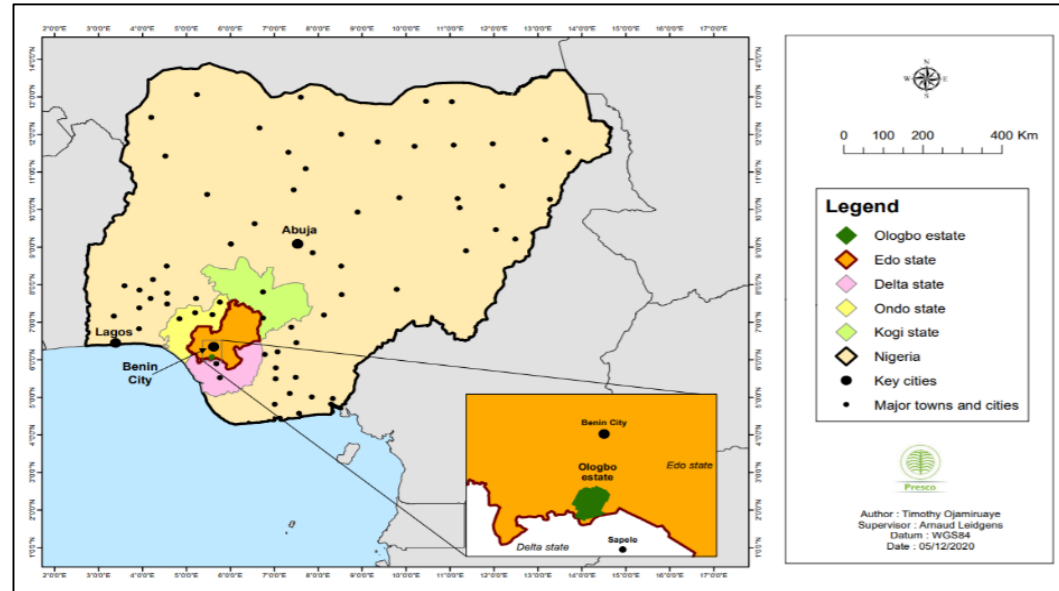


SUPPLEMENTARY MATERIALS

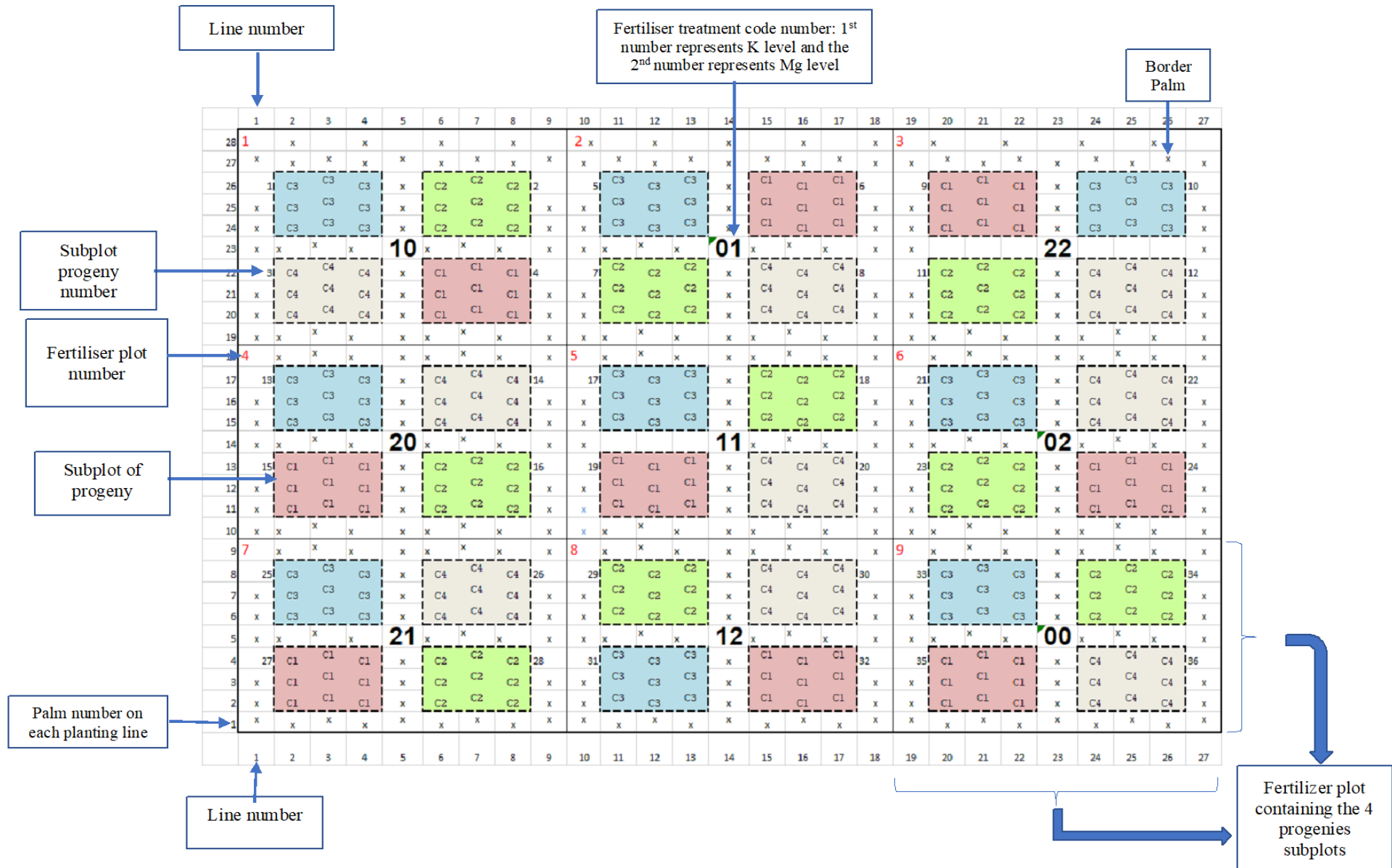
Supplementary fig. (SF) 1.

Map of Africa showing the