Reporting on global SDG indicator 6.5.2

TEMPLATE of the second cycle for reporting

Content of the template

The template is divided into four parts:

- Section I Calculation of SDG indicator 6.5.2
- Section II Information on each transboundary basin or group of basins
- Section III General information on transboundary water management at the national level
- Section IV Final questions

Country name: [Bosnia and Herzegovina]

I. Calculation of Sustainable Development Goal indicator 6.5.2

Methodology

- 1. Using the information gathered in section II, the information gathered in this section allows for the calculation of Sustainable Development Goal global indicator 6.5.2, which is defined as the proportion of transboundary basin area with an operational arrangement for water cooperation.
- 2. The step-by-step monitoring methodology for indicator 6.5.2, developed by UNECE and UNESCO in the framework of UN-Water, should be referred to for details on the necessary data, the definitions and the calculation.^a
- 3. The value of the indicator at the national level is derived by adding up the surface area in a country of those transboundary basins (river and lake basins and aquifers) that are covered by an operational arrangement and dividing the area obtained by the aggregate total area in a country of all transboundary basins (both river and lake basins, and aquifers).
- 4. Transboundary basins are basins of transboundary waters, that is, of any surface waters (notably rivers, lakes) or groundwaters which mark, cross or are located on boundaries between by two or more States. For the purpose of the calculation of this indicator, for a transboundary river or lake, the basin area is determined by the extent of its catchment. For groundwater, the area to be considered is the extent of the aquifer.
- 5. An "arrangement for water cooperation" is a bilateral or multilateral treaty, convention, agreement or other formal arrangement among riparian countries that provides a framework for cooperation on transboundary water management.
- 6. For an arrangement to be considered "operational" all the following criteria need to be in place in practice:
- (a) There is a joint body, joint mechanism or commission (e.g., a river basin organization) for transboundary cooperation (criterion 1);
- (b) There are regular (at least once per year) formal communications between riparian countries in form of meetings (either at the political or technical level) (criterion 2);
- (c) Joint objectives, a common strategy, a joint or coordinated management plan, or an action plan have been agreed upon by the riparian countries (criterion 3):
- (d) There is a regular (at least once per year) exchange of data and information (criterion 4).

Calculation of indicator 6.5.2

- 7. Please list in the tables below the transboundary basins (rivers and lakes and aquifers) in your country's territory and provide the following information for each of them:
 - (a) The country/ies with which the basin is shared;
- (b) The surface area of the basin (the catchment of rivers or lakes and the aquifer in the case of groundwater) within the territory of your country (in square kilometres (km²));

^a Available from the UN-Water website: https://www.sdg6monitoring.org/indicators/target-65/indicators652/ (updated version "2020").

- (c) Whether a map and/or a geographical information system (GIS) shapefile of the basin has been provided;
 - (d) Whether there is an arrangement in force for the basin;
 - (e) The verification of each of the four criteria to assess operationality;
- (f) The surface area of the basin within the territory of your country which is covered by a cooperation arrangement that is operational according to the above criteria.
- 8. In case an operational arrangement is in place only for a sub-basin or a portion of a basin, please list this sub-basin just after the transboundary basin it is part of. In case there is an operational arrangement for the whole basin, do not list sub-basins in the table below.

Table 1 Transboundary river or lake basin (please add rows as needed)

Name of transboundary river or lake basin/sub-basin	It is a basin or a sub- basin? ^b	Countries shared with		Map and/or GIS shapefile provided (yes/no)	Covered by an arrangement (entirely, partly, no) (Ref. to questions in sect. II)	Criterion I applied (yes/no) (Ref. to questions in sect. II)	Criterion 2 applied (yes/no) (Ref. to questions in sect. II)	Criterion 3 applied (yes/no) (Ref. to questions in sect. II)	Criterion 4 applied (yes/no) (Ref. to questions in sect. II)	Surface area of the basin/ sub-basin (in km²) covered by an operational arrangement within the territory of the country
Sava River Basin	Basin	Bosnia and Herzegovina, Slovenia, Croatia, Serbia, Montenegro and Albania	38.349,10 ^c	yes	partly	yes	yes	yes	yes	38,349.10
Adriatic Sea Watershed Area including Trebisnjica River Basin District	Basin	Bosnia and Herzegovina, Croatia and Montenegro	12.935,00 ^d	yes	partly	yes	yes	yes	yes	10.955,00
(A) Total surface area of transboundary basins/sub-basins of rivers and lakes covered by operational arrangements within the territory of the country (in km²) (do not double count sub-basins)									49.304,10	
(B) Total surface area of transbour and lakes within the territory o			51.284,10							

b List sub-basins after the basin they belong to.
c Joint Sava river Basin Management Plan developed under ISRBC
d 8.877 km² in FBiH (Adriatic sea watershed area management plan, 4.058 km² in RS (Trebisnjica river basin district management plan)

Name of transboundary river or lake basin/sub-basin	It is a basin or a sub- basin? ^b		the territory	Map and/or GIS shapefile provided	Covered by an arrangement (entirely, partly, no) (Ref. to questions in sect. II)	(yes/no) (Ref. to questions in	Criterion 2 applied (yes/no) (Ref. to questions in sect. II)	applied (yes/no) (Ref. to questions in	Criterion 4 applied (yes/no) (Ref. to questions in sect. II)	Surface area of the basin/sub-basin (in km²) covered by an operational arrangement within the territory of the country
(do not double count sub-basins)										

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Table 2 **Transboundary aquifers (please add rows as needed)**

Name of the transboundary aquifer	Countries shared with	Surface area of the aquifer ^e (in km ²) within the territory of the country	Map and/ or GIS shapefile provided (yes/no)	Covered by an aquifer specific arrangement (entirely, partly, no) (Ref. to questions in sect. II)	Covered within an arrangement not specific to the aquifer (entirely, partly, no) (Ref. to questions in sect. II)	Criterion I applied (yes/no) (Ref. to questions in sect. II)	Criterion 2 applied (yes/no) (Ref. to questions in sect. II)	Criterion 3 applied (yes/no) (Ref. to questions in sect. II)	Criterion 4 applied (yes/no) (Ref. to questions in sect. II)	Surface area of the aquifer (in km²) covered by an opera- tional arrange- ment within the territory of the country
Gornji sliv Korane - Cazin	Bosnia and Herzegovina and Croatia	124,7	yes	no	entirely	yes	yes	yes	yes	124,7
Gornji sliv Une	Bosnia and Herzegovina and Croatia	1.171,9	yes	no	entirely	yes	yes	yes	yes	1.171,9
Romanija-Devetak	Bosnia and Herzegovina and Serbia	1.337.3	yes	no	no	no	no	no	no	0
Posavina	Bosnia and Herzegovina and Croatia	1.601,4	yes	no	entirely	yes	yes	yes	yes	1.601,4
Lijevce polje	Bosnia and Herzegovina and Croatia	595,7	yes	no	entirely	yes	yes	yes	yes	595,7

^e For a transboundary aquifer, the extent is derived from the aquifer system delineation which is commonly done relying on information of the subsurface (notably the extent of geological formations). As a general rule, the delineation of aquifer systems is based on the delineation of the extent of the hydraulically connected water-bearing geological formations. Aquifer systems are three-dimensional objects and the aquifer area taken into account is the projection on the land surface of the system. Ideally, when different aquifer systems not hydraulically connected are vertically superposed, the different relevant projected areas are to be considered separately, unless the different aquifer systems are managed conjunctively.

f In the text of the agreement or arrangement or in the practice.

	Т		1	_	1	1	Т	Т	1	1
Name of the transboundary	Countries shared	Surface area of the aquifer (in km²) within the territory of the	Map and/or GIS shapefile provided	Covered by an aquifer specific arrangement (entirely, partly, no) (Ref. to questions in	Covered within an arrangement not specific to the aquifer ^f (entirely, partly, no) (Ref. to questions in	Criterion I applied (yes/no) (Ref. to questions in	Criterion 2 applied (yes/no) (Ref. to questions in	Criterion 3 applied (yes/no) (Ref. to questions in	Criterion 4 applied (yes/no) (Ref. to questions in	Surface area of the aquifer (in km²) covered by an operational arrangement within the territory of the
aquifer	with	country	(yes/no)	sect. II)	sect. II)	sect. II)	sect. II)	sect. II)	sect. II)	country
Semberija	Bosnia and Herzegovina and Serbia	465,1	yes	no	no	no	no	no	no	0
Tara-Cehotina	Bosnia and Herzegovina and Montenegro	245,2	yes	no	no	no	no	no	no	0
Dubicko polje	Bosnia and Herzegovina and Croatia	147,1	yes	no	entirely	yes	yes	yes	yes	147,1
Gornja Drina	Bosnia and Herzegovina and Montenegro	463,9	yes	no	no	no	no	no	no	0
Posusje-Imotski	Bosnia and Herzegovina and Croatia	297,61	yes	no	entirely	yes	yes	yes	yes	297,61
Tihaljina	Bosnia and Herzegovina and Croatia	252,57	yes	no	entirely	yes	yes	yes	yes	252,57
Prud	Bosnia and Herzegovina and Croatia	121,27	yes	no	entirely	yes	yes	yes	yes	121,27
Neretva lijeva obala	Bosnia and Herzegovina and Croatia	104,06	yes	no	entirely	yes	yes	yes	yes	104,06
Aluvij Capljina	Bosnia and Herzegovina and	40,98	yes	no	entirely	yes	yes	yes	yes	40,98

