

**Table S1.** Comparison of average soil water content by season between model SWAT 2010-2017 and V1, V2.1-V2.5 and V3.1-V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 4.5.1, RCP 4.5.2, RCP 4.5.3. Bold numbers indicate soil water content, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050												
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention						Variant 3 - Low Retention						
		More Ponds			More Reservoirs			Irrigated Cereals (V3.5)			Irrigated Vegetables + Cereals (V3.4)			
		Cereals (V2.1)	Vegetables (V2.2)	Irrigated Vegetables (V2.3)	Irrigated Cereals (V2.4)	Irrigated Vegetables + Cereals (V2.5)	Cereals (V3.1)	Vegetables (V3.2)	Irrigated Vegetables (V3.3)	Cereals (V3.4)	Vegetables (V3.5)	Irrigated Cereals (V3.5)	Irrigated Vegetables + Cereals (V3.4)	
<b>Season</b>														
<b>Climate Scenario</b>														
<b>RCP 4.5.1 (RACMO22E)</b>														
DJF	344	332 -3.5%	332 -3.6%	332 -3.6%	333 -3.3%	332 -3.5%	332 -3.4%	332 -3.5%	332 -3.5%	333 -3.3%	331 -3.8%	297 -13.7%		
MAM	322	303 -5.8%	303 -5.9%	317 -1.3%	320 -0.6%	310 -3.6%	311 -3.4%	303 -5.8%	318 -1.2%	320 -0.5%	307 -4.5%	283 -12.1%		
JJA	309	292 -5.4%	292 -5.6%	288 -6.7%	296 -4.1%	301 -2.5%	301 -2.6%	292 -5.4%	289 -6.6%	293 -5.1%	290 -6.1%	253 -18.0%		
SON	328	313 -4.4%	313 -4.6%	311 -5.0%	314 -4.1%	315 -3.8%	316 -3.5%	313 -4.4%	312 -4.8%	313 -4.3%	311 -5.0%	266 -18.7%		
Average Annual	326	310 -4.7%	310 -4.9%	312 -4.1%	316 -3.0%	315 -3.4%	315 -3.2%	310 -4.7%	313 -4.0%	315 -3.3%	310 -4.8%	275 -15.6%		
<b>Climate Scenario</b>														
<b>RCP 4.5.2 (HIRHAM5)</b>														
DJF	344	336 -2.3%	336 -2.4%	336 -2.3%	337 -2.2%	336 -2.3%	336 -2.3%	336 -2.3%	337 -2.2%	337 -2.1%	336 -2.4%	320 -7.1%		
MAM	322	311 -3.3%	311 -3.3%	322 0.0%	324 +0.6%	317 -1.4%	317 -1.3%	311 -3.3%	322 +0.1%	324 +0.7%	315 -2.1%	307 -4.7%		
JJA	309	291 -5.6%	291 -5.8%	285 -7.6%	295 -4.6%	303 -1.9%	303 -2.0%	291 -5.6%	286 -7.5%	293 -5.2%	291 -5.8%	271 -12.4%		
SON	328	321 -2.0%	321 -2.1%	318 -3.0%	320 -2.3%	322 -1.6%	323 -1.4%	321 -2.0%	318 -2.9%	320 -2.3%	320 -2.5%	292 -10.8%		
Average Annual	326	315 -3.3%	315 -3.4%	315 -3.2%	319 -2.1%	320 -1.8%	320 -1.7%	315 -3.3%	316 -3.1%	318 -2.2%	315 -3.1%	297 -8.7%		
<b>Climate Scenario</b>														
<b>RCP 4.5.3 (RCA4)</b>														
DJF	344	337 -2.1%	337 -2.2%	337 -2.2%	337 -2.1%	337 -2.1%	337 -2.1%	337 -2.1%	337 -2.1%	337 -2.1%	337 -2.2%	322 -6.6%		
MAM	322	318 -1.3%	317 -1.3%	325 +1.0%	326 +1.4%	322 0.0%	322 +0.1%	318 -1.3%	325 +1.1%	327 +1.7%	320 -0.4%	313 -2.7%		
JJA	309	303 -2.0%	302 -2.1%	295 -4.5%	302 -2.1%	311 +0.7%	311 +0.6%	303 -2.0%	295 -4.4%	301 -2.4%	302 -2.3%	283 -8.4%		
SON	328	322 -1.8%	321 -1.9%	318 -3.0%	320 -2.2%	323 -1.3%	324 -1.1%	322 -1.8%	318 -2.9%	320 -2.2%	320 -2.3%	292 -10.9%		
Average Annual	326	320 -1.8%	319 -1.9%	319 -2.2%	321 -1.3%	323 -0.7%	323 -0.7%	320 -1.8%	319 -2.1%	321 -1.3%	320 -1.8%	302 -7.1%		

**Table S2.** Comparison of average soil water content by season between model SWAT 2010–2017 and V1, V2.1–V2.5 and V3.1–V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 8.5.1, RCP 8.5.2, RCP 8.5.3. Bold numbers indicate soil water content, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050												
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention						Variant 3 - Low Retention						
		More Ponds			More Reservoirs			Vegetables (V3.3)			Irrigated Vegetables (V3.4)			
		Cereals (V2.1)	Vegetables (V2.2)	Irrigated Vegetables (V2.3)	Irrigated Cereals (V2.5)	Irrigated Vegetables + Cereals (V2.4)	Cereals (V3.1)	Vegetables (V3.2)	Irrigated Vegetables (V3.3)	Cereals (V3.4)	Irrigated Vegetables (V3.5)	Cereals (V3.6)	Irrigated Cereals + Vegetables (V3.7)	
<b>Season</b>														
<b>Climate Scenario</b>														
<b>RCP 8.5.1 (RACMO22E)</b>														
DJF	344	340 -1.3%	339 -1.4%	337 -2.0%	337 -2.0%	340 -1.3%	339 -1.4%	340 -1.3%	340 -1.3%	340 -1.3%	340 -1.3%	320 -7.1%		
MAM	322	318 -1.2%	318 -1.3%	323 +0.3%	323 +0.3%	321 -0.1%	322 0.0%	318 -1.2%	327 +1.6%	328 +2.0%	320 -0.4%	308 -4.1%		
JJA	309	313 +1.4%	313 +1.3%	302 -2.4%	302 -2.4%	318 +2.9%	318 +2.9%	313 +1.4%	302 -2.3%	307 -0.7%	310 +0.5%	289 -6.3%		
SON	328	327 -0.2%	326 -0.4%	329 +0.4%	329 +0.4%	327 -0.1%	328 +0.2%	327 -0.2%	324 -1.1%	325 -0.8%	326 -0.6%	297 -9.4%		
Average Annual	326	324 -0.4%	324 -0.5%	323 -0.9%	323 -0.9%	327 +0.3%	327 +0.4%	324 -0.4%	323 -0.8%	325 -0.2%	324 -0.5%	304 -6.7%		
<b>RCP 4.5.2 (HIRHAM5)</b>														
DJF	344	342 -0.7%	342 -0.8%	342 -0.7%	342 -0.7%	342 -0.7%	341 -0.8%	342 -0.7%	342 -0.6%	342 -0.6%	342 -0.7%	336 -2.3%		
MAM	322	321 -0.1%	321 -0.1%	329 +2.4%	330 +2.7%	325 +1.1%	326 +1.2%	321 -0.1%	329 +2.4%	331 +2.9%	324 +0.8%	323 +0.6%		
JJA	309	306 -0.8%	306 -1.0%	300 -3.0%	306 -0.9%	314 +1.5%	313 +1.5%	306 -0.8%	300 -2.9%	307 -0.7%	306 -1.0%	295 -4.4%		
SON	328	329 +0.4%	329 +0.3%	327 -0.2%	328 +0.2%	329 +0.5%	330 +0.7%	329 +0.4%	327 -0.1%	329 +0.4%	328 +0.1%	313 -4.5%		
Average Annual	326	325 -0.3%	324 -0.4%	324 -0.3%	327 +0.3%	327 +0.6%	328 +0.6%	325 -0.3%	325 -0.3%	327 +0.5%	325 -0.2%	317 -2.6%		
<b>RCP 8.5.3 (RCA4)</b>														
DJF	344	340 -1.2%	340 -1.3%	340 -1.2%	339 -1.4%	340 -1.3%	340 -1.3%	340 -1.2%	340 -1.1%	340 -1.1%	340 -1.2%	332 -3.5%		
MAM	322	321 -0.2%	321 -0.2%	328 +2.0%	325 +1.1%	325 +1.1%	326 +1.3%	321 -0.2%	328 +2.0%	330 +2.6%	324 +0.7%	319 -0.8%		
JJA	309	306 -1.0%	305 -1.2%	294 -4.8%	306 -1.0%	314 +1.6%	314 +1.5%	306 -1.0%	294 -4.7%	301 -2.5%	304 -1.5%	286 -7.4%		
SON	328	328 +0.2%	328 +0.1%	325 -0.8%	328 +0.1%	329 +0.4%	329 +0.5%	328 +0.2%	325 -0.7%	327 -0.2%	327 -0.2%	306 -6.5%		
Average Annual	326	324 -0.6%	323 -0.7%	322 -1.2%	325 -0.3%	327 +0.4%	327 +0.5%	324 -0.6%	322 -1.1%	325 -0.3%	324 -0.6%	311 -4.5%		

**Table S3.** Comparison of seasonal total runoff between model SWAT 2010-2017 and V1, V2.1-V2.5 and V3.1-V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 4.5.1, RCP 4.5.2, RCP 4.5.3. Bold numbers indicate total runoff, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050												
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention						Variant 3 - Low Retention						
		More Ponds			More Reservoirs			Vegetables (V3.2)			Irrigated Vegetables (V3.3)			
		Cereals (V3.1)	Vegetables (V3.2)	Irrigated Vegetables (V3.3)	Cereals (V3.4)	Vegetables (V3.5)	Irrigated Cereals (V3.5)	Cereals (V3.1)	Vegetables (V3.2)	Irrigated Vegetables (V3.3)	Cereals (V3.4)	Vegetables (V3.5)	Irrigated Cereals (V3.5)	
Season		Seasonal Total of Total Runoff [mm]												
Climate Scenario		RCP 4.5.1 (RACMO22E)												
DJF	55	35 -36%	35 -37%	34 -38%	40 -26%	45 -18%	46 -15%	35 -36%	34 -37%	38 -30%	36 -34%	27 -51%		
MAM	54	31 -43%	30 -43%	31 -43%	36 -32%	40 -26%	42 -22%	31 -43%	31 -42%	35 -35%	32 -40%	24 -56%		
JJA	46	30 -35%	30 -36%	31 -34%	38 -17%	43 -7%	45 -3%	30 -35%	31 -33%	36 -22%	33 -29%	24 -49%		
SON	48	32 -33%	32 -34%	31 -36%	39 -20%	45 -6%	46 -3%	32 -33%	31 -36%	36 -25%	34 -29%	24 -49%		
Annual Total	202	128 -37%	126 -38%	126 -38%	153 -24%	173 -15%	179 -11%	128 -37%	127 -37%	145 -28%	135 -33%	98 -51%		
Climate Scenario		RCP 4.5.2 (HIRHAM5)												
DJF	55	39 -28%	39 -29%	37 -32%	44 -20%	49 -10%	50 -9%	39 -28%	38 -31%	43 -22%	41 -25%	34 -38%		
MAM	54	43 -19%	43 -20%	43 -20%	48 -10%	52 -4%	53 -1%	43 -19%	43 -19%	48 -11%	45 -16%	38 -28%		
JJA	46	36 -22%	35 -23%	36 -23%	43 -6%	49 +6%	50 +8%	36 -22%	36 -22%	42 -9%	39 -16%	32 -31%		
SON	48	36 -25%	36 -26%	33 -31%	41 -15%	48 +1%	49 +2%	36 -25%	33 -31%	40 -18%	38 -21%	31 -35%		
Annual Total	202	154 -24%	153 -24%	149 -26%	176 -13%	198 -2%	201 0%	154 -24%	151 -26%	172 -15%	163 -19%	136 -33%		
Climate Scenario		RCP 4.5.3 (RCA4)												
DJF	55	50 -7%	50 -8%	48 -13%	54 -2%	59 +8%	61 +11%	50 -8%	48 -12%	53 -2%	52 -5%	45 -18%		
MAM	54	51 -6%	50 -7%	50 -7%	55 +2%	58 +8%	60 +12%	51 -6%	50 -7%	55 +2%	52 -3%	46 -14%		
JJA	46	39 -15%	39 -15%	38 -17%	45 -3%	50 +9%	52 +12%	39 -15%	39 -17%	45 -2%	42 -9%	36 -22%		
SON	48	44 -8%	44 -9%	41 -15%	48 0%	56 +16%	57 +19%	44 -8%	41 -15%	48 -1%	46 -3%	40 -18%		
Annual Total	202	185 -9%	183 -10%	176 -13%	201 -1%	223 +10%	230 +13%	185 -9%	178 -12%	201 -1%	192 -5%	167 -18%		

