



Erosão no contexto da agricultura brasileira

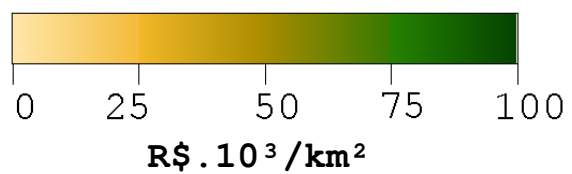
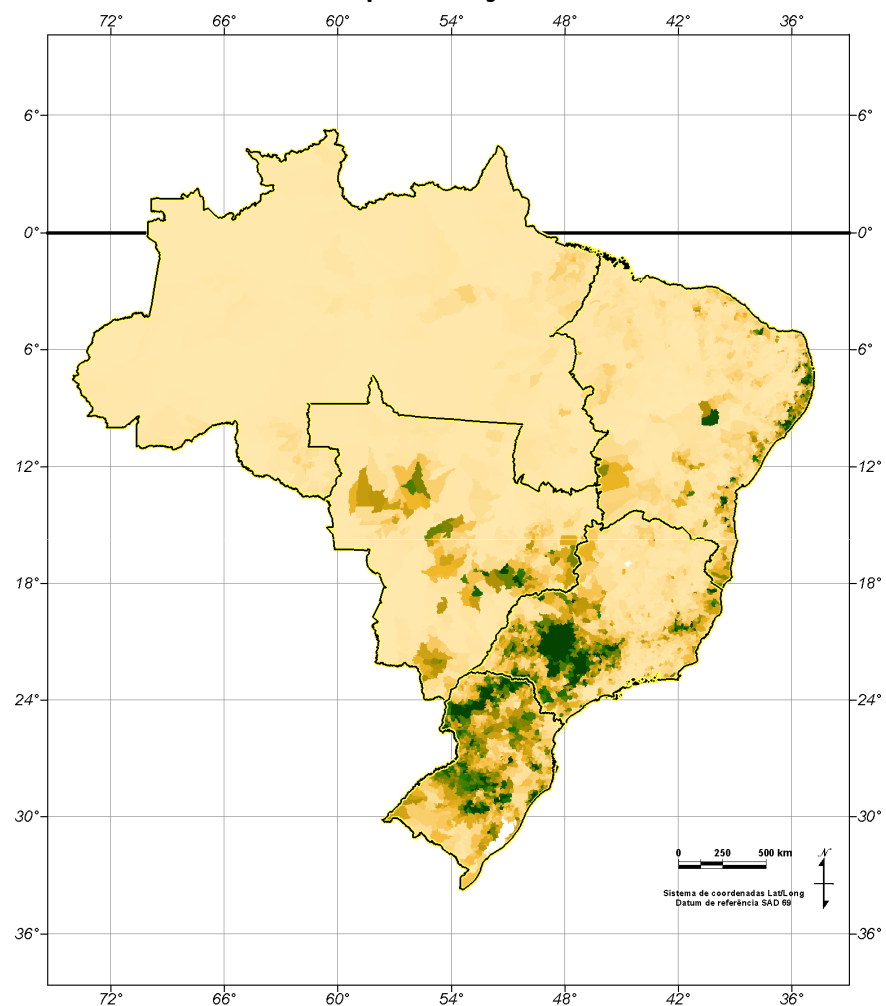
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Erosão no contexto da Agricultura Brasileira

