



## Adaptação dos princípios da compostagem laminar ao plantio direto [

2017

text (article)

Analítica

Laminar composting is a technique particularly used for the agroecological conversion of horticultural production systems. In order to evaluate the applicability of this technique under no-tillage production of corn silage and beans, a randomized complete block design was used, in a 2x4 factorial scheme with 4 replications. Two winter crops (black oats and black oats with hairy vetch), 4 poultry litter rates (0, 8, 16 and 24 Mg ha<sup>-1</sup>) were evaluated, on yields of green and dry matter of corn, whole plant silage, "dry" bean grains and on chemical attributes of an Inceptisol of loamy clay texture (0 to 0.1 m). The organic fertilizer was spread onto the winter cover crops, crushed afterwards by means of a horizontal crusher, in order to mix and incorporate organic residues on the soil surface. Incorporations of poultry litter doses with black oats and black oats plus hairy vetch provided increased yields of fresh forage and whole plant maize for silage dry matter in high fertile soil. Laminar composting with poultry litter and residues of black oats plus hairy vetch increased the organic C and cation exchange capacity levels of the topsoil. The incorporation of poultry litter with residues of black oats plus hairy vetch enhanced the P accumulation of the soil

Laminar composting is a technique particularly used for the agroecological conversion of horticultural production systems. In order to evaluate the applicability of this technique under no-tillage production of corn silage and beans, a randomized complete block design was used, in a 2x4 factorial scheme with 4 replications. Two winter crops (black oats and black oats with hairy vetch), 4 poultry litter rates (0, 8, 16 and 24 Mg ha<sup>-1</sup>) were evaluated, on yields of green and dry matter of corn, whole plant silage, "dry" bean grains and on chemical attributes of an Inceptisol of loamy clay texture (0 to 0.1 m). The organic fertilizer was spread onto the winter cover crops, crushed afterwards by means of a horizontal crusher, in order to mix and incorporate organic residues on the soil surface. Incorporations of poultry litter doses with black oats and black oats plus hairy vetch provided increased yields of fresh forage and whole plant maize for silage dry matter in high fertile soil. Laminar composting with poultry litter and residues of black oats plus hairy vetch increased the organic C and cation exchange capacity levels of the topsoil. The incorporation of poultry litter with residues of black oats plus hairy vetch enhanced the P accumulation of the soil

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzExNzYzMtK>

**Título:** Adaptação dos princípios da compostagem laminar ao plantio direto electronic resource]

**Editorial:** 2017

**Tipo Audiovisual:** Cama de aviário Adubação orgânica Adubo verde Avena strigosa Schieb Vicia villosa Roth  
Cama de aviário Adubação orgânica Adubo verde Avena strigosa Schieb Vicia villosa Roth

**Documento fuente:** Scientia agraria, ISSN 1983-2443, Vol. 18, Nº. 4, 2017, pags. 17-27

**Nota general:** application/pdf

**Restricciones de acceso:** Open access content. Open access content star

**Condiciones de uso y reproducción:** LICENCIA DE USO: Los documentos a texto completo incluidos en Dialnet son de acceso libre y propiedad de sus autores y/o editores. Por tanto, cualquier acto de reproducción, distribución, comunicación pública y/o transformación total o parcial requiere el consentimiento expreso y escrito de aquéllos. Cualquier enlace al texto completo de estos documentos deberá hacerse a través de la URL oficial de éstos en Dialnet. Más información: <https://dialnet.unirioja.es/info/derechosOAI> | INTELLECTUAL PROPERTY RIGHTS STATEMENT: Full text documents hosted by Dialnet are protected by copyright and/or related rights. This digital object is accessible without charge, but its use is subject to the licensing conditions set by its authors or editors. Unless expressly stated otherwise in the licensing conditions, you are free to linking, browsing, printing and making a copy for your own personal purposes. All other acts of reproduction and communication to the public are subject to the licensing conditions expressed by editors and authors and require consent from them. Any link to this document should be made using its official URL in Dialnet. More info: <https://dialnet.unirioja.es/info/derechosOAI>

**Lengua:** Portuguese

**Enlace a fuente de información:** Scientia agraria, ISSN 1983-2443, Vol. 18, Nº. 4, 2017, pags. 17-27

---

## Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)