location of Nigeria in Africa (left) and Benin City and Ologbo oil palm estate in Nigeria (right)



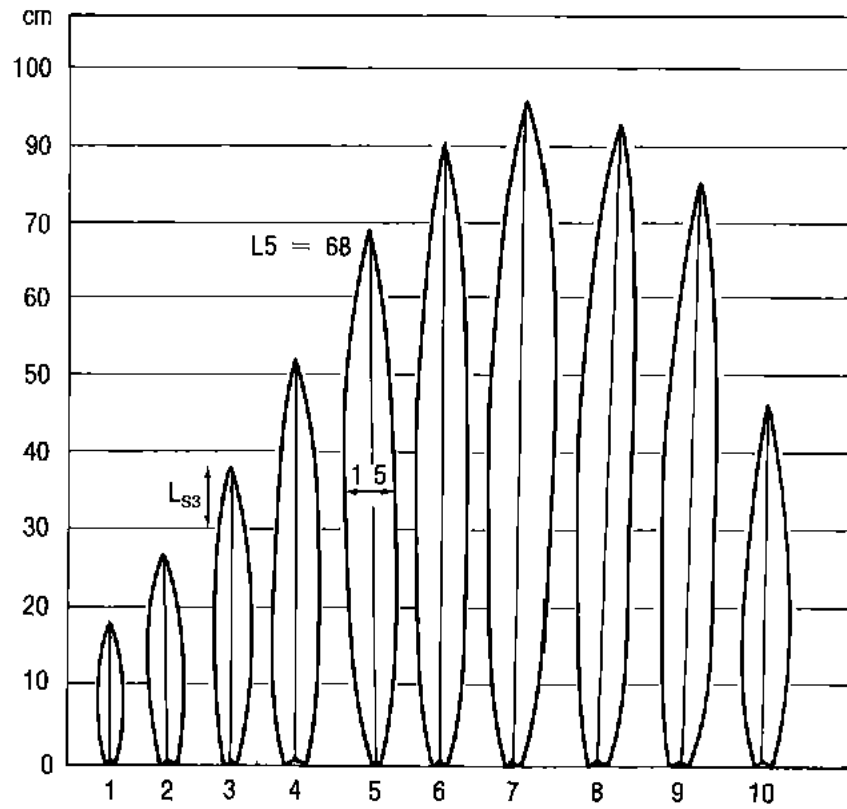
Supplementary fig. (SF) 2.