**Table S4.** Comparison of seasonal total runoff between model SWAT 2010-2017 and V1, V2.1-V2.5 and V3.1-V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 8.5.1, RCP 8.5.2, RCP 8.5.3. Bold numbers indicate total runoff, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050																								
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention						Variant 3 - Low Retention																		
		More Ponds			More Reservoirs			Irrigated Cereals (V3.5)			Irrigated Vegetables + Cereals (V3.4)															
<b>Season</b>																										
<b>Climate Scenario</b>																										
DJF		55	55	54	48	58	64	65	55	52	58	56	47													
			0%	-1%	-12%	+6%	+17%	+20%	0%	-4%	+6%	+3%	-14%													
MAM		54	47	46	47	52	56	58	47	47	52	49	41													
			-12%	-13%	-13%	-3%	+4%	+8%	-12%	-12%	-3%	-8%	-23%													
JJA		46	49	49	47	56	62	64	49	49	56	52	43													
			+7%	+6%	+2%	+22%	+34%	+38%	+7%	+6%	+21%	+13%	-6%													
SON		48	49	48	49	53	61	63	49	46	53	51	43													
			+1%	0%	+3%	+11%	+26%	+30%	+1%	-5%	+10%	+6%	-11%													
<b>Annual Total</b>		<b>202</b>	<b>199</b>	<b>198</b>	<b>192</b>	<b>220</b>	<b>242</b>	<b>250</b>	<b>199</b>	<b>195</b>	<b>218</b>	<b>209</b>	<b>174</b>													
			-1%	-2%	-5%	+9%	+20%	+23%	-2%	-4%	+8%	+3%	-14%													
<b>Climate Scenario</b>																										
<b>RCP 8.5.1 (RACMO22E)</b>																										
DJF		55	52	52	50	55	60	61	52	50	56	54	47													
			-5%	-5%	-9%	+1%	+10%	+11%	-5%	-8%	+3%	-2%	-13%													
MAM		54	61	60	60	65	67	68	61	61	66	62	57													
			+13%	+12%	+12%	+20%	+25%	+27%	+13%	+13%	+22%	+16%	+6%													
JJA		46	53	52	52	59	63	64	53	53	60	56	50													
			+15%	+14%	+14%	+27%	+36%	+38%	+15%	+14%	+29%	+21%	+9%													
SON		48	51	51	48	55	61	62	51	48	56	53	47													
			+6%	+5%	0%	+14%	+27%	+28%	+6%	+1%	+16%	+11%	-1%													
<b>Annual Total</b>		<b>202</b>	<b>217</b>	<b>215</b>	<b>211</b>	<b>233</b>	<b>251</b>	<b>254</b>	<b>217</b>	<b>212</b>	<b>237</b>	<b>225</b>	<b>202</b>													
			+7%	+6%	+4%	+15%	+24%	+26%	+7%	+5%	+17%	+11%	0%													
<b>Climate Scenario</b>																										
<b>RCP 8.5.2 (HIRHAM5)</b>																										
DJF		55	52	52	50	55	60	61	52	50	56	54	47													
			-5%	-5%	-9%	+1%	+10%	+11%	-5%	-8%	+3%	-2%	-13%													
MAM		54	61	60	60	65	67	68	61	61	66	62	57													
			+13%	+12%	+12%	+20%	+25%	+27%	+13%	+13%	+22%	+16%	+6%													
JJA		46	53	52	52	59	63	64	53	53	60	56	50													
			+15%	+14%	+14%	+27%	+36%	+38%	+15%	+14%	+29%	+21%	+9%													
SON		48	51	51	48	55	61	62	51	48	56	53	47													
			+6%	+5%	0%	+14%	+27%	+28%	+6%	+1%	+16%	+11%	-1%													
<b>Annual Total</b>		<b>202</b>	<b>217</b>	<b>215</b>	<b>211</b>	<b>233</b>	<b>251</b>	<b>254</b>	<b>217</b>	<b>212</b>	<b>237</b>	<b>225</b>	<b>202</b>													
			+7%	+6%	+4%	+15%	+24%	+26%	+7%	+5%	+17%	+11%	0%													
<b>Climate Scenario</b>																										
<b>RCP 8.5.3 (RCA4)</b>																										
DJF		55	71	70	66	71	79	80	71	66	72	72	64													
			+30%	+29%	+21%	+31%	+45%	+46%	+30%	+22%	+33%	+32%	+17%													
MAM		54	68	68	66	69	75	77	68	66	71	69	63													
			+27%	+26%	+23%	+28%	+40%	+43%	+27%	+23%	+33%	+30%	+18%													
JJA		46	60	59	56	67	70	70	60	57	64	62	57													
			+29%	+28%	+22%	+46%	+51%	+53%	+29%	+23%	+38%	+34%	+23%													
SON		48	70	69	64	68	80	81	70	64	72	72	64													
			+45%	+44%	+32%	+42%	+67%	+68%	+45%	+34%	+50%	+49%	+33%													
<b>Annual Total</b>		<b>202</b>	<b>268</b>	<b>266</b>	<b>251</b>	<b>276</b>	<b>304</b>	<b>308</b>	<b>268</b>	<b>253</b>	<b>279</b>	<b>275</b>	<b>247</b>													
			+33%	+31%	+24%	+36%	+50%	+52%	+33%	+25%	+38%	+36%	+22%													

**Table S5.** Comparison of seasonal sediment yield between model SWAT 2010-2017 and V1, V2.1-V2.5 and V3.1-V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 4.5.1, RCP 4.5.2, RCP 4.5.3. Bold numbers indicate sediment yield, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050																	
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention					Variant 3 - Low Retention												
		More Ponds			More Reservoirs		Vegetables (V3.2)			Irrigated Cereals (V3.5)									
Season		Sediment Yield [t/ha]																	
Climate Scenario		RCP 4.5.1 (RACMO22E)																	
DJF	0.21	0.17 -17%	0.14 -32%	0.20 -4%	0.20 -3%	0.16 -21%	0.04 -82%	0.17 -17%	0.24 +18%	0.25 +18%	0.20 -5%	0.05 -77%							
MAM	0.18	0.08 -58%	0.06 -67%	0.13 -27%	0.15 -21%	0.13 -29%	0.02 -89%	0.08 -58%	0.17 -10%	0.17 -6%	0.14 -26%	0.03 -86%							
JJA	0.11	0.15 +44%	0.12 +16%	0.24 +131%	0.30 +182%	0.26 +151%	0.04 -59%	0.15 +44%	0.30 +181%	0.33 +214%	0.24 +130%	0.05 -50%							
SON	0.15	0.15 0%	0.13 -17%	0.09 -38%	0.12 -18%	0.12 -22%	0.03 -81%	0.15 0%	0.12 -24%	0.13 -17%	0.11 -30%	0.04 -77%							
<b>Annual Total</b>	<b>0.65</b>	<b>0.55 -15%</b>	<b>0.45 -31%</b>	<b>0.67 +4%</b>	<b>0.77 +19%</b>	<b>0.68 +4%</b>	<b>0.13 -80%</b>	<b>0.55 -15%</b>	<b>0.82 +27%</b>	<b>0.87 +35%</b>	<b>0.68 +5%</b>	<b>0.16 -75%</b>							
Climate Scenario		RCP 4.5.2 (HIRHAM5)																	
DJF	0.21	0.11 -49%	0.09 -58%	0.12 -41%	0.13 -39%	0.11 -47%	0.02 -88%	0.11 -49%	0.15 -29%	0.15 -28%	0.13 -37%	0.03 -87%							
MAM	0.18	0.13 -31%	0.11 -43%	0.25 +34%	0.26 +39%	0.21 +13%	0.04 -80%	0.13 -31%	0.30 +62%	0.31 +68%	0.24 +31%	0.05 -74%							
JJA	0.11	0.12 +17%	0.10 -5%	0.15 +47%	0.23 +122%	0.23 +117%	0.03 -70%	0.12 +17%	0.19 +77%	0.22 +110%	0.17 +64%	0.04 -65%							
SON	0.15	0.19 +24%	0.16 +2%	0.10 -31%	0.15 +1%	0.16 +3%	0.04 -72%	0.19 +24%	0.13 -15%	0.15 -1%	0.13 -14%	0.05 -66%							
<b>Annual Total</b>	<b>0.65</b>	<b>0.54 -16%</b>	<b>0.45 -31%</b>	<b>0.63 -3%</b>	<b>0.77 +19%</b>	<b>0.70 +9%</b>	<b>0.13 -79%</b>	<b>0.54 -16%</b>	<b>0.76 +17%</b>	<b>0.83 +28%</b>	<b>0.67 +4%</b>	<b>0.16 -75%</b>							
Climate Scenario		RCP 4.5.3 (RCA4)																	
DJF	0.21	0.11 -47%	0.09 -56%	0.15 -30%	0.15 -29%	0.13 -39%	0.02 -89%	0.11 -47%	0.17 -16%	0.18 -16%	0.15 -28%	0.03 -85%							
MAM	0.18	0.15 -18%	0.12 -33%	0.26 +42%	0.27 +47%	0.22 +19%	0.04 -78%	0.15 -18%	0.32 +73%	0.33 +78%	0.25 +38%	0.05 -72%							
JJA	0.11	0.11 +5%	0.09 -16%	0.08 -20%	0.13 +22%	0.13 +23%	0.02 -81%	0.11 +5%	0.10 -6%	0.13 +23%	0.10 -8%	0.02 -77%							
SON	0.15	0.20 +33%	0.17 +9%	0.13 -17%	0.18 +18%	0.18 +18%	0.04 -77%	0.20 +33%	0.15 0%	0.18 +20%	0.16 +4%	0.04 -71%							
<b>Annual Total</b>	<b>0.65</b>	<b>0.57 -12%</b>	<b>0.47 -28%</b>	<b>0.62 -5%</b>	<b>0.72 +12%</b>	<b>0.65 +1%</b>	<b>0.12 -82%</b>	<b>0.57 -12%</b>	<b>0.74 +15%</b>	<b>0.81 +26%</b>	<b>0.66 +1%</b>	<b>0.15 -77%</b>							

