

	NWG	NWG	RWG	NWG/RWG	NWG/RWG	RWG	RWG
	1991-2000	1991-2000	Scen. 3	1999	1999	Scen. 3	Scen. 3
Planning Zones Syr Darya Basin	Measured Average Salinity Irrigation Water (g/l)	Measured Average Salinity Drainage Water (g/l)	Calculated Average Salinity Drainage Water (g/l)	Overall Efficiency (%)	Return Flow to Sink or to Main System (%)	Overall Efficiency (%)	Return Flow to Sink or to Main System (%)
Kyr Naryn Upper Reach	0,3	0,5	0,4	50	32	57	28
Kyr Naryn Middle U/S	0,4	0,5	0,4	51	31	58	27
Kyr Naryn Middle D/S	0,4	0,5	0,4	51	31	58	27
Kyr Fergana North	0,5	0,5	0,4	49	34	50	33
Uzb Namangan Naryn	0,3	1,1	0,9	39	40	44	37
Kyr Kampyr Ravat	0,5	0,6	0,5	48	35	52	32
Uzb Andijan	0,4	1,5	1,2	49	40	55	28
Uzb Fergana	0,4	2,4	1,9	52	40	57	29
Kyr Fergana South	0,7	1,4	1,1	63	34	64	24
Uzb Namangan Syr Darya	0,5	1,1	0,9	39	40	45	36
Tad Khodjent	0,4	1,3	1,0	41	40	47	36
Uzb Tashkent Syr Darya	0,7	1,1	0,9	41	40	50	34
Uzb Syr Darya	0,8	1,6	1,3	52	40	55	38
Uzb Djizak	0,8	4,2	3,4	55	40	59	36
Kaz Hunger Steppe	0,8	2,8	2,2	59	35	59	35
Uzb Tashkent Chirchik	0,2	1,1	0,9	41	40	46	37
Kaz ChAKIR	0,4	1,9	1,5	61	35	65	31
Kaz Kzylkum	1,1	1,9	1,5	50	32	57	28
Kaz ARTUR	0,5	1,9	1,5	50	37	54	34
Kaz Kzylorda	1,1	6,9	5,5	58	10	62	10

	NWG	NWG	RWG	NWG/RWG	NWG/RWG	RWG	RWG
	1991-2000	1991-2000	Scen. 3	1999	1999	Scen. 3	Scen. 3
Planning Zones Amu Darya Basin	Measured Average Salinity Irrigation Water (g/l)	Measured Average Salinity Drainage Water (g/l)	Calculated Average Salinity Drainage Water (g/l)	Overall Efficiency (%)	Return Flow to Sink or to Main System (%)	Overall Efficiency (%)	Return Flow to Sink or to Main System (%)
Tad Garm	0,3	0,5	0,4				
Tad Gorno Badakshan	0,4	0,5	0,4	41	40	44	38
Tad Pyandj	0,5	0,8	0,6	48	35	42	40
Tad Vaksh	0,5	0,8	0,6	35	39	42	40
Tad Kafirnigan Upper	0,4	0,5	0,4	41	40	46	40
Tad Karatag Shirkent	0,4	0,5	0,4	41	40	46	37
Tad Kafirnigan Lower	0,4	0,5	0,4	41	40	46	40
Uzb Surkhandarya	0,4	1,9	1,5	40	40	45	37
Tur Mary	0,6	7,6	6,1	53	40	57	38
Tur Akhalsk	0,6	9,7	7,8	58	40	60	38
Tur Balkan	0,7	9,7	7,8	77	21	79	38
Uzb Kashkadarya	0,9	5,7	4,6	44	40	47	38
Uzb Karshi	0,9	5,7	4,6	41	40	48	36
Tur Lebab	0,9	2,5	2,0	48	29	54	38
Tad Zarafshan	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Uzb Samarkand	n/a	1,0	0,8	n/a	n/a	n/a	n/a
Uzb Navoi	0,9	3,2	2,6	41	40	48	35
Uzb Buchara	0,9	3,6	2,9	35	40	39	38
Uzb Khorezm	1,0	2,9	2,3	34	10	50	8
Uzb Karakalpakstan Sth	1,1	3,4	2,7	34	10	37	10
Tur Dashkovus	1,1	4,5	3,6	48	8	51	10
Uzb Karakalpakstan North	1,1	3,4	2,7	34	10	37	9

n/a = not available

Case: **SD_1999_Realised**Date of Calculation: **22.abr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Months 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)	Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	0	SD
Kyr Naryn Middle U/S	79	0	480	66,2	7200	Kambarata II	0	KAZ
Kyr Naryn Middle D/S	79	0	480	66,4	29100	Toktogul	3715	KYR
Kyr Fergana North	1498	0	480	78,4	211900	Kurpsay	3194	TAD
Uzb Namangan Naryn	3252	12	477	-67,8	342400	Tashkumir	1710	TUR
Kyr Kampyr Ravat	539	0	480	111,4	7200	Shamaldysay	622	UZB
Uzb Andijan	2784	8	477	-215,3	67400	Uchkurgam	845	Total km3
Uzb Fergana	4056	32	477	-320,9	230000	total:	10086	41,2
Kyr Fergana South	2224	20	474	-53,5	298900			0,6
Uzb Namangan Syr Darya	535	0	480	54,3	158800	Charvak	1549	(Excl. Sanitary Flow)
Tad Khodjent	3265	156	443	235,1	104400	Chardara	360	
Uzb Tashkent Syr Darya	560	3	476	275,2	241200	Kayrakum	536	
Uzb Syr Darya	2668	1	480	-34,4	37200			
Uzb Djizak	2488	51	476	-128,2	256200	Andijan	268	
Kaz Hunger Steppe	1487	56	471	33,7	274700	Farkhad	821	
Uzb Tashkent Chirchik	3411	47	474	-93,2	45800			
Kaz ChAKIR	807	7	473	-155,0	274000			
Kaz Kzylkum	1040	0	480	210,5	125300			
Kaz ARTUR	2716	0	480	-11,6	80900			
Kaz Kzylorda	6736	228	472	950,1	284900			
SD Sanitary Flow	1640	31	471	n/c	0			
Total:	42,9	0,7 km3			3187300 ha (total)			
		1,5 % deficit			n/c = not considered			