Experimental layout



Supplementary fig. (SF) 3.

Graduated pallet with leaflets ranked according to their apparent leaflet area



Source: [Tailliez and Koffi \(1992\)](#)

Supplementary Table (ST) 1:

K x Mg interactions on oil palm growth parameters

Growth parameters	YAP	Fertilizer treatments									Prob
		K0Mg0	K1Mg0	K2Mg0	K0Mg1	K0Mg2	K2Mg1	K2Mg2	K1Mg1	K1Mg2	
PH	4	45.51 c	52.21 ab	50.46 abc	49.91 abc	47.78 bc	50.72 abc	55.42 a	49.85 abc	48.34 bc	0.004
	5	98.13 b	106.8 a	104.14 ab	101.1 ab	97.05 b	102.97 ab	107 a	101.1 ab	102.42 ab	0.012
	7	169.4 b	178 ab	178.07 ab	176.8 ab	169.95 b	174.31 ab	182.21 a	172.1 ab	175.42 ab	0.005
NFE	4	31.73 b	31.88 ab	32.07 ab	32.6 a	31.68 b	32.12 ab	32.27 ab	31.91 ab	31.979 ab	0.041
CG	4	227.21 b	233.2 ab	233.67 ab	232.8 ab	227.54 b	232.53 ab	237.45 a	231.1 ab	233.31 ab	0.006
	5	248.02 d	255.1 ab	256.08 ab	252.2 bc	248.67 cd	254.37 bc	260.76 a	253.4 bc	255.52 ab	0.038
	6	264.29 b	272.1 a	274.55 a	270 ab	263.24 b	273.63 a	276.85 a	270.1 ab	273.48 a	0.012
	7	273.22 c	281.2 bc	284.56 b	280 bc	273.45 c	283.59 b	288.51 a	280.7 bc	284.02 b	0.005
FL	4	488.7 c	511.7 a	503.38 ab	500.3 ab	490.99 bc	505.31 ab	513.16 a	495.5 abc	502.7 ab	0.001
	7	593.62 c	612 a	608.86 a	601 abc	594.56 bc	606.99 ab	612.98 a	604.1 abc	610.83 a	0.050
P	4	55.98 c	60.48 ab	58.61 abc	57.54 bc	56.24 bc	58.82 abc	61.5 a	57.03 bc	59.13 ab	0.000
	5	76.85 c	83.67 a	81.54 ab	80.58 abc	78.46 bc	81.94 ab	84.36 a	79.23 bc	82.496 ab	0.000
	6	87.79 d	97.23 a	94.98 ab	92.01 abc	89.25 cd	94.62 ab	95.38 ab	92.96 abc	93.38 abc	0.001
	7	86.95 d	93.65 ab	93.6 ab	89.71 cd	88.66 cd	92.31 abc	95.04 a	92.08 abc	93.57 ab	0.007

Palm height (PH), Number of frond emitted (NFE), Collar girth (CG), Frond length (FL) and projected canopy area (P)

Different letters (a, b, c and d) indicate significant differences in the different parameters between fertilizer treatments, YAP: year after planting