

Supplementary Materials

Table S1. Heavy metal content in organs and tissues of fish from the Barguzin River ($\frac{min-max}{mean \pm SD}$), mg/kg w.w.

Organ	Fish species	Fe	Mn	Zn	Cu	Pb	Cd	Ni	Cr
scales	pike	<u>28.40–54.43</u> 39.74±10.27	<u>41.41–71.51</u> 53.45±10.42	<u>162.12–211.89</u> 182.63±19.55	<u>0.38–1.15</u> 0.86±0.31	n.d.	n.d.	n.d.	<u>3.16–4.79</u> 4.16±0.67
	perch	<u>15.55–54.15</u> 33.24±16.68	<u>44.83–79.47</u> 55.40±13.97	<u>51.31–102.92</u> 74.77±19.77	<u>n.d.–0.47</u> 0.24±0.19	n.d.	n.d.	n.d.	<u>3.76–5.57</u> 4.51±0.73
	roach	<u>25.17–97.66</u> 50.98±17.88	<u>4.77–25.70</u> 14.97±6.73	<u>53.38–168.26</u> 102.54±31.15	<u>0.02–1.67</u> 0.81±0.49	<u>n.d.–0.60</u> 0.16±0.06	n.d.	<u>n.d.–0.43</u> 0.17±0.11	<u>1.67–5.33</u> 3.57±0.87
	bream	<u>6.05–63.02</u> 25.81±20.17	<u>23.13–80.97</u> 45.79±23.26	<u>45.41–116.51</u> 75.97±28.75	<u>0.06–0.35</u> 0.19±0.12	n.d.	n.d.	n.d.	<u>2.70–5.27</u> 3.94±1.05
	carp	<u>7.80–51.82</u> 27.30±13.87	<u>7.75–22.20</u> 13.29±4.93	<u>68.58–200.60</u> 129.95±46.63	<u>n.d.–1.79</u> 0.55±0.70	<u>n.d.–0.92</u> 0.26±0.41	n.d.	<u>n.d.–0.08</u> 0.03±0.01	<u>1.38–2.38</u> 1.99±0.41
	crucian carp	<u>9.46–36.57</u> 21.92±8.99	<u>9.26–33.65</u> 13.98±7.35	<u>47.22–105.94</u> 71.99±14.39	<u>n.d.–0.83</u> 0.49±0.28	n.d.	n.d.	<u>n.d.–0.31</u> 0.10±0.06	<u>2.27–4.98</u> 2.88±0.70
gills	pike	<u>57.47–84.13</u> 76.75±9.89	<u>3.15–4.57</u> 3.77±0.49	<u>106.46–213.65</u> 134.75±41.24	<u>0.06–1.34</u> 0.80±0.47	n.d.	n.d.	n.d.	<u>n.d.–0.05</u> 0.03±0.01
	perch	<u>55.91–127.92</u> 96.46±26.29	<u>4.48–7.71</u> 6.14±1.44	<u>17.24–19.39</u> 18.37±0.99	<u>n.d.–0.46</u> 0.23±0.18	<u>n.d.–0.02</u> 0.02±0.02	n.d.	n.d.	<u>0.36–0.52</u> 0.42±0.07
	roach	<u>48.7–62.76</u> 55.73±9.94	<u>4.75–7.71</u> 6.23±2.09	<u>49.03–74.27</u> 61.65±17.85	<u>0.38–0.42</u> 0.40±0.03	n.d.	<u>0.24–0.26</u> 0.25±0.01	n.d.	<u>0.72–1.25</u> 0.99±0.37
	bream	<u>21.74–173.74</u> 91.82±57.31	<u>7.2–24.66</u> 12.64±5.64	<u>10.29–17.68</u> 13.38±3.04	<u>0.11–1.12</u> 0.46±0.32	n.d.	<u>0.14–0.46</u> 0.20±0.24	n.d.	<u>0.04–0.76</u> 0.47±0.32
	carp	<u>59.21–232.76</u> 109.29±57.07	<u>5.85–13.12</u> 7.85±2.63	<u>146.79–454.27</u> 247.55±113.19	<u>n.d.–1.92</u> 0.65±0.72	<u>n.d.–0.37</u> 0.09±0.16	<u>n.d.–1.01</u> 0.30±0.43	n.d.	<u>0.11–0.91</u> 0.32±0.28
	crucian carp	<u>37.81–124.68</u> 79.98±27.19	<u>6.97–11.12</u> 8.85±1.17	<u>49.12–139.69</u> 102.23±26.74	<u>n.d.–1.28</u> 0.69±0.40	n.d.	<u>n.d.–0.39</u> 0.10±0.14	<u>n.d.–0.47</u> 0.19±0.20	<u>0.59–1.17</u> 0.85±0.30
