

Soya Demo Outcomes

SAKiRP

Introduction

The SAKiRP project has introduced soya beans into the Kigoma region's farming systems. However, there are a number of factors which can affect soya bean yield, ranging from the variety planted, fertilizer type and use of inoculant. The field test performed in demo farms in Kasulu, Kibondo and Kakonko districts show us that the highest harvested yield is from the treatment combining Maksoy 6N, NPK fertilizer, and inoculant with a median yield of 1,175 grams from a 2.5 x 2.5m plot, equivalent to 657 kg a⁻¹ or 1623 kg ha⁻¹. This is despite not having the highest median podcount (45 pods per plant for Maksoy vs 93 pods per plant for Uyole).

Demo plot outcomes

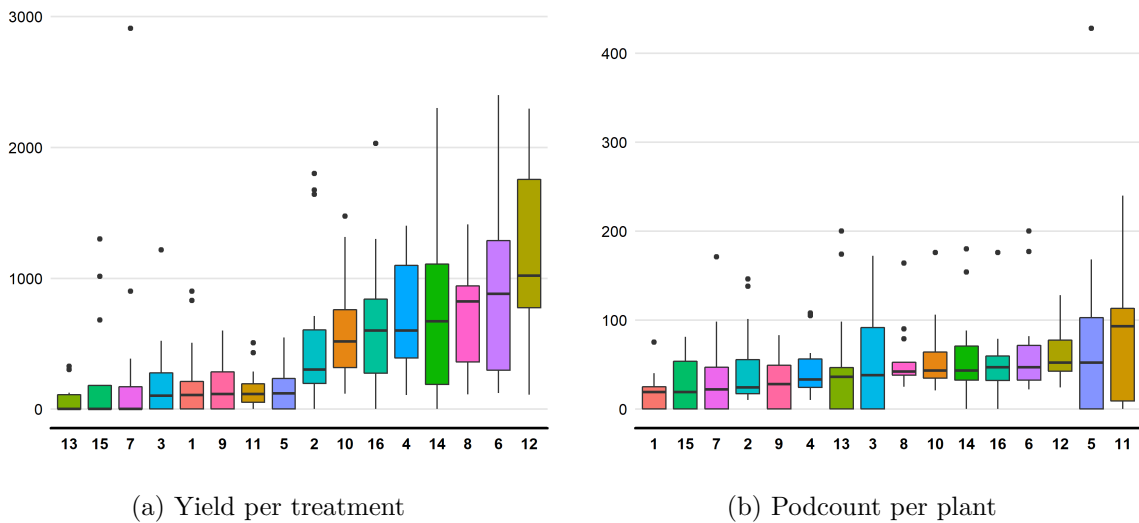


Figure 1: Yield outcomes (in grams per 2.5m x 2.5m plot)

Table 1: Summary of treatments and outcomes

Treatment	Spike	Maksoy	Uyole	Local	DAP	NPK	Unfertilized	Inoculant	Median Yield (g)	Median Podcount	Kg/Acre
12	No	Yes	No	No	No	Yes	No	Yes	1015	45	657
8	Yes	No	No	No	Yes	No	No	No	775	42	502
6	No	Yes	No	No	Yes	No	No	No	765	42	495
14	No	Yes	No	No	No	Yes	No	No	670	42	434
16	Yes	No	No	No	No	Yes	No	No	550	47	356
10	Yes	No	No	No	No	Yes	No	Yes	515	40	333
4	No	Yes	No	No	No	No	Yes	Yes	500	33	324
2	Yes	No	No	No	No	No	Yes	Yes	295	24	191
11	No	No	Yes	No	No	Yes	No	Yes	138	93	89
5	No	No	Yes	No	Yes	No	No	No	120	52	78
7	No	No	No	Yes	Yes	No	No	No	118	22	76
15	No	No	No	Yes	No	Yes	No	No	115	32	74
9	No	No	No	Yes	No	Yes	No	Yes	113	28	73
1	No	No	No	Yes	No	No	Yes	Yes	105	19	68
3	No	No	Yes	No	No	No	Yes	Yes	102	38	66
13	No	No	Yes	No	No	Yes	No	No	0	38	0

Treatments with yield and podcount outcomes are as shown in Table 1.