Name of the transboundary aquifer	Countries shared with	Surface area of the aquifer (in km²) within the territory of the country	Map and/ or GIS shapefile provided (yes/no)	Covered by an aquifer specific arrangement (entirely, partly, no) (Ref. to questions in sect. II)	Covered within an arrangement not specific to the aquifer (entirely, partly, no) (Ref. to questions in sect. II)	Criterion 1 applied (yes/no) (Ref. to questions in sect. II)	Criterion 2 applied (yes/no) (Ref. to questions in sect. II)	Criterion 3 applied (yes/no) (Ref. to questions in sect. II)	Criterion 4 applied (yes/no) (Ref. to questions in sect. II)	Surface area of the aquifer (in km²) covered by an operational arrange-ment within the territory of the country
Zavrlje	Bosnia and Herzegovina and Croatia	49,14	yes	no	entirely	yes	yes	yes	yes	49,14
Duboka ljuta	Bosnia and Herzegovina and Croatia	82,70	yes	no	entirely	yes	yes	yes	yes	82,70
Ombla	Bosnia and Herzegovina and Croatia	577,63	yes	no	entirely	yes	yes	yes	yes	577,63
Zaton	Bosnia and Herzegovina and Croatia	29,35	yes	no	entirely	yes	yes	yes	yes	29,35
Doli-Slano	Bosnia and Herzegovina and Croatia	152,96	yes	no	entirely	yes	yes	yes	yes	152,96
Bistrina	Bosnia and Herzegovina and Croatia	24,87	yes	no	entirely	yes	yes	yes	yes	24,87
Butina	Bosnia and Herzegovina and Croatia	4,75	yes	no	entirely	yes	yes	yes	yes	4,75
Vrgoracka banja	Bosnia and Herzegovina and Croatia	27,48	yes	no	entirely	yes	yes	yes	yes	27,48

Name of the transboundary aquifer	Countries shared with	Surface area of the aquifer ^e (in km²) within the territory of the country	Map and/ or GIS shapefile provided (yes/no)	Covered by an aquifer specific arrangement (entirely, partly, no) (Ref. to questions in sect. II)	Covered within an arrangement not specific to the aquifer (entirely, partly, no) (Ref. to questions in sect. II)	Criterion 1 applied (yes/no) (Ref. to questions in sect. II)	Criterion 2 applied (yes/no) (Ref. to questions in sect. II)	Criterion 3 applied (yes/no) (Ref. to questions in sect. II)	Criterion 4 applied (yes/no) (Ref. to questions in sect. II)	Surface area of the aquifer (in km²) covered by an operational arrangement within the territory of the country
Lijeva obala rijeke Cetine	Bosnia and Herzegovina and Croatia	1071,68	yes	no	entirely	yes	yes	yes	yes	1071,68
Gornji tok rijeke Krke	Bosnia and Herzegovina and Croatia	335,47	yes	no	entirely	yes	yes	yes	yes	335,47
Konavoska ljuta	Bosnia and Herzegovina and Croatia	87	yes	no	entirely	yes	yes	yes	yes	87
(C) Sub-total: surface area of transboundary aquifers covered by operational arrangements (in km²)				· 			_			6.900,32
(D) Total surface area of transboundary aquifers (in km²)		9.411,82								

Indicator value for the country

Surface waters:

Percentage of surface area of transboundary basins of rivers and lakes covered by an operational arrangement:

 $A/B \times 100 = 49.304, 10/51.284, 10 \times 100 = 96,14\%$

Aquifers:

Percentage of surface area of transboundary aquifers covered by an operational arrangement:

 $C/D \times 100 = 6.900,32/9.411,82 \times 100 = 73,31\%$

Sustainable Development Goal indicator 6.5.2:

Percentage of surface area of transboundary basins covered by an operational arrangement:

$$((A + C)/(B + D)) \times 100 = ((49.304, 10 + 6.900, 32)/(51.284, 10 + 9.411, 82)) \times 100 = 92,59\%$$

Spatial information

If a map (or maps) of the transboundary surface water catchments and transboundary aquifers (i.e., "transboundary basins") is available, please consider attaching them. Ideally, shapefiles of the basin and aquifer delineations that can be viewed in GIS should be sent.

Following maps are attached to this report:

- 1. Danube River Basin District Overview,
- 2. Sava River Basin Overview,
- 3. Sava River Basin in BiH,
- 4. Transboundary Aquifers in the Sava River Basin,
- 5. Adriatic Sea Watershed Area including Trebisnjica River Basin District,
- Transboundary Aquifers in the Adriatic Sea Watershed Area including Trebisnjica River Basin District.

Additional information

If the respondent has comments that clarify assumptions or interpretations made for the calculation, or the level of certainty of the spatial information, please write them here:

All data used for calculation of Indicator were taken from River Basin Management Plans adopted in Bosnia and Herzegovina.

Does your country have transboundary agreements or arrangements for the protection and/or management of transboundary waters (i.e., rivers, lakes or groundwater), whether bilateral or multilateral?

Yes	No.	
100	12/1/11/0/1	

If yes, list the bilateral and multilateral agreements or arrangements (listing for each of the countries concerned):

[Multilateral:

- 1. Convention on the Protection and Use of Transboundary Watercourses and International Lakes (Water Convention)¹,
- 2. Convention on Cooperation for the Protection and Sustainable use of the Danube River (Danube River Protection Convention)² (Contracting Parties to the Convention are Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Moldova, Montenegro, Romania, Slovakia, Slovenia, Serbia, Ukraine and the European Union)
- 3. Framework Agreement on the Sava River Basin (FASRB)³ (Contracting parties to the agreement are Bosnia and Herzegovina, Croatia, Serbia and Slovenia). Since Montenegro is not part to the FASRB cooperation with this country is regulated through Memorandum of Understanding signed between Sava Commission and Montenegro back in 2013.

In addition to FASRB following Protocols have been signed in order to further elaborate and determine cooperation between countries in the Sava River Basin⁴:

- a. Protocol on Prevention of Water Pollution caused by Navigation to FASRB
- b. Protocol on Flood Protection to FASRB
- c. Protocol on Sediment Management to FASRB
- d. Policy on the Exchange of Hydrological and Meteorological Data and Information in the Sava River Basin
- e. Memorandum of Understanding on Cooperation Concerning Regular Functioning and Maintenance of the Flood Forecasting and Warning System in the Sava River Basin⁵.
- 4. Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean (Barcelona convention)

³ http://www.savacommission.org

http://www.unece.org

² www.icpdr.org

⁴ Additional Protocol on emergency Situations is under negotiations

⁵ MoU signed on 1 July 2020

Bilateral:

- 1. 1996 Agreement between Government of Bosnia and Herzegovina and Government of Republic of Croatia on regulation of water management relations⁶,
- 2. 2005 Agreement between the Council of Ministers of BiH and the Government of Croatia on joint financing, maintenance and operation of the regional waste water system Komarna-Neum-Mljet channel,
- 2015 Agreement between the Council of Ministers of BiH and the Government of Croatia on rights and obligations for usage of public water supply systems crossing across state's borders.

Bilateral agreements on cooperation in the field of water management with two other neighbouring countries Montenegro and Serbia are planned to be agreed and signed in coming years.]

II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar. In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

Name of the transboundary basin,-sub-basin, part of a basin or group of basins:

[Sava River Basin]

List of the riparian States:

[Bosnia and Herzegovina (39,25%), Croatia (25,97%), Serbia (15,50%), Slovenia (12,01%), Montenegro (7,09%), Albania (0,18%)]

In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:

Unconfined aquifer connected to a river or lake	
Unconfined aquifer with no or limited relation with surface water	
Confined aquifer connected to surface water	

In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

⁸ In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

Confi	ined aquifer with no or limited relation with surface water						
Other	t						
	Please describe: [fill in]						
Unkn	own						
	entage of your country's territory within the basin, sub-basin, part of a kp of basins:	oasin or					
[39,2	5%]						
1.	Is there one or more transboundary (bilateral or multilateral) agreeme arrangement(s) on this basin, sub-basin, part of a basin or group of basins?	nt(s) or					
	One or more agreements or arrangements exist and are in force	\boxtimes					
	Agreement or arrangement developed but not in force						
	Agreement or arrangement developed, but not in force for all riparians						
	Please insert the name of the agreement(s) or arrangement(s)						
	ramework Agreement on the Sava River Basin (FASRB) and additional protocy document to this agreement as follows:	cols and					
1.1. F	Protocol on Prevention of Water Pollution caused by Navigation to FASRB						
1.2. F	Protocol on Flood Protection to FASRB						
1.3. F	Protocol on Sediment Management to FASRB						
	Policy on the Exchange of Hydrological and Meteorological Data and Inform he Sava River Basin	nation in					
	Memorandum of Understanding on Cooperation Concerning Regular Function Maintenance of the Flood Forecasting and Warning System in the Sava River E	•					
	Memorandum of Understanding signed between International Sava Rive Commission and Montenegro	r Basin					
3. Reput 4. on joi Neum 5. on rig	 Convention on Cooperation for the Protection and Sustainable use of the Danube River (Danube River Protection Convention) Agreement between Government of Bosnia and Herzegovina and Government of Republic of Croatia on regulation of water management relations, Agreement between the Council of Ministers of BiH and the Government of Croatia on joint financing, maintenance and operation of the regional waste water system Komarna-Neum-Mljet channel, 						
	Agreement or arrangement is under development	\boxtimes					
	No agreement or arrangement						

 $^{^{\}rm 9}$ Formally accepted by all five countries, to be signed by the end of June 2020

If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation:

[Priority of the Council of Ministers of Bosnia and Herzegovina is to sign bilateral agreements with Republic of Serbia and Montenegro on transboundary water cooperation.

Draft Agreement with the Government of Republic of Serbia is already prepared, however agreement still is not signed due to other issues not directly linked to transboundary water management between two countries such as still not agreed position of the interstate borders and opened issues related to usage of hydropower potential on the Drina river.

Initial draft agreements between Bosnia and Herzegovina and Montenegro were exchanged, however further development of the agreement is not progressing due to opened issues related to usage of the hydropower potential on the Trebisnjica river.]

If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.

Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.