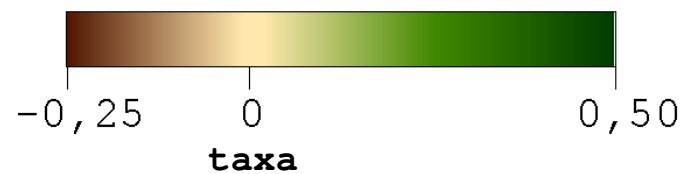
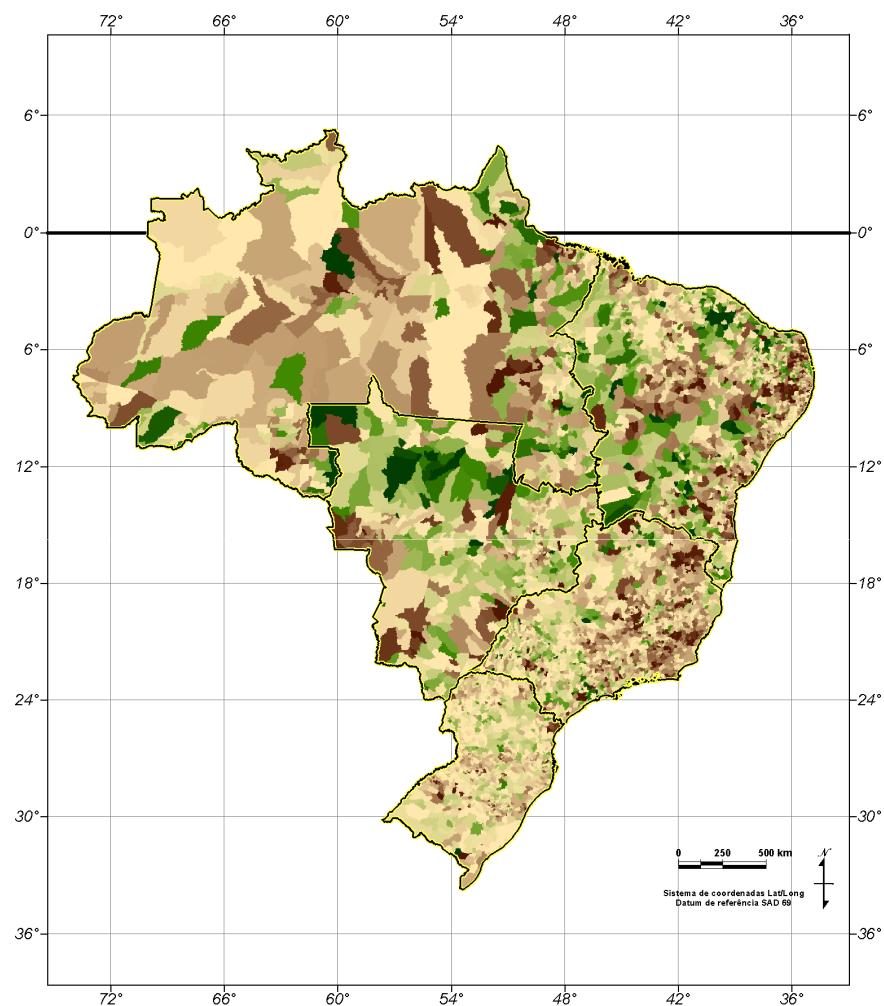
Land Use	Area ha 10 ⁶	Proportion of:	
		Agricultural land %	Territory
Cultivated pasture	99.7	43.0	11.6
Rangeland (natural pasture)	78.0	33.7	9.1
Soybeans	16.4	7.1	1.9
Corn	12.3	5.3	1.4
Sugarcane	5.2	2.2	0.6
Beans (<i>Phaseolus sp.</i>)	4.3	1.9	0.5
Rice	3.2	1.4	0.4
Coffee	2.4	1.0	0.3
Wheat	2.2	0.9	0.3
Cassava	1.7	0.8	0.2
Orange tree	0.8	0.4	0.1
Cotton	0.8	0.3	0.1
Other agricultural land use	4.7	2.0	0.5
Total	231.7	100.0	26.9