gonads	pike	<u>17.38–35.29</u> 24.60±7.30	<u>0.91–4.28</u> 2.20±1.14	<u>14.73–142.42</u> 54.19±51.65	<u>n.d.–1.57</u> 0.69±0.57	n.d.	n.d.	n.d.	<u>n.d.–0.23</u> 0.09±0.04
	perch	<u>11.21–16.89</u> 13.83±2.11	<u>0.96–7.31</u> 2.80±2.30	<u>8.15–24.99</u> 12.65±6.96	<u>n.d.–0.55</u> 0.24±0.24	n.d.	<u>n.d.–0.15</u> 0.13±0.03	<u>n.d.–0.25</u> 0.14±0.08	<u>0.09–0.37</u> 0.18±0.12
	roach	<u>14.18–44.4</u> 22.88±8.84	<u>2.06–6.68</u> 3.99±1.45	<u>45.57–70.88</u> 58.33±8.64	<u>2.12–6.56</u> 3.57±1.34	n.d.	<u>n.d.–0.64</u> 0.21±0.20	<u>n.d.–0.24</u> 0.08±0.03	<u>n.d.–1.31</u> 0.48±0.43
	bream	<u>14.87–59.24</u> 31.36±19.35	<u>0.93–2.0</u> 1.35±0.46	<u>7.93–118.08</u> 50.98±42.99	<u>0.24–1.66</u> 0.85±0.61	n.d.	n.d.	n.d.	n.d.
	carp	<u>5.80–23.34</u> 13.28±6.38	<u>0.67–1.36</u> 0.86±0.29	<u>17.43–44.62</u> 29.93±13.73	<u>n.d.–1.61</u> 0.68±0.44	n.d.	<u>n.d.–0.85</u> 0.53±0.27	n.d.	<u>n.d.–0.15</u> 0.07±0.05
	crucian carp	<u>25.35–33.85</u> 29.41±3.02	<u>1.10–1.68</u> 1.43±0.26	<u>32.33–74.60</u> 49.48±18.33	<u>0.95–3.14</u> 2.52±0.90	n.d.	<u>n.d.–0.18</u> 0.08±0.04	<u>n.d.–0.92</u> 0.38±0.34	<u>0.16–0.69</u> 0.44±0.22
liver	pike	<u>32.40–210.01</u> 98.39±72.15	<u>1.10–2.10</u> 1.47±0.35	<u>14.33–30.13</u> 23.68±6.48	<u>0.81–12.61</u> 4.67±4.52	n.d.	n.d.	n.d.	<u>n.d.–0.02</u> 0.01±0.0
	perch	<u>44.62–100.03</u> 72.99±26.57	<u>1.71–2.72</u> 2.15±0.43	<u>12.04–20.80</u> 16.83±3.20	<u>0.28–1.38</u> 0.93±0.40	<u>n.d.–0.06</u> 0.03±0.02	<u>n.d.–0.03</u> 0.02±0.01	<u>n.d.–0.22</u> 0.10±0.04	<u>0.10–0.38</u> 0.22±0.11
	roach	<u>58.21–109.24</u> 84.41±29.87	<u>1.58–2.87</u> 2.59±0.87	<u>24.10–32.41</u> 28.37±4.15	<u>6.08–7.99</u> 7.03±0.94	n.d.	n.d.	<u>n.d.–0.32</u> 0.28±0.08	<u>0.28–0.48</u> 0.38±0.09
	bream	<u>17.06–161.02</u> 89.15±55.79	<u>1.85–2.53</u> 2.21±0.27	<u>18.02–25.79</u> 21.87±3.57	<u>5.77–15.80</u> 13.06±4.14	n.d.	n.d.	<u>n.d.–0.06</u> 0.03±0.01	<u>n.d.–0.55</u> 0.24±0.14
	carp	<u>46.15–250.87</u> 95.30±71.58	<u>1.38–2.88</u> 1.89±0.48	<u>69.78–319.99</u> 182.77±104.54	<u>4.99–21.95</u> 11.14±6.85	<u>n.d.–0.38</u> 0.18±0.10	<u>n.d.–0.13</u> 0.06±0.03	<u>n.d.–0.43</u> 0.16±0.11	<u>n.d.–0.47</u> 0.19±0.14
	crucian carp	<u>48.33–67.06</u> 56.69±7.79	<u>0.50–1.39</u> 1.03±0.42	<u>14.4–27.13</u> 21.03±6.26	<u>4.44–7.97</u> 5.48±1.67	n.d.	<u>n.d.–0.15</u> 0.07±0.06	<u>0.15–0.35</u> 0.23±0.09	<u>0.07–1.06</u> 0.50±0.41
kidneys	pike	<u>116.71–132.45</u> 124.58±11.13	<u>1.40–1.72</u> 1.56±0.23	<u>23.99–85.52</u> 54.76±43.51	<u>1.07–1.21</u> 1.14±0.10	n.d.	n.d.	n.d.	n.d.
	perch	<u>92.92–133.67</u>	<u>0.54–0.88</u>	<u>32.78–62.0</u>	<u>1.02–2.64</u>	n.d.	n.d.	n.d.	n.d.