2.	(a) D	oes this agreement or arrangement specify the area subject to cooperation?
	Yes ⊠/ľ	No 🗌
	If yes, do	bes it cover the entire basin or group of basins and all riparian States?
	Yes \[\]/\!	No 🖂
	Addition	al explanations?
	and Herz area. Mo Montene	with its Protocols covers entirely parts of the Sava River Basin in Bosnia regovina, Croatia, Serbia and Slovenia which is 92,73% of the whole basin contenegro ¹⁰ and Albania ¹¹ are not covered by the FASRB. However, gro and International Sava River Basin Commission (ISRBC), established ASRB, signed Memorandum of Understanding in 2013.
		gro is party to the Danube River Protection Convention and full member of onal Commission for Protection of Danube River (ICPDR).]
	Or, if the sub-basin	e agreement or arrangement relates to a sub-basin, does it cover the entire n?
	Yes \[\]/\!	No 🔀
	Addition	al explanations?
	[Sava riv	ver Basin is the largest sub-basin in the Danube River Basin. FASRB with ocols covers entirely parts of the Sava River Basin in Bosnia and

Herzegovina, Croatia, Serbia and Slovenia which is 92,73% of the whole basin area. Montenegro and Albania are not covered by the FASRB. However, Montenegro and

¹⁰ Part of the Sava River Basin in Montenegro is 7,09%

¹¹ Part of the Sava River Basin in Albania is 0,18%

International Sava River Basin Commission (ISRBC), established by the FASRB, signed Memorandum of Understanding in 2013.

Montenegro is party to the Danube River Protection Convention and full member of International Commission for Protection of Danube River (ICPDR).]

Which States (including your own) are bound by the agreement or arrangement? (*Please list*):

Bosnia and Herzegovina, Croatia, Serbia and Slovenia are parties to the FASRB.

Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Moldova, Montenegro, Romania, Serbia, Slovakia, Slovenia, Ukraine are parties to the Danube River Protection Convention.

Bosnia and Herzegovina and Croatia are parties to the bilateral agreement between Government of Bosnia and Herzegovina and Government of Republic of Croatia on regulation of water management relations.

It is important to stress that activities under these agreements complement each other.]

(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes	⊠/No	
100	12 31/13/0	

If yes, please list the aquifers covered by the agreement or arrangement:

[Danube River Protection Convention covers Danube river basin in above listed countries. However Danube river basin management plan covers surface and groundwater bodies which size is greater than 4000 km². There are no aquifers of this size identified within the Danube river basin management plan.

FASRB covers Sava river basin in above listed countries. However Sava river basin management plan covers surface and groundwater bodies which size is greater than 1000 km² and they are: Posavina II, Ronamija-Devetak-Sjemec, Treskavica-Zelengora-Lelija-Maglic, Manjaca-Cemernica-Vlasic, Grmec-Srnetica-Lunjevica-Vitorog, Unac and Pljesevica.

Except for Plješevica, these groundwater bodies are not transboundary. Plješevica has a very small size (120 km2) (please see

 $http://www.savacommission.org/dms/docs/dokumenti/srbmp_micro_web/backgroundpapers_approved/no_2_background_paper_gwbs_in_the_sava_rb.pdf).$

Bilateral cooperation with Croatia on Sava River Basin covers following aquifers: Gornji sliv Korane – Cazin, Gornji sliv Une, Posavina, Lijevce polje and Dubicko polje.]

(c) What is the sectoral scope of the agreement or arrangement?	
All water uses	\boxtimes
A single water use or sector	
Several water uses or sectors	
If one or several water uses or sectors, please list (check as approp	riate):
Water uses or sectors	
Industry	
Agriculture	

	Transport (e.g., navigation)	
	Households	
	Energy: hydropower and other energy types	
	Fisheries	
	Tourism	
	Nature protection	
	Other (please list): [fill in]	
(d) arrar	What topics or subjects of cooperation are included in the agreement?	ement or
	Procedural and institutional issues	
	Dispute and conflict prevention and resolution	\boxtimes
	Institutional cooperation (joint bodies)	\boxtimes
	Consultation on planned measures	
	Mutual assistance	\boxtimes
	Topics of cooperation	
	Joint vision and management objectives	\boxtimes
	Joint significant water management issues	\boxtimes
	Navigation	\boxtimes
	Human health	\boxtimes
	Environmental protection (ecosystem)	\boxtimes
	Water quality	\boxtimes
	Water quantity or allocation	\boxtimes
	Cooperation in addressing floods	\boxtimes
	Cooperation in addressing droughts	\boxtimes
	Climate change adaptation	\boxtimes
	Monitoring and exchange	
	Joint assessments	\boxtimes
	Data collection and exchange	
	Joint monitoring	\boxtimes
	Maintenance of joint pollution inventories	
	Elaboration of joint water quality objectives	
	Common early warning and alarm procedures	\boxtimes
	Exchange of experience between riparian States	
	Exchange of information on planned measures	
	Joint planning and management	
	Development of joint regulations on specific topics	\boxtimes

	Development of international or joint river, lake or aquifer basin management or action plans	\boxtimes
	Management of shared infrastructure	\boxtimes
	Development of shared infrastructure	\boxtimes
	Other (please list): [fill in]	
(e) agree	What are the main difficulties and challenges that your country faces ment or arrangement and its implementation, if any?	s with the
	Aligning implementation of agreement or arrangement with national laws, policies and programmes	
	Aligning implementation of agreement or arrangement with regional laws, policies and programmes	
	Lack of financial resources	\boxtimes
	Insufficient human capacity	\boxtimes
	Insufficient technical capacity	\boxtimes
	Tense diplomatic relations	
	Non-participation of certain riparian countries in the agreement	\boxtimes
	No significant difficulties	
	Other (please describe): [fill in]	

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

[Main achievements under the FASRB are: International Sava River Basin Commission was established and it is operational since 2004; Sava River Basin Management Plan was adopted; in addition to FASRB several Protocols have agreed; SavaGIS and SavaHIS platforms for data exchange are developed and they are operational; Flood Risk Management Plan was adopted; Joint flood forecasting and warning system is developed and it is operational, navigation is improved, new joint development programmes for navigation and flood protection are identified, additional financing mechanisms are catalysed, support to development of sustainable tourism in Sava River Basin is provided.

Main achievements under the Danube River Protection Convention are: International Commission for the Protection of Danube River is operational for more than 15 years, Danube River Basin management Plan was adopted, Flood Risk Management Plan was adopted, Trans National Monitoring Network is operational, Joint Danube Survey being conducted every 3 years, improved chemical and ecological quality of basin, accident prevention control and warning system is developed.

Main achievements under bilateral agreement between Bosnia and Herzegovina and Croatia are: bilateral Commission for Water Management Cooperation is operational since 2006, Commission discuss bilateral issues between two countries; additional Agreement on rights and obligations for usage of public water supply systems crossing across state's borders signed; Countries throughout bilateral Commission and sub-commissions approve operational costs, investment costs and tariffs of the water supply and sanitation systems jointly constructed and operated by both countries and systems that are crossing across state's borders, throughout bilateral Commission countries discuss projects of transboundary relevance, number of capacity building, scientific and investments projects in the water sector has been

	successfully implemented, joint regulation on protection of sanitary zones is under development etc.]
	(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (please attach document or insert web address, if applicable):
	[FASRB and related protocols and policy https://www.savacommission.org/basic_docs
	Danube River Protection Convention https://www.icpdr.org/main/icpdr/danuberiver-protection-convention
	Agreement between Government of Bosnia and Herzegovina and Government of Republic of Croatia on regulation of water management relations is attached to this Report as Annex 1.]
3.	Is your country a member of any joint body or mechanism for this agreement or arrangement?
	Yes ⊠/No □
	If no, why not? (please explain): [fill in]
	Where there is a joint body or mechanism
	(a) If there is a joint body or mechanism, which kind of joint body or mechanism (please tick one)?
	Plenipotentiaries
	Bilateral commission
	Basin or similar commission
	Expert group meeting or meeting of national focal points
	Other (please describe): [fill in]
	(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?
	Yes □/No ⊠
	(c) Which States (including your own) are members of the joint body or mechanism? (Please list):
	[Bosnia and Herzegovina, Slovenia, Croatia and Serbia are members of ISRBC.
	Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Moldova, Montenegro, Romania, Serbia, Slovakia, Slovenia, Ukraine are members of ICPDR.
	Bosnia and Herzegovina and Croatia are members of Bilateral Commission for water management cooperation
	It is important to stress that activities of these commissions complement each other.]
	(d) Are there any riparian States that are not members of the joint body or mechanism? (please list):
	[Montenegro is not member of the ISRBC.
	Albania, Italy, North Macedonia, Poland and Switzerland are not members of ICPDR due to small parts of the basin in these countries.]

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?
No cooperation
They have observer status
Other (please describe):
[Montenegro and ISRBC signed Memorandum of Understanding in 2013 which enabled participation of Montenegro in the activities of ISRBC such as River basin management plan development, flood risk management plan development, data exchange, development, regular operation and maintenance of the flood forecasting and early warning system, cross sectorial cooperation etc. Albania has tiny part of the Sava River Basin (0,18%) and it is not member of ISRBC.
Cooperation with Albania in Sava River Basin was not established since tiny part of the Sava River Basin (0,18%) belongs to Albania.
Due to small size of the Danube basin in Albania, Italy, North Macedonia, Poland and Switzerland ICPDR did not established regular cooperation with these countries.]
(f) Does the joint body or mechanism have any of the following features (<i>please tick the ones applicable</i>)?
A secretariat
If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):
[Following article 18 of the FASRB, ISRBC had established joint Secretariat. Seat of the Secretariat is in Zagreb (Croatia). Secretariat staff is employed from all four countries. Operation of ISRBC and its Secretariat is financed through annual contributions of the countries.
ICPDR established Permanent Secretariat with seat in Vienna. Operations of ICPDR and its Secretariat are financed through annual contribution of the countries.]
A subsidiary body or bodies
Please list (e.g., working groups on specific topics):
[ISRBC had established following expert and ad-hoc groups: Permanent Expert Group for Navigation, Permanent Expert Group for River Basin Management, Permanent Expert Group for Accident Prevention and Control, Permanent Expert Group for Flood Prevention, Ad-hoc Legal Expert Group, Ad-hoc Expert Group for Hydrological and Meteorological Issues, Ad-hoc Expert Group for Hydrological Issues related to Navigation, Ad-hoc GIS Expert Group, Ad-hoc RIS Expert Group, Ad-hoc Financial Expert Group. Each country have nominated their representatives to the above listed groups. Secretariat is coordinating and chairing each of the group.
ICPDR had established following expert and task groups: Expert Group for River

Basin Management, Expert Group for Flood Protection, Expert Group for Pressures and Measures, Expert Group for Accident Prevention and Control, Expert Group for Monitoring and Assessement, Expert Group for Information Management and Geographic Information Systems, Expert Group for Public Participation, Strategic Expert Group, Economic Task Group, Ground Water Task Group, Hydromorphology Task Group, Nutritient Task Group, and Climate Change Task Group.