Case: **SD_NWG_Present_2305_0309**

Date of Calculation: **03.сех.02**

SYR DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success 480 = 100%	Cumulative Mon Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800				
1 Kyr Naryn Middle U/S	87	0	480	57,7	6400		KAZ	13,5	0,3
2 Kyr Naryn Middle D/S	87	0	480	58,2	6400	Toktogul	KYR	5,1	0,1
3 Kyr Fergana North	1460	0	480	60,7	103920	Kurpsay	TAD	3,2	0,3
4 Uzb Namangan Naryn	3236	0	480	65,9	241000	Tashkumir	TUR	0,0	0,0
5 Kyr Kampyr Ravat	400	0	480	115,0	27870	Shamaldysay	UZB	19,7	0,3
6 Uzb Andijan	2751	40	474	-216,8	228500	Uchkurgam			
7 Uzb Fergana	4029	115	472	-317,7	298300	total:	9536	41,6	0,9
8 Kyr Fergana South	2094	79	467	-96,2	157450		(Excl. Sanitary Flow)		
9 Uzb Namangan Syr Darya	535	0	480	135,2	37000	Charvak			
10 Tad Khodjent	3243	302	411	280,7	259550	Chardara			
11 Uzb Tashkent Syr Darya	540	4	474	308,1	45200	Kayrakum			
12 Uzb Syr Darya	2676	1	480	15,7	274900				
13 Uzb Djizak	2574	67	473	-107,7	256200	Andijan			
14 Kaz Hunger Steppe	1521	108	461	3,6	125339	Farkhad			
15 Uzb Tashkent Chirchik	3396	44	480	-93,5	341800				
16 Kaz ChAKIR	817	10	480	-220,3	67303				
17 Kaz Kzylkum	1067	0	480	143,3	81446				
18 Kaz ARTUR	2333	0	480	n/c	213613				
19 Kaz Kzylorda	7721	161	466	587,0	286000				
SD Sanitary Flow	1558	27	466	n/c	0				
Total:	43,1	1,0 km3			3167991 ha (total)				
		2,2 % deficit			n/c = not considered				

Case: **SD_1999_Optimum**

Date of Calculation: **22.abr.02**

SYR DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	100	480	n/c	109800	Kambarata I	0		
1 Kyr Naryn Middle U/S	140	0	480	56,2	7200	Kambarata II	0	KAZ	13,8
2 Kyr Naryn Middle D/S	140	0	480	56,6	29100	Toktogul	2735	KYR	5,4
3 Kyr Fergana North	1722	62	471	76,0	211900	Kurpsay	2977	TAD	0,4
4 Uzb Namangan Naryn	3416	284	454	-57,3	342400	Tashkumir	1606	TUR	0,0
5 Kyr Kampyr Ravat	484	0	480	131,3	7200	Shamaldysay	616	UZB	25,1
6 Uzb Andijan	3600	19	477	-207,3	67400	Uchkurgam	743	Total km3	44,7
7 Uzb Fergana	5590	336	465	-307,6	230000	total:	8676	(Excl. Sanitary Flow)	3,6
8 Kyr Fergana South	1960	371	436	-38,6	298900				
9 Uzb Namangan Syr Darya	590	4	475	120,4	158800	Charvak	849		
10 Tad Khodjent	436	44	403	137,9	104400	Chardara	248		
11 Uzb Tashkent Syr Darya	1685	40	471	1015,2	241200	Kayrakum	578		
12 Uzb Syr Darya	3835	14	476	-43,6	37200				
13 Uzb Djizak	995	25	470	-116,3	256200	Andijan	94		
14 Kaz Hunger Steppe	926	36	467	-23,3	274700	Farkhad	857		
15 Uzb Tashkent Chirchik	5382	945	430	-103,8	45800				
16 Kaz ChAKIR	2051	351	422	-384,0	274000				
17 Kaz Kzylkum	660	0	480	162,7	125300				
18 Kaz ARTUR	990	0	480	-26,6	80900				
19 Kaz Kzylorda	9155	956	458	1590,2	284900				
20 SD Sanitary Flow	1640	73	454	n/c	0				
Total:	46,4	3,7 km3			3187300 ha (total)				
		7,9 % deficit			n/c = not considered				

Case: **SD_1999_Optimum**

Date of Calculation: **22.abr.02**

SYR DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	100	480	n/c	109800	Kambarata I	0		
1 Kyr Naryn Middle U/S	140	0	480	56,2	7200	Kambarata II	0	KAZ	13,8
2 Kyr Naryn Middle D/S	140	0	480	56,6	29100	Toktogul	2735	KYZR	5,4
3 Kyr Fergana North	1722	62	471	76,0	211900	Kurpsay	2977	TAD	0,4
4 Uzb Namangan Naryn	3416	284	454	-57,3	342400	Tashkumir	1606	TUR	0,0
5 Kyr Kampyr Ravat	484	0	480	131,3	7200	Shamaldysay	616	UZB	25,1
6 Uzb Andijan	3600	19	477	-207,3	67400	Uchkurgam	743	Total km3	44,7
7 Uzb Fergana	5590	336	465	-307,6	230000	total:	8676	(Excl. Sanitary Flow)	3,6
8 Kyr Fergana South	1960	371	436	-38,6	298900				
9 Uzb Namangan Syr Darya	590	4	475	120,4	158800	Charvak	849		
10 Tad Khodjent	436	44	403	137,9	104400	Chardara	248		
11 Uzb Tashkent Syr Darya	1685	40	471	1015,2	241200	Kayrakum	578		
12 Uzb Syr Darya	3835	14	476	-43,6	37200				
13 Uzb Djizak	995	25	470	-116,3	256200	Andijan	94		
14 Kaz Hunger Steppe	926	36	467	-23,3	274700	Farkhad	857		
15 Uzb Tashkent Chirchik	5382	945	430	-103,8	45800				
16 Kaz ChAKIR	2051	351	422	-384,0	274000				
17 Kaz Kzylkum	660	0	480	162,7	125300				
18 Kaz ARTUR	990	0	480	-26,6	80900				
19 Kaz Kzylorda	9155	956	458	1590,2	284900				
20 SD Sanitary Flow	1640	73	454	n/c	0				
Total:	46,4	3,7 km3			3187300 ha (total)				
		7,9 % deficit			n/c = not considered				