Organ	Fish species	Fe	Mn	Zn	Cu	Pb	Cd	Ni	Cr
		110.54±20.55	0.64±0.25	47.21±14.98	1.88±0.62				
	roach	<u>55.23–130.11</u> 94.23±38.35	<u>0.50–0.81</u> 0.65±0.17	<u>99.87–138.97</u> 120.09±20.12	<u>0.71–1.29</u> 1.09±0.22	n.d.	<u>0.12–0.34</u> 0.18±0.06	<u>n.d.–1.72</u> 1.05±0.61	<u>n.d.–0.08</u> 0.05±0.03
	bream	<u>35.73–133.17</u> 88.25±44.31	<u>1.01–2.40</u> 1.63±0.67	<u>19.70–22.25</u> 21.36±1.13	<u>0.76–1.18</u> 1.01±0.18	n.d.	<u>n.d.–0.58</u> 0.45±0.19	<u>n.d.–0.02</u> 0.01±0.01	<u>0.08–0.31</u> 0.21±0.11
	carp	<u>61.88–123.84</u> 92.26±23.27	<u>1.09–3.48</u> 2.02±0.77	<u>153.7–513.2</u> 336.29±120.47	<u>1.10–4.97</u> 1.97±1.41	<u>n.d.–0.27</u> 0.12±0.09	<u>n.d.–2.82</u> 1.21±1.05	<u>n.d.–0.17</u> 0.08±0.06	<u>n.d.–0.55</u> 0.19±0.15
	crucian carp	<u>104.03–118.63</u> 111.33±10.32	<u>1.38–2.28</u> 1.83±0.64	<u>64.76–86.56</u> 75.66±15.41	<u>1.24–1.27</u> 1.26±0.02	n.d.	<u>n.d.–0.1</u> 0.07±0.05	<u>n.d.–0.24</u> 0.17±0.12	<u>0.01–0.08</u> 0.05±0.04
heart	pike	<u>115.36–205.09</u> 175.73±34.92	<u>0.23–0.28</u> 0.24±0.02	<u>25.58–37.95</u> 32.79±4.54	<u>1.24–2.03</u> 1.64±0.31	n.d.	<u>n.d.–0.10</u> 0.04±0.03	n.d.	<u>0.04–0.29</u> 0.13±0.10
	perch	<u>146.19–155.14</u> 150.67±6.33	<u>1.08–1.84</u> 1.46±0.54	<u>22.51–24.98</u> 23.75±1.75	<u>0.96–1.45</u> 1.21±0.35	<u>n.d.–0.01</u> 0.01±0.00	<u>n.d.–0.01</u> 0.01±0.0	n.d.	<u>0.50–1.07</u> 0.79±0.40
	roach	<u>110.25–181.57</u> 148.27±35.44	<u>0.31–0.84</u> 0.58±0.28	<u>23.14–29.24</u> 26.51±2.64	<u>1.88–3.55</u> 2.86±0.81	n.d.	<u>n.d.–0.32</u> 0.21±0.08	<u>n.d.–1.62</u> 1.30±0.34	n.d.