**Table S6.** Comparison of seasonal sediment yield between model SWAT 2010-2017 and V1, V2.1-V2.5 and V3.1-V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 8.5.1, RCP 8.5.2, RCP 8.5.3. Bold numbers indicate sediment yield, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050																								
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention						Variant 3 - Low Retention																		
		More Ponds			More Reservoirs			Cereals (V3.1)			Vegetables (V3.2)															
<b>Season</b>																										
<b>Climate Scenario</b>																										
DJF	0.21	0.25 +21%	0.21 0%	0.15 -26%	0.34 +65%	0.26 +24%	0.07 -68%	0.25 +21%	0.41 +99%	0.41 +100%	0.30 +47%	0.08 -61%														
MAM	0.18	0.07 -63%	0.06 -70%	0.19 +3%	0.18 -3%	0.16 -11%	0.02 -89%	0.07 -63%	0.19 +4%	0.22 +18%	0.17 -7%	0.03 -85%														
JJA	0.11	0.22 +107%	0.18 +69%	0.21 +103%	0.29 +171%	0.26 +146%	0.05 -50%	0.22 +107%	0.26 +151%	0.30 +184%	0.23 +120%	0.07 -38%														
SON	0.15	0.18 +18%	0.15 -3%	0.31 +102%	0.18 +20%	0.15 -1%	0.04 -74%	0.18 +18%	0.22 +42%	0.22 +45%	0.17 +12%	0.05 -68%														
<b>Annual Total</b>	<b>0.65</b>	<b>0.72</b> +11%	<b>0.59</b> -10%	<b>0.86</b> +33%	<b>0.99</b> +53%	<b>0.83</b> +28%	<b>0.18</b> -73%	<b>0.72</b> +11%	<b>1.08</b> +67%	<b>1.15</b> +77%	<b>0.88</b> +35%	<b>0.22</b> -66%														
<b>Climate Scenario</b>																										
<b>RCP 8.5.1 (RACMO2E)</b>																										
DJF	0.21	0.12 -42%	0.10 -52%	0.15 -29%	0.15 -29%	0.12 -42%	0.03 -87%	0.12 -42%	0.19 -11%	0.19 -11%	0.15 -26%	0.03 -85%														
MAM	0.18	0.24 +32%	0.20 +9%	0.37 +101%	0.38 +106%	0.31 +69%	0.06 -67%	0.24 +32%	0.45 +146%	0.46 +150%	0.37 +99%	0.07 -60%														
JJA	0.11	0.21 +103%	0.17 +65%	0.24 +132%	0.32 +200%	0.29 +175%	0.05 -50%	0.21 +103%	0.30 +183%	0.34 +227%	0.27 +154%	0.06 -40%														
SON	0.15	0.22 +43%	0.18 +18%	0.15 -1%	0.17 +14%	0.16 +3%	0.05 -69%	0.22 +43%	0.18 +19%	0.20 +32%	0.16 +6%	0.06 -63%														
<b>Annual Total</b>	<b>0.65</b>	<b>0.79</b> +22%	<b>0.65</b> +1%	<b>0.91</b> +41%	<b>1.02</b> +57%	<b>0.88</b> +35%	<b>0.19</b> -71%	<b>0.79</b> +22%	<b>1.11</b> +72%	<b>1.19</b> +83%	<b>0.95</b> +46%	<b>0.22</b> -65%														
<b>Climate Scenario</b>																										
<b>RCP 8.5.2 (HIRHAM5)</b>																										
DJF	0.21	0.12 -42%	0.10 -52%	0.15 -29%	0.15 -29%	0.12 -42%	0.03 -87%	0.12 -42%	0.19 -11%	0.19 -11%	0.15 -26%	0.03 -85%														
MAM	0.18	0.24 +32%	0.20 +9%	0.37 +101%	0.38 +106%	0.31 +69%	0.06 -67%	0.24 +32%	0.45 +146%	0.46 +150%	0.37 +99%	0.07 -60%														
JJA	0.11	0.21 +103%	0.17 +65%	0.24 +132%	0.32 +200%	0.29 +175%	0.05 -50%	0.21 +103%	0.30 +183%	0.34 +227%	0.27 +154%	0.06 -40%														
SON	0.15	0.22 +43%	0.18 +18%	0.15 -1%	0.17 +14%	0.16 +3%	0.05 -69%	0.22 +43%	0.18 +19%	0.20 +32%	0.16 +6%	0.06 -63%														
<b>Annual Total</b>	<b>0.65</b>	<b>0.79</b> +22%	<b>0.65</b> +1%	<b>0.91</b> +41%	<b>1.02</b> +57%	<b>0.88</b> +35%	<b>0.19</b> -71%	<b>0.79</b> +22%	<b>1.11</b> +72%	<b>1.19</b> +83%	<b>0.95</b> +46%	<b>0.22</b> -65%														
<b>Climate Scenario</b>																										
<b>RCP 8.5.3 (RCA4)</b>																										
DJF	0.21	0.14 -34%	0.11 -47%	0.18 -13%	0.16 -24%	0.15 -30%	0.03 -85%	0.14 -34%	0.23 +8%	0.23 +9%	0.17 -16%	0.04 -81%														
MAM	0.18	0.16 -13%	0.13 -29%	0.31 +68%	0.31 +67%	0.25 +38%	0.05 -75%	0.16 -13%	0.38 +105%	0.39 +112%	0.30 +61%	0.06 -70%														
JJA	0.11	0.14 +32%	0.11 +7%	0.21 +101%	0.43 +307%	0.23 +119%	0.04 -63%	0.14 +32%	0.26 +146%	0.30 +182%	0.22 +105%	0.05 -51%														
SON	0.15	0.57 +274%	0.46 +204%	0.42 +178%	0.34 +127%	0.39 +159%	0.12 -19%	0.57 +274%	0.52 +240%	0.54 +259%	0.41 +174%	0.15 0%														
<b>Annual Total</b>	<b>0.65</b>	<b>1.00</b> +55%	<b>0.81</b> +26%	<b>1.12</b> +73%	<b>1.24</b> +91%	<b>1.02</b> +58%	<b>0.24</b> -63%	<b>1.00</b> +54%	<b>1.38</b> +112%	<b>1.46</b> +125%	<b>1.10</b> +70%	<b>0.30</b> -54%														

**Table S7.** Comparison of seasonal actual evapotranspiration between model SWAT 2010-2017 and V1, V2.1-V2.5 and V3.1-V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 4.5.1, RCP 4.5.2, RCP 4.5.3. Bold numbers indicate actual evapotranspiration, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050												
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention						Variant 3 - Low Retention						
		More Ponds			More Reservoirs			Vegetables (V3.3)			Irrigated Vegetables (V3.4)			
		Cereals (V2.1)	Vegetables (V2.2)	Irrigated Vegetables (V2.3)	Irrigated Cereals (V2.4)	Irrigated Cereals + Vegetables (V2.5)	Cereals (V3.1)	Vegetables (V3.2)	Irrigated Vegetables (V3.3)	Cereals (V3.4)	Irrigated Vegetables (V3.5)	Cereals (V3.5)	Irrigated Cereals + Vegetables (V3.5)	
Season														
Climate Scenario														
RCP 4.5.1 (RACMO22E)														
DJF	17	20	27	25	25	27	25	27	25	25	27	25	25	
		+14%	+56%	+48%	+48%	+55%	+46%	+57%	+48%	+48%	+55%	+45%		
MAM	138	154	153	120	129	162	162	154	120	132	153	154		
		+11%	+11%	-13%	-6%	+17%	+17%	+11%	-13%	-5%	+10%	+11%		
JJA	167	166	166	206	223	216	237	166	205	217	194	220		
		-1%	0%	+23%	+34%	+30%	+42%	-1%	+23%	+30%	+16%	+32%		
SON	50	70	70	66	69	73	88	70	66	68	69	82		
		+41%	+41%	+33%	+40%	+48%	+77%	+41%	+33%	+38%	+40%	+66%		
Annual Total	372	409	417	418	447	478	512	416	417	442	443	481		
		+10%	+12%	+12%	+20%	+29%	+38%	+12%	+12%	+19%	+19%	+29%		
Climate Scenario														
RCP 4.5.2 (HIRHAM5)														
DJF	17	24	24	23	24	24	23	24	24	24	24	24	23	
		+42%	+41%	+37%	+37%	+41%	+34%	+42%	+37%	+37%	+41%	+34%		
MAM	138	149	148	119	126	153	153	149	119	128	146	148		
		+7%	+7%	-14%	-9%	+11%	+11%	+7%	-14%	-7%	+6%	+7%		
JJA	167	152	153	191	205	197	214	152	191	204	180	203		
		-9%	-9%	+14%	+23%	+18%	+28%	-9%	+14%	+22%	+8%	+22%		
SON	50	61	61	58	61	64	75	61	58	61	61	73		
		+23%	+24%	+18%	+22%	+29%	+52%	+23%	+17%	+22%	+24%	+47%		
Annual Total	372	386	386	391	415	438	466	386	391	416	412	447		
		+4%	+4%	+5%	+12%	+18%	+25%	+4%	+5%	+12%	+11%	+20%		
Climate Scenario														
RCP 4.5.3 (RCA4)														
DJF	17	31	31	30	30	31	29	31	30	30	31	29		
		+81%	+80%	+75%	+75%	+79%	+67%	+81%	+75%	+75%	+79%	+67%		
MAM	138	136	136	113	118	139	138	136	113	121	135	135		
		-1%	-2%	-18%	+15%	+1%	0%	-1%	-18%	+12%	-2%	-2%		
JJA	167	168	169	203	220	217	235	168	203	220	198	223		
		+1%	+1%	+22%	+32%	+30%	+41%	+1%	+22%	+32%	+18%	+34%		
SON	50	69	69	66	69	74	89	69	66	69	70	86		
		+40%	+40%	+33%	+40%	+50%	+79%	+40%	+32%	+39%	+41%	+73%		
Annual Total	372	404	405	412	438	461	490	404	412	440	434	472		
		+9%	+9%	+11%	+18%	+24%	+32%	+9%	+11%	+18%	+17%	+27%		

**Table S8.** Comparison of seasonal actual evapotranspiration between model SWAT 2010-2017 and V1, V2.1-V2.5 and V3.1-V3.5 for 2041–2050 in the Bystra catchment for climate projection RCP 8.5.1, RCP 8.5.2, RCP 8.5.3. Bold numbers indicate actual evapotranspiration, and shaded numbers indicate percentage change (red indicates % decrease in content and blue indicates % increase in content). Dark red and dark blue shading indicates large changes, while light red and light blue shading indicates small changes (author's own study).

