

Precipitation Amount in the Amudarya and Syrdarya river basins for 1 October 2009 – 31 December 2010 and assessment of probable water content for vegetation period 2011

Precipitation for October - December 2010 in the river basins of Vakhsh (Kyrgyzstan's territory), Naryn, Karadarya amounted 60-80% of the mean annual precipitation, and in the river basins of Chirchik, Akhangaran, Fergana Valley - 30-50%, and in the river basins of Surkhandarya and Kashkadarya - 20-30% of the mean annual precipitation (Table 1.). **During the period from October till mid of November 2010 precipitation in the runoff formation zones have fallen out in the form of rain and didn't contribute to the snow accumulation in the mountains.**

In 2d ten-days period of December 2010 the abnormal warm weather was observed (5-9 degrees higher than long-term annual average) and that resulted in the overall snow melting in the runoff formation zones of the Syrdarya and Amudarya river basins.

At the end of December 2010 the snow storage measured at the snow-depth gages in the Vakhsh river basin amounted 0-37%, and in the Chirchik river basin - 0-10% of the long-term annual average. On the most part of mountains at the altitude less than 2000 m the snow depth amounted 20-50% of the long-term annual average (Table 2).

According to the preliminary estimation on the basis of analysis of hydrometeorological situation on 31 December 2010 and the long-term forecasting of precipitation in the runoff formation zones of the Syrdarya and Amudarya river basins, the river water content for vegetation period 2011 will be as follows (compared with the long-term annual average): in the river basins of Vakhsh, Zarafshan, southern Fergana Valley - 80-90%; Naryn, Chirchik, Surkhandarya, northern Fergana Valley - 70-80%; Karadarya, Akhangaran, Kashkadarya - 50-60%.

Director General

V.E.Chub

Table 1

Precipitation Amount in the Amudarya and Syrdarya river basins for 1 October 2009 – 31 December 2010

River Basin	Meteorological Station	Altitude above the sea level, m	Precipitation depth					
			mm			2010, %		
			2010	2009	mean annual precipitation	Compare d to 2009	Compare d with mean annual precipitat ion	
Vakhsh	Sari Tash	3155	69	92	68	75	101	
		2470	44	114	63	39	70	
Surkhandarya	Boysun	1249	29	136	95	21	31	
		810	20	131	111	15	18	
Kashkadarya	Minchukur	2117	61	242	163	25	37	
		2028	60	236	201	25	30	
		1599	31	125	94	25	33	
Naryn	Tyan Shan	3614	29	65	29	45	100	
	Teo Ashuu	3225	88	129	169	68	52	
	Suusamyr	2087	33	30	68	110	49	
	Norin	2040	66	50	40	132	165	
	At Bashi	2025	34	21	36	162	94	
Karadarya	It Agar	2011	62	92	123	67	50	
		Ak Terek	1748	130	197	271	66	48
		Gulcha	1542	109	114	115	96	95
		Salamalik	1282	230	224	228	103	101
		Donguz Too	1268	137	164	230	84	60
Tributaries of the Syrdarya river in the Fergana Valley	Tossoy	1239	174	203	225	86	77	
		Kichik Oloy	2360	27	38	52	71	52
		Kirgiz Ata	1763	88	96	89	92	99
		Shokhimardon	1728	44	73	83	60	53
		Pacha Ata	1534	64	101	145	63	44
Chirchik	Sarikanda	1201	33	96	67	34	49	
		Kosonsoy	889	31	29	76	107	41
		Oigaing	2151	103	110	248	94	42
		Chotkol	1937	83	74	133	112	62
		Chimyon	1670	106	206	288	51	37
Akhangan	Moydantol	1464	110	140	266	79	42	
		Piskom	1256	91	182	292	50	31
Akhangan	Chorbog suv omb.	970	65	104	251	63	26	
		Kamchil	2145	73	88	222	83	33
		Dukant	2001	99	155	266	64	37
Akhangan	Angren	942	82	122	175	67	47	

Table 2

Snow Storage in the Amudarya and Syrdarya river basins at the end of December 2010

River Basin	Snow survey location	Altitude above the sea level, m	Snow amount				
			2010	2009	Mean annual snow cover depth	2010, %	
						2009	Mean annual snow cover depths
I. Snow cover depth according to the snow surveys (mm)							
Vakhsh	MS Sari Tash	3155	23	57	63	40	37
Kashkadarya	MS Minchukur	2117	0	152	75	0	0
	MS Kul'	2028	0	151	71	0	0
Karadarya	MS Ak Terek	1748	0	62	61	0	0
Chirchik	AS Oygaing	2151	18	120	172	15	10
	MS Moydontol	1464	0	103	97	0	0
	MS Piskom	1256	0	85	77	0	0
II. Snow cover depth at the meteorological station (cm)							
Vakhsh	MS Sari Tash	3155	15	30	30	50	50
Kashkadarya	MS Minchukur	2117	0	66	36	0	0
	MS Kul'	2028	0	58	32	0	0
Karadarya	MS Ak Terek	1748	0	26	32	0	0
Shakhimardan	MS Shokhimardon	1728	0	21	12	0	0
Chirchik	AS Oygaing	2151	13	50	71	26	18
	AS Chimyon	1637	9	52	37	17	24
	MS Moydontol	1464	0	45	41	0	0
	MS Piskom	1256	0	34	35	0	0
Akhangan	AS Kamchik	2145	22	41	41	54	54
	ELMOS Dukant	2001	7	43	48	16	15