Bilateral Commission for Water Management Cooperation between BiH and Croatia had established two sub-commissions: Sub-commission for Black sea watershed area, and Sub-commission for Adriatic sea watershed area.]

Other features (please list): [fill in]

(g)	What are the tasks and activities of this joint body or mechanism? ¹²	
	Identification of pollution sources	\boxtimes
	Data collection and exchange	\boxtimes
	Joint monitoring	\boxtimes
	Maintenance of joint pollution inventories	\boxtimes
	Setting emission limits	
	Elaboration of joint water quality objectives	\boxtimes
	Management and prevention of flood or drought risks	\boxtimes
	Preparedness for extreme events, e.g., common early warning and alarm procedures	\boxtimes
	Surveillance and early warning of water related disease	
	Water allocation and/or flow regulation	\boxtimes
	Policy development	\boxtimes
	Control of implementation	\boxtimes
	Exchange of experience between riparian States	\boxtimes
	Exchange of information on existing and planned uses of water and related installations	\boxtimes
	Settling of differences and conflicts	\boxtimes
	Consultations on planned measures	\boxtimes
	Exchange of information on best available technology	\boxtimes
	Participation in transboundary EIA	
	Development of river, lake or aquifer basin management or action plans	\boxtimes
	Management of shared infrastructure	\boxtimes
	Addressing hydromorphological alterations	\boxtimes
	Climate change adaptation	\boxtimes
	Joint communication strategy	\boxtimes
	Basin-wide or joint public participation and consultation of, for example, basin management plans	\boxtimes
	Joint resources to support transboundary cooperation	\boxtimes

This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

Capacity-building	\boxtimes
Any other tasks (please list): [fill in]	
(h) What are the main difficulties and challenges that your country far operation of the joint body or mechanism, if any?	ces with the
Governance issues	
Please describe, if any: [fill in]	
Unexpected planning delays	
Please describe, if any: [fill in]	
Lack of resources	\boxtimes
Please describe, if true:	
[Operation of the Joint Secretariats under the ICPDR and financed through regular annual contributions. However, these care not sufficient to finance implementation of all planned activitic commissions very much relay on the external financing from variats well as on the activities and support from the institutions and each country. Additionally, budgets of the national institutions do enough resources to ensure participation of required number of ethe countries.]	ontributions les thus both lous sources experts from not provide
Lack of mechanism for implementing measures	
Please describe, if true: [fill in]	
Lack of effective measures	
Please describe, if true: [fill in]	
Unexpected extreme events	
Please describe, if any: [fill in]	
Lack of information and reliable forecasts	\boxtimes
Please describe, if any:	
[In same cases where there were/is no continuous (hydrometeorological, hydromorphological, ground water, clin etc.) information are missing.]	monitoring nate change
Others (please list and describe, as appropriate): [fill in]	
(i) Does the joint body or mechanism, or its subsidiary bodies meet r	egularly?
Yes ⊠/No□	
If yes, how frequently does it meet?	
More than once per year	\boxtimes
Once per year	
Less than once per year	
(j) What are the main achievements with regards to the join mechanism?	nt body or
[Please see respond on question 2.f.]	

	State to cooperate?	
	Yes □/No ⊠	
	If yes, please give details. If no, why not, e.g. are the relevant coastal State riparian States and therefore already members of the joint body or mechanism	
	[Question is not relevant for the Sava River Basin.	
	Regular cooperation with costal countries and joint bodies such as Blac Commission have been established throughout the activities of the ICPDR.]	ck Sea
4.	Have joint objectives, a common strategy, a joint or coordinated management or action plan been agreed for the basin, sub-basin, part of a basin or grabasins?	
	Yes ⊠/No□	
	If yes, please provide further details:	
	[According to article 12 of FASRB, Sava River Basin Management Plan adopted by the Parties in December 2014. Plan is developed in line with EU Framework Directive and other relevant EU legislation. Regular update of th River Basin Management Plan is ongoing.	Water
	According to article 8 of the Protocol on Flood Protection to FASRB Parties a Joint Flood Risk Management Plan for the Sava River Basin at the 8 th Mee the Parties, held in October 2019.	
	Under the activities of the ICPDR Danube River Basin Management Plan 2021) and Danube Flood Risk Management Plan (2016-2021) were adopt December 2015, and confirmed by the Ministerial Declaration in February Regular update of both plans is ongoing ¹⁴ .]	oted in
5.	How is the transboundary basin,—sub-basin, part of a basins or group of protected, including the protection of ecosystems, in the context of sustainabrational water use?	
	Regulation of urbanization, deforestation, and sand and gravel extraction.	\boxtimes
	Environmental flow norms, including consideration of levels and seasonality	\boxtimes
	Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals	\boxtimes
	Water-related species and habitats protection	\boxtimes
	Other measures (please describe): [fill in]	
6.	(a) Does your country regularly exchange information and data with riparian States in the basin, sub-basin, part of a basin or group of basins?	other
	Yes ⊠/No □	
	(b) If yes, how often:	

Did the joint body or mechanism ever invite a non-riparian coastal

(k)

http://www.savacommission.org/srbmp/
 https://www.icpdr.org/main/management-plans-danube-river-basin-published

	More than once per year	
	Once per year	\boxtimes
	Less than once per year	
(c) meetin	Please describe how information is exchanged (e.g. in connections of joint bodies):	on with
establ Dynar priorit linked	t was explained earlier there are several expert and ad-hoc/task ished to deal with specific issues. Each of these groups has its own mics of activities of each group related to data exchange vary depending and agenda. The most intensive data collection and exchange camber to preparation of the River Basin Management Plans and Floorgement Plans. However most of the information are exchanged on an analysis.	nandate. ng to its paign is od Risk
(d)	If yes, on what subjects are information and data exchanged?	
	Environmental conditions	\boxtimes
	Research activities and application of best available techniques	\boxtimes
	Emission monitoring data	\boxtimes
	Planned measures taken to prevent, control or reduce transboundary impacts	\boxtimes
	Point source pollution sources	\boxtimes
	Diffuse pollution sources	\boxtimes
	Existing hydromorphological alterations (dams, etc.)	\boxtimes
	Flows or water levels (including groundwater levels)	\boxtimes
	Water abstractions	\boxtimes
	Climatological information	\boxtimes
	Future planned measures with transboundary impacts, such as infrastructure development	\boxtimes
	Other subjects (please list): [fill in]	
	Other comments, e.g. spatial coverage of data and information exchanin]	ge: [fill
Yes 🛭	(e) Is there a shared database or information platform? ✓/No ☐	
	(f) Is the database publicly available?	
Yes 🛭	☑/No □	
If yes,	please provide the web address:	
[Sava GIS ht	tp://www.savagis.org/map	
Sava HIS htt	p://savahis.org/his;jsessionid=FD5DCC52E1891437B5CD08A4D72A0	0F0
ICPDR data	bases https://www.icpdr.org/main/publications/databases]	
(g)	What are the main difficulties and challenges to data exchange, if appl	icable?
Freque	ency of exchanges	

Timing of excl	hanges			
Comparability	of data and information	n		\boxtimes
Limited spatia	l coverage			
Inadequate res	ources (technical and/o	or financial)		\boxtimes
Other (please	describe): [fill in]			
Additional cor	nments: [fill in]			
	re the main benefits of of basins? (please desc	_	basin, sub-b	asin, part of a
sustainable a exchange imp interested com	ge is primarily focused water management is proves knowledge sha imunity toward the best information at river basi	sues at regional an aring, reduce dupli t available data and i	d basin-wide cation of e	e scale. Data fforts, direct
-	n States carry out join a basin or group of basin	_	transboundar	ry basin, sub-
Yes ⊠/No □				
[Transnational Monitoring Network (TNMN) is established under the ICPDR and it contains information on Sava River Basin.] (a) If yes, what does the joint monitoring cover?				
(a)	If yes, what does the join	int monitoring cover	!	
(a)	If yes, what does the joi	Hydrological	! Ecological	Chemical
Border surface waters				Chemical
	6			Chemical
Border surface waters	s entire basin			Chemical
Border surface waters Surface waters in the Surface waters on the	entire basin			Chemical
Border surface waters Surface waters in the Surface waters on the watercourse	entire basin main t of the basin		Ecological	
Border surface waters Surface waters in the Surface waters on the watercourse Surface waters in part	entire basin main t of the basin e oring is organised over basin under		Ecological	
Border surface waters Surface waters in the Surface waters on the watercourse Surface waters in part please describe [Hydrological monito for the whole Sava riv	entire basin main t of the basin e oring is organised ver basin under e sin covers main r basin. Please g/main/activities-		Ecological	
Border surface waters Surface waters in the Surface waters on the watercourse Surface waters in part please describe [Hydrological monito for the whole Sava riv the ISRBC. Please see TNMN in Danube bar rivers in Danube river see https://www.icpdr.org projects/tnmn-transna	entire basin main t of the basin e oring is organised ver basin under e sin covers main r basin. Please g/main/activities- ational-		Ecological	

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

 \boxtimes

Please describe:

[Trans National Monitoring Network is established under the ICPDR. Several national monitoring stations are connected through TNMN of ICPDR.]