Culturas temporárias e permanentes

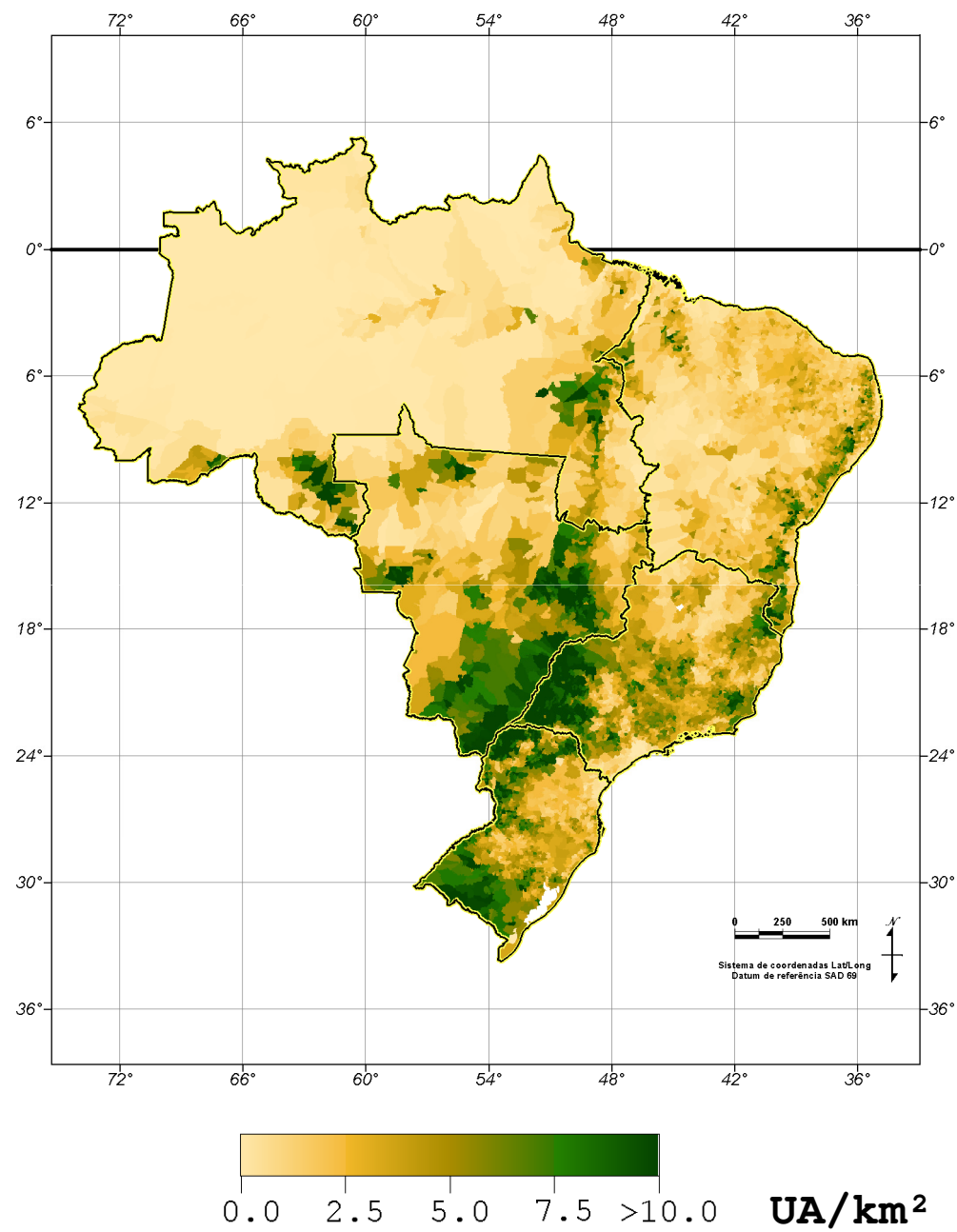
Valor da produção



Crescimento do Valor da Produção



Densidade de exploração pecuária













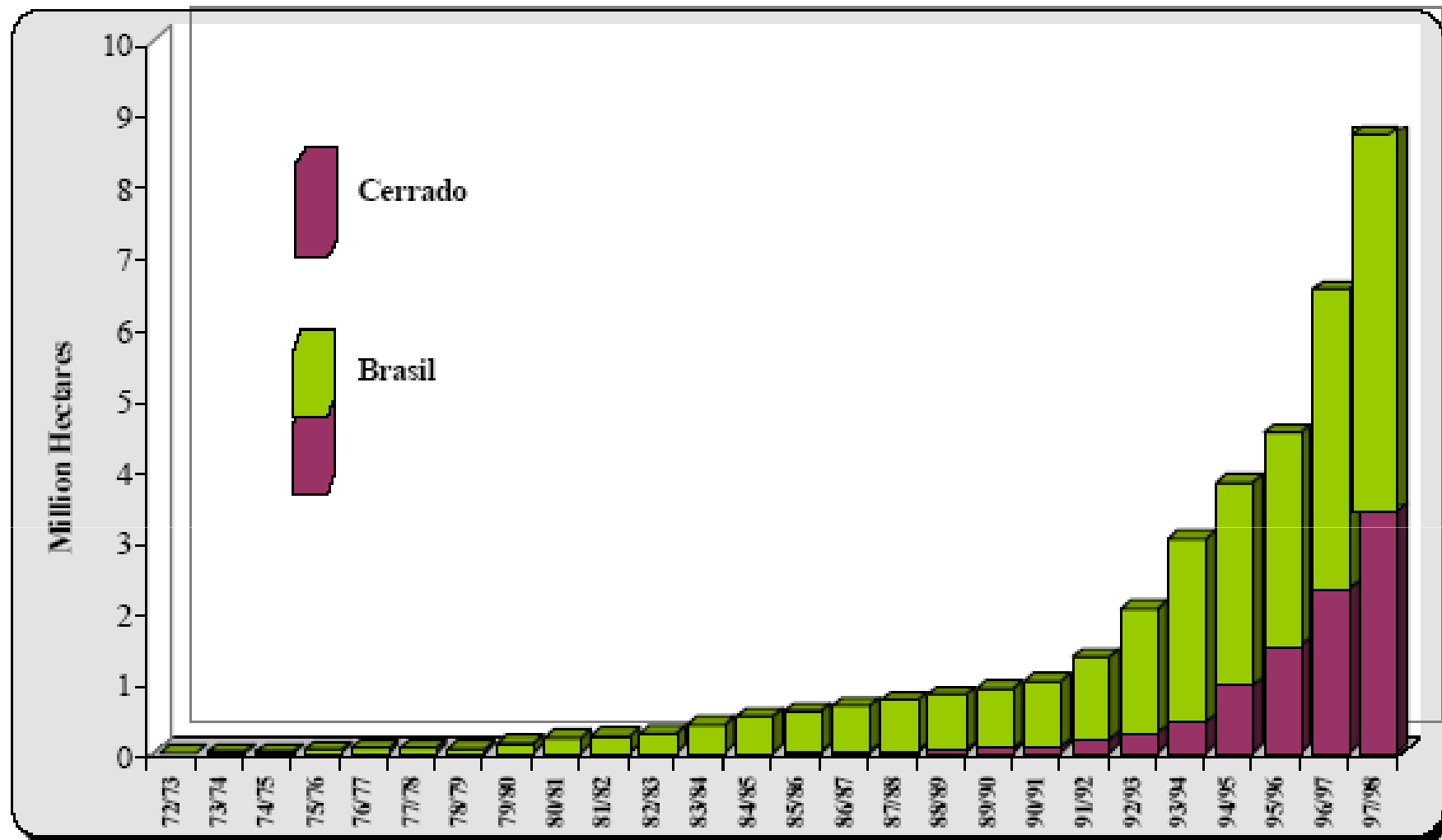