	bream	<u>86.93–239.18</u> 170.25±77.14	<u>0.48–0.54</u> 0.51±0.03	<u>9.73–13.88</u> 11.48±2.15	<u>1.61–2.12</u> 1.88±.26	n.d.	n.d.	n.d.	<u>0.18–0.29</u> 0.24±0.06
	carp	<u>146.7–304.79</u> 253.28±47.22	<u>0.25–0.54</u> 0.39±0.12	<u>37.16–207.26</u> 131.04±59.58	<u>1.37–3.09</u> 2.31±0.65	n.d.	<u>n.d.–0.32</u> 0.14±0.13	<u>n.d.–1.46</u> 0.63±0.42	<u>n.d.–0.66</u> 0.26±0.18
	crucian carp	<u>202.9–296.53</u> 253.28±47.22	<u>1.47–2.78</u> 2.13±0.93	<u>22.49–38.54</u> 31.40±8.17	<u>1.78–2.22</u> 1.97±0.22	n.d.	<u>n.d.–0.24</u> 0.14±0.08	<u>n.d.–0.45</u> 0.25±0.23	n.d.
spleen	pike	<u>340.24–390.59</u> 374.16±20.93	<u>0.49–1.90</u> 1.10±0.71	<u>19.25–31.24</u> 25.05±6.26	<u>n.d.–0.28</u> 0.13±0.14	n.d.	n.d.	n.d.	n.d.
	perch	<u>192.12–234.19</u> 213.9±20.35	<u>1.74–3.02</u> 2.34±0.63	<u>14.24–19.19</u> 16.96±2.69	<u>n.d.–0.29</u> 0.14±0.11	n.d.	<u>n.d.–0.29</u> 0.17±0.13	<u>n.d.–0.35</u> 0.19±0.13	<u>n.d.–0.77</u> 0.58±0.19
spleen	roach	<u>149.69–244.88</u> 195.75±47.67	<u>0.99–1.07</u> 1.05±0.05	<u>39.07–59.21</u> 45.78±11.63	<u>2.47–3.72</u> 3.30±0.72	n.d.	n.d.	n.d.	n.d.
	bream	<u>175.61–199.11</u> 187.36±16.62	<u>1.20–1.39</u> 1.30±0.13	<u>17.23–19.41</u> 18.32±1.54	<u>1.18–2.64</u> 1.91±1.03	n.d.	<u>n.d.–0.27</u> 0.19±0.09	n.d.	<u>n.d.–0.30</u> 0.21±0.09
	carp	<u>97.65–684.44</u> 395.99±220.50	<u>0.76–3.45</u> 1.50±1.0	<u>34.66–330.93</u> 173.02±98.97	<u>0.40–4.58</u> 2.40±1.38	n.d.	<u>n.d.–0.74</u> 0.32±0.19	<u>n.d.–0.81</u> 0.35±0.18	<u>n.d.–1.08</u> 0.46±0.40
	crucian carp	<u>145.34–210.78</u> 179.19±28.94	<u>1.24–2.09</u> 1.63±0.41	<u>42.28–72.10</u> 57.09±15.55	<u>2.55–4.64</u> 3.58±0.95	n.d.	<u>n.d.–0.22</u> 0.10±0.12	<u>n.d.–0.51</u> 0.33±0.18	<u>n.d.–0.28</u> 0.16±0.10

