

Agenda item 7.1 For information

Council

CNL(18)24

Annual Progress Report on Actions Taken Under the Implementation Plan for the Calendar Year 2017

EU - Germany

CNL(18)24

Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2017

The primary purposes of the Annual Progress Reports are to provide details of:

- any changes to the management regime for salmon and consequent changes to the Implementation Plan;
- actions that have been taken under the Implementation Plan in the previous year;
- significant changes to the status of stocks, and a report on catches; and
- actions taken in accordance with the provisions of the Convention

These reports will be reviewed by the Council. Please complete this form and return it to the Secretariat **no later than 29 March 2018**.

Party:	European Union
Jurisdiction/Region:	Germany

1: Changes to the Implementation Plan

1.1 Describe any proposed revisions to the Implementation Plan (Where changes are proposed, the revised Implementation Plans should be submitted to the Secretariat by 1 December).

No changes

1.2 Describe any major new initiatives or achievements for salmon conservation and management that you wish to highlight.

Rhine

The ICPR Master Plan Migratory fish is currently updated and will be published in summer 2018.

In various salmon spawning rivers of the Upper Rhine, projects to increase river connectivity and to improve habitats, started in 2017. It's expected that the quality of spawning and nursery habitats as well as migration of salmon will positively affected, due to this measures in the next years. Nevertheless, further efforts for improving habitats and river connectivity, along with the preservation of existing habitats will continue to be necessary.

<u>Elbe</u>

Today, 20 years after the first salmon run in tributaries of the Upper Elbe since his extinction hundred years ago, Atlantic salmon is an integral part of the River Elbe fauna and his tributaries, again. Thanks to the current positive development of the salmon stocks, consideration is given to the extension of the salmon re-introduction programme on further tributaries of the Elbe river. Salmon is an important flagship species for the rehabilitation of fish habitats, especially for migratory species in the Elbe basin. Nevertheless, there are still big efforts necessary to bring the status of the salmon stocks from the "maintained" to the "restored" level.

2: Stock status and catches.

2.1 Provide a description of any new factors which may significantly affect the abundance of salmon stocks and, if there has been any significant change in stock status since the development of the Implementation Plan, provide a brief (200 word max) summary of these changes.

<u>Rhine</u>

The registered numbers of returning adult salmon increased compared to the previous year. In total 540 salmon were registered in the Rhine catchment in 2017 compared with 414 in the previous year. Difficult monitoring conditions due to high discharge in programme waters could have resulted in lower number of registered returners. The number of registered adult salmon returning from the sea and observations of natural reproduction of salmon in the Rhine tributaries are documented (see graph and statistics attached). With 1.687.190 stocking stages, stocking measures in the catchment were again a bit lower than in the previous year due to problems at different breeding facilities.

Particularly for the Upper Rhine regional experts determine a positive trend in the stock development of Rhine salmon. In 2017, they registered the second-highest salmon numbers ever counted in the counting stations Gambsheim and Iffezheim. In most salmon reintroduction tributaries of the Upper Rhine, local experts observed evidence of adult salmon and spawning activities despite the difficult monitoring conditions. Efforts for the expansion of hydropower and smolt predation by birds remain a problematic issue in some rivers according to the local experts from the Upper Rhine.

<u>Elbe</u>

For the area of the Lower Elbe, the relevant authority reported little evidence of returning salmon to spawning rivers and only few angling catches in 2017.

Fortunately, the reported situation for tributaries in the Middle and Upper Elbe is different compared to the Lower Elbe. The numbers of monitored adult salmon reached a high not seen for years. Excellent results the local experts reported from the Rivers Stepenitz, Nuthe and Lachsbach. Natural reproduction they observed in most salmon rivers. A special highlight was the first evidence of salmon redds in the River Pulsnitz for more than hundred years. To complete the good news, Czech colleagues observed around 20 Salmon in the River Kamenice in the Bohemian Switzerland (Czech Republic).

An investigation carried out in the river Stepenitz from 2014 to 2016, showed that between 50 to 100% more migratory salmonids swim up the river during the spawning run, as with the method normally used (electro fishing) so far could detected.

