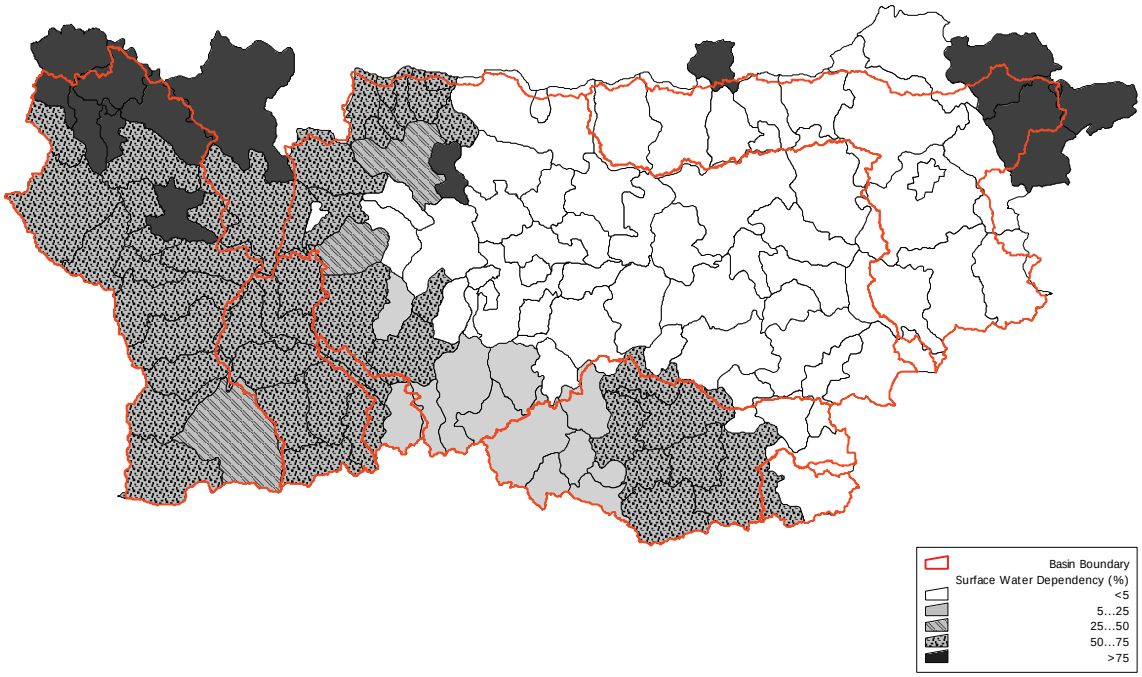
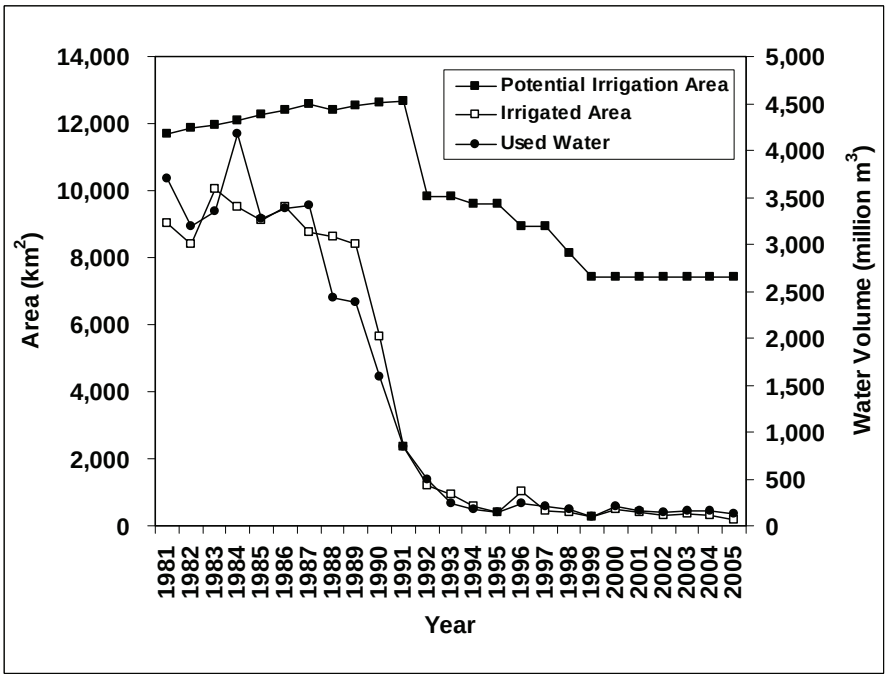


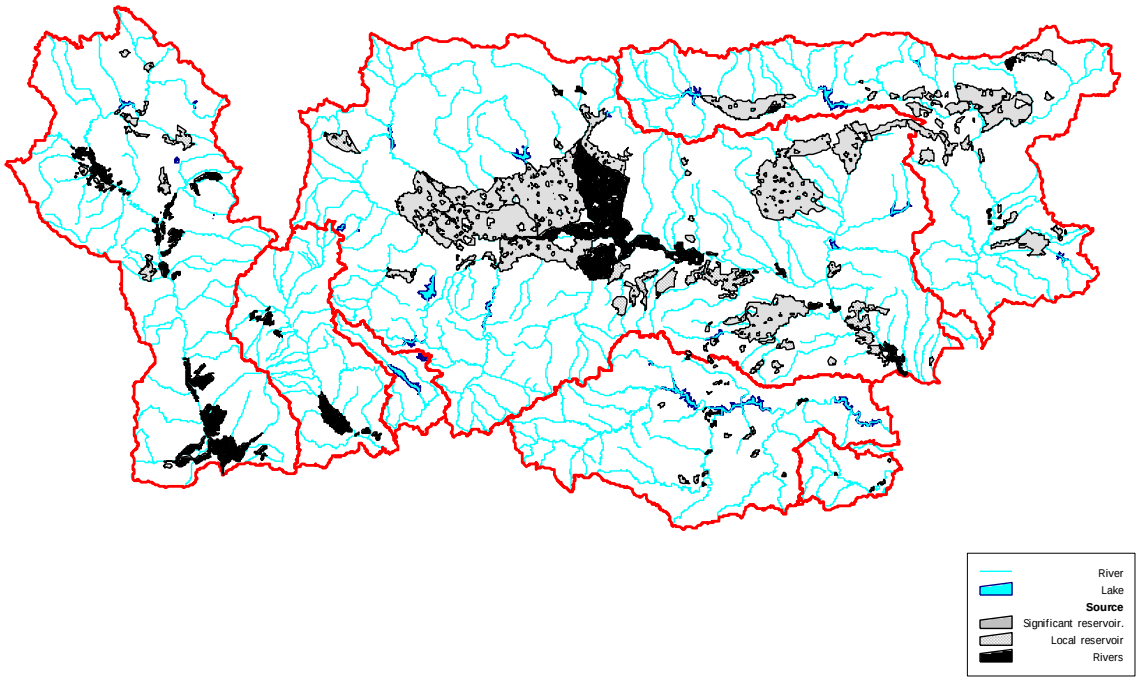
Source: JICA Study Team based on Date by WS&S Company

Figure 2.4.1 Surface Water Dependency of Domestic Water Supply in EABD and WABD



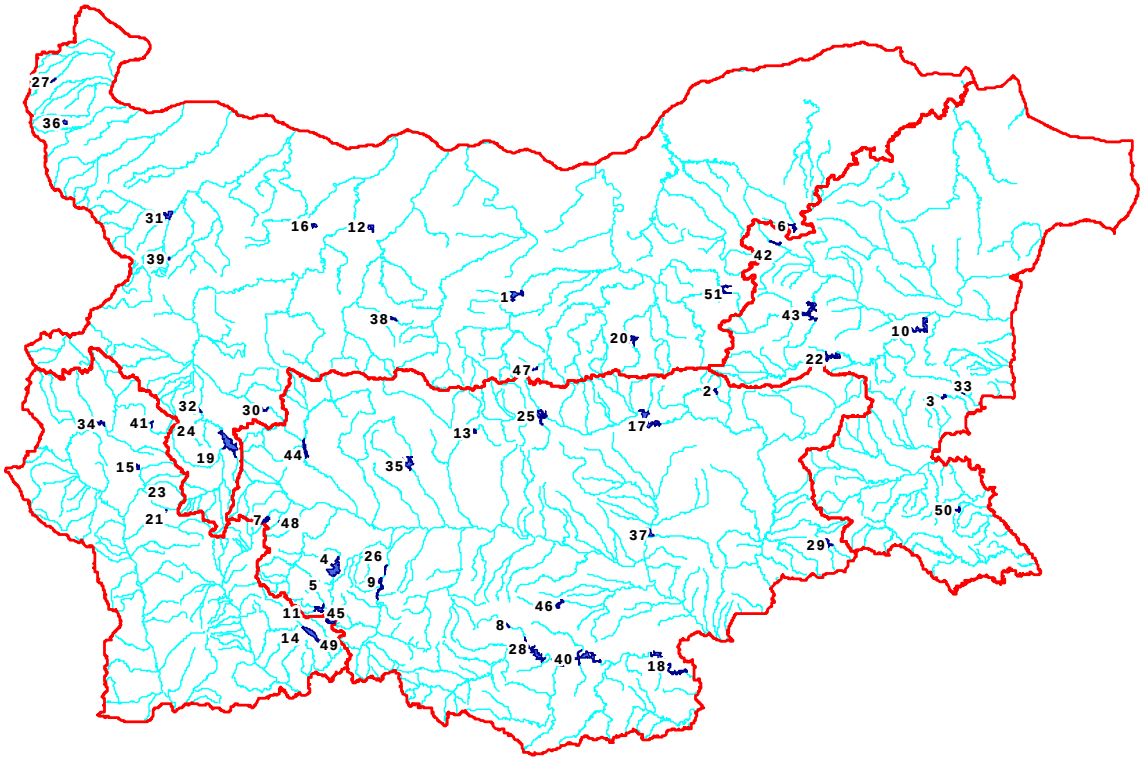
Source: Irrigation Systems Ltd.