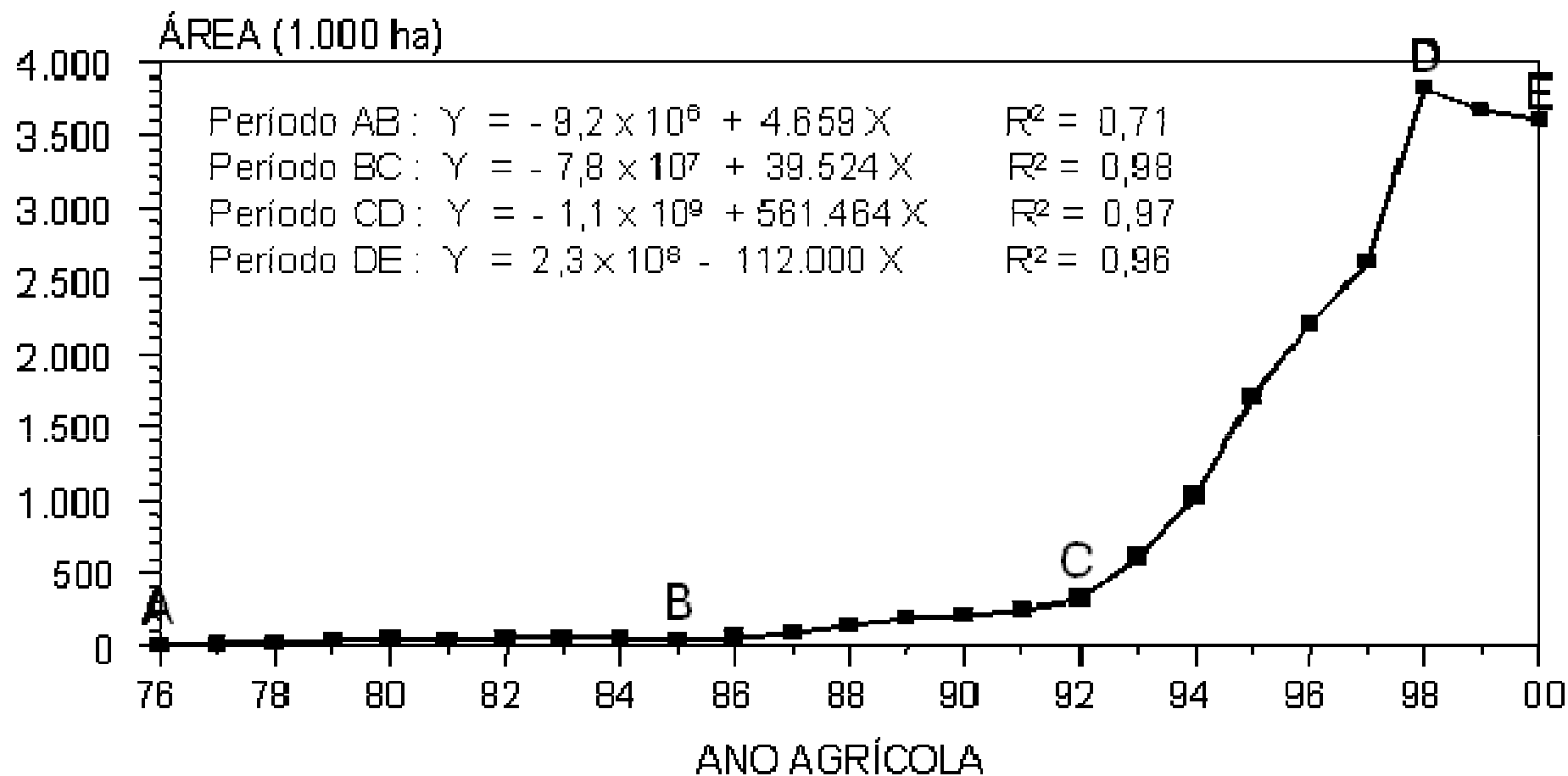


Figure 1. Expansion of the zero tillage area in Brazil and in the “Cerrado” region (tropical wet/dry savannahs) Sources: Brazil - FEBRAPDP and Cerrado - APDC