Particularly, for the rivers Stepenitz and Nuthe local experts complained about massive salmon habitat degradation by the spread of beavers. Further, they pointed out an increased impact on the water quality due to the increasing cultivation of energy plants like maize and rape.

The extension of the Salmon re-introduction programme on the river Bode is currently being reviewed.

Weser

In tributaries of the Weser estuary, members of the relevant fisheries association recorded a reasonably satisfactory adult salmon return. Unfortunately, natural reproduction of salmon is not possible in these rivers, due to siltation of spawning habitats. Salmon stocks of these rivers will depend on enhancement stocking for an indefinite time.

2.2 Provide the following information on catches:(*nominal catch equals reported quantity of salmon caught and retained in tonnes 'round fresh weight' (i.e. weight of whole, ungutted, unfrozen fish) or 'round fresh weight equivalent').*

(a) provisional nominal	In-river	Estuarine	Coastal	Total
catch (which may be	0,15 t catch by			
subject to revision) for	recreational			
2017 (tonnes)	fisheries for			
	Lower Saxony			
(b) confirmed nominal	0,12 t catch by			
catch of salmon for	recreational			
2016 (tonnes)	fisheries for			
	Lower Saxony			
(c) estimated unreported				
catch for 2017 (tonnes)	r			
(d) number and	Fisheries on sal	mon is prohibited	in the entire Rhi	ine catchment. In
percentage of salmon	the other river ca	atchments no catch	n and release is pr	racticed
caught and released in				
recreational fisheries in				
2017.				

3: Implementation Plan Actions.

3.1 Provide an update on progress against actions relating to the Management of Salmon Fisheries (Section 2.8 of the Implementation Plan).

Note: The reports under 'Progress on Action to Date' should provide a brief overview with a quantitative measure of progress made. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

07	oup.						
Action	Description of Action	The ICPR has drafted recommendations aimed at					
F1:	(as submitted in the IP)	improving legal compliance and thus reducing by-					
		catches and illegal catches of salmon by professional					
		and recreational fishing (see "Master Plan Migratory					
		Fish Rhine").					
	Expected Outcome	Diminish the pressure due to fishery.					
	(as submitted in the IP)						
	Progress on Action to Date	Experts annually exchange information within the					
	(Provide a brief overview with a	 and recreational fishing (see "<u>Master Plan Migratory</u> <u>Fish Rhine</u>"). Diminish the pressure due to fishery. Experts annually exchange information within the ICPR on the implementation of these recommendation in the Rhine bordering countries and report on the effectiveness in practice. When questioned about the enforcement concerning illegal salmon fishing, the second secon					
	quantitative measure of	in the Rhine bordering countries and report on their					
	progress. Other material (e.g.	 improving legal compliance and thus reducing by- catches and illegal catches of salmon by professiona and recreational fishing (see "<u>Master Plan Migratory</u> <u>Fish Rhine</u>"). Diminish the pressure due to fishery. Experts annually exchange information within ICPR on the implementation of these recommendation in the Rhine bordering countries and report on the effectiveness in practice. When questioned about enforcement concerning illegal salmon fishing, Dutch authorities informed that reports of salm 					
	website links) will not be	enforcement concerning illegal salmon fishing, the					
	evaluated.)	Dutch authorities informed that reports of salmon					
		illegally offered for sale on markets are being					
		investigated, but that there is no systematic control of					
		the offer at markets.					

		Recommendations aimed at improving legal compliance and reducing by-catches and illegal catches are again part of the new updated Master Plan Migratory Fish Rhine. The ICPR FISH Expert Group will continue to urge on the implementation of these recommendations.						
	Current Status of Action	Ongoing						
	If 'Completed', has the Action achieved its objective?							
Action F2:	Description of Action (as submitted in the IP)	Developing of a self-sustaining salmon population in the Agger river without stocking.						
	Expected Outcome (as submitted in the IP)	Verification if the salmon population in this river is restored successfully.						
	Progress on Action to Date (Provide a brief overview with a quantitative measure of progress. Other material (e.g. website links) will not be evaluated.)	In a subsystem of the Agger river stocking has been gradually reduced since 2013. Since 2015 stocking was reduced to zero throughout the Agger-System. A three-year monitoring of downstream-migrating smolts started in 2017.						
	Current Status of Action	Ongoing						
	If 'Completed', has the Action achieved its objective?							