Time Interval		2041-2050												
Type of Scenario	Model 2010 - 2017	Variant 2 - Low Retention						Variant 3 - Low Retention						
		More Ponds			More Reservoirs			Vegetables (V3.3)			Irrigated Vegetables (V3.4)			
		Cereals (V2.1)	Vegetables (V2.2)	Irrigated Vegetables (V2.3)	Irrigated Cereals (V2.4)	Irrigated Cereals + Vegetables (V2.5)	Cereals (V3.1)	Vegetables (V3.2)	Irrigated Vegetables (V3.3)	Cereals (V3.4)	Irrigated Vegetables (V3.5)	Cereals (V3.5)	Irrigated Cereals + Vegetables (V3.5)	
Season														
Climate Scenario														
RCP 8.5.1 (RACMO2E)														
DJF	17	29 +68%	29 +68%	44 +157%	28 +63%	29 +67%	27 +55%	29 +68%	28 +64%	28 +64%	29 +67%	27 +55%		
MAM	138	156 +13%	156 +13%	154 +11%	135 -3%	160 +16%	159 +15%	156 +13%	129 -7%	138 0%	155 +12%	155 +12%		
JJA	167	165 -1%	165 -1%	180 +8%	216 +29%	210 +26%	229 +37%	165 -1%	200 +20%	216 +29%	193 +15%	218 +30%		
SON	50	70 +41%	70 +41%	48 -3%	70 +41%	74 +48%	88 +78%	70 +41%	67 +36%	70 +41%	71 +42%	85 +72%		
Annual Total	372	420 +13%	420 +13%	426 +14%	449 +21%	472 +27%	503 +35%	420 +13%	425 +14%	452 +21%	447 +20%	484 +30%		
RCP 8.5.2 (HIRHAM5)														
DJF	17	23 +35%	23 +35%	22 +30%	22 +30%	23 +34%	22 +27%	23 +35%	22 +31%	22 +31%	23 +34%	22 +27%		
MAM	138	135 -2%	135 -2%	112 -19%	116 -16%	138 0%	138 0%	135 -2%	112 -19%	119 -14%	134 -3%	135 -2%		
JJA	167	152 -9%	153 -8%	186 +11%	199 +19%	194 +16%	210 +26%	152 -9%	185 +11%	203 +21%	180 +8%	202 +21%		
SON	50	65 +32%	65 +32%	63 +27%	65 +30%	68 +37%	79 +59%	65 +32%	63 +26%	65 +31%	66 +33%	78 +57%		
Annual Total	372	377 +1%	377 +1%	382 +3%	403 +8%	423 +14%	449 +21%	377 +1%	382 +3%	410 +10%	403 +8%	437 +17%		
RCP 8.5.3 (RCA4)														
DJF	17	34 +100%	34 +100%	33 +93%	41 +139%	34 +98%	32 +84%	34 +100%	33 +93%	33 +93%	34 +99%	32 +85%		
MAM	138	141 +2%	140 +2%	119 -14%	139 +1%	142 +3%	144 +4%	141 +2%	119 -14%	126 -9%	139 +1%	141 +2%		
JJA	167	158 -5%	159 -5%	197 +18%	203 +21%	205 +23%	223 +34%	158 -5%	197 +18%	214 +28%	188 +12%	211 +27%		
SON	50	72 +46%	73 +46%	70 +40%	59 +19%	75 +52%	86 +74%	72 +46%	69 +40%	72 +46%	73 +47%	84 +70%		
Annual Total	372	406 +9%	406 +9%	419 +13%	442 +19%	457 +23%	485 +30%	406 +9%	419 +13%	445 +20%	434 +17%	468 +26%		

**Table S9.** Comparison of water withdrawals from irrigation reservoirs for adaptation scenarios V3.3, V3.4, V3.4 in relation to the total amount of water in reservoirs without irrigation (V3.1) in the Bystra catchment from 2041 to 2050 for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate water withdrawals from irrigation reservoirs, and shaded numbers indicate percentage change (red indicates % decrease in content) (author's own study)

Climate Scenario		RCP 4.5				RCP 8.5				
Time Interval		2041-2050								
Type of Scenario	Season	Variant 3 - Low Retention				Variant 3 - Low Retention				
		More Reservoirs		More Reservoirs		More Reservoirs		More Reservoirs		
		Irrigated Vegetables + Cereals (V3.3)	Irrigated Vegetables + Cereals (V3.4)	Irrigated Vegetables + Cereals (V3.5)	Irrigated Orcid + Cereals (V3.5)	Cereals (V3.1)	Irrigated Vegetables (V3.3)	Irrigated Vegetables (V3.4)	Irrigated Orcid + Cereals (V3.5)	
Cereals (V3.1)		1069	1010 -5%	1047 -2%	889 -17%	1095	1068 -2%	1084 -1%	1001 -9%	
MAM		1069	931 -13%	1020 -5%	908 -15%	1096	1015 -7%	1068 -3%	1002 -9%	
JJA		1059	702 -34%	857 -19%	740 -30%	1089	801 -26%	970 -11%	877 -19%	
SON		1065	865 -19%	959 -10%	746 -30%	1094	970 -11%	1046 -4%	919 -16%	
Average Annual		1065	877 -17.7%	971 -8.9%	821 -23.0%	1094	963 -9.6%	1042 -2.2%	950 -10.9%	

**Table S10.** Percentage summary of changes in precipitation, soil water content, sediment yield, total runoff and actual evapotranspiration under V1, V2.1 - V2.5, V3.1 - V3.5 in the years 2041-2050 compared to the SWAT 2010-2017 model scenario, for average values of three GCMs/RCMs combinations under two RCP climate change scenarios (RCP 4.5, RCP 8.5). The summary covers four seasons (DJF, MAM, JJA, SON) in the Bystra catchment. Shaded numbers indicate percentage changes (red indicates % decrease in content, and blue indicates % increase in content) (author's own study).

Season	RCP 4.5					RCP 8.5					Actual Evapotranspiration [mm]	Type of Scenario
	Precipitation [mm]	Soil Water Content [mm]	Total Runoff [mm]	Sediment Yield [t/ha]	Actual Evapotranspiration [mm]	Precipitation [mm]	Soil Water Content [mm]	Total Runoff [mm]	Sediment Yield [t/ha]			
DJF	8%	-3%	-24%	-38%	+60%	+8%	-1%	+8%	-18%	+68%		V1
MAM	-4%	-4%	-23%	-36%	+6%	+13%	-1%	+9%	-15%	+4%		
JJA	-6%	-4%	-24%	+22%	-3%	+1%	0%	+17%	+81%	-5%		
SON	+7%	-3%	-22%	+19%	+35%	+25%	0%	+17%	+112%	+40%		
<b>Average</b>	-3%	-3%	-23%	-14%	+8%	+11%	0%	+13%	+29%	+8%		
DJF	-8%	-3%	-25%	-49%	+59%	+8%	-1%	+7%	-33%	+68%		V2.1
MAM	-4%	-4%	-23%	-48%	+6%	+13%	-1%	+8%	+30%	+4%		
JJA	-6%	-5%	-25%	-2%	-3%	+1%	0%	+16%	+47%	-5%		
SON	+7%	-3%	-23%	-2%	+35%	+25%	0%	+16%	+73%	+40%		
<b>Average</b>	-3%	-3%	-24%	-30%	+8%	+11%	-1%	+12%	+6%	+8%		
DJF	-8%	-3%	-27%	-25%	+53%	+8%	-1%	0%	-23%	+93%		V2.2
MAM	-4%	0%	-23%	+16%	-15%	+13%	+2%	+7%	+57%	-7%		
JJA	-6%	-6%	-24%	+53%	+20%	+1%	-3%	+13%	+112%	+12%		
SON	+7%	-4%	-28%	-29%	+28%	+25%	0%	+12%	+93%	+21%		
<b>Average</b>	-3%	-3%	-26%	-2%	+9%	+11%	-1%	+8%	+49%	+10%		
DJF	-8%	-3%	-16%	-24%	+53%	+8%	-1%	+13%	+4%	+78%		V2.3
MAM	-4%	+1%	-14%	+22%	-10%	+13%	+1%	+15%	+57%	-6%		
JJA	-6%	-4%	-9%	+109%	+29%	+1%	-1%	+32%	+226%	+23%		
SON	+7%	-3%	-11%	0%	+34%	+25%	0%	+22%	+54%	+30%		
<b>Average</b>	-3%	-2%	-13%	+16%	+16%	+11%	0%	+20%	+67%	+16%		
DJF	-8%	-3%	-7%	-35%	+58%	+8%	-1%	+24%	-16%	+66%		V2.4
MAM	-4%	-2%	-7%	+1%	+9%	+13%	+1%	+23%	+32%	+6%		
JJA	-6%	-1%	+3%	+97%	+26%	+1%	+2%	+40%	+147%	+22%		
SON	+7%	-2%	+4%	+0%	+42%	+25%	0%	+40%	+54%	+46%		
<b>Average</b>	-3%	-2%	-2%	+5%	+23%	+11%	0%	+31%	+40%	+21%		
DJF	-8%	-3%	-4%	-86%	+49%	+8%	-1%	+26%	-80%	+55%		V2.5
MAM	-4%	-2%	-4%	-82%	+9%	+13%	+1%	+26%	-77%	+6%		
JJA	-6%	-1%	+6%	-70%	+37%	+1%	+2%	+43%	-55%	+32%		
SON	+7%	-2%	+6%	-77%	+69%	+25%	0%	+42%	-54%	+70%		
<b>Average</b>	-3%	-2%	0%	-80%	+31%	+11%	1%	+34%	-69%	+29%		
DJF	-8%	-3%	-24%	-38%	+60%	+8%	-1%	+8%	-18%	+68%		V3.1
MAM	-4%	-4%	-23%	-36%	+6%	+13%	-1%	+9%	-15%	+4%		
JJA	-6%	-4%	-24%	+22%	-3%	+1%	0%	+17%	+81%	-5%		
SON	+7%	-3%	-22%	+19%	+35%	+25%	0%	+17%	+112%	+40%		
<b>Average</b>	-3%	-2%	-2%	+5%	+23%	+11%	0%	+13%	+29%	+8%		
DJF	-8%	-3%	-4%	-86%	+49%	+8%	-1%	+26%	-80%	+55%		V3.2
MAM	-4%	-2%	-4%	-82%	+9%	+13%	+1%	+26%	-77%	+6%		
JJA	-6%	-1%	+6%	-70%	+37%	+1%	+2%	+43%	-55%	+32%		
SON	+7%	-2%	+6%	-77%	+69%	+25%	0%	+42%	-54%	+70%		
<b>Average</b>	-3%	-2%	0%	-80%	+31%	+11%	1%	+34%	-69%	+29%		
DJF	-8%	-3%	-24%	-38%	+60%	+8%	-1%	+8%	-18%	+68%		V3.3
MAM	-4%	-4%	-23%	-36%	+6%	+13%	-1%	+9%	-15%	+4%		
JJA	-6%	-4%	-24%	+22%	-3%	+1%	0%	+17%	+81%	-5%		
SON	+7%	-3%	-22%	+19%	+35%	+25%	0%	+17%	+112%	+40%		
<b>Average</b>	-3%	-2%	-2%	+5%	+23%	+11%	0%	+13%	+29%	+8%		
DJF	-8%	-3%	-27%	-9%	+53%	+8%	-1%	+3%	+32%	+62%		V3.4
MAM	-4%	0%	-23%	+42%	-15%	+13%	+2%	+8%	+85%	-13%		
JJA	-6%	-6%	-24%	+84%	+20%	+1%	-3%	+14%	+160%	+16%		
SON	+7%	-4%	-27%	-13%	+28%	+25%	-1%	+10%	+101%	+34%		
<b>Average</b>	-3%	-3%	-23%	-14%	+8%	+11%	0%	+13%	+29%	+8%		
DJF	-8%	-3%	-18%	-9%	+53%	+8%	-1%	+14%	+33%	+62%		V3.5
MAM	-4%	+1%	-15%	+46%	-8%	+13%	+3%	+17%	+93%	-8%		
JJA	-6%	-4%	-11%	+116%	+28%	+1%	-1%	+30%	+197%	+26%		
SON	+7%	-3%	-14%	+1%	+33%	+25%	0%	+25%	+112%	+39%		
<b>Average</b>	-3%	-2%	-15%	+29%	+16%	+11%	0%	+21%	+95%	+17%		
DJF	-8%	-3%	-21%	-23%	+58%	+8%	-1%	+11%	+2%	+67%		V3.6
MAM	-4%	-2%	-20%	+14%	+5%	+13%	0%	+13%	+51%	+3%		
JJA	-6%	-5%	-18%	+62%	+14%	+1%	-1%	+23%	+126%	+12%		
SON	+7%	-3%	-18%	-13%	+35%	+25%	0%	+22%	+64%	+41%		
<b>Average</b>	-3%	-3%	-19%	+4%	+16%	+11%	0%	+17%	+50%	+15%		
DJF	-8%	-9%	-35%	-83%	+49%	+8%	-4%	-3%	-76%	+56%		V3.7
MAM	-4%	-7%	-33%	-78%	+5%	+13%	-1%	0%	-72%	+4%		
JJA	-6%	-13%	-34%	-64%	+29%	+1%	-6%	+9%	-43%	+26%		
SON	+7%	-14%	-34%	-71%	+62%	+25%	-7%	+7%	-44%	+66%		
<b>Average</b>	-3%	-11%	-34%	-76%	+26%	+11%	-5%	+3%	-62%	+24%		

**Table S11.** Comparison of average water flowout from the selected sub-catchments (1, 4, 9, 10, 22, 31) by season between Variant 1 (V1 - BaU) and Variants 2.1 and 3.1 for the years 2041-2050 in the Bystra catchment for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate outflow ( $\text{m}^3/\text{s}$ ) and shaded numbers indicate percentage change. Shade of red indicates % decrease in content and shade of blue indicates % increase in content (author's own elaboration).