Figure 2.4.2 Change in Irrigated Area and Used Water



Source: JICA Study Team

Figure 2.4.3 Irrigation Area Set-Up by Irrigation System in EABD and WABD

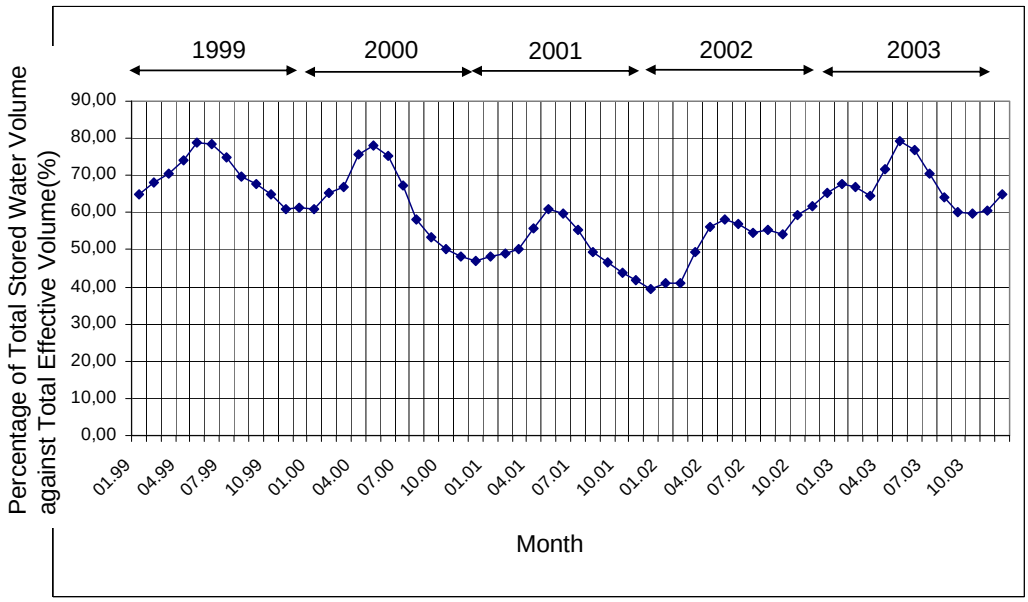


Basin Directorate	Basin	No.	Name	Gross Storage Volume (mil. m^3)
DRBD	Ogosta	31	Ogosta	505.0
		39	Srechenska Bara	15.5
	Iskar	16	Enitsa	37.6
		19	Iskar	673.0
		24	Kokalyane	2.7
		30	Ognyanovo	35.4
		32	Pancharevo	6.7
	Vit	12	Gorni Dabnik	130.0
		38	Sopot	61.8
	Yantra	1	Aleksandar Stamboliyski	222.0
		20	Yovkovtsi	91.0
		47	Hristo Smirnenski	18.7
		51	Yastrebino	62.8
	Rusenski	6	Beli Lom	25.5
	Topolovetz	27	Kula	20.2
	Vidbol	36	Rabisha	45.0
BSBD	Kamchia	22	Kamchia	229.0
		10	Georgi Traikov	329.0
		42	Saedinenie	12.8
		43	Ticha reservoir	311.8
	Aheloy	3	Aheloy	12.6
	Diavolska	50	Yasna Polyana	35.3
	Hadzhidere	33	Poroy	45.2

Basin Directorate	Basin	No.	Name	Gross Storage Volume (mil. M3)
EABD	Tundzha	29	Malko Sharkovo	50.0
		2	Asenovets	28.2
		17	Zhrebchevo	400.0
		25	Koprinka	142.2
	Maritsa	4	Batak	310.0
		5	Beglika	1.6
		7	Belmeken	144.0
		9	Vacha	226.1
		11	Golyam Beglik	62.1
		13	Domlyan	27.0
		26	Krichim	20.3
		35	Pyasachnik	206.5
		37	Rozov Kladenets	20.4
		44	Topolnitsa	137.1
		45	Toshkov Chark	1.8
		46	Trakiets	114.0
		48	Chaira	5.5
	Arda	8	Borovitsa	31.0
		18	Ivaylovgrad	188.0
		28	Kardzhali	532.9
		40	Studen Kladenets	489.0
WABD	Struma	15	Dyakovo	35.0
		21	Kalin	1.0
		23	Karagyol	2.3
		34	Pchelina	54.8
		41	Studena	25.2
	Dospat	14	Dospat	446.0
		49	Shiroka Polyana	24.0
Total				**6,654.5**

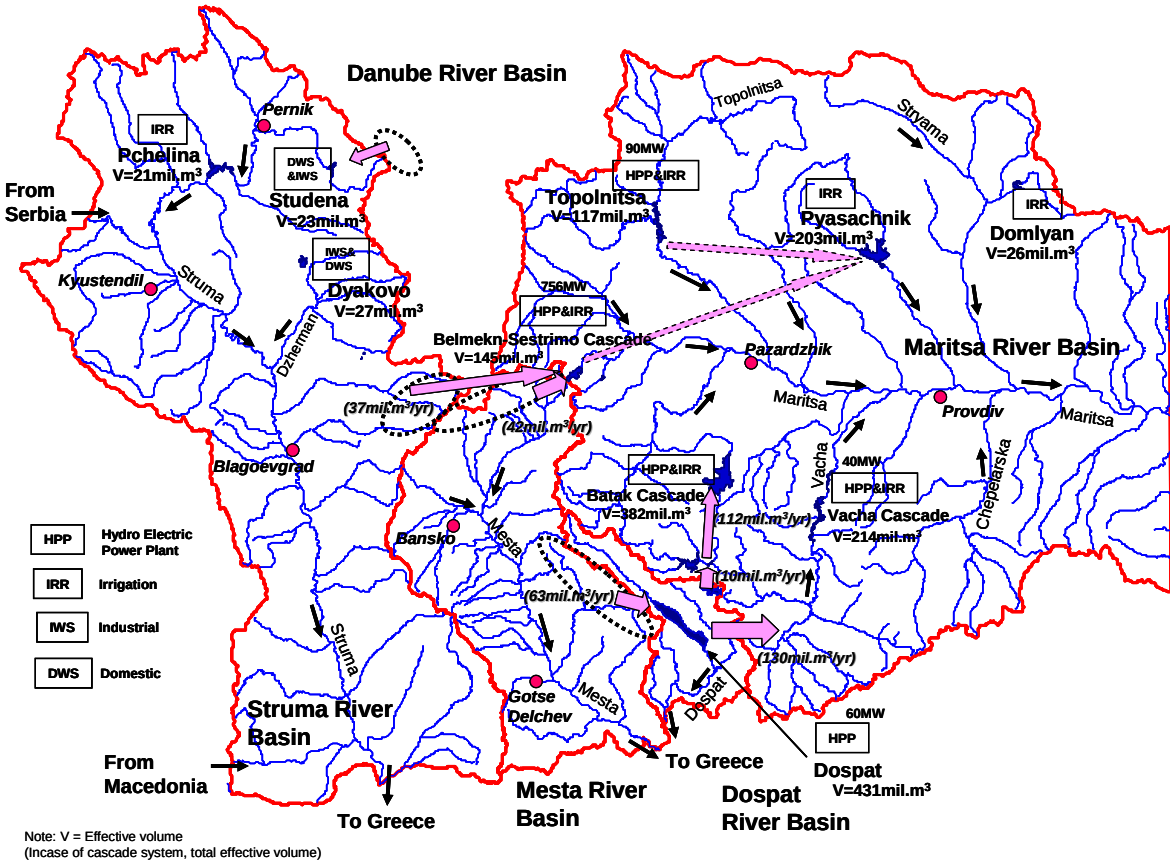
Source: JICA Study Team

Figure 2.4.4 Location of Significant Reservoir



Source: MOEW Bulletin

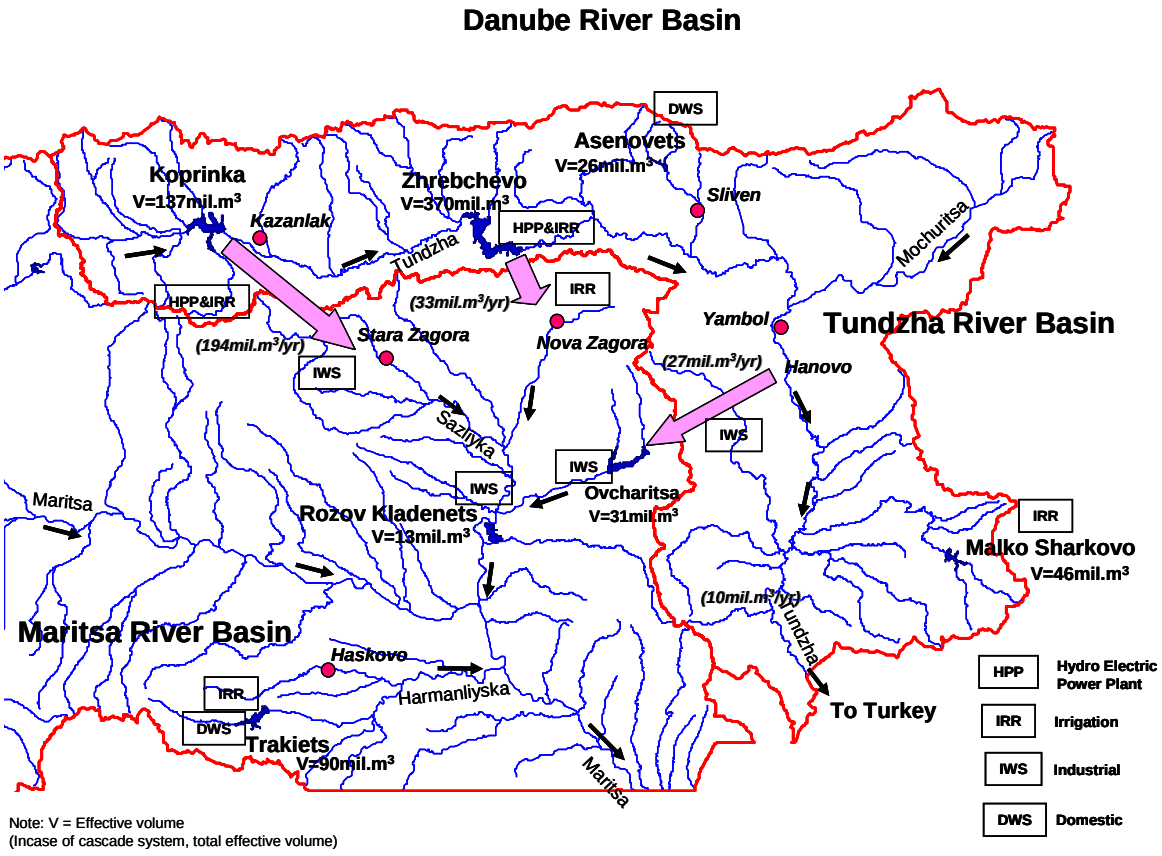
Figure 2.4.5 Change in Percentage of Total Stored Water Volume against Total Effective Volume of Significant Reservoirs



Note: ( ) shows the estimated amount of inter-basin water transfer in 2001-2005.