3.2 Provide an update on progress against actions relating to Habitat Protection and Restoration (Section 3.4 of the Implementation Plan).

Note: The reports under 'Progress on Action to Date' should provide a brief overview with a quantitative measure of progress made. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

Gi	0	U
	T	

(as submitted in the IP)habitats.Progress on Action to Date (Provide a brief overview with a quantitative measure of progress. Other material (e.g. website links) will not be evaluated.)In 2017, the planning of 46 measures, which prioritized for the second implementation (starting from end 2015), has made good pro- fish passage was already finished. As scheduled for the year 2017, the plan procedure for one measure at the River M two measures at the River Neckar were 1			
	-	Increased accessibility of spawning and juvenile habitats.	
	(Provide a brief overview with a quantitative measure of progress. Other material (e.g. website links) will not be	In 2017, the planning of 46 measures, which had been prioritized for the second implementation phase (starting from end 2015), has made good progress. One fish passage was already finished. As scheduled for the year 2017, the plan approval procedure for one measure at the River Moselle, and two measures at the River Neckar were launched in time. Additionally, two measures initiated their plan	

		approval procedure, which haven't been scheduled for 2017 (one at Upper Havel Waterway and one at the River Main).
I a Action I H2: () F () () () () () () <		Within the last year, the preliminary and strategic planning of an additional number of 7 measures increased the total amount from 21 to 28 measures, whereof all are already in the process of planning. For a total of 5 measures within this planning process, the feasibility of dam removal or crest reduction is evaluated (one at the river Ems and at the Havel-Oder Waterway, three at the River Ilmenau). The initial phase of data collection has been completed for the predominant number of scheduled measures. The monitoring for a total of 12 (established since 2010) fish passes at the Weser, Elbe and Rhine is in
	Comment States of Astism	progress.
	Current Status of Action If Completed, has the Action achieved its objective?	Ongoing
Action I H2: (A	Description of Action (as submitted in the IP)	Restoration of up- and downstream river continuity and development of the quantitative and qualitative aspects of spawning and juvenile habitats in the entire Rhine catchment. The specific measures planned for anadromous migratory fish in the different sections of the Rhine are listed in the "Master Plan Migratory Fish Rhine".
	Expected Outcome (as submitted in the IP)	Increased quality and quantity of spawning and juvenile habitats and decreased mortality due to barrages and hydropower plants.
	Progress on Action to Date (Provide a brief overview with a quantitative measure of progress. Other material (e.g. website links) will not be evaluated.)	The ICPR project group PG ORS (Oberrhein/Rhin- Supérieur) continued its work which aims at supporting the implementation planning of an efficient fish passage system at the three barrages in Rhinau, Marckolsheim and Vogelgrün in the Upper Rhine. Ecological continuity on the main stream of the Rhine was further improved, since the fish passage at the barrage weir in Strasbourg was officially launched in spring 2016. A new fish pass at the barrage in Gerstheim will be opened in autumn 2018. Partial opening of the Haringvliet sluices in the Netherlands will take place on 5 September 2018. A new video monitoring station went into operation on
		the Ill at the fish pass Erstein (French tributary to Upper Rhine).
	Current Status of Action	Ongoing

	If Completed, has the Action achieved its objective?	
Action H3:	Description of Action (<i>as submitted in the IP</i>) Expected Outcome (<i>as submitted in the IP</i>)	Reestablishing continuity of the Elbe river and its primary tributaries from estuary to the springs. The action includes 34 weirs in Brandenburg, 6 in Hamburg, 3 in Mecklenburg-Western Pomerania, potentially 1 in Lower Saxony, 9 in Saxony-Anhalt, 1 in Schleswig-Holstein, 23 in Thuringia, 54 in Saxony and 3 under responsibility of the Federal Government. Improved access to spawning grounds and decreased mortality due to barrages and hydropower plants.
	Progress on Action to Date (Provide a brief overview with a quantitative measure of progress. Other material (e.g. website links) will not be evaluated.)	In 2017, the planning and implementation of measures, which had been prioritized for the second implementation period (2016-2021) of the International Management Plan for the Elbe River Basin District, has made progress. For example, the recovery of the fish passage at the weir Kroppen in the River Pulsnitz could implemented in 2017. 5 salmons could pass this former insurmountable obstacle during the salmon run in autumn. Further, a couple of measures (e.g. weir dismantling) could realized in the river Nuthe. Many other projects to restore passage for fish are in planning or in implementation within the Elbe catchment area.
	Current Status of Action If Completed, has the Action achieved its objective?	Ongoing