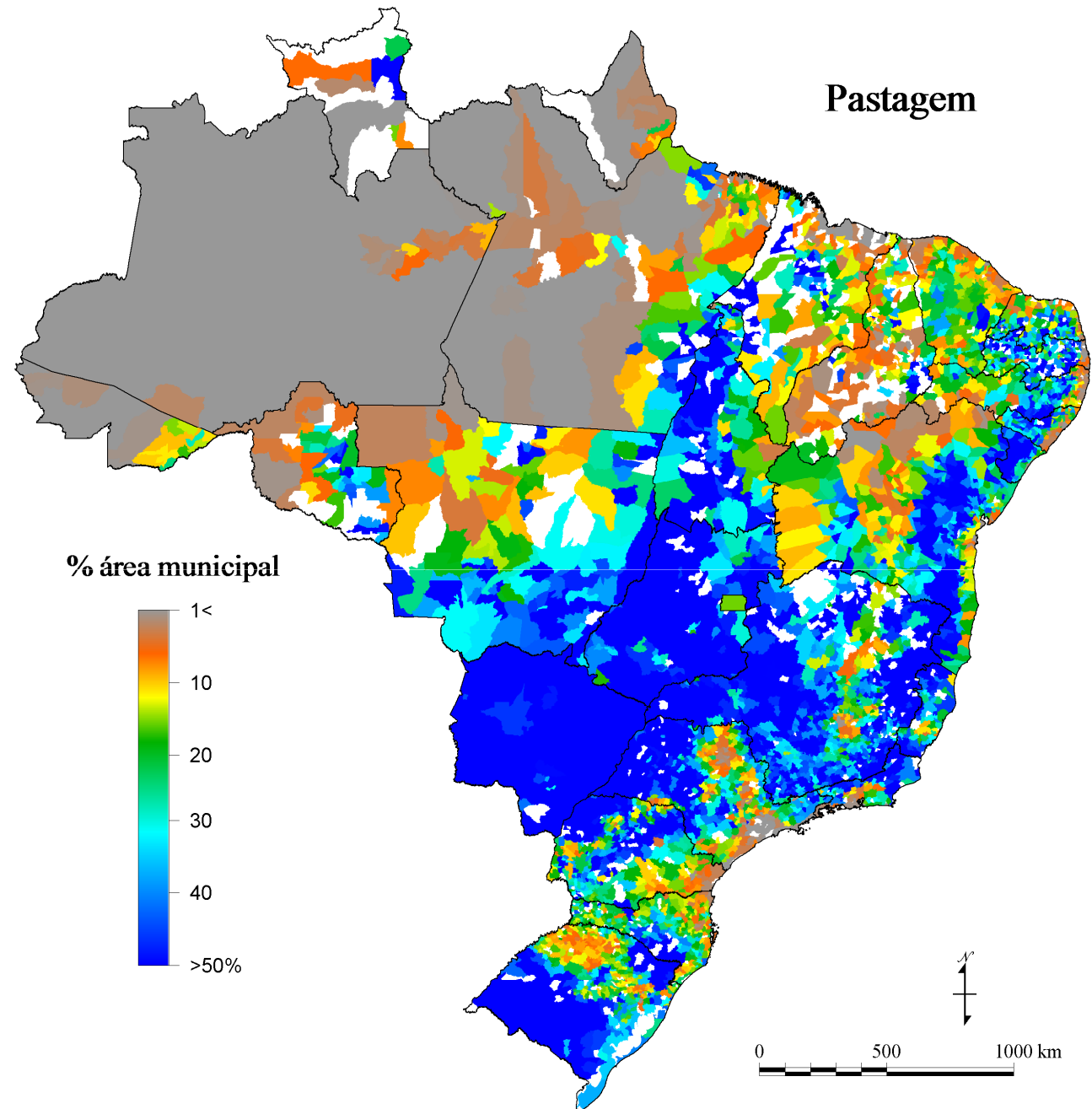
Evolução do PD no RS (Denardin et al., 2004)