Climate scenario		RCP 4.5					RCP 8.5					
Time interval		2041-2050			RCP 4.5		2041-2050			RCP 8.5		
Type of scenario												
Season		Flow out [ $\text{m}^3/\text{s}$ ] - subbasin 1					Season	Flow out [ $\text{m}^3/\text{s}$ ] - subbasin 4				
DJF	0.07	0.07 +7.4%	0.07 0.0%	0.10	0.10 +7.5%	0.10 0.0%	DJF	0.19 +5.1%	0.20 0.0%	0.19 0.0%	0.28 +5.0%	0.27 0.0%
MAM	0.07	0.07 -1.4%	0.07 0.0%	0.10	0.09 -2.1%	0.10 0.0%	MAM	0.19 -0.5%	0.19 0.0%	0.19 0.0%	0.26 -0.9%	0.26 0.0%
JJA	0.06	0.06 -3.2%	0.06 0.0%	0.09	0.09 -2.9%	0.09 0.0%	JJA	0.17 -2.0%	0.16 0.0%	0.17 0.0%	0.24 -2.1%	0.24 0.0%
SON	0.06	0.06 -1.6%	0.06 0.0%	0.09	0.09 -1.7%	0.09 0.0%	SON	0.17 -1.9%	0.17 0.0%	0.17 0.0%	0.26 -1.8%	0.26 0.0%
Average annual	0.07	0.07 +0.4%	0.07 0.0%	0.09	0.09 +0.3%	0.09 0.0%	Average annual	0.18 +0.3%	0.18 0.0%	0.18 0.0%	0.26 +0.1%	0.26 0.0%
Climate scenario	RCP 4.5	RCP 8.5					Climate scenario	RCP 4.5				
Time interval		2041-2050					Time interval	2041-2050				
Type of scenario												
Season		Flow out [ $\text{m}^3/\text{s}$ ] - subbasin 9					Season	Flow out [ $\text{m}^3/\text{s}$ ] - subbasin 10				
DJF	0.61	0.64 +5.0%	0.61 +0.9%	0.86	0.90 +5.1%	0.87 +0.9%	DJF	0.21 +6.1%	0.22 0.0%	0.21 0.0%	0.31 +6.4%	0.29 0.0%
MAM	0.60	0.60 -0.7%	0.60 +0.5%	0.84	0.83 -0.7%	0.84 +0.7%	MAM	0.20 -1.3%	0.20 0.0%	0.20 0.0%	0.27 -1.8%	0.27 0.0%
JJA	0.54	0.53 -2.0%	0.54 +0.2%	0.79	0.77 -1.7%	0.79 +0.3%	JJA	0.17 -2.9%	0.17 0.0%	0.26 0.0%	0.25 -2.8%	0.26 0.0%
SON	0.56	0.55 -2.3%	0.56 +0.9%	0.84	0.82 -2.3%	0.84 +1.1%	SON	0.19 -2.4%	0.18 0.0%	0.19 0.0%	0.27 -2.3%	0.27 0.0%
Average annual	0.58	0.58 +0.1%	0.58 +0.6%	0.83	0.83 +0.2%	0.84 +0.8%	Average annual	0.19 +0.1%	0.19 0.0%	0.19 0.0%	0.28 +0.0%	0.28 0.0%
Climate scenario	RCP 4.5	RCP 8.5					Climate scenario	RCP 4.5				
Time interval		2041-2050					Time interval	2041-2050				
Type of scenario												
Season		Flow out [ $\text{m}^3/\text{s}$ ] - subbasin 22					Season	Flow out [ $\text{m}^3/\text{s}$ ] - subbasin 31				
DJF	1.19	1.23 +3.4%	1.20 +0.7%	1.66	1.69 +2.0%	1.68 +1.3%	DJF	1.55 +4.6%	1.62 +2.0%	1.58 +2.0%	2.21 +1.8%	2.25 +1.6%
MAM	1.21	1.22 1.0%	1.22 +0.9%	1.72	1.74 1.3%	1.72 +0.4%	MAM	1.62 -0.1%	1.62 +0.9%	1.63 +0.4%	2.25 +0.4%	2.26 0.0%
JJA	1.10	1.08 -1.7%	1.11 +0.6%	1.63	1.60 -1.7%	1.60 +0.9%	JJA	1.44 -1.8%	1.42 +0.1%	1.44 +1.0%	2.17 -1.0%	2.15 +1.0%
SON	1.11	1.07 -3.0%	1.11 +0.6%	1.64	1.61 -1.6%	1.64 +0.6%	SON	1.45 -3.2%	1.40 +0.8%	1.46 +0.8%	2.14 -1.5%	2.11 +1.6%
Average annual	1.15	1.15 0.0%	1.16 +0.7%	1.66	1.66 +0.1%	1.67 +0.8%	Average annual	1.51 -0.1%	1.51 +0.9%	1.53 +0.9%	2.19 0.0%	2.19 +1.0%

**Table S12.** Comparison of average sediment outflow from the selected sub-catchments (1, 4, 9, 10, 22, 31) by season between Variant 1 (V1 - BaU) and Variants 2.1 and 3.1 for the years 2041-2050 in the Bystra catchment for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate sediment outflow (metric tonnes) and shaded numbers indicate percentage change. Shade of red indicates % decrease in content and shade of blue indicates % increase in content (author's own elaboration).

Climate scenario		RCP 4.5				RCP 8.5		Climate scenario		RCP 4.5				RCP 8.5	
Time interval		2041-2050						Time interval		2041-2050					
Type of scenario								Type of scenario							
Season		Sediment outflow [metric tons] - subbasin 1						Season		Sediment outflow [metric tons] - subbasin 4					
DJF	156	126 -20%	156 0%	194	156 -20%	194 0%		DJF	187	159 -15%	187 0%	256	218 -15%	256 0%	
MAM	133	106 -20%	133 0%	184	147 -20%	184 0%		MAM	172	147 -15%	172 0%	257	216 -16%	257 0%	
JJA	124	99 -20%	124 0%	196	157 -20%	196 0%		JJA	206	176 -15%	206 0%	323	278 -14%	323 0%	
SON	212	169 -20%	212 0%	287	229 -20%	287 0%		SON	299	254 -15%	299 0%	414	353 -15%	414 0%	
Total annual	625	500 -20%	625 0%	860	689 -20%	860 0%		Total annual	864	736 -15%	864 0%	1250	1064 -15%	1250 0%	
Climate scenario		RCP 4.5				RCP 8.5		Climate scenario		RCP 4.5				RCP 8.5	
Time interval		2041-2050						Time interval		2041-2050					
Type of scenario								Type of scenario							
Season		Sediment outflow [metric tons] - subbasin 9						Season		Sediment outflow [metric tons] - subbasin 10					
DJF	184	198 +7%	187 +1%	291	311 +7%	294 +1%		DJF	701	590 -16%	701 0%	939	792 -16%	939 0%	
MAM	188	187 -1%	189 +1%	288	285 -1%	291 +1%		MAM	637	534 -16%	637 0%	853	717 -16%	853 0%	
JJA	163	159 -2%	163 +1%	266	261 -2%	267 +1%		JJA	712	598 -16%	712 0%	1040	871 -16%	1039 0%	
SON	169	164 -3%	171 +1%	287	278 -3%	291 +2%		SON	979	822 -16%	979 0%	1571	1318 -16%	1571 0%	
Total annual	704	707 0%	711 +1%	1131	1135 0%	1143 +1%		Total annual	3029	2544 -16%	3029 0%	4402	3698 -16%	4402 0%	
Climate scenario		RCP 4.5				RCP 8.5		Climate scenario		RCP 4.5				RCP 8.5	
Time interval		2041-2050						Time interval		2041-2050					
Type of scenario								Type of scenario							
Season		Sediment outflow [metric tons] - subbasin 22						Season		Sediment outflow [metric tons] - subbasin 31					
DJF	418	430 +3%	420 +1%	564	566 0%	568 +1%		DJF	566	542 -4%	327 -42%	814	732 -10%	535 -34%	
MAM	439	444 +1%	443 +1%	605	614 +1%	603 0%		MAM	607	548 -10%	320 -47%	833	729 -13%	511 -39%	
JJA	391	383 -2%	395 +1%	586	577 -1%	588 0%		JJA	522	471 -10%	282 -46%	772	716 -7%	479 -38%	
SON	392	376 -4%	396 +1%	574	574 0%	573 0%		SON	547	461 -16%	308 -44%	841	689 -18%	560 -33%	
Total annual	1639	1634 0%	1653 +1%	2329	2330 0%	2333 0%		Total annual	2241	2022 -10%	1237 -45%	3260	2865 -12%	2084 -36%	

**Table S13.** Comparison of mean actual evapotranspiration in the selected sub-catchment (1, 4, 9, 10, 22, 31) by season between Variant 1 (V1 - BaU) and Variants 2.1 and 3.1 for the years 2041-2050 in the Bystra catchment for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate actual evapotranspiration (mm) and shaded numbers indicate percentage change. Shade of red indicates % decrease in content and shade of blue indicates % increase in content (author's own elaboration).