3.3 Provide an update on progress against actions relating to Aquaculture, Introductions and Transfers and Transgenics (Section 4.8 of the Implementation Plan).

Note: The reports under 'Progress on Action to Date' should provide a brief overview with a quantitative measure of progress made. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

	inose seeking more delated injormatio	m, this will not be evaluated by the Kevlew Group.							
Actio	n Description of Action	Stocking material is completely attained from material							
A1:	(as submitted in the IP)	gained from returning spawners, from reconditioned kelts							
		and captive breeding in North Rhine Westphalia Rhine							
		tributaries.No further use of ova from foreign origin.Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries.The capacity of the gene bank facility at LANUV NRW found in the long-term mean as yet not sufficiently enou to meet the demand, and achieve complete import							
	Expected Outcome	No further use of ova from foreign origin.							
	(as submitted in the IP)								
		 No further use of ova from foreign origin. Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries. The capacity of the gene bank facility at LANUV NRW i found in the long-term mean as yet not sufficiently enoug to meet the demand, and achieve complete important. 							
		 Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries. The capacity of the gene bank facility at LANUV NRW i found in the long-term mean as yet not sufficiently enough 							
	Progress on Action to Date	population in North Rhine Westphalia Rhine tributaries.The capacity of the gene bank facility at LANUV NRW is							
	(Provide a brief overview with a	Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries. The capacity of the gene bank facility at LANUV NRW is found in the long-term mean as yet not sufficiently enough to meet the demand, and achieve complete import							
	quantitative measure of	Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries. The capacity of the gene bank facility at LANUV NRW is found in the long-term mean as yet not sufficiently enough							
	progress. Other material (e.g.	 and captive breeding in North Rhine Westphalia Rhine tributaries. No further use of ova from foreign origin. Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries. The capacity of the gene bank facility at LANUV NRW found in the long-term mean as yet not sufficiently enoug to meet the demand, and achieve complete impoindependence. Measures to enable an increase of the captine breeding ova production are taken. "Wild Salmon Center Rhine-Sieg" (hatchery) operated vertex. 							
	website links) will not be	 and captive breeding in North Rhine Westphalia Rhine tributaries. No further use of ova from foreign origin. Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries. The capacity of the gene bank facility at LANUV NRW found in the long-term mean as yet not sufficiently enoug to meet the demand, and achieve complete impoindependence. Measures to enable an increase of the captive breeding ova production are taken. "Wild Salmon Center Rhine-Sieg" (hatchery) operated vertex. 							
	evaluated.)	 and captive breeding in North Rhine Westphalia Rhine tributaries. No further use of ova from foreign origin. Establish a separate locally adapted indigenous salmon population in North Rhine Westphalia Rhine tributaries. The capacity of the gene bank facility at LANUV NRW found in the long-term mean as yet not sufficiently enoug to meet the demand, and achieve complete impoindependence. Measures to enable an increase of the captive breeding ova production are taken. "Wild Salmon Center Rhine-Sieg" (hatchery) operated vertex. 							
		successfully, producing stocking material, using partially							
		ova from returning spawners and partially imported ova.							
	Current Status of Action	Ongoing							