Case: **SD_2_IRR**Date of Calculation: **22.abr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	2833	SD	
Kyr Naryn Middle U/S	58	0	480	63,0	5700	Kambarata II	1344	KAZ	10,6
Kyr Naryn Middle D/S	58	0	480	63,0	5700	Toktogul	3576	KYR	4,9
Kyr Fergana North	1666	0	480	78,6	116600	Kurpsay	3090	TAD	2,1
Uzb Namangan Naryn	3802	34	475	-96,2	201800	Tashkumir	1673	TUR	0,0
Kyr Kampyr Ravat	433	0	480	118,0	33200	Shamaldysay	619	UZB	21,7
Uzb Andijan	4050	115	459	-177,7	251600	Uchkurgam	768	Total km3	39,3
Uzb Fergana	4004	452	418	-190,8	298700	total:	13903	(Excl. Sanitary Flow)	1,5
Kyr Fergana South	1720	219	398	13,5	165000				
Uzb Namangan Syr Darya	746	0	480	109,4	41200	Charvak	1345		
Tad Khodjent	2097	75	460	236,4	158000	Chardara	362		
Uzb Tashkent Syr Darya	702	8	469	314,0	50200	Kayrakum	572		
Uzb Syr Darya	2015	0	480	-28,0	186300				
Uzb Djizak	1934	54	469	-155,2	186000	Andijan	234		
Kaz Hunger Steppe	1174	50	466	22,8	100000	Farkhad	770		
Uzb Tashkent Chirchik	4457	328	448	-105,3	376200				
Kaz ChAKIR	941	32	451	-201,6	66800				
Kaz Kzylkum	728	0	480	210,6	62300				
Kaz ARTUR	1919	0	480	-14,3	163300				
Kaz Kzylorda	5803	113	476	1137,1	210200				
SD Sanitary Flow	1640	33	465	n/c	0				
Total:	40,9	1,5 km3			2788600 ha (total)				
		3,7 % deficit			n/c = not considered				

Case: **SD_2_POW**Date of Calculation: **22.apr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	4012	SD	
Kyr Naryn Middle U/S	58	0	480	63,1	5700	Kambarata II	1367	KAZ	11,8
Kyr Naryn Middle D/S	58	0	480	63,1	5700	Toktogul	3645	KYR	4,9
Kyr Fergana North	1666	0	480	78,5	116600	Kurpsay	3194	TAD	1,8
Uzb Namangan Naryn	2497	3	478	-96,5	132800	Tashkumir	1707	TUR	0,0
Kyr Kampyr Ravat	433	0	480	118,0	33200	Shamaldysay	621	UZB	18,0
Uzb Andijan	3137	1	480	-153,3	224900	Uchkurgam	878	Total km3	36,6
Uzb Fergana	2509	8	477	-195,7	202200	total:	15424	(Excl. Sanitary Flow)	0,7
Kyr Fergana South	1720	21	469	17,9	165000				
Uzb Namangan Syr Darya	410	0	480	31,2	25200	Charvak	1218		
Tad Khodjent	1833	28	468	155,4	136400	Chardara	399		
Uzb Tashkent Syr Darya	415	1	476	209,5	30700	Kayrakum	683		
Uzb Syr Darya	2015	0	480	-92,3	186300				
Uzb Djizak	1934	16	476	-216,2	186000	Andijan	364		
Kaz Hunger Steppe	1057	13	476	-35,5	97400	Farkhad	853		
Uzb Tashkent Chirchik	5109	473	440	-109,8	404600				
Kaz ChAKIR	941	38	444	-199,5	66800				
Kaz Kzylkum	728	0	480	183,2	62300				
Kaz ARTUR	1919	0	480	-14,4	163600				
Kaz Kzylorda	7157	77	477	1171,3	240000				
SD Sanitary Flow	1640	17	474	n/c	0				
Total:	38,2	0,7 km3			2595200 ha (total)				1,8 % deficit

n/c = not considered

Case: **SD_2_IRR_POW**Date of Calculation: **22.abr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success 480 = 100%	Cumulative Mon Salt (ton/ha)	Irrigated Area Imp/Exp (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	3512	SD	
1 Kyr Naryn Middle U/S	68	0	480	65,0	6450	Kambarata II	1394	KAZ	11,6
2 Kyr Naryn Middle D/S	68	0	480	65,1	6450	Toktogul	3573	KYR	5,1
3 Kyr Fergana North	1788	23	474	80,8	120200	Kurpsay	3130	TAD	2,1
4 Uzb Namangan Naryn	3032	71	469	-82,5	183400	Tashkumir	1685	TUR	0,0
5 Kyr Kampyr Ravat	468	0	480	127,3	33200	Shamaldysay	619	UZB	22,0
6 Uzb Andijan	5229	340	431	-177,8	314500	Uchkurgam	785	Total km3	40,9
7 Uzb Fergana	3280	353	396	-121,3	251800	total:	14698	(Excl. Sanitary Flow)	1,6
8 Kyr Fergana South	1760	268	387	12,3	165000				
9 Uzb Namangan Syr Darya	749	3	476	86,2	41300	Charvak	1097		
10 Tad Khodjent	2097	107	434	251,7	158000	Chardara	337		
11 Uzb Tashkent Syr Darya	759	11	467	334,8	54100	Kayrakum	548		
12 Uzb Syr Darya	2015	1	480	-16,9	186300				
13 Uzb Djizak	1934	62	469	-144,3	186000	Andijan	204		
14 Kaz Hunger Steppe	1057	47	465	30,5	97400	Farkhad	807		
15 Uzb Tashkent Chirchik	5045	56	428	-104,0	404600				
16 Kaz ChAKIR	952	56	431	-195,8	67500				
17 Kaz Kzylkum	728	0	480	199,8	62300				
18 Kaz ARTUR	1919	0	480	-14,3	163600				
19 Kaz Kzylorda	6972	219	472	1147,8	237400				
20 SD Sanitary Flow	1640	45	462	n/c	0				
Total:	42,5	1,7 km3			2849300 ha (total)				
		3,9 % deficit			n/c = not considered				

