, social and economic issues in the basin. The Agreement established the Interstate Council on the problems of the Aral Sea basin (ICAS) which included: its Executive Committee located in Tashkent, Commission for Socio-Economic Development and Scientific, Technical and Environmental Cooperation (CSEDSTEC) and ICWC founded under the 1992 Agreement	The entire Aral Sea basin, regional level: signed between heads of the five states, Russia is included as an observer with technical and financial assistance and cooperation	Updated by the Ashgabat Agreement
4.	20 September 1995	Nukus Declaration	To confirm intentions and financial obligations towards the established interstate organizations	The entire Aral Sea basin, regional level	Yes
5.	28 February 1997	Almaty Declaration	To declare 1998 as the Year of protection of the environment in the region. The Declaration recognizes the need for ecosystem approach in managing the shared water resources	The entire Aral Sea basin, regional level	Yes
6.	17 March 1998	Bishkek Agreement on cooperation in the area of environment and rational nature use	To cooperate in the field of environmental protection, harmonize environmental laws, improve economic mechanisms and other measures	Three countries: Kazakhstan, Kyrgyzstan and Uzbekistan, regional level	Yes
7.	17 March 1998	Syr Darya Framework Agreement	To create a framework where energy resources could be exchanged among the states. Summer hydropower from Kyrgyzstan (later from Tajikistan as well) to Uzbekistan and Kazakhstan, winter fossil fuels from Uzbekistan and Kazakhstan to Kyrgyzstan (and Tajikistan)	Kazakhstan, Kyrgyzstan and Uzbekistan signed the Agreement in 1998 and Tajikistan joined in 1999, regional level	No
8.	09 April 1999	Ashgabat Agreement on the status of the IFAS	To define the new structure and status of the IFAS and its organizations, which included (1) Board of IFAS; (2) A revision Committee; (3) Executive Committee (EC); (4) Branches of EC of the IFAS in the states; (5) ICWC, with its Secretary, Scientific Information Center (SIC ICWC), Basin Water Management Organizations (BWO) Amu Darya and Syr Darya; (6) The Commission on the Sustainable Development (CSD) with its Secretary, Scientific Information Center at Institute of Deserts of Turkmenistan (SIC CSD)	The entire Aral Sea basin, regional level	Yes
9.	09 April 1999	Ashgabat Declaration	To re-affirm the continuation of joint actions to address environmental problems and issues related to use of natural resources. In particular, the Declaration commits more consideration to the problems of mountain territories zones of the rivers flow formation	The entire Aral Sea basin, regional level	Yes

Table S2. Cont.

Chronological order of the document	Date	Agreement/Institutional Arrangements	Purpose and Brief Content/Accomplishments	Basin and Governance Level	Validity at Present
10.	17 June 1999	Bishkek Agreement on hydro-meteorology	To harmonize the activities in the field of hydro-meteorology	Four countries: Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, regional level	Yes
11.	17 June 1999	Bishkek Agreement on parallel operation of the national energy systems	To set up a common coordinated energy platform, which in parallel with the existing agreements on water and energy (Syr Darya Framework Agreement), was supposed to synchronize joint activities in the field	Four countries: Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, regional level	No
12.	21 January 2000	Astana Agreement—Chu Talas	To establish a framework to jointly manage the rivers Chu and Talas shared by the Kyrgyzstan and Kazakhstan	Two countries: Kazakhstan and Kyrgyzstan, regional level	Yes
13.	06 October 2002	Dushanbe Declaration	To define the main directions in addressing problems related to the Aral Sea basin, improve monitoring and information sharing systems among the countries	The entire Aral Sea basin, regional level	Yes

Table S3. Main characteristics of the transboundary infrastructure constructed in the period from 1924 to 2013 in Andijan and Ferghana provinces of Uzbekistan shared with Batken, Jalalabad, Osh provinces of Kyrgyzstan and Sogd province of Tajikistan, adapted from [27].

Name of the Infrastructure	Infra-structure Type	Water Flow Capacity, m ³ /s	Date of Construc-tion	Budget of Which Country	Total Length (canals), km	Length Located in Other Country, km	Total Command Area, ha	Area in Other Country, ha	District Served Own Country	District Served Other Country	Who Operated during Soviet Union	Who Owns Today or Operates	How Many Times Crosses the Border	Location of Headwork/ Infra-Structure
Period from 1920S to 1953														
Chimgansay	S	20	1924	UZ	13.2	10.89	285	0	Ferghana (UZ)	Kadamjay (KG)	F-R (UZ)	F-B of I-Sh ISA (UZ)	1	KG
Arabtepasay	S	6	1924	UZ	26.4	12.58	1,944	300	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	3	KG
Altariksay	S	40	1924	UZ	13.3	12.12	4,520	0	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	1	UZ
Eski Fayziabadsai	S	10	1924	UZ	29.3	6.6	6,375	0	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	4	UZ
Hilla Canal	IC	13	1934	UZ	11.2	7.2	5,980	2,500	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ))	1	KG
Kuykulak Canal	IC	6	1934	UZ	4	1.2	3,556	0	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Savai Canal	IC	30	1936	UZ	55.9	28.5	17,000	3500	Kurgantepa (UZ)	Karasuy (KG)	P-R (UZ)	K-M ISA (UZ)	1	UZ

Table S3. Cont.

