Proof of reproduction of salmon returned to the Rhine system

Country	System	Project water - Selection of the most important tributaries (* no stocking)	First salmon stocking	Year of spawning proof (reproduction during the preceding autumn/winter)																									
				1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
D	Wupper-	Wupper	1993	/	/	/	/	/	/	/	/	0	/	/	/	/	/	(X)	/	/	/	/	/		/	/	/	/	/
	Dhünn	Dhünn		/	/	/	/	/	/	/	/	0	/	/	X	X	/	/	/	/	/	/	/		/	/	/	/	XX
		Eifgenbach		/	/	/	/	/	/	/	/	/	/	/	/	0	/	/	/	/	/	/	/		/	/	/	/	/
D	Sieg	Sieg NRW	Salmon stocking measures in the Sieg river system since 1988, since 1998 in addition to classical umbel and barbel regions also in selected smaller and medium sized brooks	X	/	/	/	/	/	/	X	0	XX	/	/	/	/	/	/	/	/	XX	/	XX	0	0	0	/	/
		Agger (lower 30 km)		X	/	/	/	/	/	/	0	0	XXX	XXX	XXX	XX	XXXX	XXXX	XXXX	/	/	XXX	XXX	XXX	XXX	XXX	XX	XX	XX
		Naafbach		/	/	/	/	/	/	/	XX	0	/	XXX	XXX	XXX	XXXX	XXXX	XXXX	/	/	XXX	XXX	XXX	XXXX	XXX	XXX	0	XX
		Pleisbach		/	/	/	/	/	/	/	0	/	/	0	/	/	X	/	X	/	/	/	/		/	/	/	/	/
		Hanfbach		/	/	/	/	/	/	/	/	0	/	0	X	/	/	/	/	/	/	/	/		/	/	/	/	/
		Bröl		X	/	/	X	/	/	/	0	0	XX	XX	0	XX	XXX	/	XXX	/	/	/	XX	XXX	XXX	XX	XXX	/	/
		Homburger Bröl		/	/	/	/	/	/	/	0	0	/	XX	XXX	XX	X	/	/	/	/	/	/	0	XX	XX	0	/	/
		Waldbröl		/	/	/	/	/	/	/	0	0	/	0	0	XXX	XXX	/	0	/	/	/	/	XXX	0	0	0	/	/
		Derenbach		/	/	/	/	/	/	/	/	/	/	/	/	0	/	/	/	/	/	/	/		/	/	/	/	/
		Steinchesbach		/	/	/	/	/	/	/	/	/	/	/	/	0	/	/	/	/	/	/	/		/	/	/	/	/
		Krabach		/	/	/	/	/	/	/	/	/	/	/	X	/	/	/	/	/	/	/	/		/	/	/	/	/
		Gierzhagener Bach		/	/	/	/	/	/	/	0	/	/	/	/	/	X	/	/	/	/	/	/		/	/	/	/	/
		Irsenbach		/	/	/	/	/	/	/	0	/	/	/	/	/	/	/	/	/	/	/	/		/	/	/	/	/
		Sülz		/	/	/	/	/	/	/	0	0	/	/	/	XX	/	/	/	/	/	/	XXX	/	XXX	XXXX	XXX	XXX	XXX	XX
		Schlingenbach		/	/	/	/	/	/	/	/	0	/	/	/	/	X	XXXX	XXX	/	/	XXX	0	0	0	0	0	/	0
		middle Sieg RLP	1994	/	/	/	/	/	/	/	X	0	0	0	X	X	X	XXXX	X	0	?	?	?	?	0	0	X	XX	0
		Nister system	1991	/	/	/	/	/	XX	0	X	X	X	X	X	XXX	XX	XXXX	X	X	X	X	X	X	X	X	X	XX	0
		Wisserbach	1991	/	/	/	/	/	/	XXX	XX	XX	0	X	XX	XXX	XX	XXXX	0	X	0	0	0	0	XX	0	0	0	0
		Elbbach	1995	/	/	/	/	/	/	/	/	0	X	0	/	/	XX	XX	0	0	0	/	/	/	/	/	/	/	/
		Heller-Daade	1998	/	/	/	/	/	/	/	/	0	0	/	/	/	X	X	x	0	0	0	0	0	0	0	X	0	0
		Asdorf	1997	/	/	/	/	/	/	/	/	0	0	/	/	/	/	/	/	0	/	/	/	0	0	0	0	0	/
D	Ahr	Ahr	1995	/	/	/	/	/	/	X	0	0	X	X	0	0	0	?	0	XX	XX	0	XX	XX	XXX	X	XXX	X	0
D	Nette	Nette *	-	/	/	/	/	/	/	/	X	0	XX	X	X	X	0	X	0	X	0	X	0	XX	XX	0	XX	0	0
D	Saynbach	Saynbach	1994	/	/	/	/	/	/	XX	XX	XX	XXX	XXXX	XXXX	XX	XXXX	XXXX	XX	XX	XXX	X	X	XX	XX	XX	X	0	0
		Brexbach	1994	/	/	/	/	/	/	XXXX	XX	X	X	0	0	0	0	XXX	XX	XX	0	0	0	0	0	0	0	0	0
D	Moselle	Elzbach	2005	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	XX	XX	XX	X	0
		Kyll	1996	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		Prüm system	1996	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Lux/D		Sauer	1992	/	/	/	/	/	/	/	/	/	0	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		Our	1992	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