Joint and agreed methodologies

 \boxtimes

Please describe:

[Methodologies in line with EU Directives are developed for different parameters.]

Joint sampling

 \boxtimes

Please describe:

[ICPDR in cooperation with all countries conducts Joint Danube Survey every three years.]

Common monitoring network

 \boxtimes

Please describe:

[Trans National Monitoring Network, please see above.]

Common agreed parameters

 \boxtimes

Please describe:

[The TNMN monitoring network derives from national surface water monitoring networks and includes at present 101 monitoring stations with up to three sampling points across the Danube and its main tributaries. The minimum sampling frequency is 12 times per year for chemical determinants in water and twice a year for biological parameters.

The assessment of loads in the Danube River also provides estimates of the influx of polluting substances into the Black Sea, which is a vital information to support policy development. This special load assessment programme was started in 2000, with pollution loads calculated for:

- Biochemical Oxygen Demand (BOD)5;
- Inorganic nitrogen;
- Ortho-phosphate-phosphorus;
- Dissolved phosphorus;
- Total phosphorus;
- Suspended solids;
- And on a discretionary basis chlorides.

The assessment of loads into the Black Sea is based on a larger set of substances including heavy metals.

Chemical substances list is updated regularly.]

(c) Please describe the main achievements regarding joint monitoring, if any:

[Joint monitoring provides long term data series on chemical and biological parameters which results with improvement of our knowledge and

		understanding of the basins status. This is ground for planning of mea be implemented.]	sures to
	(d)	Please describe any difficulties experienced with joint monitoring:	
		[Large number of institutions in all 14 countries of ICPDR are invojoint monitoring activities. Organisation and timely implementation of activities are always challenging activity.]	
8.		ne riparian States carry out joint assessment of the transboundary bas, part of a basin or group of basins?	in, sub-
	Yes [☑/No □	
	scope	s, please provide the date of the last or only assessment, the frequence (e.g., surface waters or groundwaters only, pollution sources, etc., sment, and assessment methodology applied:	
		assessments of the Danube and Sava River Basins are done wit opment of the River Basin Management Plans. Please see:	thin the
	https:	//www.icpdr.org/main/management-plans-danube-river-basin-published	1
	http://	/www.savacommission.org/srbmp/en/draft]	
9.	Have	the riparian States agreed to use joint water quality standards?	
	Yes [☑/No □	
		s, what standards have been applied, e.g. international or regional stasse specify which), or have national standards of the riparian Stated?	
		Water Framework Directive and its daughter Directives are key documed water quality standards.]	ents that
10.		are the measures implemented to prevent or limit the transboundary in ental pollution?	npact of
		Notification and communication	
		Coordinated or joint early warning or alarm system for accidental water pollution	\boxtimes
		Other (please list): [fill in]	
		No measures	
		If not, why not? What difficulties does your country face in in place such measures?: [fill in]	putting
11.		are the measures implemented to prevent or limit the transboundary in me weather events and climate change?	npact of
		Notification and communication	
		Coordinated or joint alarm system for floods	
		Coordinated or joint alarm system for droughts	
		Joint climate change adaptation strategy	\boxtimes
		Joint disaster risk reduction strategy	
		Other (please list): [fill in]	
		No measures	

in place such measures?: [fill in]	
12. Are procedures in place for mutual assistance in case of a critical situation?	
Yes ⊠/No □	
If yes, please provide a brief summary:	
[Article 11 of the Protocol on Flood Protection to Framework Agreement on Sa Basin regulates issues related to Flood defence emergency situations and mutual a Please http://www.savacommission.org/dms/docs/dokumenti/documents_publications/basments/protocols/protocol_on_flood_protection_to_the_fasrb/protocol_on_flood_proto_the_fasrb.pdf	ssistance. see ic_docu
Article 17 of the Danube river Protection Convention regulates issue of mutual a Please see https://www.icpdr.org/flowpaper/app/#page=10.]	ssistance.
13. Are the public or relevant stakeholders involved in transboundar management in the basin, sub-basin, part of a basin or group of basins?	ry water
Yes ⊠/No □	
If yes, how? (please tick all applicable)	
Stakeholders have observer status in a joint body or mechanism	\boxtimes
Stakeholders have an advisory role in the joint body	
Stakeholders have a decision-making role in the joint body	
If yes, please specify the stakeholders for the joint body or mechanism: [fill in]	
Intergovernmental organizations	\boxtimes
Private sectors organizations or associations	
Water user groups or associations	
Academic or research institutions	\boxtimes
Other non-governmental organizations	\boxtimes
General public	
Other (please specify): [fill in]	
Availability of information to the public	\boxtimes
Consultation on planned measures or river basin management plans ¹⁵	\boxtimes
Public involvement	\boxtimes
Other (please specify): [fill in]	

If not, why not? What difficulties does your country face in putting

¹⁵ Or, where applicable, aquifer management plans.

Please remember to complete section II for each of the transboundary basins, subbasin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.

Name of the transboundary basin,-sub-basin, part of a basin or group of basins: [Adriatic Sea Watershed Area including Trebisnjica River Basin District]

List of the riparian States:

[Bosnia and Herzegovina, Croatia and Montenegro]	
In the case of an aguifar what is the nature of the aguifar and its relation v	with th

_		
	he case of an aquifer, what is the nature of the aquifer and its relater or lake basin:	tion with the
Unc	confined aquifer connected to a river or lake	
Unc	confined aquifer with no or limited relation with surface water	
Con	fined aquifer connected to surface water	
Con	fined aquifer with no or limited relation with surface water	
Othe	er	
	Please describe: [fill in]	
Unk	nown	
	centage of your country's territory within the basin, sub-basin, part up of basins:	of a basin or
Bosi	riatic Sea Watershed Area stretches over several countries: Italy, Slov nia and Herzegovina, Montenegro and Albania. Size of the watershed a 235 km ² .]	
1.	Is there one or more transboundary (bilateral or multilateral) agarrangement(s) on this basin, sub-basin, part of a basin or group of basin	
	One or more agreements or arrangements exist and are in force	\boxtimes
	Agreement or arrangement developed but not in force	
	Agreement or arrangement developed, but not in force for all riparians	
	Please insert the name of the agreement(s) or arrangement(s)	
	Agreement between Government of Bosnia and Herzegovina and Gublic of Croatia on regulation of water management relations,	overnment of
join	Agreement between the Council of Ministers of BiH and the Government t financing, maintenance and operation of the regional waste water syst m-Mljet channel,	
righ	agreement between the Council of Ministers of BiH and the Government ts and obligations for usage of public water supply systems crossing ders	
	Convention for the Protection of the Marine Environment and the Coastal diterranean (Barcelona convention)]	Region of the
	Agreement or arrangement is under development	\boxtimes
	No agreement or arrangement	
	If there is no agreement or arrangement or it is not in force, please each why not and provide information on any plans to address the situation:	

[Priority of the Council of Ministers of Bosnia and Herzegovina is to sign bilateral agreement with Montenegro on transboundary water cooperation.

Initial draft agreements between Bosnia and Herzegovina and Montenegro were exchanged, however further development of the agreement is not progressing due to opened issues related to usage of the hydropower potential on the Trebisnjica river.]

If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.

Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.

(a) Does this agreement or arrangement specify the area subject to cooperation?
Yes ⊠/No □
If yes, does it cover the entire basin or group of basins and all riparian States?
Yes □/No ⊠
Additional explanations?
[Bilateral Agreement between Government of Bosnia and Herzegovina and Government of Republic of Croatia on regulation of water management relations covers parts of the Sava River Basin and Adriatic Sea Watershed Area including Trebisnjica River Basin District shared by Bosnia and Herzegovina and Croatia.
Part of the Adriatic Sea Watershed Area including Trebisnjica River Basin District shared by Bosnia and Herzegovina and Montenegro is not yet covered by the agreement.]
Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?
Yes □/No ⊠
Additional explanations?
[Please see previous respond.]
Which States (including your own) are bound by the agreement or arrangement? (<i>Please list</i>):
[Bosnia and Herzegovina and Croatia.]
(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?
Yes ⊠/No □
If yes, please list the aquifers covered by the agreement or arrangement:
[Bilateral cooperation with Croatia on the Adriatic Sea Watershed Area including Trebisnjica River Basin District covers following aquifers: Posusje-Imotski, Tihaljina, Prud, Neretva lijeva obala, Aluvij Capljina, Zavrlje, Duboka ljuta, Ombla, Zaton, Doli-Slano, Bistrina, Butina, Vrgoracka banja, Lijeva obala rijeke Cetine, Gornji tok rijeke Krke, Konavoska ljuta.]

(c) What is the sectoral scope of the agreement or arrangement?

2.

