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FORECAST OF RIVER RUNOFF IN THE IRRIGATED ZONE OF KAZAKHSTAN FOR VEGETATION PERIOD 2011

ALMATY - 2011

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Southern-Kazakhstan and Kyzylorda regions (SKR)

Water content of most rivers in SKO (Arys, Keles, Aksu, Sayramsu, etc.) in the coming vegetation period (from April to September) is expected 30-40% down from normal and about half that of last year. Greater role in flood of mountain rivers will play precipitation during April-May. Under heavy rains the floods will be formed on the rivers of the region.

The unfavorable situation is forming in the Syrdarya river basin in the Kyrgyzstan and Uzbekistan. Water content in the Kara and Chirchik rivers in spring-summer period is expected to about 20 - 40% down from normal. The water inflow to the Toktogul reservoir on the Naryn river will be near the mean annual. The lateral inflows to the Syrdarya river from Uchkurgan, Uchtepe to Shardara reservoir is expected to be 10-15% down from the normal one. The water content of the rivers in the Syrdarya river basin during April-September is expected to be half as compared with the previous year.

Water content in the Syrdarya river within the South-Kazakhstan and Kyzylorda regions entirely depend on the releases from the Shardara reservoir. In the upcoming vegetation period the inflow to the Shardara reservoir is expected to be in the range of 4-6 km3. In 2010 it was equal to 11 km3.

Zhambylsky region

Water content in the Aspara, Kuragaty, Merka, Karakistak, Shokpak and other rivers in the coming vegetation period is expected to be in the normal range or a little higher. Water content in the Ters and Koktal rivers will be 15-20% down from the average annual value.

Water content in the Shu river is expected to be in the normal range, but down from the last year. Water content in the Talas river (inflow to the Chon-Kapkinsky reservoir) preliminarily is expected to be 20% down from the norm and from 2010.

Almaty region

Water content in most rivers in the south of Almaty region (Ile, Shilik, Talgar, Uzun-Karagaly, etc.) during the vegetation period is expected to be close to normal, and in some rivers (Sharyn, Ulken Almaty, Kurt, Syumbe) - on 20-40% higher.

In Djungarian Alatau Mountains, the conditions for the spring-summer runoff formation are more favorable. Water content in the Karatal, Lepse, Buskan, Tentek and other rivers is expected to be on 15-30% greater than the norm, but less than in the last year. Water content in the Koksu river is expected within the historical averages, and less than in the last year. During April-May the floods is expected to be on the rivers of the Taldykurgansky region because of intensive snow melting and heavy rains.

Eastern-Kazakhstan region

Water content in the Shar, Karakol, Kusak, Khatyn-su, Urdzhar, Karabuga rivers of the Semipalatinsk region during spring-summer period is expected to be 10-30% down from the norm and significantly less than in 2010. The runoff of the Ulken Boken, Karabutov rivers is expected to be on 10-20% more than the norm.

The water inflow to the Bukhtarminsky reservoir (Bukhtarma, Kurshim, Kara Ertis ribers, etc.) and the lateral inflow to the Shulbinsky reservoir (Oba and Ulba rivers) during the second and 2-4 quarters is expected to be within the norm and generally less than in the past year as a whole:

In spring and summer, during the snowmelt and in the event of heavy rain, the mountain rivers of the south, southeast and east of Kazakhstan is expected to have the high floods, and the landslides and debris flows possibly will occur.

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The expected runoff in the vegetation period on the rivers of the irrigated area in Kazakhstan in 2011, m^3/s

Water body	Point	Probable range of expected values	2010	Norm
1	2	3	4	5
Naryn	Inflow to the Toktogul reservoir**	490-670	998	605
Karadarya	Inflow to the Andijan reservoir *	70 – 130	406	193
Karadarya	Lateral inflow from the Andijan dam to Uchtepe*	100– 140	264	163
Syrdarya	Lateral inflow from Uchkurgan, Uchtepe to Kairakkum res. *	170 – 210	256	212
Syrdarya	Lateral inflow from Kairakkum res. to Shardara res. *	140 –200	324	200
Chichik	Inflow to the Charvak res. *	220 –300	471	328
Chichik	Lateral inflow from the Charvak res. to the mouth *	65 – 85	113	93.3
Keles	mouth	8-14	26.3	16.4
Arys	Arys	13-27	51.3	34.0
Zheboglysu	Zheboglysu	3,0-4,0	4.64	3.97
Aksu	Sarkyroma	10-14	26.3	17.1
Baldybrek	State reserve	3,0-4,0	7.56	5.23
Sairam	Tasaryk	8,0-11	16.8	13.6
Baralday	Borolday	5,0-9,0	12.9	12.3
Kattabugun	Zharykbas	1,5-2,5	2.13	3.24
Shayan	Maibulak	1,0-2,0	1.60	1.86
Karashik	Khantagi	0,5-1,5	-	1.56
Ortotokoyskoe reservoir	inflow**	30 – 40	60.1	33.5
Chonkemin	mouth**	27 – 33	27.8	32.9
Talas	2.6 km downstream near Uch-Koshoy **	15 – 23	24.4	23.1
Kirovskoe reser-voir	inflow**	16 – 24	28.8	24.8
Urmaral	Oktyabrskoe**	11 – 15	18.1	15.1