Case: **SD_3_IRR**Date of Calculation: **22.abr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
	Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	3001	SD
1	Kyr Naryn Middle U/S	183	0	480	125,3	11600	Kambarata II	1373	KAZ
2	Kyr Naryn Middle D/S	184	0	480	126,6	11600	Toktogul	3438	KYR
3	Kyr Fergana North	1654	0	480	101,2	114100	Kurpsay	3035	TAD
4	Uzb Namangan Naryn	4272	87	459	-13,2	269100	Tashkumir	1653	TUR
5	Kyr Kampyr Ravat	452	0	480	148,5	33200	Shamaldysay	614	UZB
6	Uzb Andijan	3321	88	463	-34,3	284200	Uchkurgam	451	Total km3
7	Uzb Fergana	5291	758	409	-78,3	414200	total:	13565	(Excl. Sanitary Flow)
8	Kyr Fergana South	1711	288	381	40,5	165000			
9	Uzb Namangan Syr Darya	649	0	480	147,6	41300	Charvak	1345	
10	Tad Khodjent	1886	136	426	207,0	158000	Chardara	322	
11	Uzb Tashkent Syr Darya	640	11	464	248,4	54100	Kayrakum	517	
12	Uzb Syr Darya	1959	0	480	12,5	186600			
13	Uzb Djizak	1915	77	466	-95,0	186000	Andijan	217	
14	Kaz Hunger Steppe	1185	83	454	54,1	109000	Farkhad	730	
15	Uzb Tashkent Chirchik	4280	283	451	-51,0	404600			
16	Kaz ChAKIR	725	20	450	-75,0	67500			
17	Kaz Kzylkum	913	0	480	207,8	81300			
18	Kaz ARTUR	1772	0	480	-0,5	163600			
19	Kaz Kzylorda	5758	212	470	846,2	219200			
20	SD Sanitary Flow	1640	59	459	n/c	0			
Total:		41,4	2,1 km3			3084000 ha (total)			
			5,1 % deficit			n/c = not considered			

Case: **SD_3_POW**Date of Calculation: **22.abr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	3050	SD	
1 Kyr Naryn Middle U/S	184	0	480	126,1	11600	Kambarata II	1381	KAZ	12,6
2 Kyr Naryn Middle D/S	184	0	480	126,6	11600	Toktogul	3436	KYR	5,2
3 Kyr Fergana North	1654	7	477	100,9	114100	Kurpsay	3171	TAD	1,8
4 Uzb Namangan Naryn	1994	34	471	-12,8	116500	Tashkumir	1698	TUR	0,0
5 Kyr Kampyr Ravat	452	0	480	148,5	33200	Shamaldysay	617	UZB	18,5
6 Uzb Andijan	2722	2	480	-46,8	239100	Uchkurgam	831	Total km3	38,1
7 Uzb Fergana	4509	192	448	-92,8	353400	total:	14183	(Excl. Sanitary Flow)	1,3
8 Kyr Fergana South	1711	146	430	45,1	165000				
9 Uzb Namangan Syr Darya	649	0	480	92,7	41300	Charvak	1242		
10 Tad Khodjent	1831	127	441	183,4	158000	Chardara	325		
11 Uzb Tashkent Syr Darya	635	10	463	225,2	54100	Kayrakum	602		
12 Uzb Syr Darya	1900	0	480	1,3	186300				
13 Uzb Djizak	1810	71	465	-82,8	186000	Andijan	354		
14 Kaz Hunger Steppe	1348	85	462	60,0	124500	Farkhad	832		
15 Uzb Tashkent Chirchik	4280	309	447	-50,9	404600				
16 Kaz ChAKIR	725	20	448	-75,0	67500				
17 Kaz Kzylkum	897	0	480	177,3	81300				
18 Kaz ARTUR	1775	0	480	-0,2	164400				
19 Kaz Kzylorda	7821	315	467	836,8	271400				
20 SD Sanitary Flow	1640	71	457	n/c	0				
Total:	39,7	1,4 km3			2893700 ha (total)				
		3,5 % deficit			n/c = not considered				

Case: SD_3_NWG_2305_0309

Date of Calculation: 03.08.02

SYR DARYA**Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	1000	100	480	n/c	109800	Kambarata I	4080	SD	
1 Kyr Naryn Middle U/S	73	0	480	65,5	7500	Kambarata II	1398	KAZ	10,3
2 Kyr Naryn Middle D/S	73	0	480	65,6	7500	Toktogul	3829	KYR	5,0
3 Kyr Fergana North	1416	0	480	77,5	123000	Kurpsay	3064	TAD	2,5
4 Uzb Namangan Naryn	1771	3	479	28,8	253000	Tashkumir	1664	TUR	0,0
5 Kyr Kampyr Ravat	319	0	480	100,4	33000	Shamaldysay	620	UZB	14,5
6 Uzb Andijan	1518	0	480	0,6	260000	Uchkurgam	817	Total km3	32,2
7 Uzb Fergana	2578	12	476	-35,8	340000	total:	15472	(Excl. Sanitary Flow)	0,3
8 Kyr Fergana South	2098	66	463	1,0	187000				
9 Uzb Namangan Syr Darya	299	0	480	52,4	39000	Charvak	1827		
10 Tad Khodjent	2472	69	469	587,9	372900	Chardara	521		
11 Uzb Tashkent Syr Darya	293	1	480	103,8	45200	Kayrakum	701		
12 Uzb Syr Darya	2357	0	480	-50,3	330000				
13 Uzb Djizak	3784	45	477	-29,8	530000	Andijan	379		
14 Kaz Hunger Steppe	1180	32	473	5,4	131070	Farkhad	824		
15 Uzb Tashkent Chirchik	1856	0	480	-1,2	341800				
16 Kaz ChAKIR	634	0	480	-47,0	70380				
17 Kaz Kzylkum	767	0	480	86,2	85170				
18 Kaz ARTUR	2012	0	480	n/c	223380				
19 Kaz Kzylorda	5721	0	480	225,9	295000				
20 SD Sanitary Flow	1591	0	480	n/c	0				
Total:	33,8	0,3 km3			3784700 ha (total)				
		1,0 % deficit			n/c = not considered				

