

Table 1 Variation in physicochemical properties of rice-field mosquito larval habitats subjected to various agricultural chemical inputs in Minna, Nigeria

PHYSICO-CHEMICAL PARAMETERS	Site A	Site B	Site C
Temperature (°C)	30.50±0.71 ^a	30.00±0.00 ^a	30.00±1.41 ^a
pH	6.57±0.51 ^a	7.17±1.48 ^b	6.16±0.11 ^a
Turbidity (NTU)	0.27±0.35 ^b	0.24±0.28 ^a	0.24±0.21 ^a
Conductivity (µS/cm)	344.50±61.51 ^b	508.50±44.54 ^c	194.00±43.84 ^a
Alkalinity (mg/l)	75.00±21.21 ^b	132.00±19.79 ^c	31.00±15.56 ^a
Hardness (mg/l)	62.00±19.79 ^b	81.00±41.01 ^c	32.00±14.14 ^a
Potassium (mg/l)	10.40±0.14 ^a	14.90±2.12 ^b	13.40±3.11 ^b
Sodium (mg/l)	47.75±2.33 ^b	51.70±1.41 ^c	38.15±2.75 ^a
Phosphate (mg/l)	5.58±2.69 ^b	2.71±1.77 ^a	9.98±1.69 ^c
Nitrate (mg/l)	9.92±1.94 ^b	7.93±3.18 ^a	7.72±2.23 ^a
Chloride (mg/l)	31.45±4.03 ^c	27.47±0.49 ^b	23.41±15.03 ^a
D.O (mg/l)	7.00±1.41 ^a	6.00±0.00 ^a	6.00±2.83 ^a
B.O.D (mg/l)	4.50±0.71 ^a	4.00±0.00 ^a	4.50±2.12 ^a

Note: * Mean values followed by the same superscript alphabets in a row are not significantly different at P = 0.05; Site A: rice-field without agrochemical application; Site B: rice field with only chemical fertilizer application and Site C: rice-field with both fertilizer and herbicide application; * Dissolved Oxygen (DO) and Biological Oxygen Demand (BOD)