



**Pergunte ao Euca Expert / Ask the Euca X Pert**

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**Perguntas / Questions**

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**Pergunta nº: 1003/Question nº: 1003**

**Título: /Title: *Eucalyptus* production in different rotations  
managed by coppicing**

Por: / By: **Jesús Lagos**

**E-mail: [jelaqmil@gmail.com](mailto:jelaqmil@gmail.com)**

**Questão: /Question:**

**Hello,**

I have read you website and it's very interesting. I have a question about the production of *E. urograndis*. How much the production decreases in the 2<sup>nd</sup> and 3<sup>th</sup> rotation cut with vegetative reproduction?

I re-ask the question in Spanish. Cuanto disminuye la producción en cultivo e *E. urograndis* en monte bajo?

Thank you very much,

Regards,

Jesús Lagos

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**Resposta por Celso Foelkel: / Answer by Celso Foelkel:**

**Dear Mr. Lagos, thanks for your question.**

In well-managed stands, the production does not decrease either in the second or third rotation; however, there are cases that several stumps do not sprout and the stand loses homogeneity and performance.

In these cases, a reduction of 15-20% in productivity may be expected from one rotation to another. Maximum losses are about 30%. More than this, better to replant and reestablish the forest again.

Regards

**Celso**

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**Outros Comentários: / Other Comments:**

**Por:/ By:** [Jesús Lagos](#)

**E-mail:** [jelagmil@gmail.com](mailto:jelagmil@gmail.com)

Thank you very much.

I suppose that the 15-20% of reduction is by the mortality of the new sprouts or by doesn't sprout of the stumps. The productivity of the new and viable plants is similar than the "mother's" stumps, doesn't it?

Are there any tech paper about the management in this case? I haven't found any paper in the Web.

Regards,  
Jesús Lagos

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**Outros Comentários: / Other Comments:**

**Por:/ By:** [Jesús Lagos](#)

**E-mail:** [jelagmil@gmail.com](mailto:jelagmil@gmail.com)

Hello again!

I have some doubts:

In your online book you explain some examples about management and costs of a plantation of eucalyptus.

Maybe, I'm going to propose an example:

Imagine we have 60,000 ha, aprox. We need to produce 1,200,000 ton. of biomass with eucalyptus. What do you plan to reach this needings?

If I use a 3x3 m plantation, with 15% of died trees, I should get 40m<sup>3</sup>/ha in the 8<sup>th</sup> year. Do you think is it fine? Can I use another period of rotation? Maybe less years, like a 4 years period?

I found a paper that advises against the second rotation of the trees.

Alipio AS & D de F Borgatto (1987): Parâmetros operacionais e financeiros na reforma de eucaliptos. In: Seminário Sobre Aspectos Técnicos e Econômicos da Reforma de Povoamentos de Eucaliptos. Belo Horizonte, 1987, Anais Viçosa, SIF, 94-103.

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## **Outros Comentários: / Other Comments:**

**Por:/ By: Celso Foelkel**

Buenas tardes Jesús, en relación a sus preguntas, sugiero leer mi artículo en Portugués sobre plantaciones adensadas y para cosecha temprana (el que no me gusta por su bajo nivel de ecoeficiencia y de resultados forestales:

[http://www.eucalyptus.com.br/newspt\\_fev11.html#quatorze](http://www.eucalyptus.com.br/newspt_fev11.html#quatorze)

Saludos

Celso