

Weed management with post-emergent herbicides in intercropped castor and common bean cultivation

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Table 1. Supplementary data. Results of soil analysis in the experimental area at a depth of 0-20 cm, in Ipameri-GO, Brazil, years 2013/2014 and 2014/2015.

Chemical attributes				
pH (CaCl ₂)	P (mg dm ⁻³)	K (cmol _c dm ⁻³)	Ca (cmol _c dm ⁻³)	Mg (cmol _c dm ⁻³)
5.9	6.7	0.28	3.5	1.7
Al (cmol _c dm ⁻³)	H + Al (cmol _c dm ⁻³)	V (%)	B (mg dm ⁻³)	Cu (mg dm ⁻³)
0.0	1.9	74.54	0.18	1.5
Fe (mg dm ⁻³)	Mn (mg dm ⁻³)	Zn (mg dm ⁻³)	Organic material (g dm ⁻³)	
42.6	18.8	7.5	24.0	
Physical attributes				
Sand (g kg ⁻¹)		Silt (g kg ⁻¹)		Clay (g kg ⁻¹)
670.0		70.0		260.0

P: phosphorus; K: potassium; Ca: calcium; Mg: magnesium; Al: aluminium; H: hydrogenium; V: base saturation; B: boron; Cu: copper; Fe: iron; Mn: manganese; Zn: zinc.

Table 2. Supplementary data. Analysis of variance of agronomic components of castor bean intercropped with beans, submitted to post-emergent herbicide application in post-emergent in Ipameri – GO, Brazil, 2013/2014 and 2014/2015.

Variation (FV)	Source	GL	Averages (QM)			
			NRP	NBR	P100	REND
Block	2		0.679 ^{ns}	15.734 ^{ns}	27.474 ^{ns}	12574.979 ^{ns}
Season (E)	1		0.771 ^{ns}	6.94 ^{ns}	13.348167 ^{ns}	1926.667 ^{ns}
Herbicide (H)	1		1.789*	811.808**	171.704**	10409.568*
Dose (D)	4		52.679**	792.984**	2842.987**	1473315.878**
E*H	1		0.001 ^{ns}	0.001 ^{ns}	0.104 ^{ns}	4.267 ^{ns}
E*D	4		0.009 ^{ns}	0.032 ^{ns}	0.132 ^{ns}	218.208 ^{ns}
H*D	4		4.392**	143.471**	402.417**	9431.008**
E*H*D	4		0.013 ^{ns}	0.051 ^{ns}	0.178 ^{ns}	72.642 ^{ns}
Residue	38		0.419	14.164	19.515	1603.629
C.V. (%)			9.1	11.9	8.5	3.5

NRP = number of racemes per plant; NBR = number of berries per raceme; P100 = Weight of one hundred grains; REND = yield of berries; * p<0,05; **p<0,001; ns = not significant.

Table 3. Supplementary data. Analysis of variance of the agronomic characteristics of the bean crop, intercropped with castor bean submitted to herbicide application in post-emergent in Ipameri – GO, Brazil, 2013/2014 and 2014/2015.

Source of Variation (FV)	GL	Averages (QM)				
		NVP	NGV	P100	PROD	
Blocks	2		9.940 ^{ns}	0.306 ^{ns}	2.789 ^{ns}	17769.577 ^{ns}
Season (E)	1		0.417 ^{ns}	0.253 ^{ns}	14.318 ^{ns}	13861.792 ^{ns}
Herbicide (H)	1		6.801**	0.362 ^{ns}	1.806 ^{ns}	602169.958 ^{ns}
Dosage (D)	4		78.317**	2.782**	42.429**	1748721.663 ^{ns}
E*H	1		0.011 ^{ns}	0.001 ^{ns}	0.001 ^{ns}	0.028 ^{ns}
E*D	4		0.013 ^{ns}	0.003 ^{ns}	0.380 ^{ns}	1005.498 ^{ns}
H*D	4		9.011**	0.406 ^{ns}	2.250 ^{ns}	101443.258**
E*H*D	4		0.001 ^{ns}	0.001 ^{ns}	0.108 ^{ns}	909.083 ^{ns}
Residue	38		0.311	0.340	5.245	13944.070
C.V. (%)			7.7	17.0	8.5	11.4

NVP = number of pods per plant; NGV = number of grains per pod; P100 = weight of one hundred grains; PROD = grain yield; ns = not significant; **=p<0,001.