	If Completed, has the Action achieved its objective?	
Action A2:	Description of Action (as submitted in the IP)	Experts annually exchange information within the ICPR expert group FISH about the possibilities of genetic monitoring of salmon in the Rhine catchment. The different initiatives in the Rhine catchment now aim at harmonizing their genetic monitoring.
	Expected Outcome (as submitted in the IP)	 Genetic monitoring will allow assessing 1. the efficiency of o stocking measures performed; o different strains that are stocked; o different stocking strategies (age, parents used, the origin of broodstock etc.) 2. the relative importance for stocking of the different streams of the Rhine catchment.
	Progress on Action to Date (Provide a brief overview with a quantitative measure of progress. Other material (e.g. website links) will not be evaluated.)	In the winter season 2017/2018, a protocol for sampling salmon parent animals for a coordinated genetic monitoring in the Rhine catchment was discussed and procedures were tested in almost all hatcheries providing salmon for stocking. The aim is to sample all parent animals in all hatcheries according to a uniform protocol from 2018/2019.
	Current Status of Action If Completed, has the Action achieved its objective?	Ongoing

4:	Additional information required under the Convention
4.1	Details of any laws, regulations and programmes that have been adopted or repealed since the last notification.
	./.
4.2	Details of any new commitments concerning the adoption or maintenance in force for specified periods of time of conservation, restoration and other management measures.
	./.
4.3	Details of any new actions to prohibit fishing for salmon beyond 12 nautical miles.
	./.
4.4	Details of any new actions to invite the attention of States not Party to the Convention to matters relating to the activities of its vessels which could adversely affect salmon stocks subject to the Convention.
	./.
4.5	Details of any actions taken to implement regulatory measures under Article 13 of the Convention including imposition of adequate penalties for violations.
	./.