Source: JICA Study Team

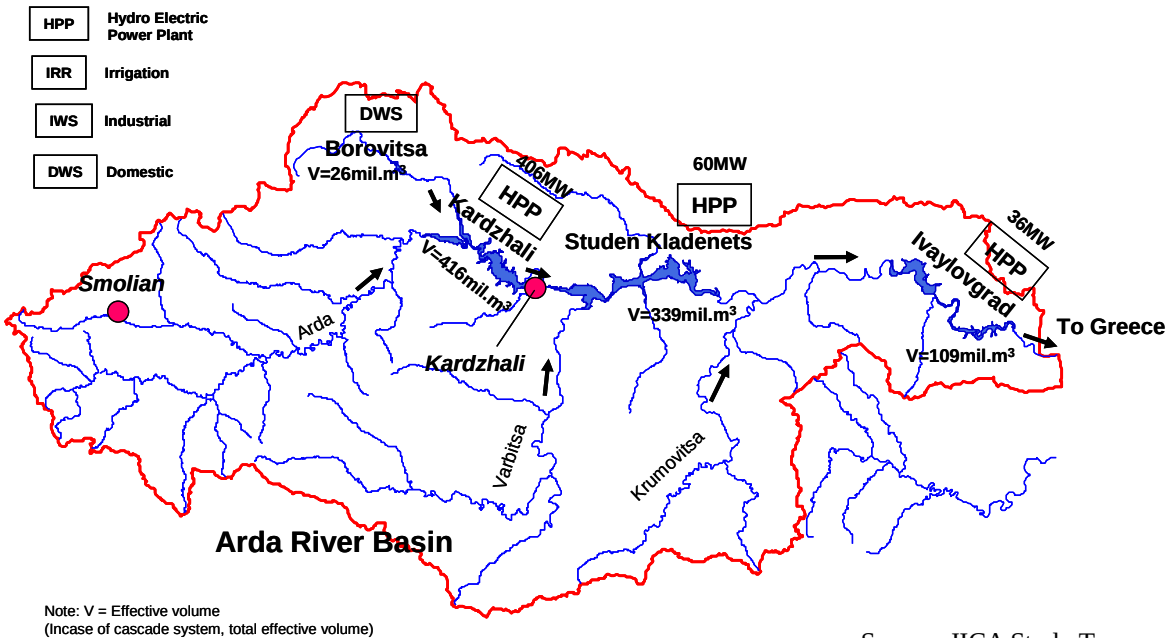
Figure 2.4.6 Main Water Transfer Related to Significant Reservoirs among River Basins in EABD, WABD and DRBD



Note: ( ) shows the estimated amount of inter-basin water transfer in 2001-2005.

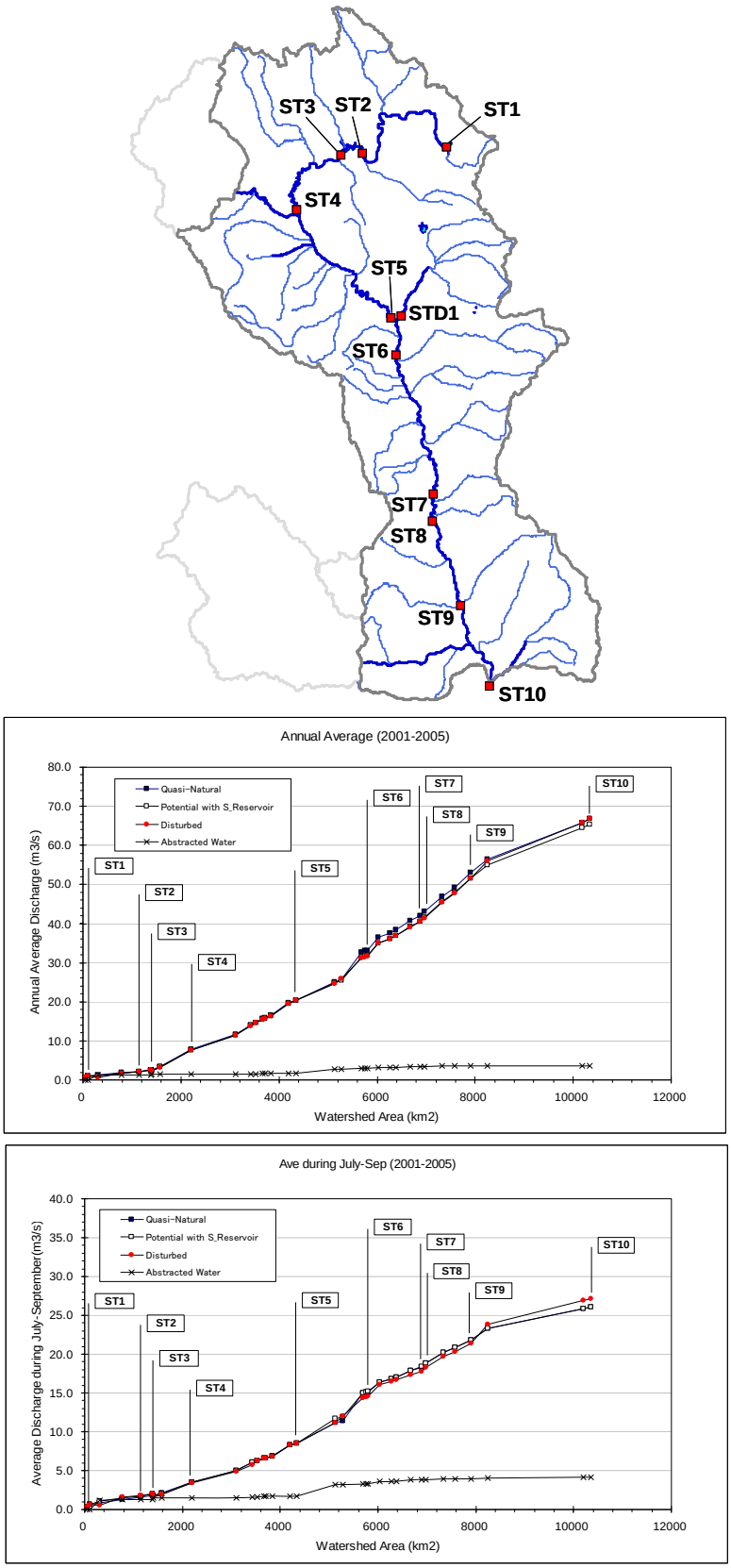
Source: JICA Study Team

Figure 2.4.7 Main Water Transfer Related to Significant Reservoirs among the Tundzha, Maritsa and Danube River Basins



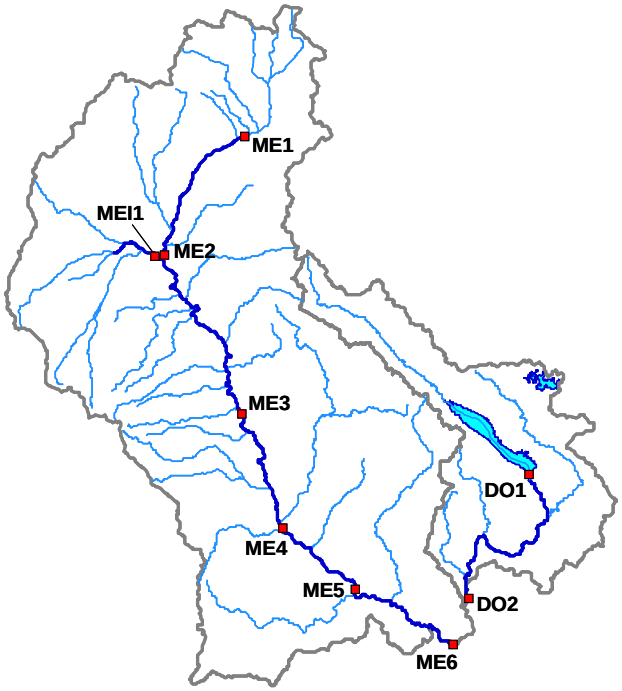
Source: JICA Study Team

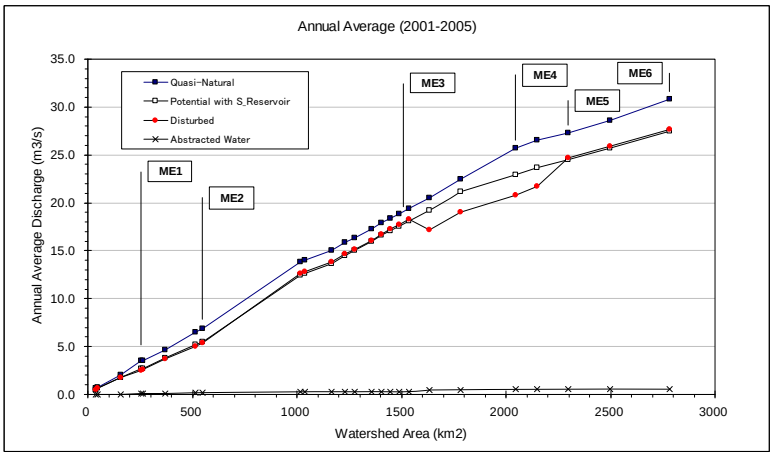
Figure 2.4.8 Main Water Transfer Related to Significant Reservoirs in the Arda River Basin