D	Lahn	Mühlbach	1994	/	/	/	/	/	/	(X)	0	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
		Weil	1995	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	/	/	/	0	0
		Dill	1995	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
D	Nahe	Nahe	2004 / 2013	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	0	0	/	0	0
		Guldenbach	2013	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	0	0	X	0	0
D	Wisper	Wisper	1999	/	/	/	/	/	/	/	/	0	XX	XX	0	0	XX	XXXX	0	X	XX	0	0	XX	0	XXX	0	0	0
D	Main	Schwarzbach	2009	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	0	0	0	0	0	0	X	0	X	0	0
		Kinzig system (Hesse)	2001	/	/	/	/	/	/	/	/	/	/	/	/	0	/	/	/	/	/	/	?	0	/	/	/	/	/
D	Alb	Alb	2001	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	X	X	X	X	X	/	/	/
D	Speyerbach	Speyerbach/Rehbach	2013	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	XX	X	/
D/F	(Wies)Lauter	(Wies)Lauter	1991	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	X	X	X	X	X	X	X	X	X	XX	X
D	Murg	Murg	2001	/	/	/	/	/	/	/	/	/	/	/	X	X	X	/	/	/	X	X	X	X	X	/	/	/	/
F / D	Rhine	Rhine downstream Iffezheim	-	/	/	/	/	/	/	/	/	/	/	X	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
D	Rench	Rench	2001	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
F	Ill	Ill	1995	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	X	X	0	0	/	X	X	0	/
		Bruche	1991	/	X	X	X	X	(X)	X	X	X	X	X	X	X	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
		Giessen	1992	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	0	/	0	/	X	0	0	0
		Lièpvrette	1995	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	0	/	/	/	/	0	0	0
		Fecht	1991	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	X	X	0	X	X	X	0	0	0
		Weiss	1991	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0	0	/	0	0	/	0	0	0
		Doller	1993	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
D	Kinzig	Kinzig (Baden-Württ.)	2001	/	/	/	/	/	/	/	/	/	/	X	/	/	/	/	/	X	X	X	/	X	X	X	X	X	/
D	Elz-Dreisam	Elz	2005	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	/	/	/
		Dreisam	2008	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
D	Rheinaue	Rheinauegewässer	-	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	X	/	/	X	/
F/D	Rhein	Restrhein (Altrhein)	1991	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
CH	Wiese	Wiese	1984	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
CH	Birs	Birs	1995	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
CH	Ergolz	Ergolz	1995	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
				1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019

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	/
Evidence uncertain	?

Spawning grounds (largely) accessible
Spawning grounds partially accessible/accessible to a limited extent
Spawning habitats not accessible/accessible in exceptional cases