Climate scenario		RCP 4.5				RCP 8.5		Climate scenario		RCP 4.5				RCP 8.5			
Time interval		2041-2050						Time interval		2041-2050							
Type of scenario								Type of scenario									
Season		Actual evapotranspiration [mm] - subbasin 1						Season		Actual evapotranspiration [mm] - subbasin 4							
DJF	29.0	29.0	29.0	30.5	30.5	0.00%	0.00%	DJF	29.0	29.0	29.0	30.5	30.5	0.00%	0.00%		
MAM	154.8	154.8	154.8	151.6	151.6	0.00%	0.00%	MAM	154.8	154.8	154.8	151.5	151.5	0.00%	0.00%		
JJA	151.6	151.6	151.6	149.7	149.7	0.00%	0.00%	JJA	151.6	151.6	151.6	149.7	149.7	0.00%	0.00%		
SON	66.8	66.8	66.8	70.0	70.0	0.00%	0.00%	SON	66.9	66.9	66.9	70.0	70.0	0.00%	0.00%		
Total annual	402.2	402.2	402.2	401.8	401.8	0.00%	0.00%	Total annual	402.3	402.3	402.3	401.7	401.7	0.00%	0.00%		
Climate scenario	RCP 4.5				RCP 8.5				Climate scenario	RCP 4.5				RCP 8.5			
Time interval		2041-2050						Time interval		2041-2050							
Type of scenario								Type of scenario									
Season		Actual evapotranspiration [mm] - subbasin 9						Season		Actual evapotranspiration [mm] - subbasin 10							
DJF	28.0	27.9 -0.10%	28.0 +0.04%	29.5	29.5 -0.09%	29.5 +0.03%	Variant 3 - low retention more reservoirs - cereals (V3.1)	DJF	28.6 0.00%	28.6 0.00%	30.1	30.1 0.00%	30.1 0.00%	Variant 3 - low retention more reservoirs cereals (V3.1)	DJF	28.6 0.00%	28.6 0.00%
MAM	143.5	143.2 -0.21%	143.6 +0.08%	141.8	141.5 -0.19%	141.9 +0.07%	Variant 2 - low retention more ponds - cereals (V2.1)	MAM	149.6 0.01%	149.6 0.00%	146.6	146.6 0.01%	146.6 0.00%	Variant 2 - low retention more ponds cereals (V2.1)	MAM	149.6 0.01%	149.6 0.00%
JJA	172.2	172.8 +0.33%	172.0 -0.12%	168.2	168.7 +0.30%	168.0 -0.11%	Variant 1 only climate change (V1)	JJA	144.1 0.01%	144.1 0.00%	140.1	140.1 0.01%	140.1 0.00%	Variant 1 only climate change (V1)	JJA	144.1 0.01%	144.1 0.00%
SON	68.9	68.9 +0.08%	68.8 -0.03%	71.5	71.6 +0.06%	71.5 -0.02%	Variant 3 - low retention more reservoirs cereals (V3.1)	SON	64.6 0.01%	64.6 0.00%	67.3	67.3 0.01%	67.3 0.00%	Variant 2 - low retention more ponds cereals (V2.1)	SON	64.6 0.01%	64.6 0.00%
Total annual	412.5	412.8 +0.07%	412.4 -0.02%	411.0	411.3 +0.06%	410.9 -0.02%	Variant 1 only climate change (V1)	Total annual	387.0 0.01%	387.0 0.00%	384.1	384.1 0.01%	384.1 0.00%	Variant 1 only climate change (V1)	Total annual	387.0 0.01%	387.0 0.00%
Climate scenario	RCP 4.5				RCP 8.5				Climate scenario	RCP 4.5				RCP 8.5			
Time interval		2041-2050						Time interval		2041-2050							
Type of scenario								Type of scenario									
Season		Actual evapotranspiration [mm] - subbasin 22						Season		Actual evapotranspiration [mm] - subbasin 31							
DJF	23.9	23.9 0.00%	23.9 0.00%	25.2	25.2 0.00%	25.2 0.00%	Variant 3 - low retention more reservoirs - cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%	26.9	26.9 -0.14%	26.9 -0.11%	Variant 3 - low retention more reservoirs cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%
MAM	117.8	117.8 0.00%	117.8 0.00%	120.2	120.2 0.00%	120.2 0.00%	Variant 2 - low retention more ponds - cereals (V2.1)	MAM	137.1 -0.33%	136.7 -0.26%	136.7	136.3 -0.28%	136.4 -0.22%	Variant 2 - low retention more ponds cereals (V2.1)	MAM	137.1 -0.33%	136.7 -0.26%
JJA	211.7	211.7 0.00%	211.7 0.00%	204.6	204.6 0.00%	204.6 0.00%	Variant 1 only climate change (V1)	JJA	176.5 +0.47%	177.4 +0.37%	172.3	173.1 +0.45%	172.9 +0.35%	Variant 1 only climate change (V1)	JJA	176.5 +0.47%	177.4 +0.37%
SON	69.1	69.1 0.00%	69.1 0.00%	70.5	70.5 0.00%	70.5 0.00%	Variant 3 - low retention more reservoirs cereals (V3.1)	SON	65.8 +0.12%	65.9 +0.09%	68.0	68.1 +0.09%	68.1 +0.07%	Variant 1 only climate change (V1)	SON	65.8 +0.12%	65.9 +0.09%
Total annual	422.6	422.6 0.00%	422.6 0.00%	420.5	420.5 0.00%	420.5 0.00%	Variant 2 - low retention more ponds cereals (V2.1)	Total annual	405.0 +0.10%	405.4 +0.08%	404.0	404.4 +0.10%	404.3 +0.08%	Variant 1 only climate change (V1)	Total annual	405.0 +0.10%	405.4 +0.08%
Climate scenario	RCP 4.5				RCP 8.5				Climate scenario	RCP 4.5				RCP 8.5			
Time interval		2041-2050						Time interval		2041-2050							
Type of scenario								Type of scenario									
Season		Actual evapotranspiration [mm] - subbasin 22						Season		Actual evapotranspiration [mm] - subbasin 31							
DJF	23.9	23.9 0.00%	23.9 0.00%	25.2	25.2 0.00%	25.2 0.00%	Variant 3 - low retention more reservoirs - cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%	26.9	26.9 -0.14%	26.9 -0.11%	Variant 3 - low retention more reservoirs cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%
MAM	117.8	117.8 0.00%	117.8 0.00%	120.2	120.2 0.00%	120.2 0.00%	Variant 2 - low retention more ponds - cereals (V2.1)	MAM	137.1 -0.33%	136.7 -0.26%	136.7	136.3 -0.28%	136.4 -0.22%	Variant 2 - low retention more ponds cereals (V2.1)	MAM	137.1 -0.33%	136.7 -0.26%
JJA	211.7	211.7 0.00%	211.7 0.00%	204.6	204.6 0.00%	204.6 0.00%	Variant 1 only climate change (V1)	JJA	176.5 +0.47%	177.4 +0.37%	172.3	173.1 +0.45%	172.9 +0.35%	Variant 1 only climate change (V1)	JJA	176.5 +0.47%	177.4 +0.37%
SON	69.1	69.1 0.00%	69.1 0.00%	70.5	70.5 0.00%	70.5 0.00%	Variant 3 - low retention more reservoirs cereals (V3.1)	SON	65.8 +0.12%	65.9 +0.09%	68.0	68.1 +0.09%	68.1 +0.07%	Variant 1 only climate change (V1)	SON	65.8 +0.12%	65.9 +0.09%
Total annual	422.6	422.6 0.00%	422.6 0.00%	420.5	420.5 0.00%	420.5 0.00%	Variant 2 - low retention more ponds cereals (V2.1)	Total annual	405.0 +0.10%	405.4 +0.08%	404.0	404.4 +0.10%	404.3 +0.08%	Variant 1 only climate change (V1)	Total annual	405.0 +0.10%	405.4 +0.08%
Climate scenario	RCP 4.5				RCP 8.5				Climate scenario	RCP 4.5				RCP 8.5			
Time interval		2041-2050						Time interval		2041-2050							
Type of scenario								Type of scenario									
Season		Actual evapotranspiration [mm] - subbasin 22						Season		Actual evapotranspiration [mm] - subbasin 31							
DJF	23.9	23.9 0.00%	23.9 0.00%	25.2	25.2 0.00%	25.2 0.00%	Variant 3 - low retention more reservoirs - cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%	26.9	26.9 -0.14%	26.9 -0.11%	Variant 3 - low retention more reservoirs cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%
MAM	117.8	117.8 0.00%	117.8 0.00%	120.2	120.2 0.00%	120.2 0.00%	Variant 2 - low retention more ponds - cereals (V2.1)	MAM	137.1 -0.33%	136.7 -0.26%	136.7	136.3 -0.28%	136.4 -0.22%	Variant 2 - low retention more ponds cereals (V2.1)	MAM	137.1 -0.33%	136.7 -0.26%
JJA	211.7	211.7 0.00%	211.7 0.00%	204.6	204.6 0.00%	204.6 0.00%	Variant 1 only climate change (V1)	JJA	176.5 +0.47%	177.4 +0.37%	172.3	173.1 +0.45%	172.9 +0.35%	Variant 1 only climate change (V1)	JJA	176.5 +0.47%	177.4 +0.37%
SON	69.1	69.1 0.00%	69.1 0.00%	70.5	70.5 0.00%	70.5 0.00%	Variant 3 - low retention more reservoirs cereals (V3.1)	SON	65.8 +0.12%	65.9 +0.09%	68.0	68.1 +0.09%	68.1 +0.07%	Variant 1 only climate change (V1)	SON	65.8 +0.12%	65.9 +0.09%
Total annual	422.6	422.6 0.00%	422.6 0.00%	420.5	420.5 0.00%	420.5 0.00%	Variant 2 - low retention more ponds cereals (V2.1)	Total annual	405.0 +0.10%	405.4 +0.08%	404.0	404.4 +0.10%	404.3 +0.08%	Variant 1 only climate change (V1)	Total annual	405.0 +0.10%	405.4 +0.08%
Climate scenario	RCP 4.5				RCP 8.5				Climate scenario	RCP 4.5				RCP 8.5			
Time interval		2041-2050						Time interval		2041-2050							
Type of scenario								Type of scenario									
Season		Actual evapotranspiration [mm] - subbasin 22						Season		Actual evapotranspiration [mm] - subbasin 31							
DJF	23.9	23.9 0.00%	23.9 0.00%	25.2	25.2 0.00%	25.2 0.00%	Variant 3 - low retention more reservoirs - cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%	26.9	26.9 -0.14%	26.9 -0.11%	Variant 3 - low retention more reservoirs cereals (V3.1)	DJF	25.6 -0.15%	25.5 -0.12%
MAM	117.8	117.8 0.00%	117.8 0.00%	120.2	120.2 0.00%	120.2 0.00%	Variant										

**Table S14.** Comparison of average soil water content in the selected sub-catchment (1, 4, 9, 10, 22, 31) by season between Variant 1 (V1 - BaU) and Variants 2.1 and 3.1 for the years 2041-2050 in the Bystra catchment for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate soil water content (mm) and shaded numbers indicate percentage change. Shade of red indicates % decrease in content and shade of blue indicates % increase in content (author's own elaboration).

Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5	
Time interval		2041-2050				Time interval		2041-2050			
Type of scenario						Type of scenario					
Season		Soil water content [mm] - subbasin 1				Season		Soil water content [mm] - subbasin 4			
DJF	355.3	355.3	355.3	357.7	357.7	DJF	355.3	355.3	357.7	357.7	357.7
	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
MAM	326.8	326.8	326.8	334.6	334.6	MAM	326.8	326.8	334.7	334.7	334.7
	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
JJA	319.0	319.0	319.0	329.9	329.9	JJA	319.0	319.0	330.0	330.0	330.0
	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
SON	342.9	342.9	342.9	348.6	348.6	SON	342.9	342.9	348.7	348.7	348.7
	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%
Average annual	336.0	336.0	336.0	342.7	342.7	Average annual	336.0	336.0	342.8	342.8	342.8
Climate scenario	RCP 4.5			RCP 8.5		Climate scenario	RCP 4.5		RCP 8.5		RCP 8.5
Time interval		2041-2050				Time interval		2041-2050			
Type of scenario						Type of scenario					
Season		Soil water content [mm] - subbasin 9				Season		Soil water content [mm] - subbasin 10			
DJF	336.2	335.7	336.4	340.6	340.2	DJF	287.1	287.4	287.2	289.3	289.5
	-0.16%	+0.05%		-0.14%	+0.04%		+0.08%	0.00%		+0.08%	0.00%
MAM	313.9	313.5	314.0	321.0	321.1	MAM	257.2	257.4	257.2	265.6	265.6
	-0.11%	+0.03%		-0.12%	+0.03%		+0.09%	0.00%		+0.09%	0.00%
JJA	297.4	296.8	297.6	308.0	307.4	JJA	248.5	248.8	248.6	261.0	261.0
	-0.20%	+0.06%		-0.20%	+0.06%		+0.09%	0.00%		+0.09%	0.00%
SON	320.0	319.4	320.2	328.3	327.7	SON	274.2	274.4	274.2	280.2	280.2
	-0.20%	+0.06%		-0.17%	+0.05%		+0.08%	0.003%		+0.08%	0.00%
Average annual	316.9	316.4	317.1	324.5	323.9	Average annual	266.8	267.0	266.8	274.0	274.0
Climate scenario	RCP 4.5			RCP 8.5		Climate scenario	RCP 4.5		RCP 8.5		RCP 8.5
Time interval		2041-2050				Time interval		2041-2050			
Type of scenario						Type of scenario					
Season		Soil water content [mm] - subbasin 22				Season		Soil water content [mm] - subbasin 31			
DJF	342.5	342.1	342.2	349.2	349.0	DJF	324.3	324.3	324.3	339.1	339.1
	-0.10%	-0.08%		-0.06%	-0.05%		0.00%	0.00%		0.00%	0.00%
MAM	321.9	321.8	321.9	331.0	330.9	MAM	315.5	315.5	315.5	327.1	327.1
	-0.02%	-0.01%		-0.02%	-0.01%		0.00%	0.00%		0.00%	0.00%
JJA	298.8	298.4	298.5	311.3	310.9	JJA	274.3	274.3	274.3	290.2	290.2
	-0.14%	-0.11%		-0.14%	-0.11%		0.00%	0.00%		0.00%	0.00%
SON	322.8	322.3	322.4	334.4	334.0	SON	292.6	292.6	292.6	314.5	314.5
	-0.17%	-0.13%		-0.12%	-0.09%		0.00%	0.000%		0.00%	0.00%
Average annual	321.5	321.2	321.2	331.5	331.2	Average annual	301.7	301.7	301.7	317.7	317.7
	-0.11%	-0.08%		-0.08%	-0.06%		0.00%	0.00%		0.00%	0.00%