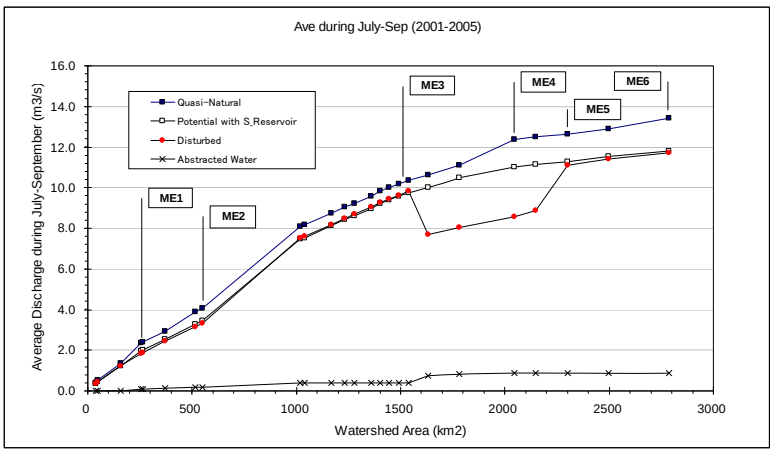


Source: JICA Study Team

Figure 2.4.9 Water Balance along Main Stream of the Struma River Basin

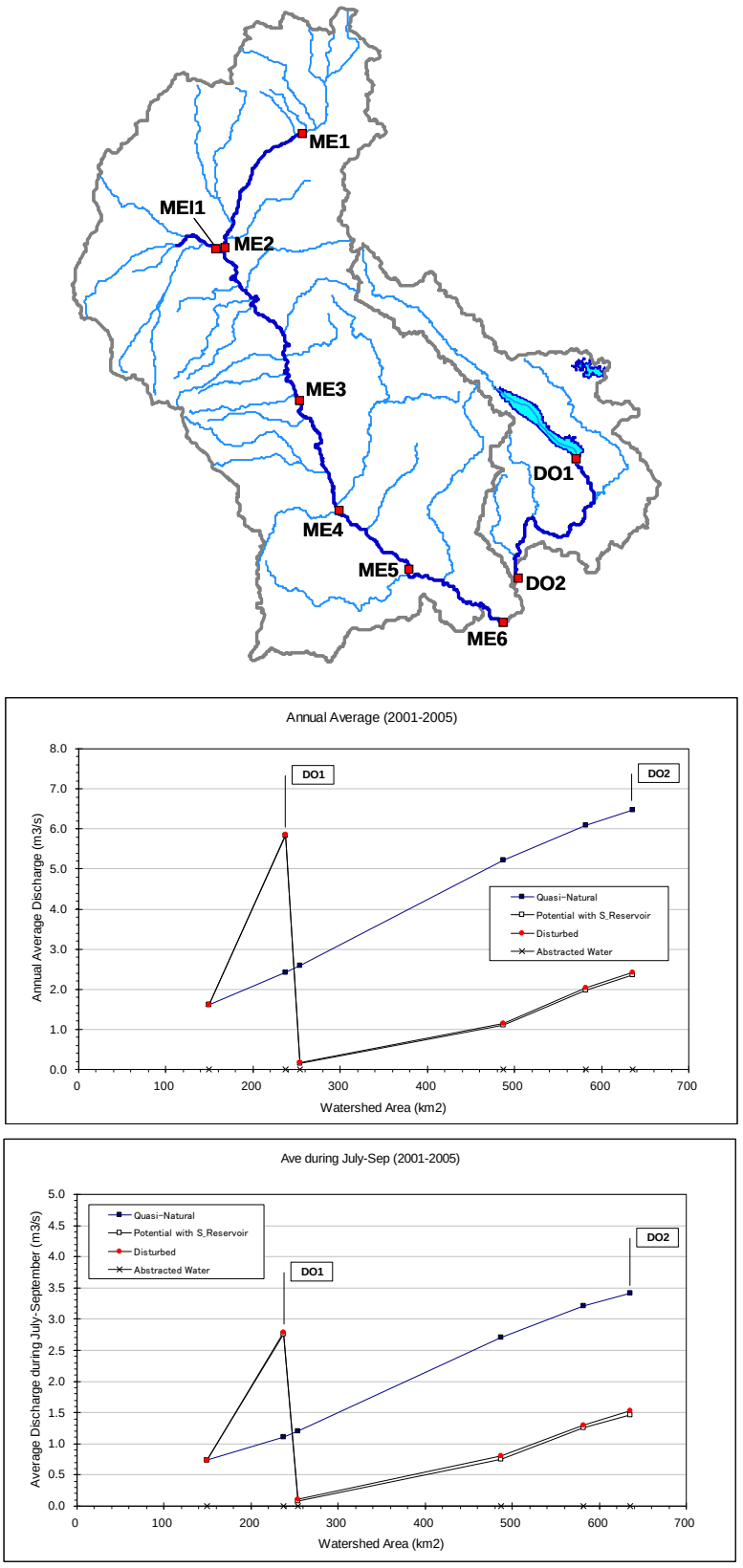






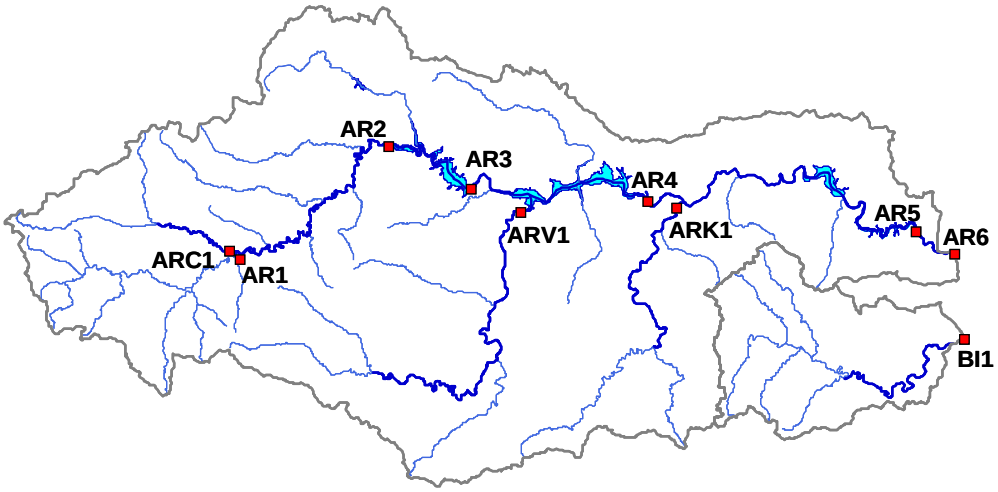
Source: JICA Study Team

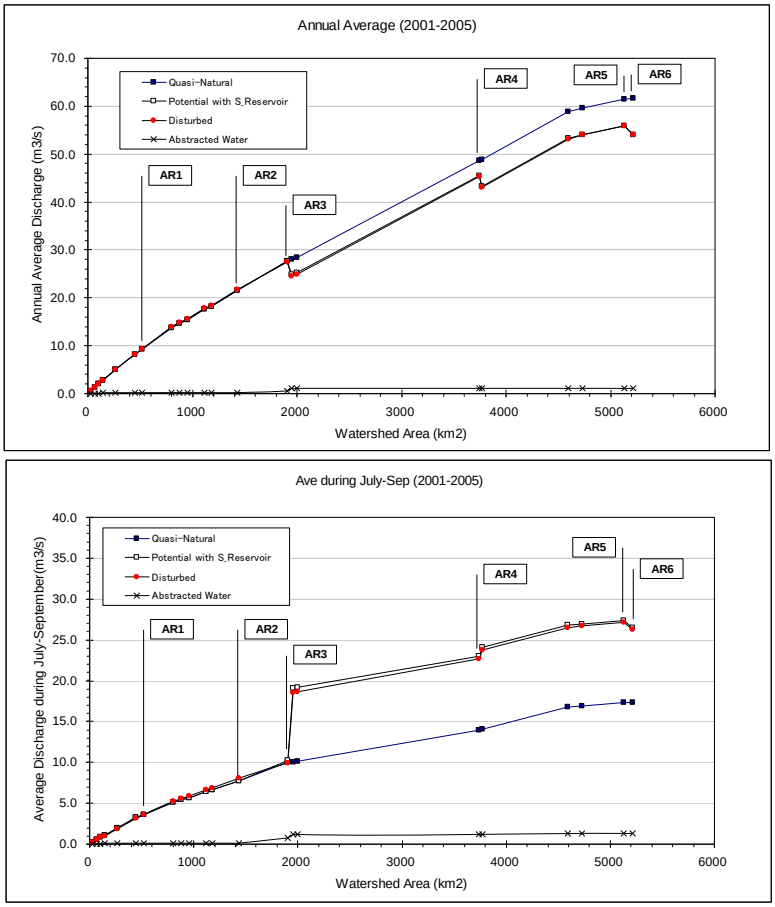
Figure 2.4.10 Water Balance along Main Stream of the Mesta River Basin



Source: JICA Study Team

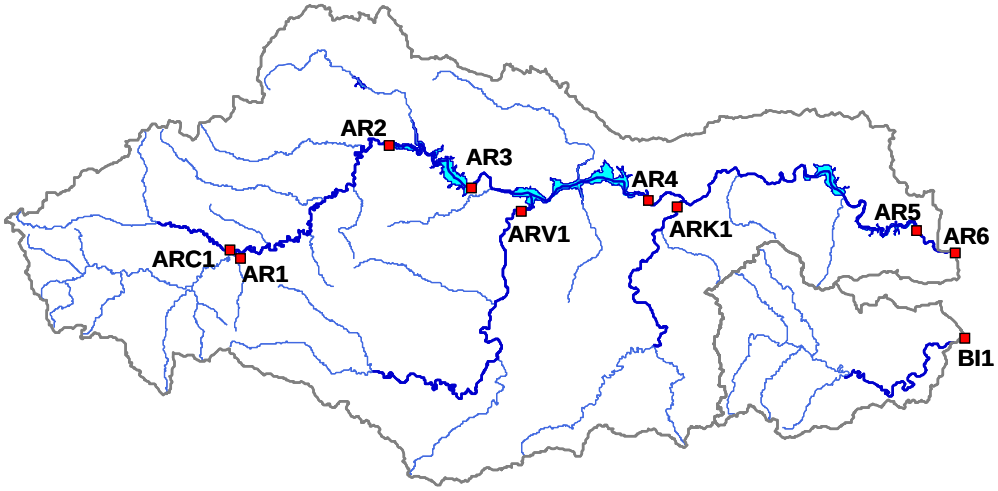
Figure 2.4.11 Water Balance along Main Stream of the Dospat River Basin

