



## Anwendungsbericht/User Application Report

**Produkt/Product:**

penergetic b  
penergetic p

**Fachberater/Consultant:**

Renovagro – Agric. Renovável LTDA  
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**Anwender/User:**

Different Farmers in Brazil

**Datum/Date:**

2014

### Application on Carrots in Brazil

Effect of penergetic p and penergetic b in in Carrots with a cycle of 150 days.

It lacks scientific and statistical rigor, being field works with objective results. The application of Penergetic products provided higher yields, more uniform and better carrots patterns for the market.

1) Farmer: Edio Pascal - Mauá da Serra/ PR - Variety: Juliana

Treatments	Fertilizer at sowing		Topdressing	
	Formula	Kg/ha	Formula	Kg/ha
Standard Fertilisation	02 28 00	1.200	04 14 08	1.500
Standard Fertilisation + Penergetic	02 28 00	1.200	04 14 08	1.500

Comparison of the Productivity with and without Penergetic:

Treatments	Area (ha)	Date		Productivity in boxes/ha	
		Sowing	Harvest	Real	Relativ %
Standard Fertilization	20	20.05.2013	06.01.2014	1.500 boxes	100
Standard Fertilization + Penergetic	12	20.05.2013	06.01.2014	1.845 boxes	123

**+ 23 %**

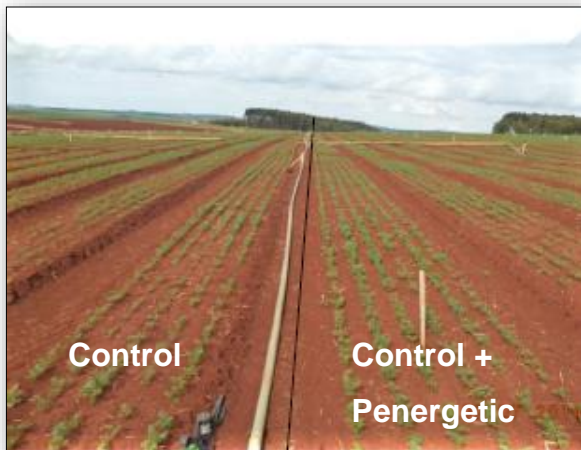
## Penergetic Doses

- Penergetic b: 500 g/ha pre-emerging, or preparation of the area
- Penergetic p: 500 g/ha post-emergence of culture, divided in 2 applications,

## Conclusions

The investment with the Penergetic Technology was 23 boxes/ha, what represented a net income of 322 boxes of carrots/ha, with a cost of R \$ 15.00/box. The profit of the Farmer was R \$ 4.830.00/ha.

## Some pictures of the fields



## 2) Farmer: Aparecido Mendes - Mauá da Serra/ PR - Variety: Juliana

Treatments	Fertilizer at sowing		Toppdressing	
	Formula	Kg/ha	Formula	Kg/ha
Standard Fertilisation	02 28 00	1.000	04 14 08	1.400
Standard Fertilisation + Penergetic	02 28 00	1.000	04 14 08	1.400

Comparison of the Productivity with and without Penergetic:

Treatments	Area (ha)	Date		Productivity in boxes/ha	
		Sowing	Harvest	Real	Relativ %
Standard Fertilization	15	30.08.2013	06.01.2014	510 boxes	100
Standard Fertilization + Penergetic	5	30.08.2013	06.01.2014	705 boxes	139

**+ 39 %**

### Penergetic Doses

- penergetic b: 600 g/ha pre-emerging, or preparation of the area
- penergetic p: 600 g/ha post-emergence of culture, divided in 4 applications, each 15 days

### Conclusions

The evaluation was made through carrot of first, second class and discards. With the Penergetic treatment, the farmer obtained more carrots within first class, which reaches a significant better price on the market and less discards.

### Some pictures of the fields



Control



Control + Penergetic



Control



Control + Penergetic



### 3) Farmer: Irmãos Bergamasco - Perdizes County/MG - Variety: Bangoe

Treatments	Fertilizer at sowing		Toppdressing	
	Formula	Kg/ha	Formula	Kg/ha
Standard Fertilisation	02 30 10	2.000	12 06 18	300
Standard Fertilisation + Penergetic	02 30 10	2.000	12 06 18	300

Comparison of the Productivity with and without Penergetic:

Treatments	Productivity in boxes/linear meter	
	Real	Relativ %
Standard Fertilization	3.600 boxes	100
Standard Fertilization + Penergetic	4.340 boxes	121

**+ 21 %**

### Penergetic Doses

- Penergetic b: 600 g/ha pre-emerging, or preparation of the area
- Penergetic p: 600 g/ha post-emergence of culture, divided in 4 applications, each 15 days

### Conclusions

The good results were possible, although the area hat high level of Nematodes.

### Picture of the harvested carrots

