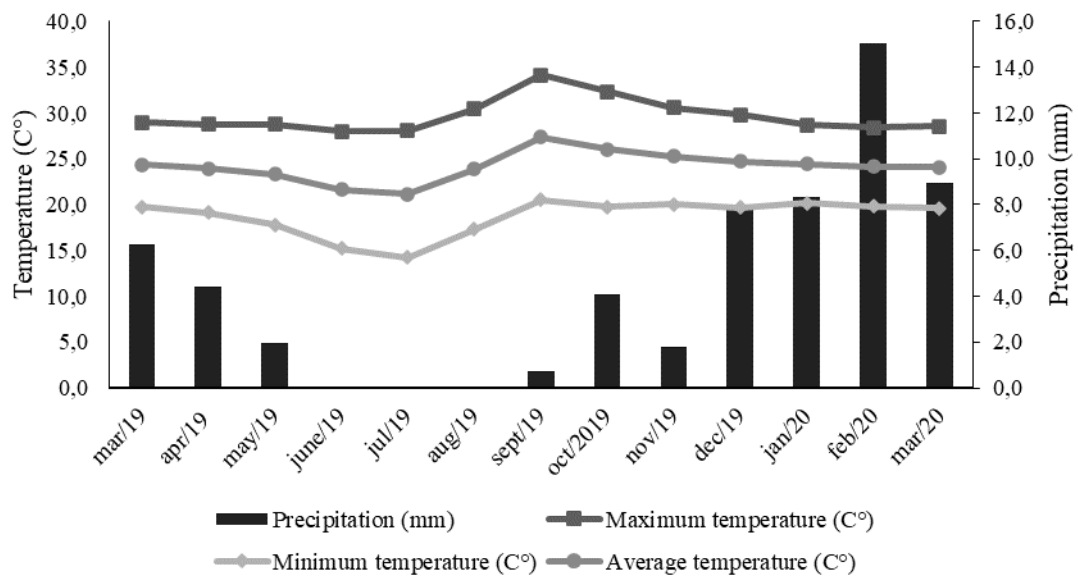


## Sustainable agricultural practices to improve soil quality and productivity of soybean and upland rice

**Table S1.** Description of treatments.

Treatments	Description
1	NB Fallow/Soybean
2	NB Mix 1/ Soybean
3	NB Mix 2 /Soybean
4	NB Mix 3/Soybean
5	NB Mix 4 /Soybean
6	NB Mix 5/Soybean
7	NB Fallow/Rice
8	NB Mix 1/Rice
9	NB Mix 2 /Rice
10	NB Mix 3/Rice
11	NB Mix 4 /Rice
12	NB Mix 5/Rice
13	WB Fallow/Soybean
14	WB Mix 1/ Soybean
15	WB Mix 2 /Soybean
16	WB Mix 3/Soybean
17	WB Mix 4 /Soybean
18	WB Mix 5/Soybean
19	WB Fallow/Rice
20	WB Mix 1/ Rice
21	WB Mix 2 /Rice
22	WB Mix 3/Rice
23	WB Mix 4 /Rice
24	WB Mix 5/Rice

**NB:** Without bacteria; **WB:** with bacteria; **Mix 1:** Ultra Mix) White lupin, Buckwheat, White oat, Black oat, *Crotalaria ochroleuca*, *Crotalaria juncea*, Forage turnip and Grass coracana; **Mix 2:** (Vitale Mix) *Buckwheat*, *Crotalaria spectabilis*, Forage turnip, Black oat; **Mix 3:** (Forage Mix) Millet, *C. ochroleuca*, Black oats, white oats, buckwheat and coracana grass; **Mix 4:** (Reduct Mix) *C. spectabilis*, buckwheat, millet and *crotalaria breviflora*; **Mix 5:** Oats, Millet, Buckwheat, Piata grass and *C. ochroleuca*; Fallow land: no cover plant cultivation.



**Figure S1.** Temperature (°C) and precipitation (mm) during the conduction of the high-lying soybean and rice experiments. Santo Antônio de Goiás, 2019/2020. Brazil.