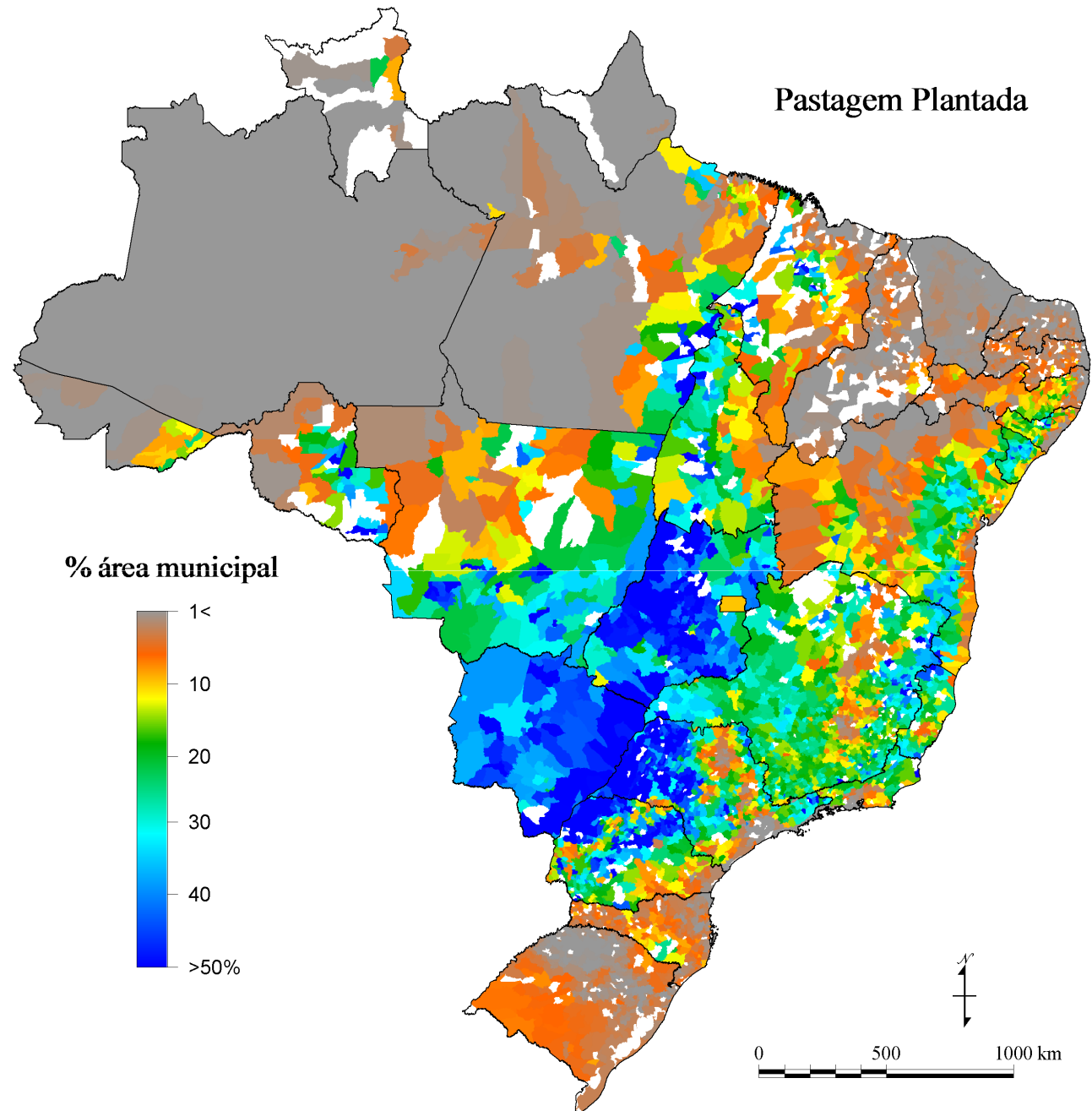
Pastagens (Censo 95/96)

177 milhões de ha!