Note: n.d. — was not detected or below the detection limit

Table S2. Metal content in tissues of freshwater fish, mg/kg w.w.

Water reservoir	Fish species	Fe	Mn	Zn	Cu	Pb	Cd	Ni	Cr	Reference
Muscle										
Honghu Lake, China	Crucian carp	–	–	15.31	0.3829	0.0938	0.0087	–	3.36	[92]
Kichera river, Russia	Roach (Male)	–	0.22	4.81	–	0.30	0.10	–	–	[93]
	Roach (female)	–	0.37	5.84	–	0.20	0.09	–	–	
	Perch (Male)	–	0.18	4.33	–	0.11	n.d.	–	–	
	Perch (female)	–	0.22	5.85	–	0.29	0.02	–	–	
	Pike (Male)	–	0.11	2.88	–	0.07	n.d.	–	–	
	Pike (female)	–	0.14	3.68	–	0.19	0.01	–	–	
Belaya river, Russia, Bashkiria	crucian carp	11.6		4.0	0.60	0.60			0.07	[94]
	bream	12.7		3.5	0.63	0.05			0.06	
Lake Balaton, Hungary	Bream*, October	–	–	13.4	2.48	1.53	0.94	–	–	[95]
	Western basin,									
	Bream, May									
	Western basin,	–	–	12.8	1.86	0.49	0.56	–	–	
	may									
ŽNIŃSKIE DUŻE LAKE	Bream*, October	–	–	14.2	1.74	0.85	0.40	–	–	[96]
	Eastern basin,									
	Bream*, May	–	–	15.5	2.03	0.43	0.62	–	–	
Eastern basin										
ŽNIŃSKIE DUŻE LAKE (POLAND)	Bream*	–	–	–	–	0.300	0.060	–	–	[96]
Vistula River (Poland)	Bream	–	–	–	–	0.086	–	–	–	[97]
Nidzkie, Poland	Bream	7.58	–	5.94	0.41	0.054	–	–	–	[98]
Niegocin, Poland	Bream	5.04	–	5.47	0.27	0.084	–	–	–	
Gołdap, Poland	Bream	7.28	–	6.68	0.35	0.080	–	–	–	
Jeziorak, Poland	Bream	9.16	–	6.37	0.30	0.079	–	–	–	
the Ružín Water Reservoir, Slovakia	Perch	–	0.252	7.50	0.319	0.019	0.0050	0.147	0.439	[99]
Lake Chany, Russia	Pike	6.3	0.17	8	0.6	<0.05	0.001	**	–	[100]
	Perch	6	0.46	6	0.34	<0.05	0.001	**	–	
	Roach	6	0.33	6	0.28	<0.05	0.001	**	–	
Tom River, Russia	Roach	6	–	20	0.31	0.04	0.011	**	–	
	Perch									
Middle reach in the Kemerovo city		5.2	–	9.6	0.8	0.08	0.02	**	–	
Novosibirsk reservoir, Russia	Perch	28	0.47	6.3	0.53	0.09	0.008	**	<0.1	
	Bream	6.3	0.43	5.6	0.33	0.07	0.0006	**	<0.1	
	Roach	17.8	0.31	6.9	0.48	0.08	0.0006	**	<0.1	
Ob river, below the HPP dam, Russia	Bream	4.0	0.21	3.3	0.51	0.10	0.005	**	0.2	
	Bream	6.3	0.43	6.2	4.6	0.27	0.004	**	<0.1	
	Perch	28	0.47	4.1	2.8	0.09	0.006	**	<0.1	
	Roach	17.8	0.31	5.4	3.9	0.50	0.004	**	<0.1	
Ob river, middle reach, Russia	Bream	27	2.7	30	1.3	0.83	0.03	–	–	
	Roach	38	2.7	17	1.2	0.24	0.06	–	–	
	Perch	16	2.4	22	0.63	<0.05	0.10	–	–	
	Pike	27	2.8	23	1.2	0.05	0.06	–	–	
Ob river, lower reach, Russia	Pike	16	1.5	16	2.2	0.02	0.01	–	<0.1	
	Bream	34	1.6	8.1	3.0	0.03	0.02	–	0.4	
Liver										
Kichera river, Russia	Roach (Male)	–	4.09	18.26	–	n.d.	n.d.	–	–	[93]
	Roach (female)	–	2.54	42.26	–	n.d.	n.d.	–	–	
	Perch (Male)	–	2.24	53.56	–	1.97	0.28	–	–	
	Perch (female)	–	1.46	19.42	–	1.53	0.03	–	–	
	Pike (Male)	–	0.59	36.18	–	0.40	n.d.	–	–	
	Pike (female)	–	1.11	40.36	–	0.56	0.02	–	–	