Case: **SD_3_IRR_POW**Date of Calculation: **22.abr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
	Kyr Naryn Upper Reach	1000	100	480	n/c	109800	Kambarata I	3160	SD
1	Kyr Naryn Middle U/S	184	0	480	99,2	14700	Kambarata II	1383	KAZ
2	Kyr Naryn Middle D/S	184	0	480	99,5	14700	Toktogul	3540	KYR
3	Kyr Fergana North	1656	0	480	101,5	114000	Kurpsay	3124	TAD
4	Uzb Namangan Naryn	2685	29	472	-12,1	163400	Tashkumir	1685	TUR
5	Kyr Kampyr Ravat	452	0	480	148,5	33200	Shamaldysay	616	UZB
6	Uzb Andijan	3932	62	468	-37,7	314500	Uchkurgam	758	Total km3
7	Uzb Fergana	5291	914	386	-76,7	414200	total:	14267	(Excl. Sanitary Flow)
8	Kyr Fergana South	1731	331	375	38,8	165000			
9	Uzb Namangan Syr Darya	357	0	480	87,2	25200	Charvak	1337	
10	Tad Khodjent	1802	89	444	197,6	154000	Chardara	349	
11	Uzb Tashkent Syr Darya	624	8	469	233,1	54100	Kayrakum	588	
12	Uzb Syr Darya	1900	0	480	8,4	186300			
13	Uzb Djizak	1810	63	469	-75,8	186000	Andijan	187	
14	Kaz Hunger Steppe	871	38	467	23,9	83700	Farkhad	815	
15	Uzb Tashkent Chirchik	4280	298	449	-50,8	404600			
16	Kaz ChAKIR	725	21	448	-77,3	67500			
17	Kaz Kzylkum	913	0	480	185,9	81300			
18	Kaz ARTUR	1772	0	480	-0,5	163600			
19	Kaz Kzylorda	6829	179	471	852,5	246300			
20	SD Sanitary Flow	1640	48	465	n/c	0			
Total:		40,6	2,2 km3			2996100 ha (total)			
			5,4 % deficit			n/c = not considered			

Case: **SD_3_SS**Date of Calculation: **22.abr.02****SYR DARYA****Results RIBASIM :**

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	3485		
1 Kyr Naryn Middle U/S	144	0	480	77,8	14700	Kambarata II	1398	KAZ	9,1
2 Kyr Naryn Middle D/S	114	0	480	78,0	14700	Toktogul	3596	KYR	4,4
3 Kyr Fergana North	1245	0	480	73,1	120200	Kurpsay	3166	TAD	2,0
4 Uzb Namangan Naryn	4487	35	475	-19,9	269100	Tashkumir	1699	TUR	0,0
5 Kyr Kampyr Ravat	450	0	480	147,8	33200	Shamaldysay	617	UZB	21,0
6 Uzb Andijan	3012	104	461	-27,6	314500	Uchkurgam	823	Total km3	36,4
7 Uzb Fergana	3922	290	438	-62,2	414200	total:	14784	(Excl. Sanitary Flow)	0,9
8 Kyr Fergana South	1456	159	425	37,4	165000				
9 Uzb Namangan Syr Darya	438	0	480	80,7	41300	Charvak	1522		
10 Tad Khodjent	1971	39	470	162,0	177800	Chardara	360		
11 Uzb Tashkent Syr Darya	140	4	473	209,3	54100	Kayrakum	583		
12 Uzb Syr Darya	2623	0	480	-41,6	343900				
13 Uzb Djizak	2158	25	474	-88,5	242000	Andijan	219		
14 Kaz Hunger Steppe	1315	35	473	50,1	123800	Farkhad	784		
15 Uzb Tashkent Chirchik	4215	185	461	-49,9	404600				
16 Kaz ChAKIR	568	4	472	-54,2	67500				
17 Kaz Kzylkum	723	0	480	148,9	81300				
18 Kaz ARTUR	1968	0	480	-1,4	213600				
19 Kaz Kzylorda	4488	48	477	544,0	286000				
20 SD Sanitary Flow	1640	16	473	n/c	0				
Total:	38,1	0,9 km3			3491300 ha (total)				
		2,5 % deficit			n/c = not considered				

Case: **SD_3_ECO**

Date of Calculation: **23.abr.02**

SYR DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Kyr Naryn Upper Reach	989	0	480	n/c	109800	Kambarata I	4889	SD	
Kyr Naryn Middle U/S	1639	0	480	74,0	4000	Kambarata II	1427	KAZ	9,1
Kyr Naryn Middle D/S	37	0	480	74,0	4000	Toktogul	4035	KYR	5,5
Kyr Fergana North	762	0	480	91,2	60000	Kurpsay	3141	TAD	1,8
Uzb Namangan Naryn	2878	0	480	-10,0	193900	Tashkumir	1692	TUR	0,0
Kyr Kampyr Ravat	454	0	480	148,8	33200	Shamaldysay	619	UZB	15,1
Uzb Andijan	1710	0	480	-36,3	129100	Uchkurgam	853	Total km3	31,5
Uzb Fergana	2139	0	480	-78,0	186300	total:	16656	(Excl. Sanitary Flow)	0,1
Kyr Fergana South	1603	0	480	54,9	154800				
Uzb Namangan Syr Darya	313	0	480	59,5	21400	Charvak	1674		
Tad Khodjent	1837	0	480	95,3	158000	Chardara	552		
Uzb Tashkent Syr Darya	332	0	480	127,7	29900	Kayrakum	756		
Uzb Syr Darya	1877	0	480	-65,7	186300				
Uzb Djizak	1682	0	480	-142,8	177400	Andijan	424		
Kaz Hunger Steppe	978	0	480	-25,3	97400	Farkhad	849		
Uzb Tashkent Chirchik	4188	87	469	-49,7	404600				
Kaz ChAKIR	604	4	470	-69,2	58600				
Kaz Kzylkum	968	0	480	166,7	72500				
Kaz ARTUR	1688	0	480	-1,1	150000				
Kaz Kzylorda	4836	0	480	716,2	200000				
SD Sanitary Flow	1640	0	480	0,0	0				
Total:	33,2	0,1 km3 0,3 % deficit			2431200 ha (total)				