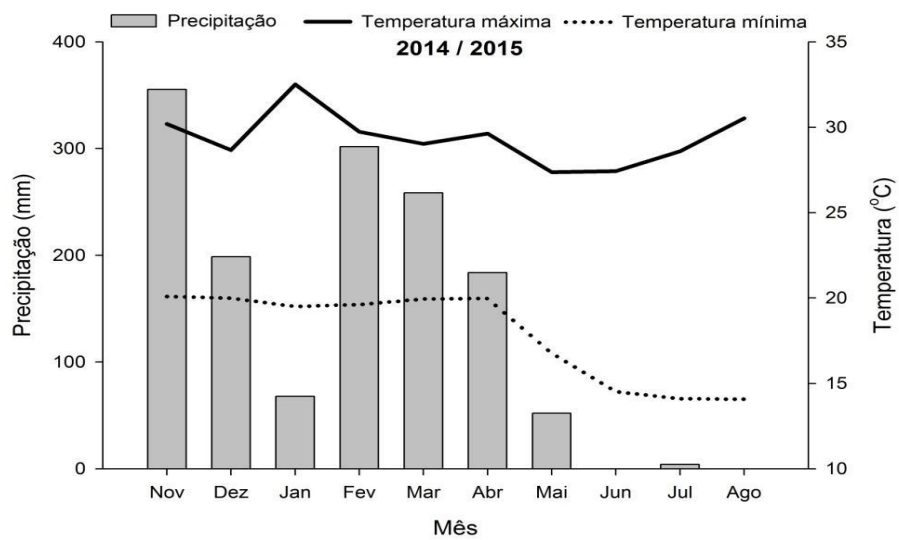
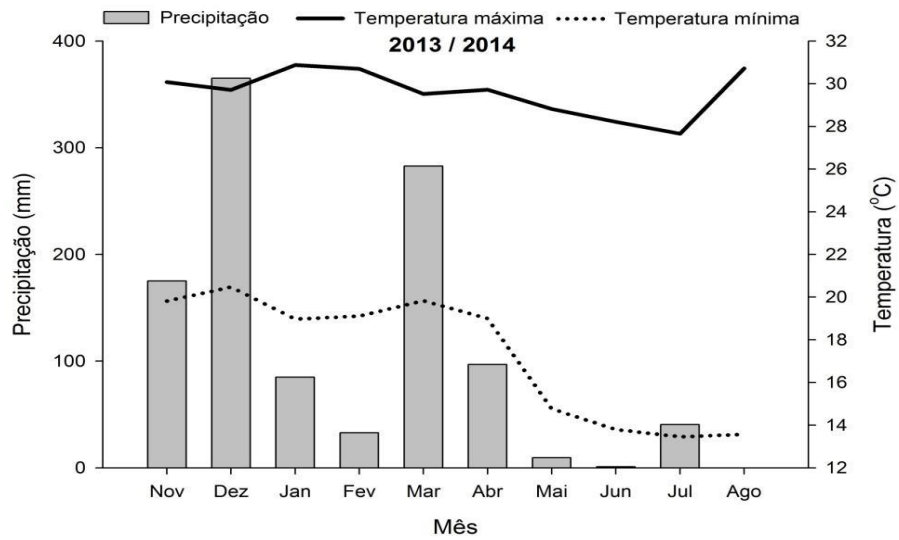


Figure 1. Supplementary data. Climatic data referring to precipitation and maximum and minimum temperatures from November 2013 to August 2015 in Ipameri-GO. (Data provided by the National Meteorological Institute - INMET-GO).