**Table S15.** Comparison of mean total runoff in the selected sub-catchment (1, 4, 9, 10, 22, 31) by season between Variant 1 (V1 - BaU) and Variants 2.1 and 3.1 for the years 2041-2050 in the Bystra River catchment for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate total runoff (mm) and shaded numbers indicate percentage change. Shade of red indicates % decrease in content and shade of blue indicates % increase in content (author's own elaboration).

Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5							
Time interval		2041-2050				Time interval		2041-2050									
Type of scenario						Type of scenario											
Season		Total runoff [mm] - subbasin 1				Season	Total runoff [mm] - subbasin 4				Season	Total runoff [mm] - subbasin 10					
DJF	45.2	44.5 -1.55%	45.2 0.00%	63.4	62.4 -1.58%	63.4 0.00%	DJF	44.9 -0.76%	44.6 0.00%	63.3 -0.84%	62.8 0.00%	DJF	41.3 -1.16%	41.3 0.00%	58.7 -1.19%	58.0 0.00%	58.7 0.00%
MAM	44.2	43.5 -1.66%	44.2 0.00%	61.8	60.8 -1.67%	61.8 0.00%	MAM	44.1 -0.88%	43.7 0.00%	61.5 -0.87%	61.0 0.00%	MAM	41.3 -1.28%	41.3 0.00%	57.2 -1.26%	56.5 0.00%	57.2 0.00%
JJA	39.0	37.8 -3.19%	39.0 0.00%	58.9	57.1 -3.09%	58.9 0.00%	JJA	38.5 -1.90%	37.8 0.00%	58.2 -1.85%	57.1 0.00%	JJA	35.3 -2.43%	34.4 0.00%	53.0 -2.27%	51.8 0.00%	53.0 0.00%
SON	42.1	41.1 -2.31%	42.1 0.00%	61.5	60.2 -2.17%	61.5 0.00%	SON	41.9 -1.34%	41.3 0.00%	61.3 -1.25%	60.6 0.00%	SON	38.0 -1.73%	37.4 0.00%	56.5 -1.78%	55.5 0.00%	55.5 0.00%
Total annual	170.4	166.8 -2.14%	170.4 0.00%	245.7	240.5 -2.11%	245.7 0.00%	Total annual	169.4 -1.19%	167.4 0.00%	244.3 -1.19%	241.4 0.00%	Total annual	156.4 -1.62%	153.8 0.00%	225.4 -1.61%	221.8 0.00%	225.4 0.00%
Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5	
Time interval		2041-2050				Time interval		2041-2050				Time interval		2041-2050			
Type of scenario						Type of scenario						Type of scenario					
Season		Total runoff [mm] - subbasin 9				Season		Total runoff [mm] - subbasin 10				Season		Total runoff [mm] - subbasin 31			
DJF	42.3	41.9 -0.96%	42.3 +0.06%	60.5	59.9 -0.96%	60.5 +0.05%	DJF	41.8 -1.16%	41.3 0.00%	58.7 -1.19%	58.0 0.00%	DJF	32.5 -8.38%	32.5 0.00%	47.8 -7.83%	51.9 0.00%	51.9 0.00%
MAM	41.8	41.4 -1.05%	41.9 +0.05%	59.3	58.8 -0.95%	59.4 +0.04%	MAM	41.3 -1.28%	40.8 0.00%	57.2 -1.26%	56.5 0.00%	MAM	34.0 -8.99%	34.0 0.00%	47.9 -8.02%	52.0 0.00%	52.0 0.00%
JJA	36.6	36.0 -1.82%	36.6 +0.05%	56.2	55.3 -1.68%	56.3 +0.04%	JJA	35.3 -2.43%	34.4 0.00%	53.0 -2.27%	51.8 0.00%	JJA	24.3 -8.59%	22.2 0.00%	38.7 -7.06%	41.6 0.00%	41.6 0.00%
SON	39.1	38.6 -1.40%	39.1 +0.07%	58.5	57.7 -1.30%	58.5 +0.05%	SON	38.0 -1.73%	37.4 0.00%	56.5 -1.78%	55.5 0.00%	SON	27.2 -8.85%	24.8 0.00%	43.9 -8.21%	47.9 0.00%	47.9 0.00%
Total annual	159.9	157.8 -1.29%	160.0 +0.06%	234.6	231.7 -1.22%	234.7 +0.04%	Total annual	156.4 -1.62%	153.8 0.00%	225.4 -1.61%	221.8 0.00%	Total annual	118.0 -8.71%	107.7 0.00%	193.4 -7.81%	178.3 0.00%	193.4 0.00%
Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5	
Time interval		2041-2050				Time interval		2041-2050				Time interval		2041-2050			
Type of scenario						Type of scenario						Type of scenario					
Season		Total runoff [mm] - subbasin 22				Season		Total runoff [mm] - subbasin 31				Season		Total runoff [mm] - subbasin 10			
DJF	37.4	36.6 -2.09%	37.3 -0.23%	53.9	52.8 -2.09%	53.8 -0.16%	DJF	32.5 -8.38%	29.8 0.00%	32.5 -7.83%	47.8 0.00%	DJF	34.0 -8.99%	30.9 0.00%	51.9 -8.02%	47.9 0.00%	52.0 0.00%
MAM	37.9	37.0 -2.41%	37.8 -0.19%	53.5	52.4 -2.17%	53.5 -0.12%	MAM	24.3 -8.59%	22.2 0.00%	24.3 -7.06%	38.7 0.00%	MAM	27.2 -8.85%	24.8 0.00%	41.6 -8.21%	43.9 0.00%	47.9 0.00%
JJA	30.9	30.0 -2.93%	30.8 -0.23%	47.6	46.4 -2.51%	47.6 -0.17%	JJA	24.3 -8.59%	22.2 0.00%	24.3 -7.06%	38.7 0.00%	JJA	27.2 -8.85%	24.8 0.00%	41.6 -8.21%	43.9 0.00%	47.9 0.00%
SON	33.5	32.6 -2.61%	33.4 -0.24%	51.1	49.8 -2.62%	51.0 -0.18%	SON	27.2 -8.85%	24.8 0.00%	27.2 -8.21%	41.6 0.00%	SON	118.0 -8.71%	107.7 0.00%	178.3 -7.81%	193.4 0.00%	193.4 0.00%
Total annual	139.7	136.2 -2.49%	139.4 -0.22%	206.2	201.4 -2.34%	205.9 -0.16%	Total annual	118.0 -8.71%	118.0 0.00%	193.4 -7.81%	193.4 0.00%	Total annual					
Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5	
Time interval						Time interval						Time interval					
Type of scenario						Type of scenario						Type of scenario					
Season		Total runoff [mm] - subbasin 22				Season		Total runoff [mm] - subbasin 31				Season		Total runoff [mm] - subbasin 10			
DJF	37.4	36.6 -2.09%	37.3 -0.23%	53.9	52.8 -2.09%	53.8 -0.16%	DJF	32.5 -8.38%	29.8 0.00%	32.5 -7.83%	47.8 0.00%	DJF	34.0 -8.99%	30.9 0.00%	51.9 -8.02%	47.9 0.00%	52.0 0.00%
MAM	37.9	37.0 -2.41%	37.8 -0.19%	53.5	52.4 -2.17%	53.5 -0.12%	MAM	24.3 -8.59%	22.2 0.00%	24.3 -7.06%	38.7 0.00%	MAM	27.2 -8.85%	24.8 0.00%	41.6 -8.21%	43.9 0.00%	47.9 0.00%
JJA	30.9	30.0 -2.93%	30.8 -0.23%	47.6	46.4 -2.51%	47.6 -0.17%	JJA	24.3 -8.59%	22.2 0.00%	24.3 -7.06%	38.7 0.00%	JJA	27.2 -8.85%	24.8 0.00%	41.6 -8.21%	43.9 0.00%	47.9 0.00%
SON	33.5	32.6 -2.61%	33.4 -0.24%	51.1	49.8 -2.62%	51.0 -0.18%	SON	27.2 -8.85%	24.8 0.00%	27.2 -8.21%	41.6 0.00%	SON	118.0 -8.71%	107.7 0.00%	178.3 -7.81%	193.4 0.00%	193.4 0.00%
Total annual	139.7	136.2 -2.49%	139.4 -0.22%	206.2	201.4 -2.34%	205.9 -0.16%	Total annual	118.0 -8.71%	118.0 0.00%	193.4 -7.81%	193.4 0.00%	Total annual					
Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5	
Time interval						Time interval						Time interval					
Type of scenario						Type of scenario						Type of scenario					
Season		Total runoff [mm] - subbasin 22				Season		Total runoff [mm] - subbasin 31				Season		Total runoff [mm] - subbasin 10			
DJF	37.4	36.6 -2.09%	37.3 -0.23%	53.9	52.8 -2.09%	53.8 -0.16%	DJF	32.5 -8.38%	29.8 0.00%	32.5 -7.83%	47.8 0.00%	DJF	34.0 -8.99%	30.9 0.00%	51.9 -8.02%	47.9 0.00%	52.0 0.00%
MAM	37.9	37.0 -2.41%	37.8 -0.19%	53.5	52.4 -2.17%	53.5 -0.12%	MAM	24.3 -8.59%	22.2 0.00%	24.3 -7.06%	38.7 0.00%	MAM	27.2 -8.85%	24.8 0.00%	41.6 -8.21%	43.9 0.00%	47.9 0.00%
JJA	30.9	30.0 -2.93%	30.8 -0.23%	47.6	46.4 -2.51%	47.6 -0.17%	JJA	24.3 -8.59%	22.2 0.00%	24.3 -7.06%	38.7 0.00%	JJA	27.2 -8.85%	24.8 0.00%	41.6 -8.21%	43.9 0.00%	47.9 0.00%
SON	33.5	32.6 -2.61%	33.4 -0.24%	51.1	49.8 -2.62%	51.0 -0.18%	SON	27.2 -8.85%	24.8 0.00%	27.2 -8.21%	41.6 0.00%	SON	118.0 -8.71%	107.7 0.00%	178.3 -7.81%	193.4 0.00%	193.4 0.00%
Total annual	139.7	136.2 -2.49%	139.4 -0.22%	206.2	201.4 -2.34%	205.9 -0.16%	Total annual	118.0 -8.71%	118.0 0.00%	193.4 -7.81%	193.4 0.00%	Total annual					
Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5	
Time interval						Time interval						Time interval					
Type of scenario						Type of scenario						Type of scenario					

**Table S16.** Comparison of average sediment yield in the selected sub-catchment (1, 4, 9, 10, 22, 31) by season between Variant 1 (V1 - BaU) and Variants 2.1 and 3.1 for 2041-2050 in the Bystra catchment for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate sediment yield (t/ha) and shaded numbers indicate percentage change. Shade of red indicates % decrease in content and shade of blue indicates % increase in content (author's own elaboration).