n/c = not considered

Case: **AD_1999_Opt**

Date of Calculation: **26.abr.02**

AMU DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Tad Garm	206	0	480	n/c	19800	Ragun	20451	AD	
Tad Gorno Badakshan	348	0	480	79,2	17500	Nurek	16559	KAZ	0,0
Tad Pyandj	1269	0	480	32,2	127200	Baypazin	3559	KYR	0,0
Tad Vaksh A	596	0	480	33,1	59800	Golovnaya	1499	TAD	5,7
Tad Vaksh B	596	0	480	33,1	59800	Perypadny	145	TUR	21,5
Tad Vaksh C	596	0	480	33,1	59800	Centralny	105	UZB	32,7
Tad Kafirnigan Upper	1003	0	480	-0,4	42400	total:	42318	Total km3:	59,8
Tad Karatag Shirkent	237	4	470	-1,3	10300			AFGAN	4,0
Tad Kafirnigan Lower	597	0	480	14,1	60000			Total km3	63,8
Uzb Surkhandarya	3365	730	430	-146,1	306600			(Excl. Sanitary Flow)	
Tur Mary I	1080	0	480	-1019,9	374784	Tuyamuyun	646		
Tur Mary II	83	0	480	-1014,2	15616				
Tur Akhalsk	5104	924	440	1026,5	284800				
Tur Balkan	337	27	440	-44,4	48900				
Uzb Kashkadarya	2271	1223	90	-194,6	68900				
Uzb Karshi	7326	3000	324	-317,6	209800				
Tur Lebab	5448	2791	323	-65,6	253200				
Tad Zarafshan	209	0	480	n/c	15700				
Uzb Samarkand	4144	0	480	n/c	343000				
Uzb Navoi	2140	0	480	-454,6	120800				
Uzb Bukhara	3366	654	435	-163,4	283800				
Uzb Khorezm	6762	0	480	254,4	272600				
Uzb Karakalpak South	1256	0	480	160,3	92500				
Tur Daskovus	9422	0	480	107,4	394500				
Uzb Karakalpak North	2050	0	480	136,4	241500				
AD Sanitary Flow	3121	0	480	n/c	0				
Total:	62,9		9,4 km3		3783600 ha (total)				
			14,9 % deficit		n/c = not considered				

Case: **AD_1999_Realised**

Date of Calculation: **26.abr.02**

AMU DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success 480 = 100%	Cumulative Mon Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Tad Garm	206	0	480	n/c	19800	Ragun	19266	AD	
Tad Gorno Badakshan	210	0	480	79,8	21000	Nurek	13272	KAZ	0,0
Tad Pyandj	1131	0	480	42,2	127200	Baypazin	3460	KYR	0,0
Tad Vaksh A	655	0	480	41,3	59800	Golovnaya	1459	TAD	5,0
Tad Vaksh B	655	3	479	41,1	59800	Perypadny	145	TUR	22,2
Tad Vaksh C	655	3	479	41,1	59800	Centralny	105	UZB	29,5
Tad Kafirnigan Upper	551	0	480	-0,4	53100	total:	37706	Total km3:	56,7
Tad Karatag Shirkent	137	0	480	-1,0	13100			AFGAN	4,0
Tad Kafirnigan Lower	611	2	478	14,7	60000			Total km3	60,7
Uzb Surkhandarya	3823	801	343	-293,6	216000			(Excl. Sanitary Flow)	
Tur Mary I	6927	0	480	-1284,1	584640	Tuyamuyun	428		
Tur Mary II	289	3	477	-1209,9	24360				
Tur Akhalsk	3245	297	436	-1385,3	311300				
Tur Balkan	588	182	329	-798,3	74100				
Uzb Kashkadarya	819	294	346	-282,2	68900				
Uzb Karshi	3476	263	404	-475,8	204000				
Tur Lebab	6917	0	480	-321,6	435500				
Tad Zarafshan	209	0	480	n/c	15700				
Uzb Samarkand	4144	0	480	n/c	343000				
Uzb Navoi	1191	0	480	-525,6	73000				
Uzb Bukhara	3154	178	413	-411,4	153200				
Uzb Khorezm	6534	81	463	361,9	319100				
Uzb Karakalpak South	1764	76	458	236,6	92500				
Tur Daskovus	4226	73	457	135,9	329600				
Uzb Karakalpak North	4630	382	436	225,6	241500				
AD Sanitary Flow	3121	0	480	0	0				
Total:	59,9	2,6 km3			3960000 ha (total)				
		4,4 % deficit			n/c = not considered				

Case: **AD_NWG_Present_2305_0309**

Date of Calculation: **03.сеп.02**

AMU DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Tad Garm	206	0	480	n/c	19800	Ragun	0	AD	
Tad Gorno Badakshan	165	0	480	57,4	23000	Nurek	8469	KAZ	0,0
Tad Pyandj	1857	0	480	46,4	127200	Baypazin	2364	KYR	0,0
Tad Vaksh A	873	3	480	47,9	59800	Golovnaya	996	TAD	6,0
Tad Vaksh B	873	0	480	48,1	59800	Perypadny	145	TUR	26,4
Tad Vaksh C	873	0	480	48,1	59800	Centralny	105	UZB	33,7
Tad Kafirnigan Upper	474	0	480	1,1	52000	total:	12079	Total km3:	66,1
Tad Karatag Shirkent	114	0	480	1,2	12500			AFGAN	4,0
Tad Kafirnigan Lower	364	0	480	9,9	40000			Total km3	70,1
Uzb Surkhandarya	4788	1126	396	-252,9	287500			(Excl. Sanitary Flow)	
Tur Mary I	6488	103	470	-1668,2	409000	Tuyamuyun	341		
Tur Mary II	317	17	459	-1528,8	20000				
Tur Akhalsk	6789	3565	354	-957,1	497800				
Tur Balkan	1181	1038	280	-239,6	83900				
Uzb Kashkadarya	1170	440	340	-270,7	103000				
Uzb Karshi	5293	2234	480	-252,0	314800				
Tur Lebab	4819	0	480	-332,7	285200				
Tad Zarafshan	209	0	480	n/c	15700				
Uzb Samarkand	4144	0	480	n/c	343000				
Uzb Navoi	1535	0	480	-368,2	109400				
Uzb Bukhara	4210	1337	376	376,0	229500				
Uzb Khorezm	4059	0	480	254,2	240900				
Uzb Karakalpak South	2310	0	480	180,4	138500				
Tur Daskovus	6843	94	472	137,9	407300				
Uzb Karakalpak North	6164	1035	444	173,8	362300				
AD Sanitary Flow	3230	0	444	n/c	0				
Total:	69,3		11,0 km3		4301700 ha (total)				
			15,9 % deficit		n/c = not considered				