	All water uses	\boxtimes
	A single water use or sector	
	Several water uses or sectors	
	If one or several water uses or sectors, please list (check as appropriate): Water uses or sectors	
	Industry	
	Agriculture	
	Transport (e.g., navigation)	
	Households	
	Energy: hydropower and other energy types	
	Fisheries	
	Tourism	
	Nature protection	
	Other (please list): [fill in]	
(d) arran	What topics or subjects of cooperation are included in the agreement?	eement or
	Procedural and institutional issues	
	Dispute and conflict prevention and resolution	\boxtimes
	Institutional cooperation (joint bodies)	\boxtimes
	Consultation on planned measures	\boxtimes
	Mutual assistance	
	Topics of cooperation	
	Joint vision and management objectives	\boxtimes
	Joint significant water management issues	\boxtimes
	Navigation	\boxtimes
	Human health	\boxtimes
	Environmental protection (ecosystem)	\boxtimes
	Water quality	\boxtimes
	Water quantity or allocation	
	Cooperation in addressing floods	\boxtimes
	Cooperation in addressing droughts	\boxtimes
	Climate change adaptation	
	Monitoring and exchange	
	Joint assessments	
	Data collection and exchange	\boxtimes
	Joint monitoring	П

	Maintenance of joint pollution inventories	\boxtimes
	Elaboration of joint water quality objectives	\boxtimes
	Common early warning and alarm procedures	
	Exchange of experience between riparian States	\boxtimes
	Exchange of information on planned measures	\boxtimes
	Joint planning and management	
	Development of joint regulations on specific topics	\boxtimes
	Development of international or joint river, lake or aquifer basin management or action plans	
	Management of shared infrastructure	\boxtimes
	Development of shared infrastructure	\boxtimes
	Other (please list): [fill in]	
(e) agreei	What are the main difficulties and challenges that your country faces ment or arrangement and its implementation, if any?	with the
	Aligning implementation of agreement or arrangement with national laws, policies and programmes	
	Aligning implementation of agreement or arrangement with regional laws, policies and programmes	
	Lack of financial resources	\boxtimes
	Insufficient human capacity	\boxtimes
	Insufficient technical capacity	\boxtimes
	Tense diplomatic relations	
	Non-participation of certain riparian countries in the agreement	
	No significant difficulties	
	Other (please describe): [fill in]	
(f) arrang	What are the main achievements in implementing the agreer gement and what were the keys to achieving such success?	ment or
fully of improvements water coope place, infrast agreer	Commission for Water Management Cooperation was established a operational. Cooperation between institutions in both countries is sign oved, sub-commissions for the Black Sea Watershed Area and Adrirshed Area were established, joint projects have been created and impleration on the harmonisation of the legal framework in both countries is such as harmonisation of the sanitary protection zones, cooperation tructure developments of transboundary relevance is taking place, as ments have been developed and in forced 16, operation and maintenance tructure is regularly monitored, etc.]	ificantly atic Sea emented, is taking n on the Idditional

¹⁶ Please see respond on the list of the agreements

	(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (please attach document or insert web address, if applicable):
	[Bilateral Agreement between Government of Bosnia and Herzegovina and Government of Republic of Croatia on regulation of water management relations is attached to this Report as Annex 1.
	Barcelona convention is available on the following link: http://wedocs.unep.org/bitstream/handle/20.500.11822/7096/Consolidated_BC95_E ng.pdf?sequence=1&isAllowed=y]
3.	Is your country a member of any joint body or mechanism for this agreement or arrangement?
	Yes ⊠/No □
	If no, why not? (please explain): [fill in]
Where there is a joint body or mechanism	
	(a) If there is a joint body or mechanism, which kind of joint body or mechanism (please tick one)?
	Plenipotentiaries
	Bilateral commission
	Basin or similar commission
	Expert group meeting or meeting of national focal points
	Other (please describe): [fill in]
	(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?
	Yes □/No ⊠
	(c) Which States (including your own) are members of the joint body or mechanism? (<i>Please list</i>):
	[Bosnia and Herzegovina and Croatia are members of Joint Commission for Water Management Cooperation between Bosnia and Herzegovina and Croatia.
	In line with Article 4 of the Barcelona Convention the Mediterranean Commission on Sustainable Development (MCSD) was established as an advisory body to the Contracting Parties, to assist them in their efforts to integrate environmental issues in their socioeconomic programmes and, to promote sustainable development policies in the Mediterranean region. The MCSD is unique in its composition which includes, on an equal footing, government representatives, local authorities, socioeconomic actors, IGOs, and NGOs.]
	(d) Are there any riparian States that are not members of the joint body or mechanism? (please list):
	[Yes. Montenegro is not involved in bilateral cooperation between Bosnia and Herzegovina and Croatia.]
	(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?
	No cooperation

	They have observer status	
	Other (please describe):	
[fill in]	
(f) tick the	Does the joint body or mechanism have any of the following features <i>e ones applicable</i>)?	(please
	A secretariat	
	If the secretariat is a permanent one, is it a joint secreta does each country host its own secretariat? (Please describe):	riat or
Manag not ha	rding to Article 5. of the bilateral agreement, Joint Commission for gement Cooperation of Bosnia and Herzegovina and Republic of Croa ave Permanent Secretariat. Institutions in both countries are response administrative assistance to Commission and deal with all other relations.]	tia does sible to
	A subsidiary body or bodies	\boxtimes
	Please list (e.g., working groups on specific topics):	
[Joint Commission for Water Management Cooperation of Bosnia and Herzegovina and Republic of Croatia has mandate to establish permanent and ad-hoc expert groups. Following this three permanent subsidiary bodies were established: 1) Subcommission for the Black Sea Watershed Area (Sava River Basin), 2) Sub-Commission for Adriatic Sea Watershed Area and 3) Sub-Commission for Regional sewerage system Komarna-Neum-Mljet channel.]		
	Other features (please list): [fill in]	
(g)	What are the tasks and activities of this joint body or mechanism? ¹⁷	
	Identification of pollution sources	
	Data collection and exchange	\boxtimes
	Joint monitoring	
	Maintenance of joint pollution inventories	
	Setting emission limits	
	Elaboration of joint water quality objectives	
	Management and prevention of flood or drought risks	\boxtimes
	Preparedness for extreme events, e.g., common early warning and alarm procedures	
	Surveillance and early warning of water related disease	
	Water allocation and/or flow regulation	\boxtimes
	Policy development	
	Control of implementation	\boxtimes

This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

	Exchange of experience between riparian States	\boxtimes
	Exchange of information on existing and planned uses of water and related installations	\boxtimes
	Settling of differences and conflicts	\boxtimes
	Consultations on planned measures	\boxtimes
	Exchange of information on best available technology	\boxtimes
	Participation in transboundary EIA	
	Development of river, lake or aquifer basin management or action plans	\boxtimes
	Management of shared infrastructure	\boxtimes
	Addressing hydromorphological alterations	
	Climate change adaptation	
	Joint communication strategy	
	Basin-wide or joint public participation and consultation of, for example, basin management plans	
	Joint resources to support transboundary cooperation	
	Capacity-building	\boxtimes
	Any other tasks (please list): [fill in]	
(h) opera	What are the main difficulties and challenges that your country face ation of the joint body or mechanism, if any?	s with the
	Governance issues	\boxtimes
	Please describe, if any:	
	[Having in mid specific constitutional organisation of BiH, and do of the competencies between different levels of authorities in BiH (Entities) representatives of all respective institutions has to be involced cooperation activities. Thus, it is demanding task to provide representation as well as to establish efficient decision-making processing.	(State and ved in the adequate
	Unexpected planning delays	
	Please describe, if any: [fill in]	
	Lack of resources	\boxtimes
	Please describe, if true:	
	[Due to lack of human resources within the institutions implementation of the international obligations are additional burd institutions. In addition to this, lack of financial resources creates chenvironment for the implementation of international obligation measures, new infrastructure development etc.]	en for the
	Lack of mechanism for implementing measures	
	Please describe, if true: [fill in]	
	Lack of effective measures	
	Please describe, if true: [fill in]	

	Unexpected extreme events	
	Please describe, if any: [fill in]	
	Lack of information and reliable forecasts	\boxtimes
	Please describe, if any:	
	[In same cases where there were/is no continuous monitoring (hydrometeorological, hydromorphological, ground water, climate change etc.) information are missing.]	
	Others (please list and describe, as appropriate): [fill in]	
(i)	Does the joint body or mechanism, or its subsidiary bodies meet regul	arly?
	Yes ⊠/No□	
	If yes, how frequently does it meet?	
	More than once per year	
	Once per year	\boxtimes
	Less than once per year	
(j) mecha	What are the main achievements with regards to the joint banism?	ody or
[Cooperation between institutions in both countries are improved, joint projects have been created and implemented, cooperation on the harmonisation of the legal framework in both countries is taking place, cooperation on the infrastructure developments of transboundary relevance is taking place, additional agreements on water supply and sanitation have been developed and in forced.]		
State	(k) Did the joint body or mechanism ever invite a non-riparian to cooperate?	coastal
Yes []/No 🔀	
If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism?		
[Bosnia and Herzegovina and Croatia are costal countries. Since this is bilateral format of cooperation no other costal countries were invited to cooperate.]		
Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?		
Yes 🛭	☑/No□	
If yes,	please provide further details:	
[During the development of the river basin management plans respective authorities in both countries jointly, throughout the same project developed draft of the river basin management plans in Bosnia and Herzegovina and Croatia. Joint objectives and Significant Water Management Issues are jointly agreed.		
	of the jointly developed documents is "Framework for Neretva and Tre Basin Management in BiH and Croatia".	bisnjica

Joint Commission for Water Management Cooperation of Bosnia and Herzegovina and Republic of Croatia endorsed results of the joint activities.]

4.