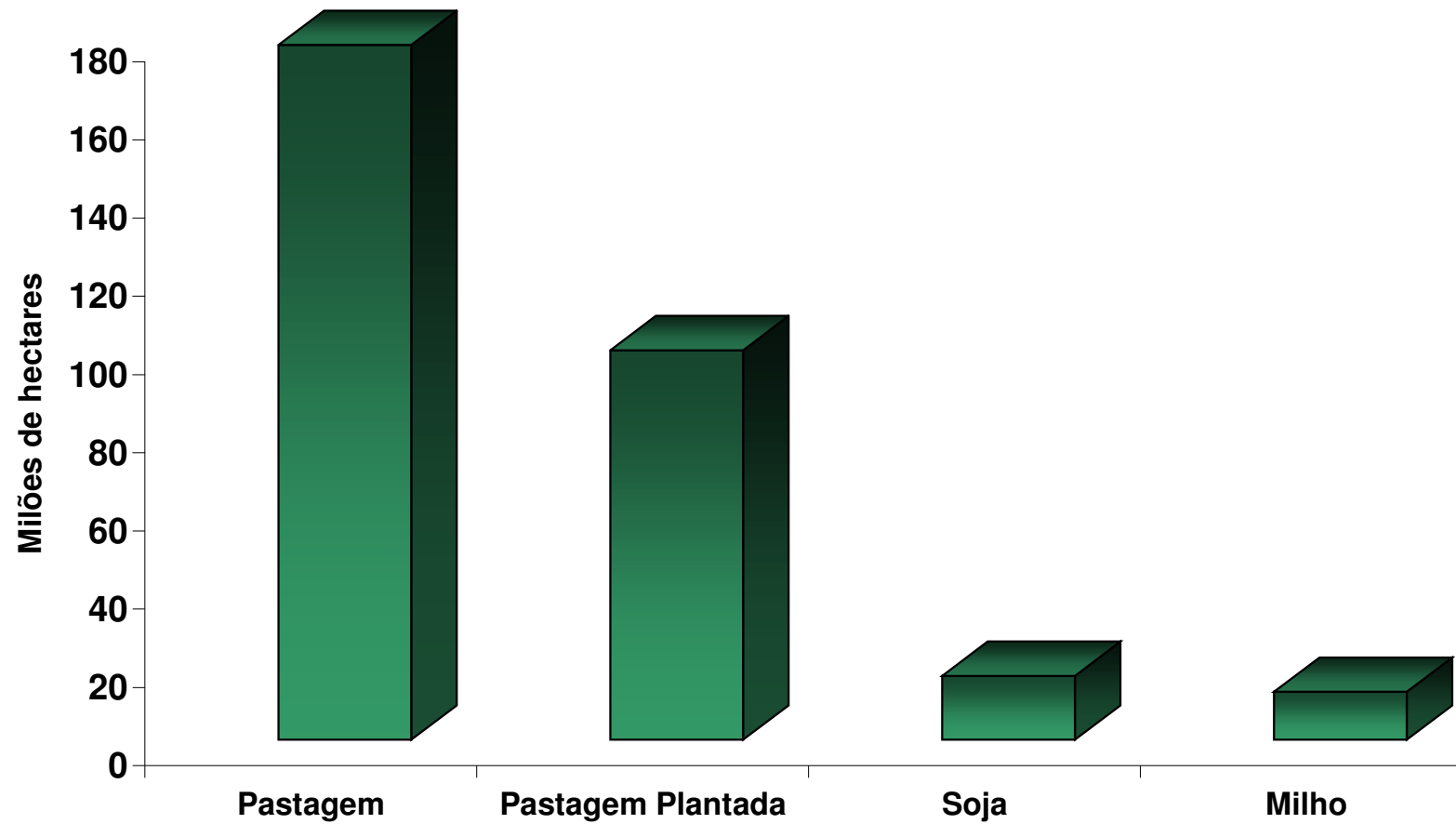


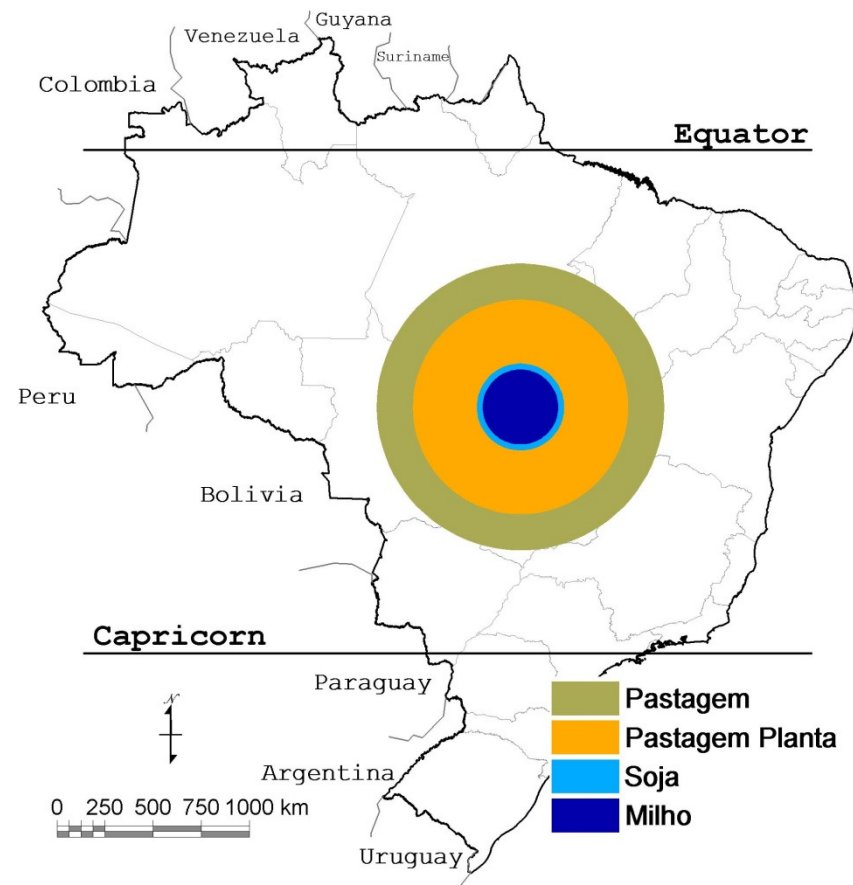
Pastagens Plantadas (Censo 95/96)

100 milhões de ha!