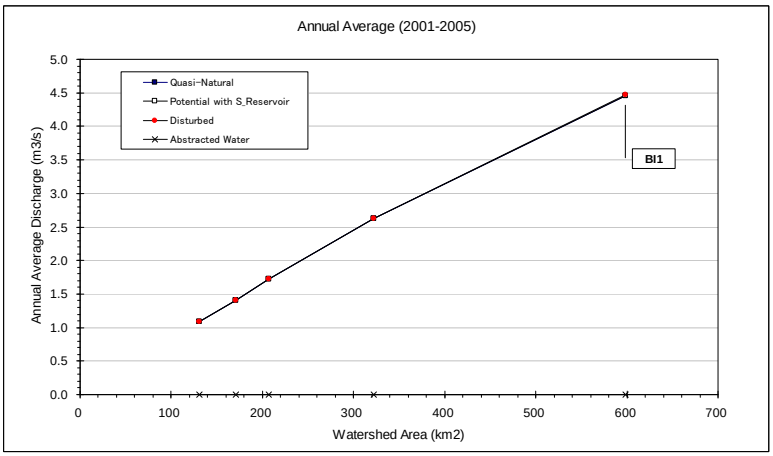


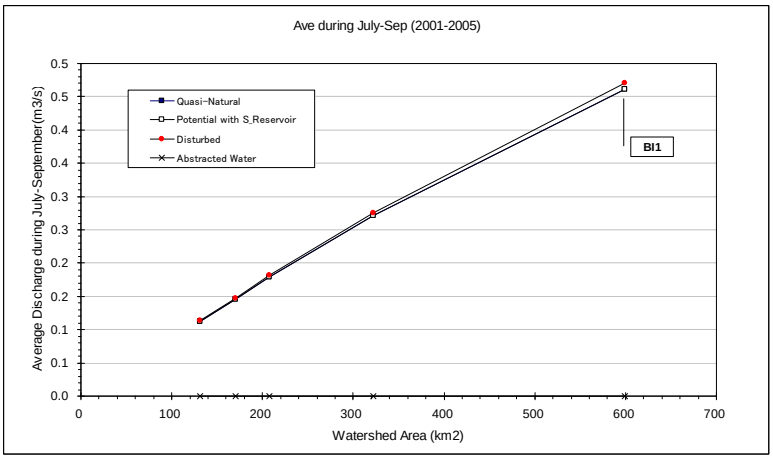


Source: JICA Study Team

Figure 2.4.12 Water Balance along Main Stream of the Arda River Basin

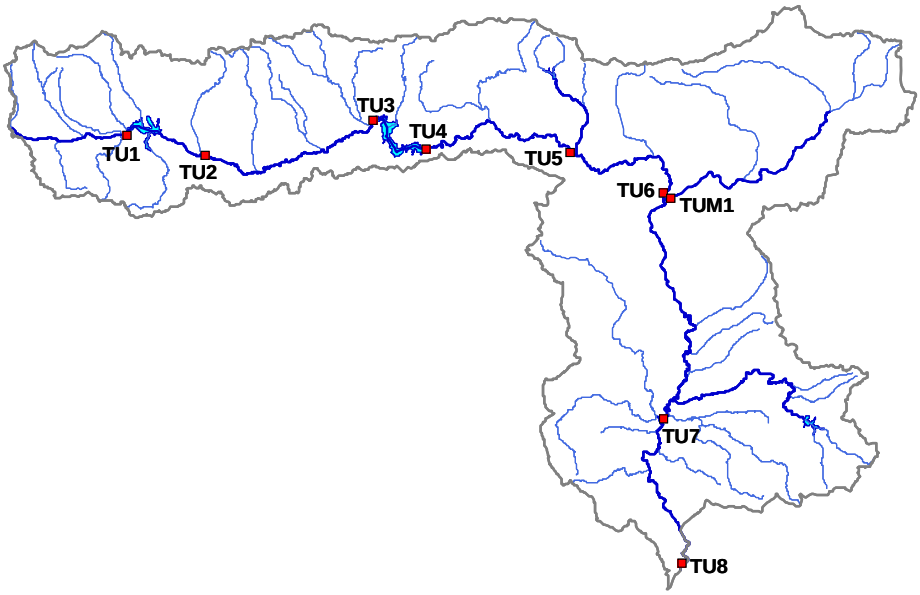


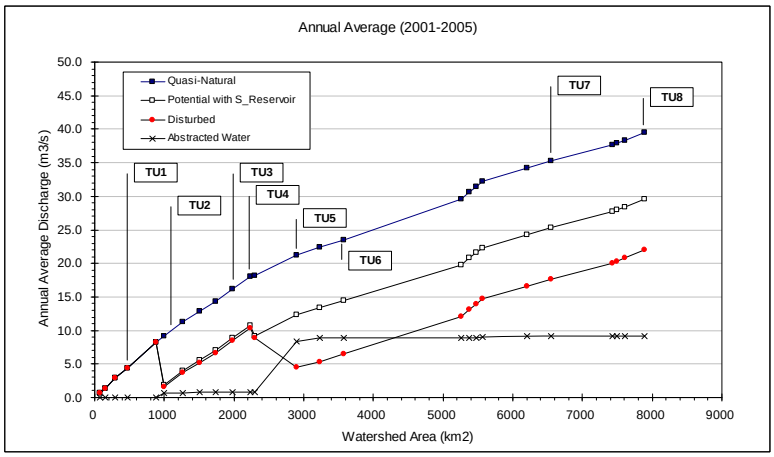


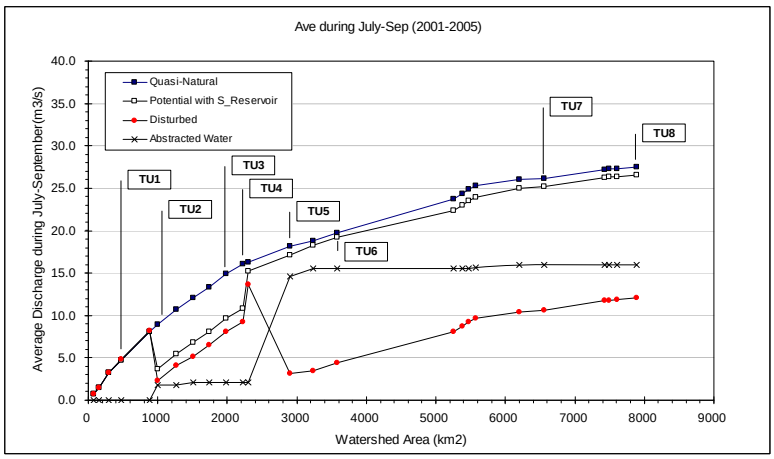


Source: JICA Study Team

Figure 2.4.13 Water Balance along Main Stream of the Biala River Basin

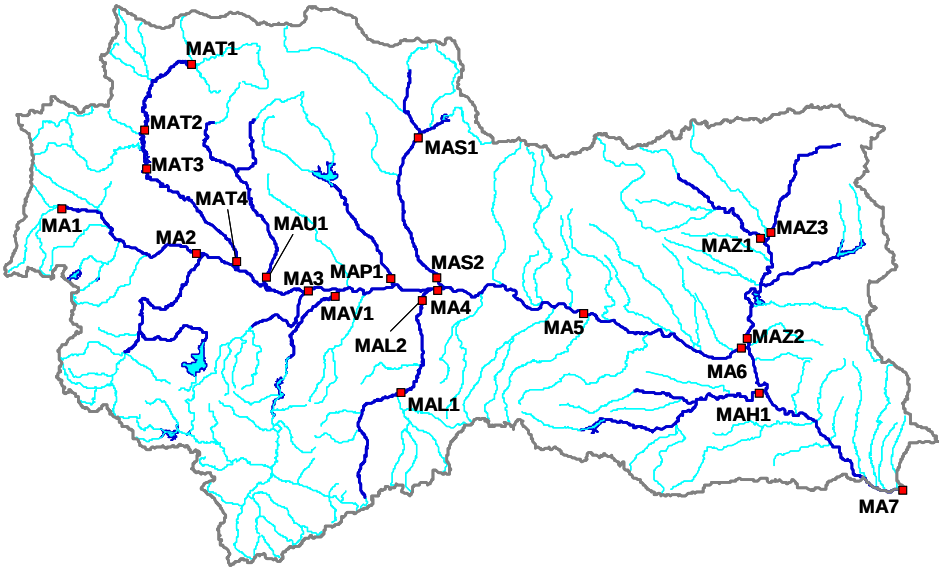


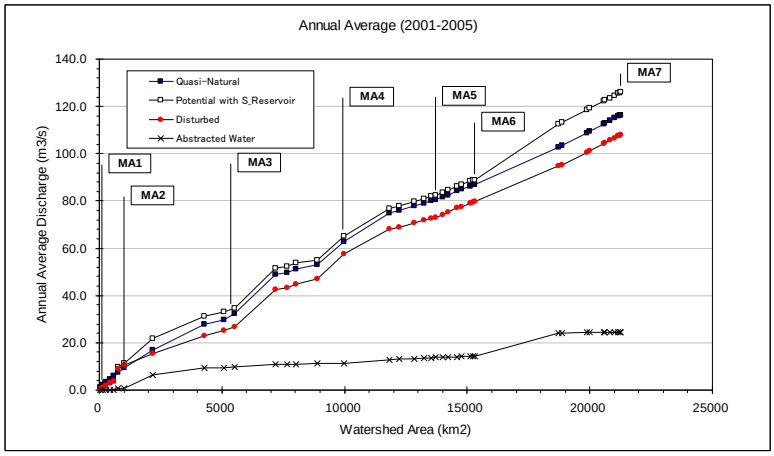


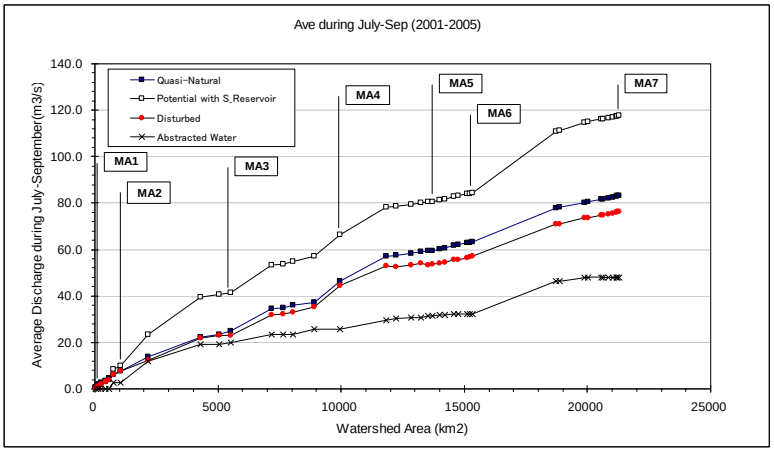


Source: JICA Study Team