Name of the Infrastructure	Infra-structure Type	Water Flow Capacity, m ³ /s	Date of Construc-tion	Budget of Which Country	Total Length (canals), km	Length Located in Other Country, km	Total Command Area, ha	Area in Other Country, ha	District Served Own Country	District Served Other Country	Who Operated during Soviet Union	Who Owns Today or Operates	How Many Times Crosses the Border	Location of Headwork/ Infra-Structure
Rovot water distribution facility	WO	60	1936	UZ	n/a	n/a	n/a	n/a	Besharyk (UZ)	Konibodom (TJ)	B-R (UZ)	Isfara-Syr ISA (UZ)	0	TJ
Rapkon Main Canal	IC	4	1936	UZ	2	1	682	0	Besharyk (UZ)	Isfara (TJ)	B-R (UZ)	Isfara-Syr ISA (UZ)	1	TJ
Logon Canal	IC	16	1937	UZ	29.5	15.9	16,000	4,000	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	2	KG-UZ
Ferghana Canal	IC	1.5	1946	UZ	4.8	3	1,200	0	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	1	KG
SUB-TOTAL: 1920s-1953		206.5			189.6	98.99	57,542	10,300						6 in KG, 4 in UZ, 2 in TJ
Period from 1953 to 1970														
Madaniyat Pumping Canal	IC	3	1958	UZ	11.9	2.4	1600	500	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Madaniyat-1	PS	0.72	1958	UZ	n/a	n/a	see Madaniyat Pumping Canal	see Madaniyat Pumping Canal	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	0	UZ
Sokh-Shakhimardan	IC	30	1959	UZ	30.5	18.2	16,000	3,000	Rishtan (UZ), Oltiariq (UZ)	Kadamjay (KG)	S-O DICFC (UZ)	S-O ISA (UZ)	1	UZ
Mustakillik 8 Yilligi Approach Canal	WO	11	1960	UZ	8.8	2.3	420	n/a	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Uz. Mustakillik 8 Yilligi, 1-elevation	PS	8.4	1960	UZ	n/a	n/a	see M-1-1 and M-1-2 Pumping Canals	see M-1-1 and M-1-2 Pumping Canals	Pakhtaabad and Izbaskan (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	0	KG

Table S3. Cont.

Name of the Infrastructure	Infrastructure Type	Water Flow Capacity, m ³ /s	Date of Construction	Budget of Which Country	Total Length (canals), km	Length Located in Other Country, km	Total Command Area, ha	Area in Other Country, ha	District Served Own Country	District Served Other Country	Who Operated during Soviet Union	Who Owns Today or Operates	How Many Times Crosses the Border	Location of Headwork/ Infrastructure
Uz. Mustakillik 8 Yilligi, 2-elevation	PS	0.8	1960	UZ	n/a	n/a	see M-1-1 and M-1-2 Pumping Canals	see M-1-1 and M-1-2 Pumping Canals	Izbaskan (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	0	KG
Khurromobod Canal	IC	1.5	1960	UZ	2.39	2.4	1,135	0	Rishtan (UZ)	Kadamjay (KG)	S-O DICFC (UZ)	S-O ISA (UZ)	1	KG
Kishtut Canal	WF	0.6	1961	UZ	1.2	1.2	520	0	Sokh (UZ)	Kadamjay (KG)	S-R (UZ)	S-B of S-O ISA (UZ)	1	KG
Tayon Canal	IC	0.3	1962	UZ	0.2	0.2	120	0	Sokh (UZ)	Kadamjay (KG)	S-R (UZ)	S-B of S-O ISA (UZ)	1	KG
M-1 Pumping Canal	WO	9	1962	UZ	1.8	1.8	0	0	Izbaskan (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
M-1-1 Pumping Canal	IC	3.8	1962	UZ	7.6	7.6	3,100	300	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
M-1-2 Pumping Canal	IC	6	1962	UZ	8.6	8.6	3,759	200	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Navruz Canal	IC	3.5	1964	UZ	10	7	752	0	Rishtan (UZ)	Kadamjay (KG)	S-O DICFC (UZ)	S-O ISA (UZ)	1	KG
Tashlak Canal	IC	3	1966	UZ	8.1	0.8	650	50	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Dustlik	PS	8.4	1969	UZ	n/a	n/a	see Dustlik Pumping Canal	see Dustlik Pumping Canal	Pakhtaabad and Izbaskan(UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	0	KG
SUB-TOTAL: 1953-1969		90.02			91.09	52.5	28,056	4,050						13 in KG, 3 in UZ
Period in 1970s														
Dustlik Approach Canal	WO	18.0	1970	UZ	13.5	13.5	5,978	1,895	Pakhtaabad and Izbaskan(UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Dustlik Pumping Canal	IC	9.5	1970	UZ	19	10.9	7,769	2,700	Pakhtaabad and Izbaskan(UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Dustlik Emergency Spillway	FC	11.5	1970	UZ	7.4	7.4	0	0	Pakhtaabad and Izbaskan(UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Koshkaryon Flood controlling dam	FC	15.0	1970	UZ	2.7	2.7	n/a	n/a	Rishtan (UZ)	Kadamjay (KG)	R-R (UZ)	R-B of S-O ISA (UZ)	1	KG
Jyda Canal PPO+00-38-00	IC	2.0	1974	UZ	3.81	3.81	905	0	Ferghana (UZ)	Kadamjay (KG)	F-R (UZ)	F-B of I-Sh ISA (UZ)	0	KG

