

Supplementary Table 1. Data summary per sampling event for use of environmental DNA (eDNA) to detect grass carp spawning events in waters of rivers in the Truman Reservoir, Missouri, USA. Blank cells = not measured; CMS = cubic meters per second.

date	River	discharge (CMS)	temperature (°C)	# eggs captured	Eggs/m ³	eggs/hr	eDNA % detection	eDNA copies/L	eDNA copies/hr
6/7/2014	Marmaton River	134.22	22.3	50	0.600	290,000	100%	172,000	8.29E+13
6/9/2014	Marmaton River	97.41	21.8	9	0.082	29,000	67%	10,700	3.76E+12
6/11/2014	Marmaton River	74.75	20.1	0	0.000	0			
6/12/2014	Marmaton River	36.53					13%	1,150	1.51E+11
5/9/2014	Little Osage River	1.33	23.5	0	0.000	0	0%	0	0.00E+00
5/20/2014	Little Osage River	0.82	22.4	0	0.000	0	27%	5,140	1.52E+10
6/7/2014	Little Osage River	11.58	22.2				0%	0	0.00E+00
6/9/2014	Little Osage River	12.83	21.9	0	0.000	0	0%	0	0.00E+00
6/11/2014	Little Osage River	18.52	19.6	25	0.290	19,000			7.93E+10
6/12/2014	Little Osage River	9.83					11%	2,240	
5/9/2014	Osage River	9.66	22.3	0	0.000	0	8%	1,150	3.99E+10
5/20/2014	Osage River	12.83	22.2	0	0.000	0	0%	0	0.00E+00
5/29/2014	Osage River	27.55	27.1	0	0.000	0	0%	0	0.00E+00
6/4/2014	Osage River	18.29	29.4	0	0.000	0	0%	0	0.00E+00
6/9/2014	Osage River	179.52	22.2	50	0.610	390,000	80%	25,500	1.65E+13
6/11/2014	Osage River	382.27	19.9	25	0.250	340,000			
6/12/2014	Osage River	396.42					33%	4,040	5.76E+12
5/9/2014	Sac River	14.75	22.5	0	0.000	0	0%	0	0.00E+00
5/20/2014	Sac River	13.54	20.5	0	0.000	0	7%	1,740	8.49E+10
5/29/2014	Sac River	13.79	24.6	0	0.000	0	0%	0	0.00E+00
6/4/2014	Sac River	25.80	26.5	0	0.000	0	0%	0	0.00E+00
6/11/2014	Sac River	32.00	23.7	0	0.000	0			
6/12/2014	Sac River	32.00					0%	0	0.00E+00
5/9/2014	South Grand River	0.71					22%	3,230	
5/10/2014	South Grand River	0.57	22.7	0	0.000	0			8.24E+09
5/20/2014	South Grand River	0.82	24.0	0	0.000	0	13%	1,820	5.36E+09
5/29/2014	South Grand River	0.99	29.6	0	0.000	0	8%	680	2.43E+09
6/4/2014	South Grand River	2.66	28.3	0	0.000	0	20%	2,290	2.19E+10
6/9/2014	South Grand River	13.37	21.6	4	0.056	2,700	0%	0	0.00E+00
6/11/2014	South Grand River	61.73	19.1	25	0.220	49,000			
6/12/2014	South Grand River	184.05					87%	24,000	1.59E+13