Water reservoir	Fish species	Fe	Mn	Zn	Cu	Pb	Cd	Ni	Cr	Reference
Liver										
Belaya river, Russia, Bashkiria	Crucian carp	107.3		6.20	1.50	0.07			0.08	[94]
	Bream	101.8		6.50	1.50	0.10			0.14	
Lake Balaton, Hungary	Bream*, October Western basin,	–	–	75.3	57.2	3.72	1.94	–	–	[95]
	Bream, May Western basin, may	–	–	77.2	44.9	1.14	1.51	–	–	
	Bream*, October Eastern basin,	–	–	78.5	38.2	2.60	1.64	–	–	
	Bream*, May Eastern basin	–	–	161.8	56.0	1.45	1.79	–	–	
ŽNIŃSKIE DUŻE LAKE (POLAND)	Bream*	–	–	–	–	0.068	0.143	–	–	[96]
the Ružin Water Reservoir, Slovakia	Perch		2.83	25.8	2.29	0.016	1.31	0.286	0.423	[99]
Kidneys										
the Ružin Water Reservoir, Slovakia	Perch	–	2.36	281.0	2.29	0.098	1.33	1.103	0.585	[99]
Roe										
the Ružin Water Reservoir, Slovakia	Perch	–	1.60	18.6	0.595	0.0072	0.0073	0.199	0.459	[99]
Milt										
the Ružin Water Reservoir, Slovakia	perch	–	0.207	7.74	0.304	0.0082	0.022	0.231	0.381	[99]
Gills										
Belaya river, Russia, Bashkiria	Crucian carp	4.60		3.00	0.50	0.60			0.04	[94]
	bream	2.10		2.60	0.50	0.60			0.06	
Lake Balaton, Hungary	Bream*, October Western basin,	–	–	42.9	6.54	4.39	2.25	–	–	[95]
Lake Balaton, Hungary	Bream, May Western basin, may	–	–	28.3	3.60	1.38	1.37	–	–	
Lake Balaton, Hungary	Bream*, October Eastern basin,	–	–	40.1	4.20	3.08	0.84	–	–	
Lake Balaton, Hungary	Bream*, May Eastern basin	–	–	41.7	4.61	1.42	1.12	–	–	
ŽNIŃSKIE DUŻE LAKE (POLAND)	Bream*	–	–	–	–	0.880	0.028	–	–	[96]

Notes:

* –mg/kg of w.w.; “–” – was not measured;

** –trace amount;

n.d. – was not detected or below the detection limit

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