Table S3. Cont.

Name of the Infrastructure	Infrastructure Type	Water Flow Capacity, m ³ /s	Date of Construction	Budget of Which Country	Total Length (canals), km	Length Located in Other Country, km	Total Command Area, ha	Area in Other Country, ha	District Served Own Country	District Served Other Country	Who Operated during Soviet Union	Who Owns Today or Operates	How Many Times Crosses the Border	Location of Headwork/ Infrastructure
Mindon 1 flood controlling dam	FC	1.5	1978	UZ	2.5	1.3	n/a	n/a	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	0	KG
Mindon 2 flood controlling dam	FC	1.5	1978	UZ	2	1.2	n/a	n/a	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	0	KG
Sub-total: 1970s		59			50.91	40.81	14,652	4,595						7 in KG
Period from 1980 to 1991														
Suzok-5	IC	0.5	1987	UZ	0.95	0.95	362	0	Pakhtaabad (UZ)	Bazarkurgan (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	1	KG
Kurgantepa Canal	IC	2.0	1988	UZ	5.17	1.3	528	0	Ferghana (UZ)	Kadamjay (KG)	F-R (UZ)	F-B of I-Sh ISA (UZ)	2	UZ
Khalmiyon flood controlling dam	FC	7.5	1988	UZ	3.2	3.2	n/a	n/a	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	0	KG
Kurgantepa flood controlling dam	FC	2.0	1988	UZ	15.7	1.3	n/a	n/a	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	0	KG
Mindon flood controlling dam	FC	14.0	1990	UZ	3.3	3.3	n/a	n/a	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	0	KG
Sub-total: 1980-1990		26			28.32	10.05	890	0						4 in KG, 1 in UZ
Period from 1991 to Present														
Yarkuton flood controlling dam	FC	20.0	1992	UZ	8.1	8	n/a	n/a	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	0	KG
Kanda flood water dumping	FC	25.0	1999	UZ	1	1	n/a	n/a	Ferghana (UZ)	Kadamjay (KG)	I-Sh DICFC (UZ)	I-Sh ISA (UZ)	0	KG
Madaniyat-2	PS	0.72	2006	UZ	n/a	n/a	see Madaniyat Pumping Canal	see Madaniyat Pumping Canal	Pakhtaabad (UZ)	Nookent (KG)	M-S MIDC (UZ)	K-M ISA (UZ)	0	KG
Sub-total:]1991-present		45.72			9.1	9	0	0						3 in KG
Total		427.24			369.02	211.35	101,140	18,945						37 in KG, 8 in UZ, 2 in TJ

Abbreviations

B-R: Besharyk Rayvodkhoz; DICFC: Department of Inter-Collective Farm canals; F-B: Ferghana Branch; FC: Flood control and dam; F-R: Ferghana Rayvodkhoz; IC: Irrigation Canal; ISA: Irrigation System Authority; Isfara-Syr: Isfara-Syr Darya; I-Sh: Isfayram-Shahimardan; KG: Kyrgyz Republic; K-M: Karadarya–Maylisai; Mid Srh: Mid-Sharikhan; MIDC: Management of Inter-District Canals; M-S: Maylisai; PC: Pump Canal; P-R: Pakhtaabad Rayvodkhoz; PS: Pump station; R-B: Rishtan Branch; R-R: Rishtan Rayvodkhoz; S: Small River; S-A: Savay-Akbura; S-B: Sokh Branch; S-O: Sokh-Oktepa; S-R: Sokh Rayvodkhoz; TJ: Republic of Tajikistan; Up Srh: Upper Sharikhan; UZ: Republic of Uzbekistan; WF: Water flume meters; WO: Water Outlets.

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