CNL(18)24 Annexes EU-Germany



Annex 1: Registered salmon in the Rhine since 1990

							-													_
				Year	ofspa	awnin	g pro	of (rep	produ	ction	during	the j	orece	ding a	autum	n/win	ter)			
		Project water - Selection of the most important	First																	
Countr		tributaries (* no stocking)	salmon																	
у	System		stocking	1994	1995	1996	1997	1998	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		20
D	Wupper-	Wupper	1000	1	1	1	1	1	/	1	(X)	1	1	1	1	1		1	1	
	Dhünn	Dhünn	1993	/	1	1	1	/	X	1	1	1	1	1		1		1	1	⊢
_	C 1	Eifgenbach	e te			/			0	/	/	/		/		-	VV	/	1	
D	Sieg	Sieg NRW Agger (lower 30 km)	iyste I uml Id	X X	1	/	1	1	xx		/ xxxx	1.1	/	/	XX XXX	/ XXX	XX XXX	0 XXX	0 XXX	X
		Naafbach	L O W	^	/	/	1	/	XXX	XXXX		XXXX	1	1	XXX	XXX	XXX	XXXX	XXX	x
			g riv lass halle	1	/	/	/	/	/	X	/	X	1	1	/	/	~~~			L~
		Hanfbach	is in the Sieg rive addition to classi selected smaller	1				. /	. /	1		1	. /		1	1		1	1	
		Bröl	the ctec	X	1	1	X	1	XX	XXX	1	XXX	1	1	1	XX	xxx	xxx	xx	x
		Homburger Bröl	in 1 ddit elec	1	1	1	1	1	ХХ	х	1	1	1	1	1	1	0	XX	XX	(
		Waldbröl	ures in ac in se	1	1	1	1	1	ххх	ххх	1	0	1	1	1	1	XXX	0	0	(
			so 98	1	1	1	1	1	0	1	1	1	1	1	1	1		1	1	1
		Steinchesbach	ng me nce 19 ions al brook:	1	1	1	1	1	0	1	1	1	1	1	1	1		1	1	
		Krabach	000	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1
		Gierzhagener Bach	stockii 988, sir bel regi 1 sized	1	1	1	1	1	1	Х	1	1	1	1	1	1		1	1	1
		Irsenbach	non sto :e 1988, barbel r dium siz	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	
		Sülz		1	1	1	1	1	XX	1	1	1	1	1	XXX	1	XXX	хххх	ххх	X)
		Schlingenbach		1	- 1	- 1	1	1	1	х	XXXX	XXX	1	1	XXX	0	0	0	0	(
		middle Sieg RLP	1994	1	1	1	1	1	х	х	хххх	Х	0	?	?	?	?	?	0	1
		Nister system	1991	1	1	1	1	1	XXX	XX	XXXX	X	X	x	X	X	Х	х	X	
		Wisserbach	1991	/	1	1	1	1	XXX	XX	XXXX	0	х	0	0	0	0	XX	0	(
		Elbbach	1995	1	1	1	/	1	1	XX	XX	0	0	0	1	1	1	1	1	
		Heller-Daade Asdorf	1998	1	1	1	1	1	1	X	X /	x	0	0	0	0	0	0	0	
D	Ahr	Asuon	1997 1995	/	/	/	1	/	0	0	?	0	XX	XX	0	XX	XX	0 XXX	X	(O
D	Nette	Nette *	-	1	1	1	1	1	X	0	x	0	X	0	x	0	XX	XX	0	X
D	Saynbach	Saynbach	1994	1	1	,	1	,	XX	XXXX	XXXX	XX	XX	XXX	X	X	XX	XX	XX	r o
U	Saynbach	Brexbach	1994	/	1	1	1	1	0	0	XXX	XX	XX	0	Ô	0	0	0	0	
D	Moselle	Elzbach	2005	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	XX	X
-	linesene	Kyll	1996	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	/	1
		Prüm system	1996	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lux/D		Sauer	1992	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Our	1992	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	- 7
D	Lahn	Mühlbach	1994	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	1	1	- 7
		Weil Dill	1995	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
	Nebe		1995 2004 / 2013	1	1	1	1	1	/	1	1	1	1	1	/	1	/	1	1	/
D	Nahe Wisper	Nahe Wisper	1999	/	/	/	/	/	0	XX	/ XXXX	0	X	XX	0	0	XX	0	0 XXX	0
D	Main	Schwarzbach	2009	1	1	1	1	1	/	/	0	0	0	0	0	0	0	X	0	X
-		Kinzig system (Hesse)	2000	- 1	1	1	1	1	0	1	1	1	1	1	1	?	0	/	/	-
D	Alb	Alb	2001	1	1	1	1	1	1	1	1	1	1	х	X	х	х	X	Х	1
D	Speyerbach	Speyerbach/Rehbach	2013	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Х	X
D/F	(Wies)Lauter	(Wies)Lauter	1991	1	1	1	1	1	1	1	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
D	Murg	Murg	2001	1	1	1	1	1	Х	Х	1	1	1	Х	Х	Х	1	1	1	- 1
F/D	Rhine	Rhine downstream Iffezhei	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
_ D	Rench	Rench	2001	1	1	1	1	1	/	1	/	1	1	1	1	1	1	1	1	- /
F			1995	/	/ v	/ V	/ v	/ V	/ X	/ X	/ v	/	X	X	X	0	0	/ 	X	X
		Bruche Giessen	1991 1992	,	X	X /	X	X	,	1	X	XX		0	XX 0	XX /	0	XX	XX X	
		Lièpvrette	1995	/	$\frac{1}{1}$	1	$\frac{1}{1}$	1	<u>'</u>	1	<u>'</u>	1	$\frac{1}{1}$	0	0	<i>'</i>	1	,	1	0
		Fecht	1991	1	1	1	1	1	1	1	1	1	x	x	x	0	x	x	x	0
		Weiss	1991	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	0
		Doller	1993	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	- 1
D	Kinzig	Kinzig (Baden-Württ.)	2001	1	1	1	1	1	1	1	1	1	Х	Х	Х	1	Х	Х	Х	X
D	Elz-Dreisam	Elz	2005	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	х	1
	.	Dreisam	2008	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
F/D	Rhein	Restrhein (Altrhein)	1991	/	1	1	/	1	1	1	1	1	1	1	1	1	/	1	1	
CH	Wiese	Wiese	1984	/	/	1	/	1	/	1	/	1	1	/	/	1	/	/	/	
СН	Birs Ergolz	Birs Ergolz	1995 1995	1	/	1	1	1	/		1	1	/	1	1	1	/	/	/	-
		ILIUUIZ	1990	1	1	1	1	1	1		1	1	1		1				1	- '

Annex 2: Proof of reproduction of salmon returned to the Rhine system

LEGEND	
quality proof / individuals detected / samples taken from individual locations	
	X
qualitative evidence / returnees released upstream of obstacle	(X)
little success of reproduction (1 to ≤ 5 parr/100 m2)	xx
considerable success of reproduction (> 5 - 50 parr/100 m2)	xxx
extremely high rate of success of reproduction (> 50 parr/100 m2)	XXXX
Investigations carried through, no cases detected	0
no investigation	1
Evidence uncertain	?