Water body	Point	Probable range of expected values	2010	Norm
1	2	3	4	5
Ters	B- Oktyabrskoe	3.5 – 5.5	5.36	5.83
Shokpak	Zykovskoe	1,1-1,9	1.87	1.62
Tamdy	Shalaktau	0.6 – 1.4	1.13	0.89
Koktal	at the end of mountain area	0,8 – 1,8	-	1.50
Shabakty	at the end of mountain area	0,5 – 3,5	-	2.58
Rgaity	Aktas	1,2 – 2,0	-	1.69
Karakistak	Kamenka	2,3 –3,3	-	2.82
Merke	Ulbutuy	5,5 – 6,5	4.90	5.29
Aspara	at the end of mountain area	4.5 – 5.5	-	5.25
Kuragaty	Aspara	3,0 – 6,0	4.36	3.82
Shungur	Downstream mouth of the Karabulak river	0,55 – 0,85	-	0.91
Kapshagaiskoe reservoir	inflow	630 – 730	974	628
Borokhudzir	Kiytyn	2 – 3	-	2.51
Syumbe	Syumbe	2.5 – 3.5	-	2.13
Osek	Taldy	19 – 25	-	29.8
Bestyubinskoe reservoir	inflow	36 – 44	-	38.2
Sharyn	Sarytogoy	60 – 70	92.6	49.9
Bartogaiskoe reservoir	inflow	47 – 53	-	48.2
Turgen	Tauturgen	10 – 12	17.3	10.8
Kaskelen	Kaskelen	6.0 –7.0	7.21	6.24
Talgar	Talgar	14 – 16	19.1	15.4
Ulken Almaty	2 km higher than the lake	3.0 – 3.4	4.26	2.28
Prokhodnaya	mouth	1.9 – 2.3	3.07	2.22
Kishi Almaty	Almaty	2.9 – 3.5	3.83	3.07
Kurtinskoe reservoir	inflow	2 – 3	4.75	1.97
Uzunkargaly	Fabrichny	4.5 – 5.5	-	4.66
Koksu	Koksu	55-75	105	63.8
Koktal	Araltyube	12-16	22.4	14.5
Karatal	Karatalskoe	47-55	86.0	40.8

Water body	Point	Probable range of expected values	2010	Norm
1	2	3	4	5
Karaoy	Tekeli	21-27	35,9	20.6
Shyzhin	Tekeli	20-26	44.3	20.8
Tekeli	Tekeli	3,1-4,5	5.80	3.58
Sarykan	Sarkand	11-13	17.1	10.5
Lepsi	Lepsi	36-44	53.2	32.2
Baskan	Ekiasha	19-23	33.8	16.1
Tentek	Tonkeris	80-100	104	79.4
Sharskoe reser-voir	inflow	5 – 9	14.5	8.01
Shigilek	Shigilek	1.5 – 2.5	-	2.61
Ulken Boken	Djumba	13-17	23.8	12.5
Karakol	Taskesken	2,5-6,5	-	8.33
Khatynsu	Kyzyljulduz	4.5 – 7.5	-	7.54
Kokterek	Novopyatigorskoe	2,0-4,0	-	4.04
Urdjar	Alekseevka	2,5-3,5	-	3.50
Eginsu	Point № 6	1,5-2,5	-	3.94
Kusak	Irinovka	5,5-8,5	-	8.63
Tebezge	Point № 3	1,5-2,5	-	2.95
Karabuga	Aksuat	5,0-7,0	-	7.69
Karabuga	Karabuta	3,0 – 5,0	-	3.69
Bukhtarminskoe reservoir	inflow (2 quarter)	1200-1600	2140	1500
Bukhtarminskoe reservoir	inflow (2-4 quarter)	660-860	1060	796
Shulbinskoe res-ervoir	Lateral inflow (2 quar-ter)	620-820	821	785
Shulbinskoe res-ervoir	Lateral inflow (2-4 quarter)	300 – 400	333	359
Kapshagaiskoe reservoir	inflow (2 quarter)	500 – 580	940	549
Kapshagaiskoe reservoir	inflow (2-4 quarter)	490 – 570	818	542

Note: * - Forecasts are implemented in the UzHYDROMET,
** - Forecasts are implemented in the KyrgyzHYDROMET;

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