Figure 2.4.14 Water Balance along Main Stream of the Tundzha River Basin







Source: JICA Study Team

Figure 2.4.15 Water Balance along Main Stream of the Maritsa River Basin

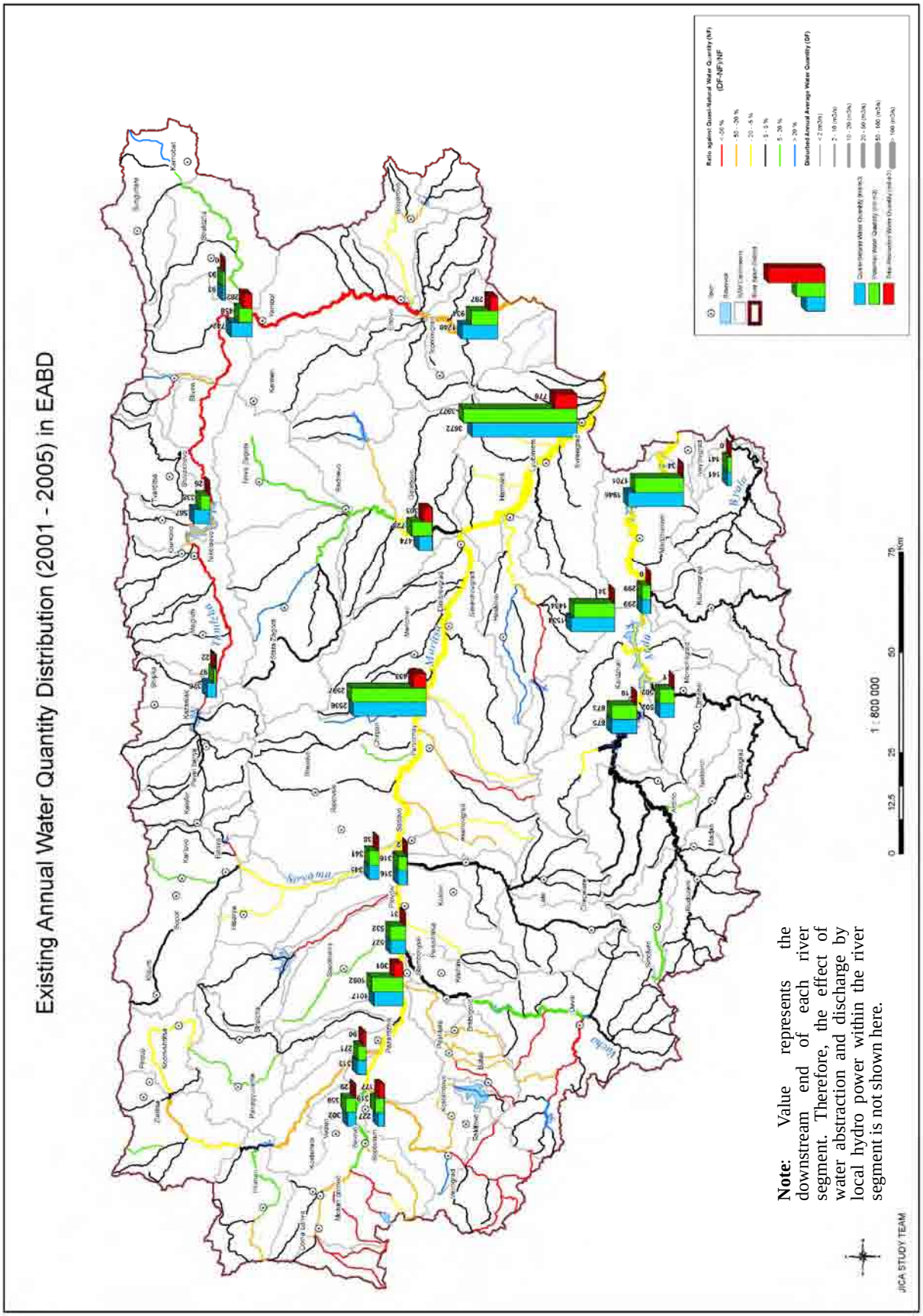


Figure 2.4.16 Water Balance including Inter-Basin Water Transfer in EABD (Average in 2001 – 2005)

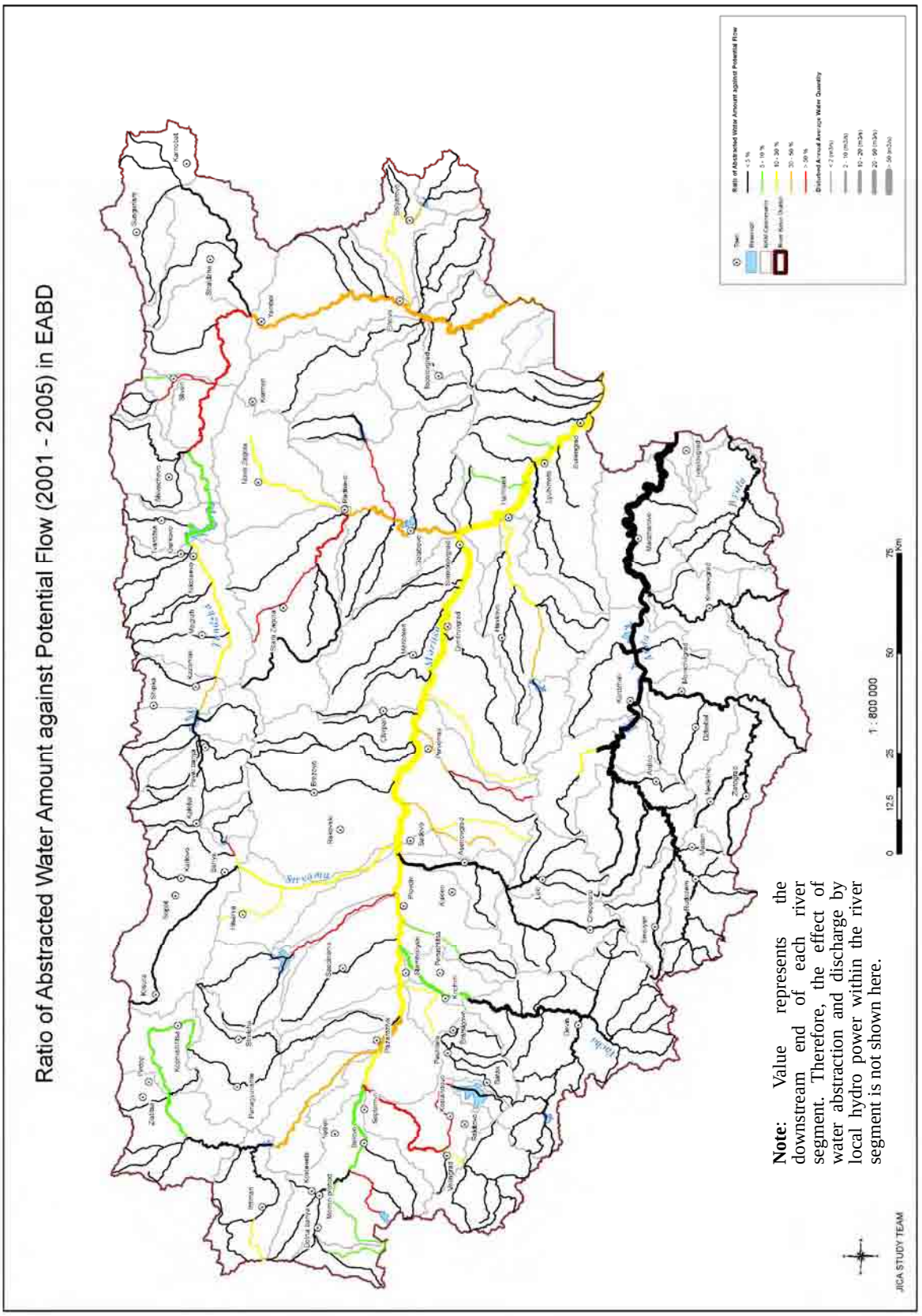


Figure 2.4.17 Ratio of Abstracted Water Amount against Potential Flow in EABD (Average in 2001 – 2005)

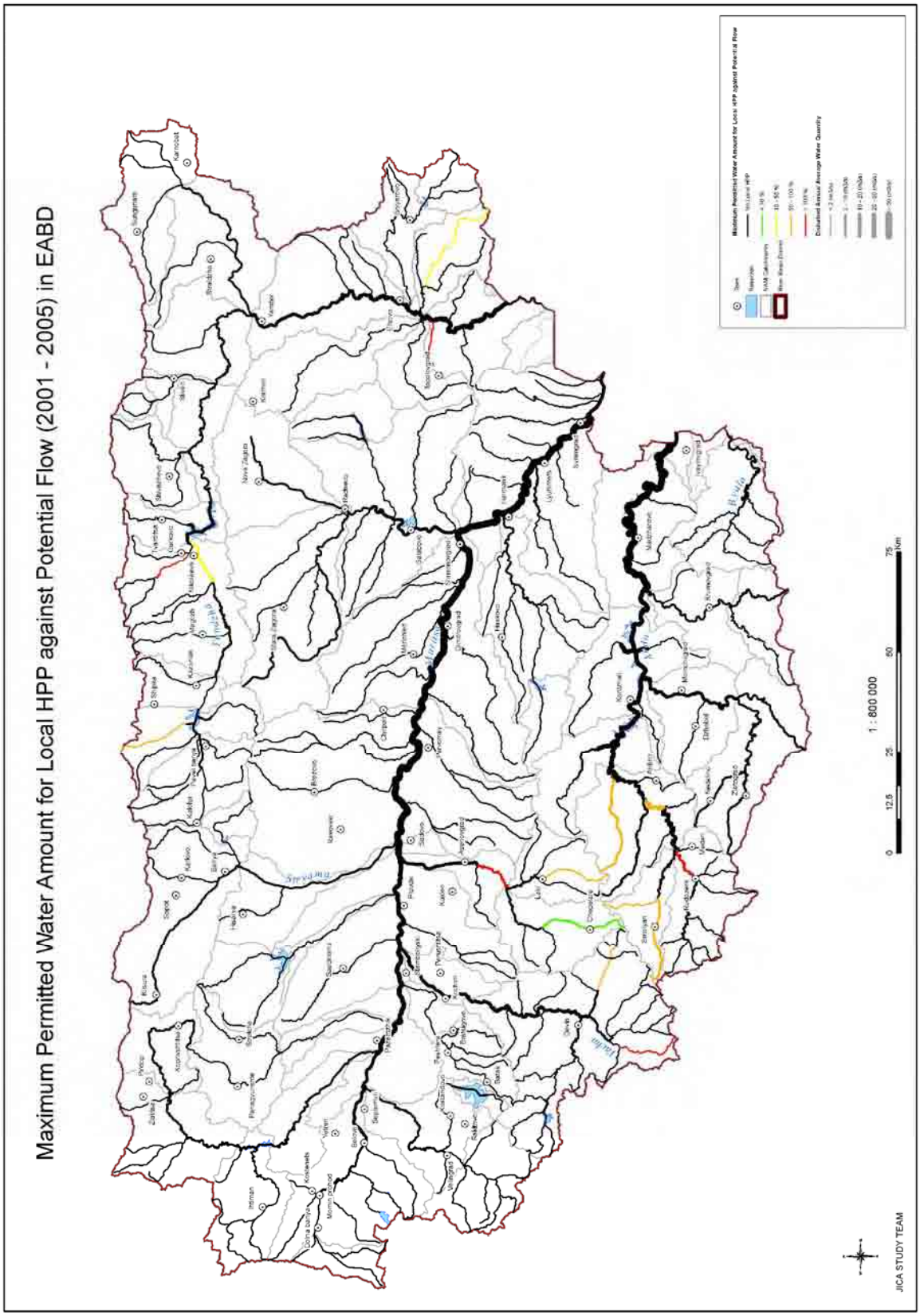


Figure 2.4.18 Maximum Permitted Water Amount for Local HPP against Potential Flow in EABD (Average in 2001 –2005)