Case: **AD_2**Date of Calculation: **26.abr.02****AMU DARYA**

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Tad Garm	180	0	480	n/c	16500	Ragun	20664	AD	
Tad Gorno Badakshan	212	0	480	79,9	21000	Nurek	15770	KAZ	0,0
Tad Pyandj	1321	0	480	-21,7	127200	Baypazin	3583	KYR	0,0
Tad Vaksh A	621	0	480	35,3	59800	Golovnaya	1483	TAD	5,4
Tad Vaksh B	621	0	480	35,3	59800	Perypadny	144	TUR	22,2
Tad Vaksh C	621	0	480	35,3	59800	Centralny	105	UZB	30,3
Tad Kafirnigan Upper	551	0	480	-0,5	53100	total:	41748	Total km3:	57,8
Tad Karatag Shirkent	137	0	480	-0,9	13100			AFGAN	4,0
Tad Kafirnigan Lower	611	2	478	14,8	60000			Total km3	61,8
Uzb Surkhandarya	3825	631	363	-311,5	216000			(Excl. Sanitary Flow)	
Tur Mary I	6924	0	480	-1280,1	584640	Tuyamuyun	497		
Tur Mary II	289	3	477	-1208,7	24360				
Tur Akhalsk	3245	296	436	-1383,5	311300				
Tur Balkan	588	182	328	-797,1	74100				
Uzb Kashkadarya	818	293	346	-282,4	68900				
Uzb Karshi	3477	263	404	-472,4	204000				
Tur Lebab	6915	0	480	-315,9	435500				
Tad Zarafshan	502	0	480	n/c	32800				
Uzb Samarkand	4872	0	480	n/c	402800				
Uzb Navoi	1192	0	480	-518,9	73000				
Uzb Bukhara	3152	33	466	-437,8	153200				
Uzb Khorezm	6532	25	473	370,6	319100				
Uzb Karakalpak South	1764	32	471	248,4	92500				
Tur Daskovus	4225	28	471	99,4	329600				
Uzb Karakalpak North	4630	187	458	241,1	241500				
AD Sanitary Flow	3121	0	480	0,0	0				
Total:	60,9		2,0 km3		4033600 ha (total)				
			3,2 % deficit		n/c = not considered				

Case: **AD_3**Date of Calculation: **26.apr.02****AMU DARYA**

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)	Total Demand km3	Total Deficit km3			
1	Tad Garm	185	0	480	n/c	16500	Ragun	19019	AD		
2	Tad Gorno Badakshan	198	0	480	93,7	21000	Nurek	13564	KAZ	0,0	0,0
3	Tad Pyandj	1304	0	480	66,3	127200	Baypazin	3463	KYR	0,0	0,0
4	Tad Vaksh A	612	0	480	68,5	59800	Golovnaya	1453	TAD	4,9	0,0
5	Tad Vaksh B	612	0	480	68,5	59800	Perypadny	143	TUR	22,4	0,4
6	Tad Vaksh C	612	0	480	68,5	59800	Centralny	104	UZB	28,3	2,0
7	Tad Kafirnigan Upper	496	0	480	19,6	53100	total:	37746	Total km3:	55,6	2,4
8	Tad Karatag Shirkent	122	0	480	19,5	13100			AFGAN	4,0	
9	Tad Kafirnigan Lower	604	1	478	24,3	60000			Total km3	59,6	
10	Uzb Surkhandarya	3765	775	345	-141,8	235400			(Excl. Sanitary Flow)		
11	Tur Mary I	6378	1	480	-838,8	584640	Tuyamuyun	462			
12	Tur Mary II	266	1	479	-771,8	24360					
13	Tur Akhalsk	3151	82	464	-1060,8	311300					
14	Tur Balkan	733	212	355	-629,5	90000					
15	Uzb Kashkadarya	962	419	338	-151,8	84300					
16	Uzb Karshi	3111	123	445	-230,5	209800					
17	Tur Lebab	6128	0	480	-168,1	435500					
18	Tad Zarafshan	202	0	480	n/c	32800					
19	Uzb Samarkand	4638	0	480	n/c	402800					
20	Uzb Navoi	2326	0	480	-268,3	154500					
21	Uzb Bukhara	3158	452	415	-3,0	169800					
22	Uzb Khorezm	4461	7	478	168,3	329100					
23	Uzb Karakalpak South	1632	7	478	134,3	92500					
24	Tur Daskovus	5724	82	471	39,6	463300					
25	Uzb Karakalpak North	4222	264	456	126,4	241500					
26	AD Sanitary Flow	3121	193	450	0						
Total:		58,7	2,6 km3			4331900 ha (total)					
			4,5 % deficit			n/c = not considered					