Spawning grounds partially accessible	e/accessible to a limited
Spawning habitats not accessible/acce	ssible in exceptional c
Spawning habitats not accessible/acce	

Annex 3: Stocking measures with migratory salmonids in the Rhine system 2017

Stocki	ng measure	s with big	salmonids in the Rhine system 2017	
Country/Water body Stocking				
	Kind and stage	Number	Origin Marking	smolt equivalent
Switzerland				
Wiese	Lp	3500	Petite Camargue B1K3 genetics	
Rhine				
Riehenteich	Lp	1.000	Petite Camargue K1K2K4K4a genetics	
Birs	Lp	4.000	Petite Camargue K1K2K4K4a genetics	
Arisdörferbach	Lp	1.500	Petite Camargue F1 Wild genetics	
Hintere Frenke		2.500	Petite Camargue K1K2K4K4a genetics	
	Lp	3.500		
Ergolz	Lp		Petite Camargue K7C1 genetics	
Fluebach Harbotswil	Lp	1.300	Petite Camargue K7C1 genetics	
Magdenerbach	Lp	3.900	Petite Camargue K5 genetics	
Möhlinbach (Bachtele, Mö	Lp	600	Petite Camargue B7B8 genetics	
Möhlinbach (Möhlin / Zeini	Lp	2.000	Petite Camargue B7B8 genetics	
Möhlinbach (Zuzgen, Hellil	Lp	3.500	Petite Camargue B7B8 genetics	
Etzgerbach	Lp	4.500	Petite Camargue K5 genetics	
Rhine	Lp	1.000	Petite Camargue B2K6 genetics	
Old Rhine	Lp	2.500	Petite Camargue B2K6 genetics	
Bachtalbach	Lp	1.000	Petite Camargue B2K6 genetics	
Inland canal Klingnau	Lp	1.000	Petite Camargue B2K6 genetics	
Surb	Lp	1.000	Petite Camargue B2K6 genetics	
Bünz	Lp	1.000	Petite Camargue B2K6 genetics	
Sum		39.300		
France				
	LO	269.147	Allier	13457
Rhein (Alt-/Restrhein)	LO	142.000	Rhine	7100
	La	31.500	Rhine	3150
Doller	LO	5.000	Rhine	250
	La L0	21.900 2.500	Rhine	2190 125
Thur	La	12.000	Rhine	120
	La	2,500	Rhine	1200
Lauch	La	5.000	Rhine	500
Fecht und Zuflüsse	LO	10.000	Rhine	500
conc and zandooc	La	39.000	Rhine	3900
	LO	4.200	Rhine	210
()	La	17,500	Rhine	1750
Giessen und Zuflüsse	LO	10.000	Rhine	500
Slessen und Zuflusse	La	28.472	Rhine	2847
	LO	10.500	Rhine	525
Bruche	La	32.000	Rhine	3200
	La	25.000	Rhine, wild (F1)	2500
	Le	2.100	Allier	76
Mosel	LO	3.500	Allier	175
	La	3.580	Allier	358
Blies	La	3.150	Rhine	315
Saar (Moselsystem)	La	2.550	Rhine	255
Sum		683.099		45.208

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Heller (Sieg) Image: Constraint of the system	Mater (Bleg)					
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Annex 4: Returned adults recorded in the Elbe catchment area in 2017

Federal state	Watercourse	Number of adult salmon
Saxony	Lachsbach	41
	Müglitz	5
	Wesenitz	2
	Reported catch by anglers	1
Saxony-Anhalt	Nuthe	12
Brandenburg	Stepenitz	38
Lower Saxony	Elbe (Geestacht)	9
	Oste	14
	Elbe (Weir Geestacht)	9
	Reported catch by anglers	17
	in total	148

Federal state	Watercourse	Number of counted adult salmon
Lower saxony	Ochtum/Delme	22
	Hunte	10
	Weser (Weir Langwedel)	37
	in total	69

Annex 5: Returned adults recorded in the Weser catchment area 2017