Figure 2 shows the layout of the demo plots as well as the treatment per numbered plot.

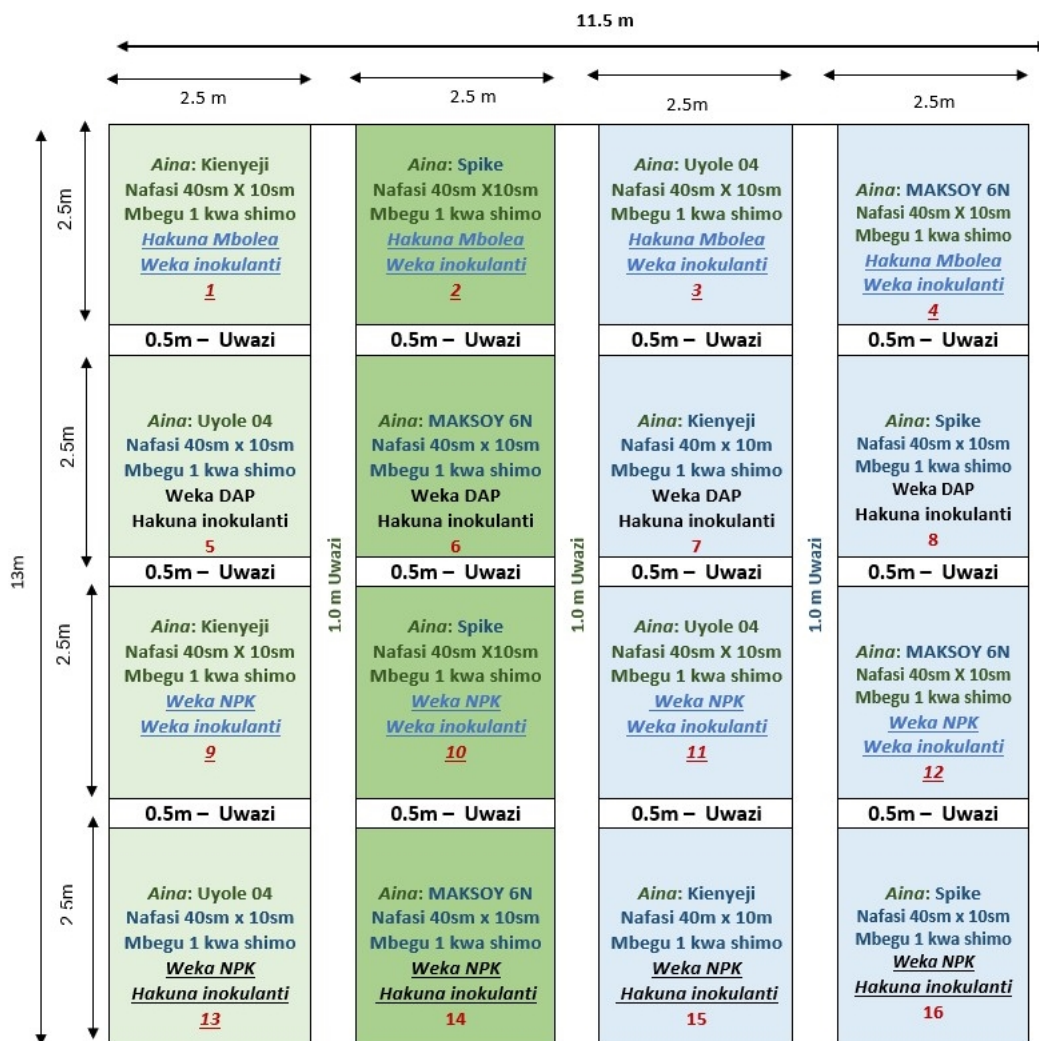


Figure 2: Demo plot layout

Recommendation