5.	How is the transboundary basin,—sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable rational water use?		
		ation of urbanization, deforestation, and sand and extraction.	
	Environseason	onmental flow norms, including consideration of levels and nality	\boxtimes
		quality protection, e.g. nitrates, pesticides, faecal coliforms, metals	\boxtimes
	Water	related species and habitats protection	\boxtimes
	Other	measures (please describe): [fill in]	
6.	(a) riparia	Does your country regularly exchange information and data with an States in the basin, sub-basin, part of a basin or group of basins?	h other
	Yes 🗵	☑/No □	
		(b) If yes, how often:	
		More than once per year	
		Once per year	\boxtimes
		Less than once per year	
	(c) meetir	Please describe how information is exchanged (e.g. in connections of joint bodies):	on with
	and Rodata a	Commission for Water Management Cooperation of Bosnia and Herz epublic of Croatia as well as relevant subsidiary bodies prepare and ex- according to agreed agendas and dynamic of cooperation. The most in exchange campaign is during the development of river basin management.	xchange ntensive
	(d)	If yes, on what subjects are information and data exchanged?	
		Environmental conditions	\boxtimes
		Research activities and application of best available techniques	\boxtimes
		Emission monitoring data	\boxtimes
		Planned measures taken to prevent, control or reduce transboundary impacts	\boxtimes
		Point source pollution sources	\boxtimes
		Diffuse pollution sources	\boxtimes
		Existing hydromorphological alterations (dams, etc.)	\boxtimes
		Flows or water levels (including groundwater levels)	
		Water abstractions	\boxtimes
		Climatological information	\boxtimes
		Future planned measures with transboundary impacts, such as infrastructure development	\boxtimes
		Other subjects (please list): [fill in]	

	Other comments, e.g. spatial coin]	verage of data and i	nformation e	exchange: [fill	
	(e) Is there a shared database	e or information pla	tform?		
	Yes □/No ⊠				
	(f) Is the database publicly a	vailable?			
	Yes □/No ⊠				
	If yes, please provide the web address:				
[fill in	n]				
	(g) What are the main difficulties an	nd challenges to dat	a exchange,	if applicable?	
	Frequency of exchanges				
	Timing of exchanges				
	Comparability of data and information			\boxtimes	
	Limited spatial coverage				
	Inadequate resources (technical and/or	financial)		\boxtimes	
	Other (please describe): [fill in]				
	Additional comments: [fill in]				
	(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (<i>please describe</i>):				
	[Following obligations of the bilater Bilateral Commission is responsible protection, water protection and sea pro- water management issues. In order to p Commission need to exchange relevant	to analyse issue otection from pollut perform its duties an	es related to ion, water us ad responsibil	joint flood age and other lities Bilateral	
7.	Do the riparian States carry out joint basin, part of a basin or group of basins Yes □/No ☑		transboundai	ry basin, sub-	
[fill ir	าไ				
[fill in	n]				
[fill in	(a) If yes, what does the join	t monitoring cover	?		
[fill in		t monitoring cover	? Ecological	Chemical	
				Chemical	
Borde	(a) If yes, what does the join			Chemical	
Borde Surfac Surfac	(a) If yes, what does the join er surface waters			Chemical	
Borde Surfac Surfac water	(a) If yes, what does the join er surface waters ce waters in the entire basin ce waters on the main			Chemical	
Borde Surfac Surfac water	(a) If yes, what does the join er surface waters ce waters in the entire basin ce waters on the main			Chemical	

			Hydrological	Ecological	Chemical
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake					
		(b) If joint monitoring is carried	out, how is this	done?	
		National monitoring stations connec or common stations	ted through a n	etwork	
		Please describe:			
		[fill in]			
		Joint and agreed methodologies			
		Please describe:			
		[fill in]			
		Joint sampling			
		Please describe:			
		[fill in]			
		Common monitoring network			
		Please describe:			
		[fill in]			
		Common agreed parameters			
		Please describe:			
		[fill in]			
	(c)	Please describe the main achievement	nts regarding jo	int monitorin	ng, if any:
		[fill in]			
	(d)	Please describe any difficulties expe	rienced with jo	int monitorin	ıg:
		[fill in]			
8.	Do the riparian States carry out joint assessment of the transboundary basin, sub basin, part of a basin or group of basins?			ry basin, sub-	
	Yes ⊠/No □				
	scope	s, please provide the date of the last e (e.g., surface waters or groundwat sment, and assessment methodology a	ers only, polli		
	1.0			1 m 1 · v · · ·	

[BiH and Croatia implemented GEF financed Project Neretva and Trebišnjica in period of time 2008-2014. One of the components of the Project was related to river basin management planning. Following legal requirements in both countries as well as requirements of EU Water Framework Directive joint assessment (Characterisation Reports) of the tranboundary basin was finalized. Based on the joint assessment coordinated River Basin Management Plans were developed and adopted.

In the period of time 2010-2014 four countries (Croatia, BiH, Montenegro and Albania) jointly implemented project "Protection and Sustainable Use of the Dinaric Karst Transboundary Aquifer System – DIKTAS". Aim of the project was to improve the management of karst groundwaters contained in the Dinaric Karst and shared by four countries. Throughout this project Transboundary Diagnostic Analysis was developed. Based on TDA, Strategic Action Program was developed and accepted by the countries.]

9.	Have the riparian States agreed to use joint water quality standards?				
	Yes ⊠/No □				
	If yes, what standards have been applied, e.g. international or regional standards of the riparian State applied?				
	[EU Water Framework Directive and its daughter Directives are key docume set up water quality standards.]	ents that			
10.	What are the measures implemented to prevent or limit the transboundary in accidental pollution?	npact of			
	Notification and communication	\boxtimes			
	Coordinated or joint early warning or alarm system for accidental water pollution				
	Other (please list): [fill in]				
	No measures				
	If not, why not? What difficulties does your country face in in place such measures?: [fill in]	putting			
11.	What are the measures implemented to prevent or limit the transboundary in extreme weather events and climate change?	npact of			
	Notification and communication	\boxtimes			
	Coordinated or joint alarm system for floods	\boxtimes			
	Coordinated or joint alarm system for droughts				
	Joint climate change adaptation strategy				
	Joint disaster risk reduction strategy				
	Other (please list): [fill in]				
	No measures				
	If not, why not? What difficulties does your country face in in place such measures?: [fill in]	putting			
12.	Are procedures in place for mutual assistance in case of a critical situation?				
	Yes □/No ⊠				
	If yes, please provide a brief summary:				
[fill in	n]				
13.	Are the public or relevant stakeholders involved in transboundary management in the basin, sub-basin, part of a basin or group of basins?	water			
	Yes ⊠/No □				
	If yes, how? (please tick all applicable)				

Stakeholders have observer status in a joint body or mechanism	
Stakeholders have an advisory role in the joint body	\boxtimes
Stakeholders have a decision-making role in the joint body	
If yes, please specify the stakeholders for the joint body or mechanism: [fill in]	
Intergovernmental organizations	
Private sectors organizations or associations	\boxtimes
Water user groups or associations	\boxtimes
Academic or research institutions	
Other non-governmental organizations	\boxtimes
General public	\boxtimes
Other (please specify): [fill in]	
Availability of information to the public	\boxtimes
Consultation on planned measures or river basin management plans ¹⁸	
Public involvement	
Other (please specify): [fill in]	

Please remember to complete section II for each of the transboundary basins, subbasin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.

¹⁸ Or, where applicable, aquifer management plans.

III. Water management at the national level

In this section, you are requested to provide general information on water management at the national level as it relates to transboundary waters. Information on specific transboundary basins, sub-basins, part of basins and groups of basins, should be presented in section II and not repeated here.

1. (a) Does your country's national legislation, policies, action plans and strategies refer to measures to prevent, control and reduce any transboundary impact?

Yes ⊠/No □

If yes, please briefly describe the main national laws, policies, action plans and strategies

[By its Constitution, Bosnia and Herzegovina (BiH) is organised as a decentralised country. It consists of two Entities: Federation of Bosnia and Herzegovina (FBiH) covers 51% of BiH territory, Republic of Srpska (RS) covers 49% of BiH territory, and special administrative unit Brcko District of Bosnia and Herzegovina (BD BiH). FBiH is divided into 10 cantons and cantons are divided into 79 municipalities, while RS is divided into 64 municipalities.

Both entities FBiH and RS as well as BD BiH has full power and jurisdiction on Water Management. Thus, comprehensive legal and institutional framework was developed at the level of both entities and BD BiH. In the field of water management, State level institutions are responsible for the coordination of activities among different levels of authorities within the country and for the international cooperation. Implementation of international obligations is responsibility of the State level institutions with full involvement of respective institutions of FBiH and RS entities and BD BiH.

State level Law on Ministries and Other Administrative Bodies of Bosnia and Herzegovina¹⁹ Law on Waters of FBiH²⁰, Law on Waters of RS²¹ and Law on Waters of BD BiH²².

In addition to main above mentioned laws set of bylaws is adopted to enable more efficient implementation of laws

Following are the Action plans and strategies in water sector in Bosnia and Herzegovina:

- 1. Action Plan for Flood Protection and River Basin Management in BiH,
- 2. Climate Change Adaptation and Low Carbon Development Strategy of BiH,
- 3. Environmental Approximation Strategy to EU acquis communautaire of BiH,
- 4. Water Management Strategy of FBiH 2010-2022,
- 5. Program of Approximation of environmental protection legal framework to EU *acquis communautaire* in FBiH,
- 6. Integral Water Management Strategy of RS 2015-2024,

¹⁹ Official Gazette (OG) of BiH 42/03, 26/04, 42/04, 45/06, 88/07, 35/09, 59/09, 103/09

²⁰ OG FBiH 70/06

²¹ OG RS 50/06, 92/09, 121/12, 74/17

²² OG RS 10/98

commi	unauta	ire in RS,		
8. Env	ironme	ental Approximation Strategy	y for BD BiH.]	
	(b)	Does your country's legisla	ation provide for the following principles?	
		Precautionary principle	Yes ⊠/No □	
		Polluter pays principle	Yes ⊠/No □	
		Sustainable development	Yes ⊠/No □	
		User pays principle	Yes ⊠/No □	
		If yes, please briefly descrinational level:	ribe how these principles are implemente	d at the
		above listed principles is in institutions at all levels	organisation of the country implementate and control and inspection mechanisms and control and inspection mechanisms.	spective is fully
			a national licensing or permitting sys point source pollution? (e.g., in industry, nagement or other sectors)?	
	Yes 🛭	☑/No □		
	If yes,	for which sectors?		
	Indust	ry		\boxtimes
	Minin	g		\boxtimes
	Energ	у		\boxtimes
	Munic	cipal		\boxtimes
	Livest	ock raising		\boxtimes
	Aquac	culture		\boxtimes
	Other	(please list): [fill in]		
			ring or permitting system, indicating whe on limits based on best available technolog	
	If yes,	for which sectors? (please l	ist):	
	indust	rial wastewaters into surfa-	l activities including discharges of sanit ce waters. Water Permit defines conditi nission limits are determined based on BA	ons and
	Waste	water discharges in groundw	vaters are forbidden by the laws.]	
			(giving the most important reasons) or ttroduce a licensing or permitting system:	
		(d) Are the authorized d	lischarges monitored and controlled?	
	Yes 🛭	☑/No □		
	If yes,	how? (Please tick the ones of	applicable):	
	Monit	oring of discharges		\boxtimes