Case: **AD_3_NWG_2305__0309**

Date of Calculation: **03.сеп.02**

AMU DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3		
1	Tad Garm	185	0	480	n/c	16500	Ragun	16277	AD		
2	Tad Gorno Badakshan	129	0	480	44,7	30000	Nurek	10998	KAZ	0,0	0,0
3	Tad Pyandj	1704	0	480	56,6	228000	Baypazin	3211	KYR	0,0	0,0
4	Tad Vaksh A	852	7	480	57,6	114000	Golovnaya	1344	TAD	6,0	0,0
5	Tad Vaksh B	852	0	480	58,0	114000	Perypadny	145	TUR	24,1	3,8
6	Tad Vaksh C	852	0	480	58,0	114000	Centralny	105	UZB	35,4	8,7
7	Tad Kafirnigan Upper	610	0	480	13,7	107000	total:	32080	Total km3:	65,5	12,4
8	Tad Karatag Shirkent	120	0	480	13,7	21000			AFGAN	4,0	
9	Tad Kafirnigan Lower	490	0	480	18,5	86000			Total km3	69,5	
10	Uzb Surkhandarya	4492	1105	384	-64,4	430000			(Excl. Sanitary Flow)		
11	Tur Mary I	5566	36	480	-58,3	563000	Tuyamuyun	377			
12	Tur Mary II	297	2	478	-7,5	30000					
13	Tur Akhalsk	6573	2565	365	-84,3	739000					
14	Tur Balkan	1117	936	280	-22,1	125000					
15	Uzb Kashkadarya	830	192	387	-112,7	105000					
16	Uzb Karshi	6710	3534	320	-67,8	630000					
17	Tur Lebab	4793	0	480	-78,2	498000					
18	Tad Zarafshan	202	0	480	n/c	32800					
19	Uzb Samarkand	4638	0	480	n/c	402800					
20	Uzb Navoi	1464	0	480	-66,0	180000					
21	Uzb Bukhara	3590	1305	366	-14,4	350000					
22	Uzb Khorezm	2524	0	480	83,9	307000					
23	Uzb Karakalpak South	3708	0	480	60,8	410000					
24	Tur Daskovus	5763	228	465	27,0	581000					
25	Uzb Karakalpak North	7447	2534	391	38,4	832000					
26	AD Sanitary Flow	3230	649	383	n/c	0					
Total:		68,7	13,1 km3	7046100 ha (total)							
			19,0 % deficit	n/c = not considered							

Case: **AD_3_SS**

Date of Calculation: **26.abr.02**

AMU DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Tad Garm	197	0	480	n/c	22800	Ragun	16824	AD	
Tad Gorno Badakshan	299	0	480	82,5	35100	Nurek	11525	KAZ	0,0
Tad Pyandj	1370	0	480	69,6	127200	Baypazin	3356	KYR	0,0
Tad Vaksh A	644	1	480	71,7	59800	Golovnaya	1394	TAD	5,8
Tad Vaksh B	644	0	480	71,8	59800	Perypadny	139	TUR	22,5
Tad Vaksh C	644	0	480	71,8	59800	Centralny	101	UZB	31,7
Tad Kafirnigan Upper	686	0	480	16,7	78500	total:	33340	Total km3:	60,0
Tad Karatag Shirkent	153	0	480	18,9	18700			AFGAN	4,0
Tad Kafirnigan Lower	649	0	480	26,1	60000			Total km3	64,0
Uzb Surkhandarya	3696	500	341	-108,8	373300			(Excl. Sanitary Flow)	
Tur Mary I	6380	4	480	-837,7	584640	Tuyamuyun	331		
Tur Mary II	266	1	479	-772,4	24360				
Tur Akhalsk	3191	201	462	-948,2	339200				
Tur Balkan	571	201	325	-446,0	90000				
Uzb Kashkadarya	1245	436	257	-98,0	208000				
Uzb Karshi	3649	114	446	-147,2	372800				
Tur Lebab	6015	0	480	-164,6	435500				
Tad Zarafshan	495	0	480	n/c	32800				
Uzb Samarkand	3937	0	480	n/c	427600				
Uzb Navoi	1839	0	480	-242,2	143000				
Uzb Bukhara	3960	613	376	-119,7	262500				
Uzb Khorezm	4462	31	476	171,3	329100				
Uzb Karakalpak South	2453	10	476	101,4	172200				
Tur Daskovus	6127	89	470	222,3	498500				
Uzb Karakalpak North	6455	1086	416	83,9	457800				
AD Sanitary Flow	3121	471	404	0	0				
Total:	63,1	3,8 km3			5273000 ha (total)				
		5,9 % deficit			n/c = not considered				

Case: AD_3_ECO

Date of Calculation: 26.abr.02

AMU DARYA

Results RIBASIM :

	Demand (Mm3)	Deficit (Mm3)	Number of Success Mon 480 = 100%	Cumulative Salt Imp/Exp (ton/ha)	Irrigated Area Planning Zone (ha)	Power (GWh)		Total Demand km3	Total Deficit km3
Tad Garm	159	0	480	n/c	16500	Ragun	21108	AD	
Tad Gorno Badakshan	311	0	480	86,8	35100	Nurek	16530	KAZ	0,0
Tad Pyandj	1304	0	480	66,4	127200	Baypazin	3664	KYR	0,0
Tad Vaksh A	612	0	480	68,6	59800	Golovnaya	1530	TAD	5,6
Tad Vaksh B	612	0	480	68,6	59800	Perypadny	145	TUR	18,4
Tad Vaksh C	612	0	480	68,6	59800	Centralny	105	UZB	22,5
Tad Kafirnigan Upper	694	0	480	17,1	78500	total:	43082	Total km3:	46,5
Tad Karatag Shirkent	165	0	480	17,0	18700			AFGAN	4,0
Tad Kafirnigan Lower	604	1	478	25,9	60000			Total km3	50,5
Uzb Surkhandarya	4079	649	361	-114,6	344500			(Excl. Sanitary Flow)	
Tur Mary I	3846	0	480	-788,4	363264	Tuyamuyun	591		
Tur Mary II	160	0	480	-730,7	15136				
Tur Akhalsk	2766	0	480	-1046,4	281300				
Tur Balkan	391	23	436	-690,2	57100				
Uzb Kashkadarya	755	251	353	-168,4	68900				
Uzb Karshi	2370	0	480	-253,6	156700				
Tur Lebab	6015	0	480	-161,0	435500				
Tad Zarafshan	496	0	480	n/c	32800				
Uzb Samarkand	3262	0	480	n/c	302900				
Uzb Navoi	993	0	480	-251,7	70600				
Uzb Bukhara	2457	0	480	-241,7	128900				
Uzb Khorezm	4444	0	480	169,5	329100				
Uzb Karakalpak South	1170	0	480	140,1	68600				
Tur Daskovus	5202	0	480	222,2	422200				
Uzb Karakalpak North	3007	0	480	138,9	180500				
AD Sanitary Flow	3121	0	480	0,0	0				
Total:	49,6	0,9 km3			3773400 ha (total)				
		1,9 % deficit			n/c = not considered				