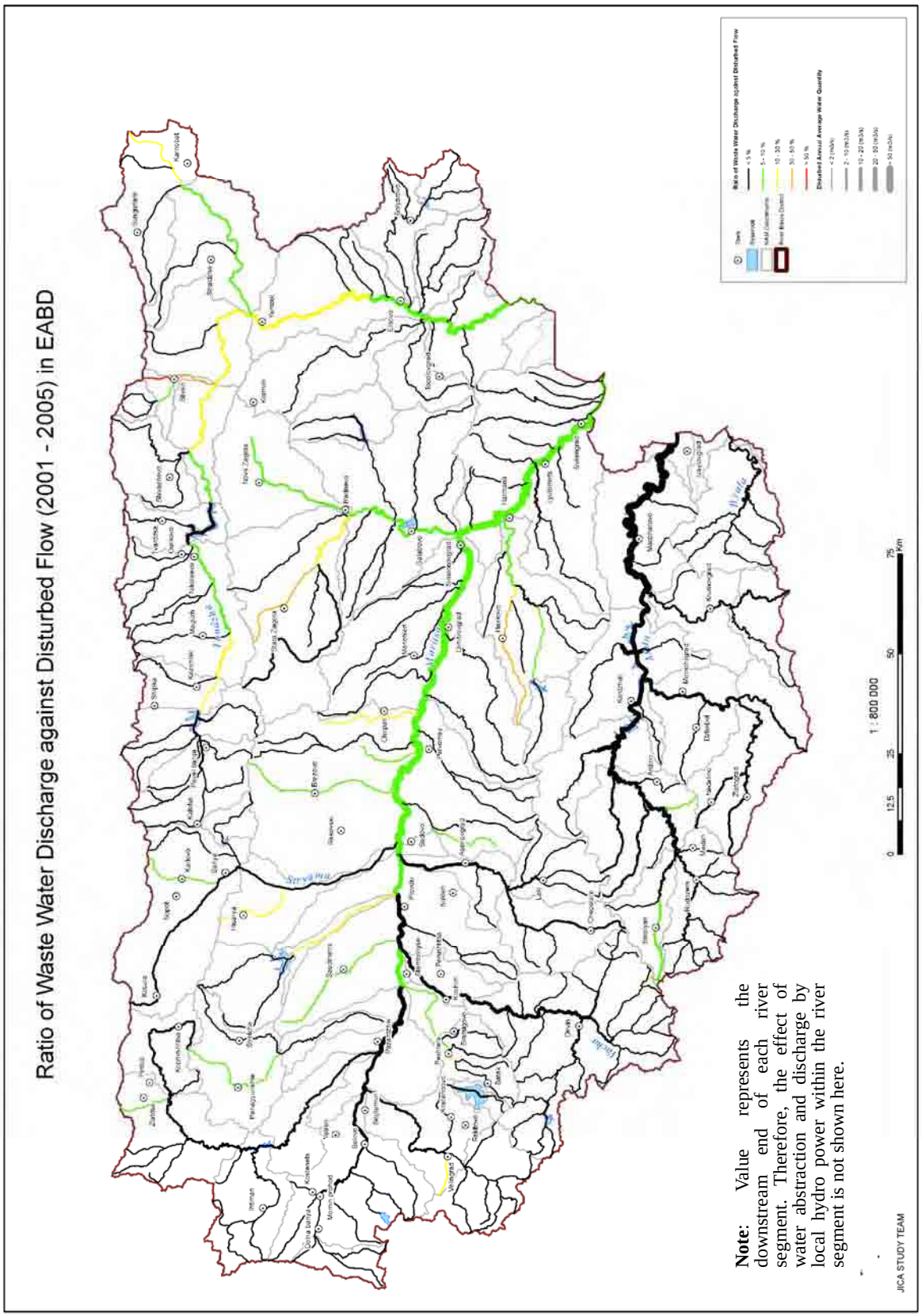
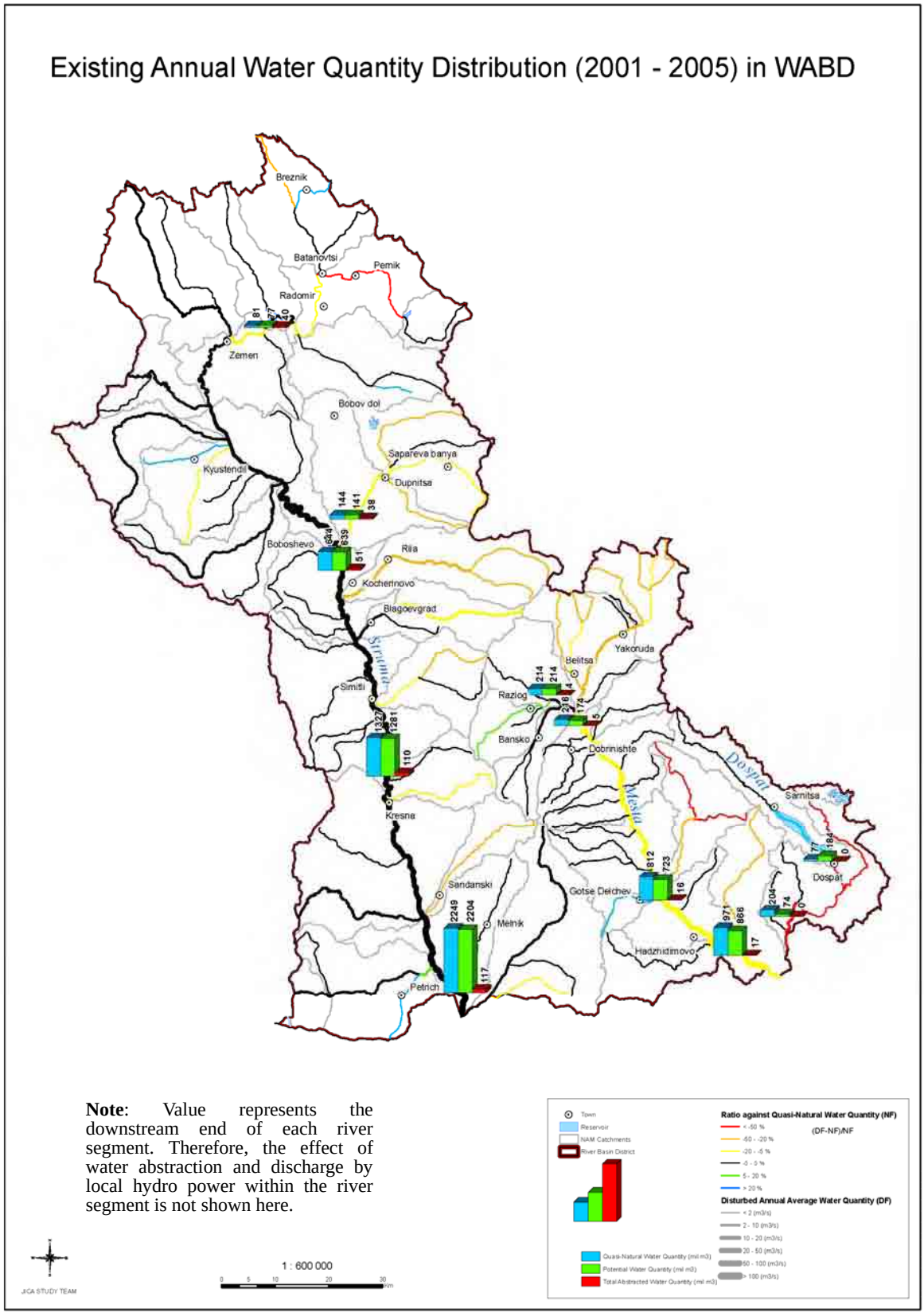


Figure 2.4.19 Ratio of Waste Water Discharge against Disturbed Flow in EABD (Average in 2001 – 2005)



Note: Value represents the downstream end of each river segment. Therefore, the effect of water abstraction and discharge by local hydro power within the river segment is not shown here.

Figure 2.4.20 Water Balance including Inter-Basin Water Transfer in WABD (Average in 2001 – 2005)

