

Supplementary Material 3

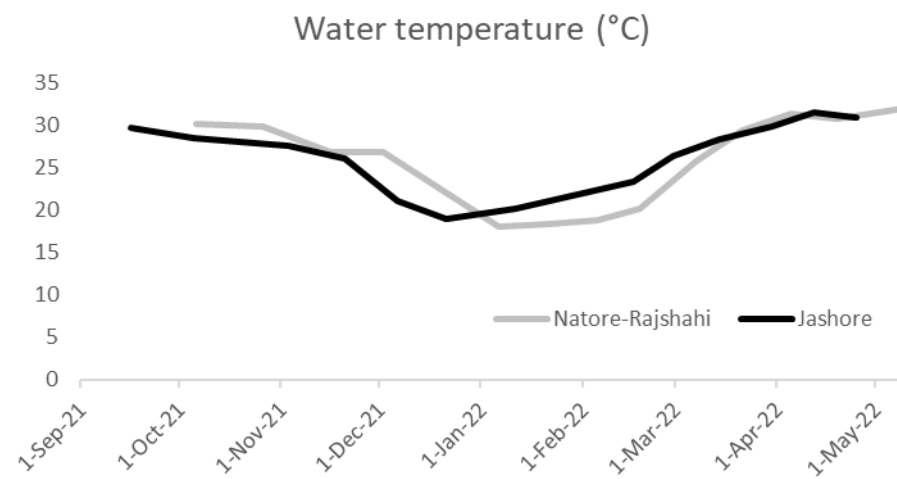
Water quality parameters

Supplementary Table 3.1. Water quality parameter means for in ponds in the Jashore region. Standard deviations are in parentheses.

Farm	pH		Dissolved oxygen (mg/l)		Total ammonia nitrogen (mg/l)	Alkalinity (mg/l; CaCO ₃ equivalent)	Water transparency (measured by Secchi disc in cm)	Water colour
	Morning	Afternoon	Morning	Afternoon				
A	8.0 (0.5)	8.3 (0.4)	4.4 (0.8)	6.8 (0.6)	0.17 (0.12)	230.9 (22.1)	24.8 (1.3)	Mostly green
B	8.1 (0.6)	8.4 (0.6)	4.9 (1.0)	7.1 (0.5)	0.17 (0.12)	295.0 (25.6)	23.4 (0.9)	Mostly green
C	8.1 (0.4)	8.2 (0.5)	4.1 (0.6)	6.5 (0.4)	0.15 (0.16)	200.9 (21.5)	27.7 (1.7)	Fluctuated between brown and green colours
D	8.0 (0.4)	8.3 (0.5)	3.8 (1.0)	6.0 (0.7)	0.35 (0.13)	205.2 (24.2)	27.3 (2.4)	Mostly green with the appearance of brown colour occasionally
E	7.9 (0.5)	8.3 (0.5)	4.4 (1.2)	5.9 (0.6)	0.25 (0.20)	171.0 (24.2)	25.4 (3.0)	Fluctuated among green, turbid and brown colours
F	8.0 (0.4)	8.3 (0.4)	4.7 (1.2)	6.1 (0.6)	0.10 (0.13)	153.9 (24.2)	26.5 (2.8)	Mostly brown with the appearance of turbid colour occasionally
G	7.9 (0.4)	8.3 (0.4)	3.7 (1.0)	5.8 (0.5)	0.12 (0.13)	175.3 (16.4)	26.1 (1.7)	Fluctuated between green and brown colours
H	8.1 (0.5)	8.3 (0.4)	4.8 (1.3)	6.9 (0.4)	0.19 (0.11)	235.1 (25.7)	23.5 (0.8)	Mostly green
I	8.0 (0.4)	8.3 (0.4)	4.1 (0.7)	6.2 (0.5)	0.10 (0.13)	153.9 (14.0)	28.8 (2.6)	Mostly brown with occasional appearance of green colour
J	8.1 (0.5)	8.2 (0.4)	4.3 (0.8)	6.3 (0.5)	0.38 (0.50)	192.4 (16.4)	27.1 (3.4)	Mostly brown with occasional appearance of turbid and green colours

Supplementary Table 3.2. Water quality parameters means for ponds in the Natore-Rajshahi region. Standard deviations are in parentheses.

Farm	pH		Dissolved oxygen (mg/l)		Total ammonia nitrogen (mg/l)	Alkalinity (mg/l; CaCO ₃ equivalent)	Water transparency (measured by Secchi disc in cm)	Water colour
	Morning	Afternoon	Morning	Afternoon				
K	7.4 (0.1)	7.6 (0.1)	4.1 (0.7)	7.0 (1.4)	0.30 (0.11)	172.5 (24.7)	20.8 (5.5)	Mostly green
L	7.4 (0.2)	7.6 (0.1)	3.0 (0.5)	5.8 (1.3)	0.34 (0.23)	190.0 (28.3)	30.6 (11.6)	Mostly green
M	7.5 (0.2)	7.6 (0.2)	3.2 (0.4)	5.9 (1.4)	0.27 (0.15)	235.0 (49.5)	21.6 (6.0)	Fluctuated between green and brown colours
N	7.4 (0.1)	7.5 (0.2)	3.0 (0.3)	4.5 (0.9)	0.63 (0.41)	No data	39.1 (7.5)	Fluctuated between green and clear water colours
O	7.5 (0.1)	7.7 (0.1)	3.2 (0.4)	5.6 (1.3)	0.21 (0.17)	210.0 (14.1)	27.4 (7.4)	Fluctuated among green, clear, and turbid water colours
P	7.4 (0.2)	7.6 (0.1)	2.8 (0.5)	4.8 (1.3)	0.48 (0.26)	260.0 (0.0)	31.5 (11.4)	Mostly green with the appearance of turbid colour lately
Q	7.5 (0.1)	7.5 (0.1)	3.5 (0.9)	5.1 (1.1)	0.27 (0.07)	175.0 (0.0)	19.9 (5.0)	Mostly turbid
R	7.5 (0.1)	7.7 (0.1)	3.3 (0.7)	5.5 (1.8)	0.33 (0.28)	178.0 (31.1)	26.9 (5.1)	Fluctuated between green and turbid colours
S	7.5 (0.1)	7.6 (0.1)	3.6 (0.6)	6.5 (1.5)	0.30 (0.11)	195.0 (21.2)	30.5 (10.6)	Fluctuated among green, clear, and brown colours



Supplementary Figure 3.1. Mean water temperature (°C) in ponds by region.