Climate scenario		RCP 4.5					Climate scenario		RCP 4.5					RCP 8.5								
Time interval		2041-2050					Time interval		2041-2050					Time interval		2041-2050						
Type of scenario							Type of scenario							Type of scenario								
Season		Sediment yield [t/ha] - subbasin 1					Season		Sediment yield [t/ha] - subbasin 4					Season		Sediment yield [t/ha] - subbasin 10						
DJF	0.14	0.11 -19.67%	0.14 0.00%	0.17 -19.53%	0.14 0.00%	0.17 -19.53%	Variant 3 - low retention more reservoirs - cereals (V3.1)		DJF	0.06 -15.2%	0.06 0.00%	0.08 -15.2%	0.07 0.00%	0.08 -15.2%	RCP 4.5		Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)	
MAM	0.12	0.09 -19.93%	0.12 0.00%	0.16 -20.08%	0.13 0.00%	0.16 -20.08%	Variant 2 - low retention more ponds - cereals (V2.1)		MAM	0.06 -15.8%	0.06 0.00%	0.08 -15.9%	0.07 0.00%	0.08 -15.9%	RCP 4.5		Variant 2 - low retention more ponds - cereals (V2.1)		Variant 2 - low retention more ponds - cereals (V2.1)		Variant 2 - low retention more ponds - cereals (V2.1)	
JJA	0.11	0.09 -20.01%	0.11 0.00%	0.17 -20.03%	0.14 0.00%	0.17 -20.03%	Variant 1 only climate change (V1)		JJA	0.07 -15.9%	0.07 0.00%	0.11 -15.7%	0.09 0.00%	0.11 -15.7%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
SON	0.19	0.15 -19.92%	0.19 0.00%	0.25 -19.99%	0.20 0.00%	0.25 -19.99%	Variant 1 only climate change (V1)		SON	0.10 -15.8%	0.10 0.00%	0.14 -15.8%	0.12 0.00%	0.14 -15.8%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
Total annual	0.55	0.44 -19.88%	0.55 0.00%	0.76 -19.92%	0.61 0.00%	0.76 -19.92%	Variant 1 only climate change (V1)		Total annual	0.28 -15.7%	0.28 0.00%	0.41 -15.7%	0.35 0.00%	0.41 -15.7%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
Climate scenario		RCP 4.5					Variant 3 - low retention more reservoirs - cereals (V3.1)		Climate scenario		RCP 4.5					Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)
Time interval		2041-2050					Variant 2 - low retention more ponds - cereals (V2.1)		Time interval		2041-2050					Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)
Type of scenario							Variant 1 only climate change (V1)		Type of scenario							Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)
Season		Sediment yield [t/ha] - subbasin 9					Variant 3 - low retention more reservoirs - cereals (V3.1)		Season		Sediment yield [t/ha] - subbasin 10					Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)		Variant 3 - low retention more reservoirs - cereals (V3.1)
DJF	0.16	0.13 -16.30%	0.16 +0.40%	0.19 -16.24%	0.16 +0.53%	0.19 -16.24%	Variant 2 - low retention more ponds - cereals (V2.1)		DJF	0.20 -15.70%	0.20 -0.02%	0.27 -15.72%	0.23 0.00%	0.27 -15.72%	RCP 4.5		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)	
MAM	0.13	0.11 -16.59%	0.13 +0.63%	0.18 -16.47%	0.15 +0.53%	0.18 -16.47%	Variant 1 only climate change (V1)		MAM	0.18 -16.05%	0.18 0.00%	0.25 -15.98%	0.21 0.00%	0.25 -15.98%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
JJA	0.13	0.11 -16.55%	0.13 +0.76%	0.20 -16.49%	0.17 +0.54%	0.20 -16.49%	Variant 3 - low retention more reservoirs cereals (V3.1)		JJA	0.21 -16.01%	0.21 0.00%	0.30 -16.07%	0.25 -0.01%	0.30 -16.07%	RCP 4.5		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)	
SON	0.22	0.19 -16.46%	0.22 +0.56%	0.30 -16.51%	0.25 +0.50%	0.30 -16.51%	Variant 1 only climate change (V1)		SON	0.28 -16.03%	0.28 -0.01%	0.45 -16.10%	0.38 -0.01%	0.45 -16.10%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
Total annual	0.64	0.53 -16.47%	0.64 +0.57%	0.88 -16.44%	0.73 +0.52%	0.88 -16.44%	Variant 1 only climate change (V1)		Total annual	0.87 -15.95%	0.87 -0.01%	1.27 -15.99%	1.07 -0.01%	1.27 -15.99%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
Climate scenario		RCP 4.5					Variant 3 - low retention more reservoirs cereals (V3.1)		Climate scenario		RCP 4.5					Variant 3 - low retention more reservoirs cereals (V3.1)		Variant 3 - low retention more reservoirs cereals (V3.1)		Variant 3 - low retention more reservoirs cereals (V3.1)		Variant 3 - low retention more reservoirs cereals (V3.1)
Time interval		2041-2050					Variant 2 - low retention more ponds cereals (V2.1)		Time interval		2041-2050					Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)
Type of scenario							Variant 1 only climate change (V1)		Type of scenario							Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)
Season		Sediment yield [t/ha] - subbasin 22					Variant 3 - low retention more reservoirs cereals (V3.1)		Season		Sediment yield [t/ha] - subbasin 31					Variant 3 - low retention more reservoirs cereals (V3.1)		Variant 3 - low retention more reservoirs cereals (V3.1)		Variant 3 - low retention more reservoirs cereals (V3.1)		Variant 3 - low retention more reservoirs cereals (V3.1)
DJF	0.12	0.10 -16.64%	0.12 -1.63%	0.16 -16.62%	0.14 -1.72%	0.16 -16.62%	Variant 2 - low retention more ponds cereals (V2.1)		DJF	0.00 -3.57%	0.00 0.00%	0.01 -5.34%	0.01 0.00%	0.01 -5.34%	RCP 4.5		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)	
MAM	0.14	0.12 -16.89%	0.14 -1.68%	0.16 -16.81%	0.14 -1.72%	0.16 -16.81%	Variant 1 only climate change (V1)		MAM	0.00 -20.65%	0.00 0.00%	0.00 -21.85%	0.00 0.00%	0.00 -21.85%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
JJA	0.15	0.12 -16.98%	0.15 -1.80%	0.21 -17.01%	0.18 -1.83%	0.21 -17.01%	Variant 3 - low retention more reservoirs cereals (V3.1)		JJA	0.00 -18.18%	0.00 0.00%	0.00 -18.67%	0.00 0.00%	0.00 -18.67%	RCP 4.5		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)		Variant 2 - low retention more ponds cereals (V2.1)	
SON	0.22	0.18 -16.96%	0.21 -1.67%	0.49 -16.97%	0.40 -1.73%	0.49 -16.97%	Variant 1 only climate change (V1)		SON	0.00 0.00%	0.00 0.00%	0.00 -20.00%	0.00 0.00%	0.00 -20.00%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	
Total annual	0.63	0.52 -16.89%	0.62 -1.69%	1.03 -16.90%	0.85 -1.75%	1.03 -16.90%	Variant 1 only climate change (V1)		Total annual	0.01 -11.95%	0.01 0.00%	0.02 -13.65%	0.02 0.00%	0.02 -13.65%	RCP 4.5		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)		Variant 1 only climate change (V1)	

**Table S17.** Summary of the average: actual evapotranspiration (mm), soil water content (mm), total runoff (mm) and sediment yield (t/ha) for the entire Bystra catchment by season between Variant 1 (V1 - BaU) and Variants 2.1 and 3.1 for the years 2041-2050 for climate scenarios RCP 4.5 and RCP 8.5. Bold numbers indicate the corresponding value and shaded numbers indicate the percentage change. Shade of red indicates % decrease in content and shade of blue indicates % increase in content (author's own elaboration).

Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5		
Time interval		2041-2050		2041-2050		Time interval		2041-2050		2041-2050		
Type of scenario						Type of scenario						
Season	Actual evapotranspiration [mm] - entire catchment						Season	Soil water content [mm] - entire catchment				
DJF	27.4 -0.13%	27.4 0.00%	28.9 -0.12%	28.8 0.00%	28.9 0.00%	MAM	335.2 -0.11%	335.2 -0.01%	340.5 -0.06%	340.3 0.00%	340.5 0.00%	
MAM	146.2 -0.25%	145.9 -0.01%	146.2 -0.21%	144.1 -0.01%	144.1 -0.01%	JJA	310.5 -0.03%	310.4 -0.01%	320.0 -0.02%	319.9 0.00%	320.0 0.00%	
JJA	161.8 +0.43%	162.5 +0.01%	161.8 +0.01%	158.4 +0.41%	159.0 +0.41%	SON	295.4 -0.15%	295.4 -0.01%	308.4 -0.13%	308.0 -0.01%	308.4 -0.01%	
SON	66.7 +0.11%	66.8 0.00%	66.7 0.00%	69.3 +0.09%	69.4 +0.09%	Total annual	318.2 -0.17%	318.7 -0.01%	328.0 -0.12%	327.7 -0.01%	328.0 -0.01%	
<b>Total annual</b>		<b>402.2</b> +0.10%	<b>402.2</b> 0.00%	<b>400.7</b> +0.10%	<b>401.0</b> +0.10%	Average annual	<b>314.9</b> -0.12%	<b>314.9</b> -0.01%	<b>324.2</b> -0.08%	<b>324.0</b> -0.01%	<b>324.2</b> -0.01%	
Climate scenario		RCP 4.5		RCP 8.5		Climate scenario		RCP 4.5		RCP 8.5		
Time interval		2041-2050		2041-2050		Time interval		2041-2050		2041-2050		
Type of scenario						Type of scenario						
Season	Total runoff [mm] - entire catchment						Season	Sediment yield [t/ha] - entire catchment				
DJF	41.6 -0.96%	41.2 -0.01%	41.6 -0.01%	59.1 -0.89%	58.6 -0.01%	MAM	0.13 -17.78%	0.11 0.00%	0.17 -17.91%	0.14 0.00%	0.17 0.00%	
MAM	41.5 -0.99%	41.1 -0.01%	41.5 -0.01%	58.6 -0.88%	58.1 -0.01%	JJA	0.12 -18.59%	0.10 0.00%	0.16 -18.05%	0.13 -0.21%	0.16 -0.21%	
JJA	35.0 -0.96%	34.7 -0.01%	35.0 -0.01%	53.9 -0.80%	53.5 -0.01%	SON	0.13 -19.27%	0.10 0.00%	0.19 -18.80%	0.15 0.00%	0.19 0.00%	
SON	37.5 -1.02%	37.1 -0.02%	37.5 -0.02%	56.5 -0.94%	55.9 -0.01%	Total annual	0.18 -17.74%	0.15 0.00%	0.32 -18.40%	0.26 -0.10%	0.32 -0.10%	
<b>Total annual</b>		<b>155.6</b> -0.98%	<b>154.1</b> -0.01%	<b>155.6</b> -0.01%	<b>228.1</b> -0.88%	<b>226.1</b> -0.01%	Average annual	<b>0.56</b> -18.29%	<b>0.45</b> 0.00%	<b>0.84</b> -18.33%	<b>0.68</b> -0.08%	<b>0.84</b> -0.08%