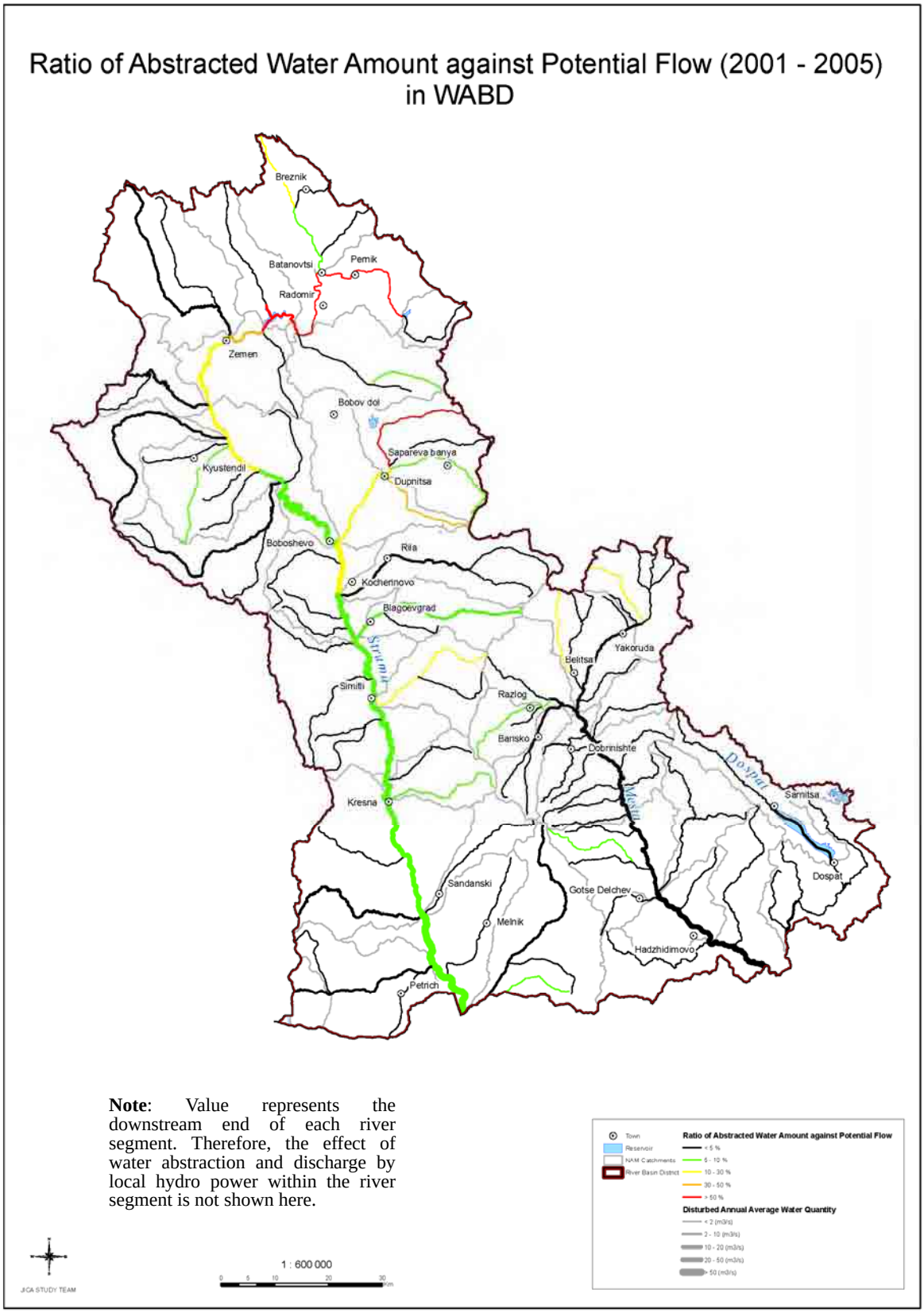


Figure 2.4.21 Ratio of Abstracted Water Amount against Potential Flow in WABD (Average in 2001 – 2005)

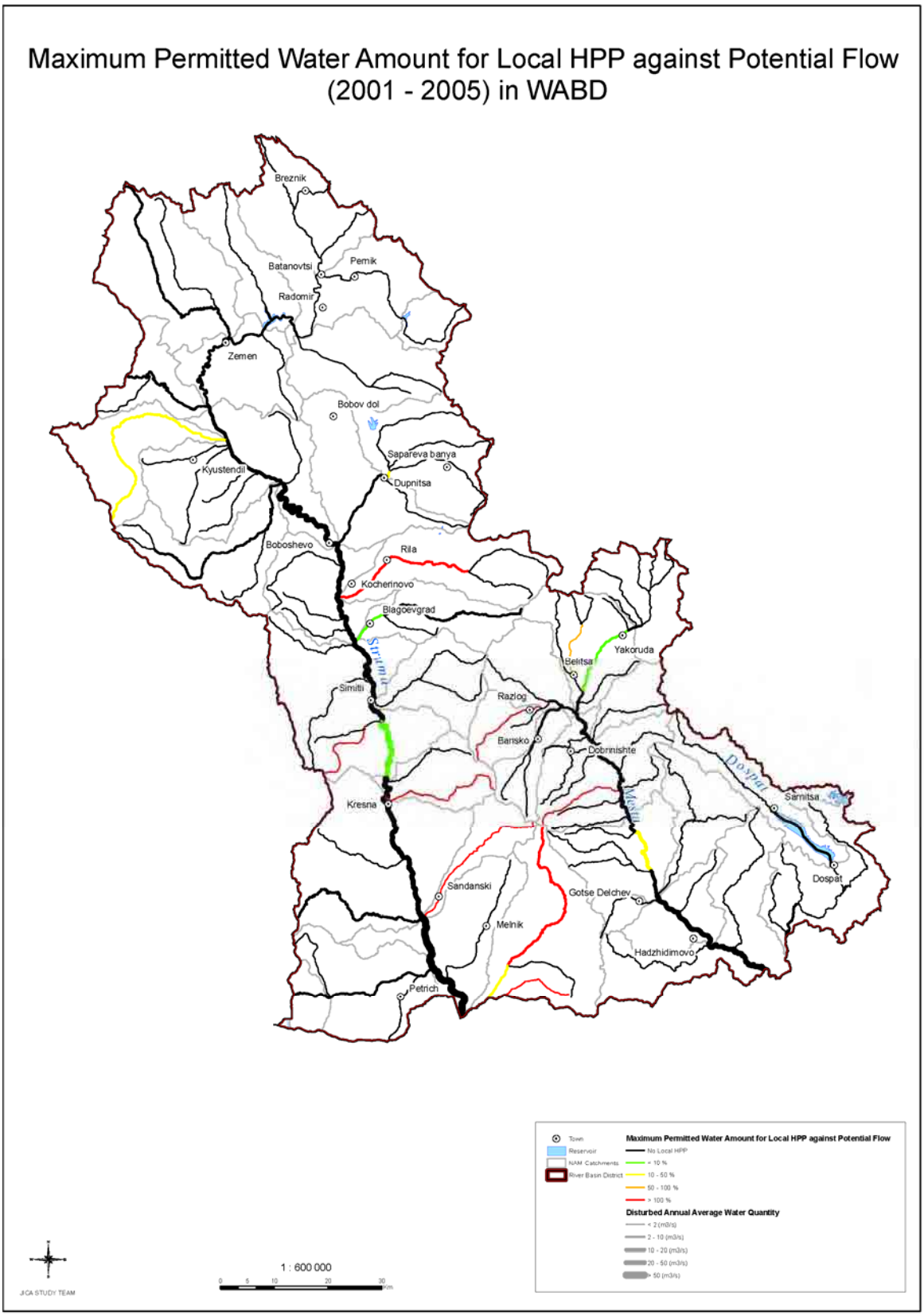
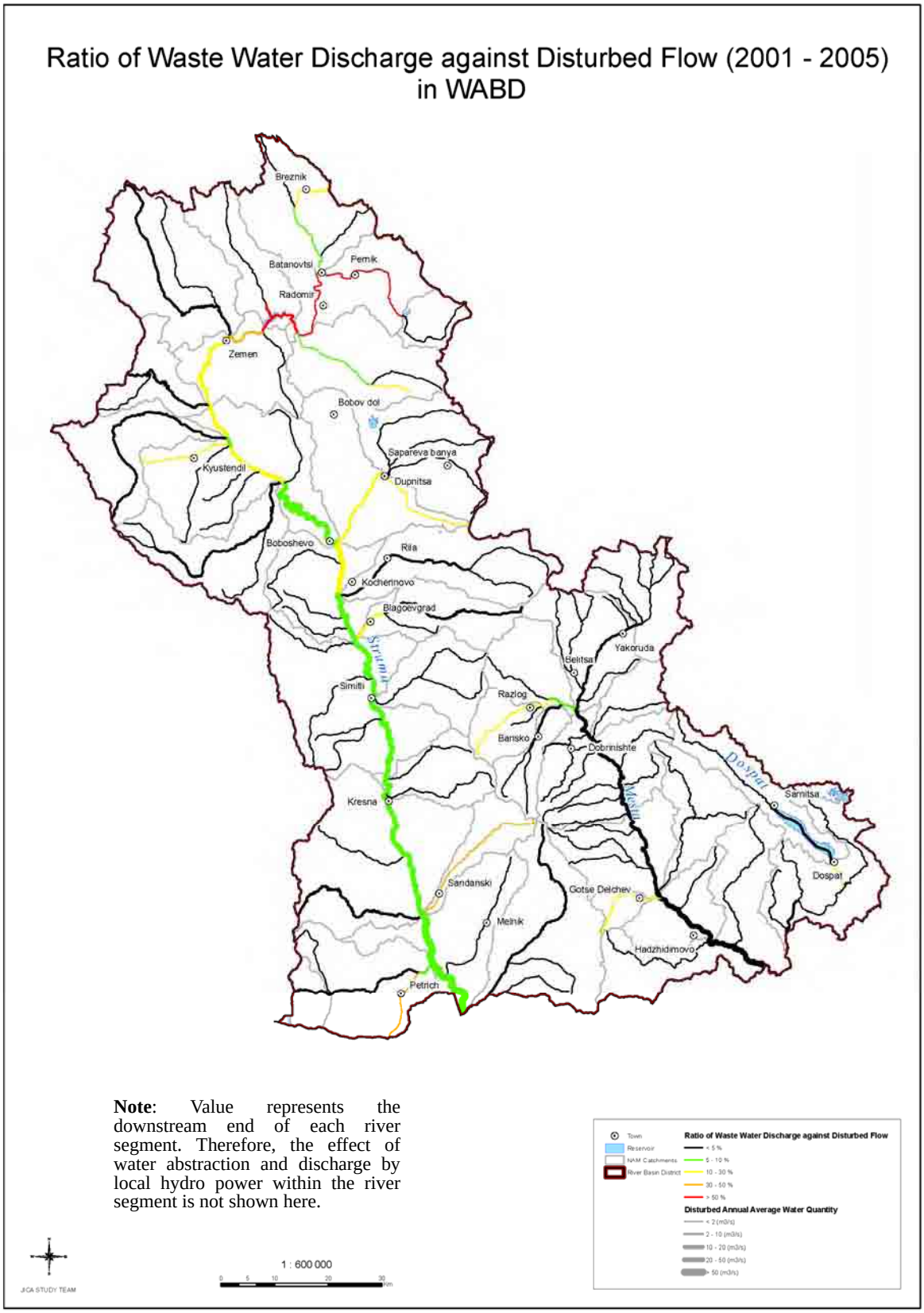


Figure 2.4.22 Maximum Permitted Water Amount for Local HPP against Potential Flow in WABD (Average in 2001 – 2005)



Note: Value represents the downstream end of each river segment. Therefore, the effect of water abstraction and discharge by local hydro power within the river segment is not shown here.

Figure 2.4.23 Ratio of Waste Water Discharge against Disturbed Flow in WABD (Average in 2001 – 2005)