7. Program of Approximation of environmental protection legal framework to EU acquis

Monitoring of physical and chemical impacts on water	\boxtimes
Monitoring of ecological impacts on water	\boxtimes
Conditions on permits	\boxtimes
Inspectorate	\boxtimes
Other means (please list): [fill in]	
If your country does not have a discharge monitoring system, please e or provide information if there are plans to introduce a dischar system: [fill in]	
(e) What are the main measures which your country takes to sources of water pollution on transboundary waters (e.g., from agricul forestry or aquaculture)? The measures listed below relate to agricul sectors may be more significant. Please be sure to include these under	ture, transport
Legislative measures	
Norm for uses of fertilizers	\boxtimes
Norms for uses of manure	\boxtimes
Permitting system	
Bans on or norms for use of pesticides	\boxtimes
Others (please list): [fill in]	
Economic and financial measures	
Monetary incentives	
Environmental taxes (such as fertilizer taxes)	\boxtimes
Others (please list): [fill in]	
Agricultural extension services	
Technical measures	
Source control measures	
Crop rotation	
Tillage control	
Winter cover crops	
Others (please list): [fill in]	
Other measures	
Buffer/filter strips	
Wetland reconstruction	
Sedimentation traps	
Chemical measures	
Others (please list): [fill in]	
Other types of measures	

If yes, please list: [fill in]

(f) What are the main measures which your country takes to e resources allocation and use efficiency?	nhance water	
Please tick as appropriate (not all might be relevant)		
A regulatory system regarding water abstraction	\boxtimes	
Monitoring and control of abstractions	\boxtimes	
Water rights are defined	\boxtimes	
Water allocation priorities are listed	\boxtimes	
Water-saving technologies	\boxtimes	
Advanced irrigation techniques	\boxtimes	
Demand management activities	\boxtimes	
Other means (please list)		
(g) Does your country apply the ecosystems approach?		
Yes ⊠/No □		
If yes, please describe how:		
[Following requirements of Water Laws, River Basin Management Plans has to be developed in line with EU Water Framework Directive. During their preparation status of water bodies has to be determined based on respective ecological and environmental parameters.]		
(h) Does your country take specific measures to prevent the groundwaters?	pollution of	
Yes ⊠/No □		
If yes, please briefly describe the most important measures:		
[The most important measures are:		
1. Direct discharges of wastewaters into groundwater are forbidden by Laws and relevant bylaws;	the Water	
2. Sanitary Protection Zones, protection measures, method of maintenance and marking for water springs used for public water determined.]		
Do your national laws require transboundary environmental impactEIA)?	ct assessment	
Yes ⊠/No □		
If yes, please briefly describe the legislative basis, and any related procedures.	implementing	
[EIA requirements from Espoo Convention and EU EIA Directive a into Laws on environmental protection at respective levels of authori and Herzegovina, FBiH ²³ , RS ²⁴ and BD ²⁵ . Application o EIA procedure	ties in Bosnia	

2.

²³ OG FBiH 33/03, 38/09 ²⁴ OG RS 71/12, 79/15 ²⁵ OG BD BiH 24/04, 19/07, 1/05, 9/09

related to the projects of transboundary relevance is commonly implemented in Bosnia and Herzegovina.]

If not, do other measures provide for transboundary EIA? [fill in]

IV. Final questions

1.	What are the main challenges your country faces in cooperating on tran waters?	sboundary
	Differences between national administrative and legal frameworks	\boxtimes
	Lack of relevant data and information	\boxtimes
	Difficulties in data and information exchange	\boxtimes
	Sectoral fragmentation at the national level	\boxtimes
	Language barrier	
	Resource constraints	\boxtimes
	Environmental pressures, e.g. extreme events	
	Sovereignty concerns	
	Please list other challenges and/or provide further details:	
	[Economic issues not directly linked to water management such as a compensations for usage of hydropower potential at transboundary wat and still not agreed interstate boundaries.]	
2.	What have been the main achievements in-cooperating on transboundary w	aters?
	Improved water management	\boxtimes
	Enhanced regional integration, i.e. beyond water	
	Adoption of cooperative arrangements	\boxtimes
	Adoption of joint plans and programmes	\boxtimes
	Long-lasting and sustained cooperation	\boxtimes
	Financial support for joint activities	\boxtimes
	Stronger political will for transboundary water cooperation	\boxtimes
	Better knowledge and understanding	\boxtimes
	Dispute avoidance	\boxtimes
	Stakeholder engagement	\boxtimes
	Please list other achievements, keys to achieving success, and/or providexamples: [fill in]	e concrete
3.	Please indicate which institutions were consulted during the completi questionnaire	on of the
	Joint body or mechanism	\boxtimes
	Other riparian or aquifer countries	\boxtimes
	National water management authority	\boxtimes
	Environment agency/ authority	

Basin authority (national)	\boxtimes
Local or provincial government	
Geological survey (national)	
Non-water specific ministries, e.g. foreign affairs, finance, forestry and energy	
Civil society organizations	
Water user associations	
Private sector	
Other (please list): [fill in]	

Please briefly describe the process by which the questionnaire was completed:

[Focal Point of BiH to Water Convention (FP) on behalf of Ministry of Foreign Trade and Economic Relations initiated communication to other respective institutions in Bosnia and Herzegovina responsible for water management, requesting from them nomination of their representatives for finalisation of the questionnaire. Institutions involved are as follows:

- Ministry of Foreign Trade and Economic Relations of BiH,
- Federal Ministry for Agriculture, Water Management and Forestry,
- Ministry of Agriculture, Forestry and Water Management of RS,
- Government of BD of BiH,
- Sava River Watershed Agency,
- Adriatic Sea Watershed Agency,
- Public Institution "Vode Srpske".

FP filled in questionnaire and then circulated it among nominated representatives for comments and amendments.

Questionnaire was finalised by FP after consultation with other riparian states.]

- 4. If you have any other comments please add them here (insert comments): [fill in]
- 5. Name and contact details of the person(s) who filled out the questionnaire (please insert):

[Following persons gave its contribution to preparation of this Report:

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Email: jvicanovic@voders.org]

Date: [25 September 2020]

Signature: [Bosko Kenjic, Head of Water Resources Department and

Focal Point of BiH to Water Convention]



Thank you very much for taking the time to complete this report.

Annex 1. Agreement between Government of Bosnia and Herzegovina and Government of Republic of Croatia on regulation of water management relations

Annex 2.

- Danube River Basin District Overview Map
- Sava River Basin Overview Map
- Sava River Basin in BiH Map
- Transboundary Aquifers in the Sava River Basin Map
- Adriatic Sea Watershed Area including Trebisnjica River Basin District Map
- Transboundary Aquifers in the Adriatic Sea Watershed Area including Trebisnjica River Basin District Map

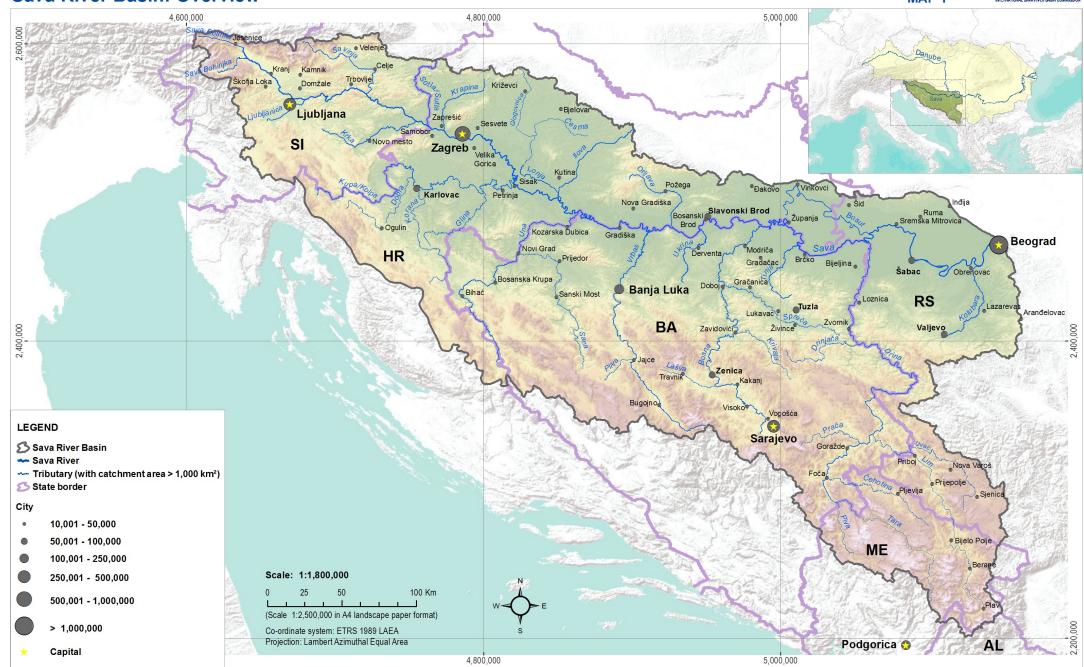


This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, ME, MD, RO, RS, SI, SK, UA) and CH. EuroGobaliMap data from EuroGeographics was used for all national borders except for AL, BA, ME where the data from the ESRI World Countries was used; Shuttle Radar Topography Mission (SRTM) from USGS Seamless Data Distribution System was used as elevation data layer; data from the European Commission (Joint Research Center) was used for the outer border of the DRBD of AL, IT, ME and PL.

Sava River Basin: Overview







This product is based on national information provided by the Parties to the FASRB (SI, HR, BA, RS) and ME.

Shuttle Radar Topography Mission (SRTM-3) from USGS Seamless Data Distribution System was used as topographic layer.

The boundaries and names shown and designations used on this map do not imply official endorsment or acceptance by the ISRBC.

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