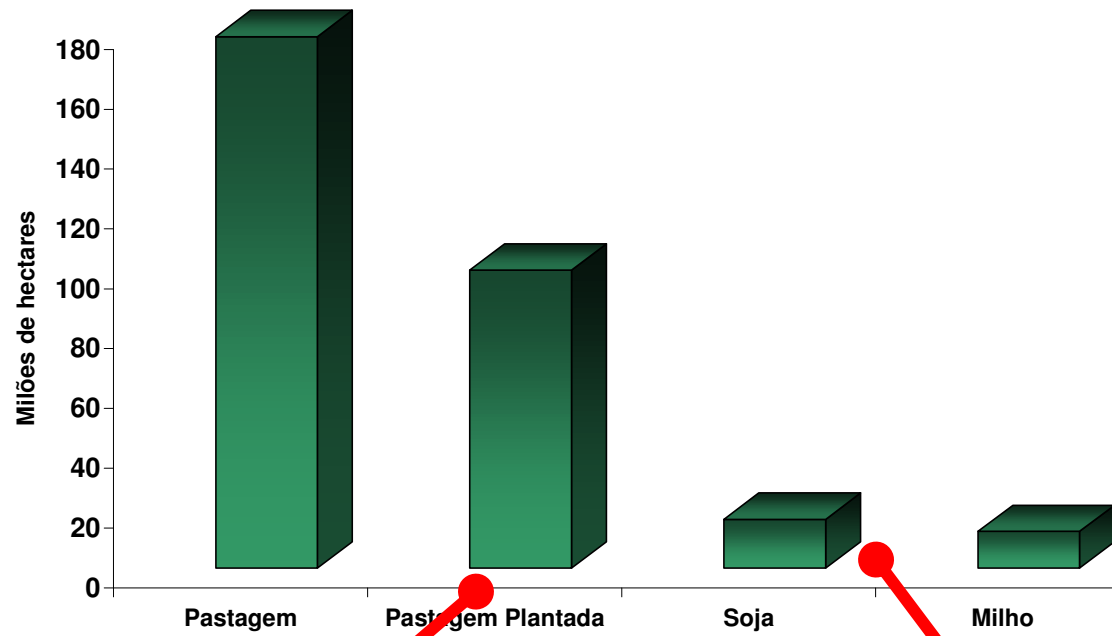


Uso da terra no Brasil (pasto 95/96, culturas 02)





Uso da terra no Brasil (pasto 95/96, culturas 02)

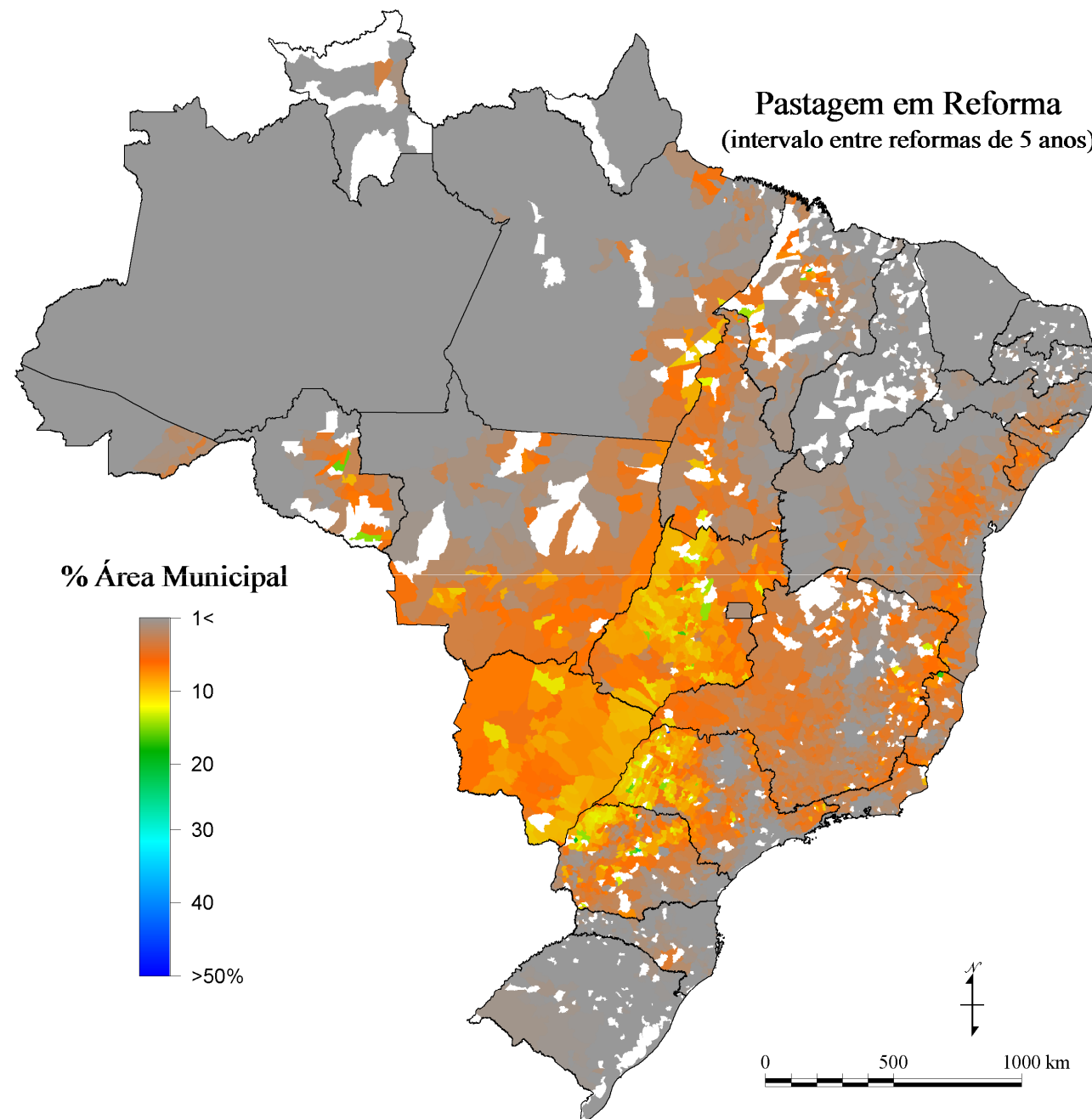


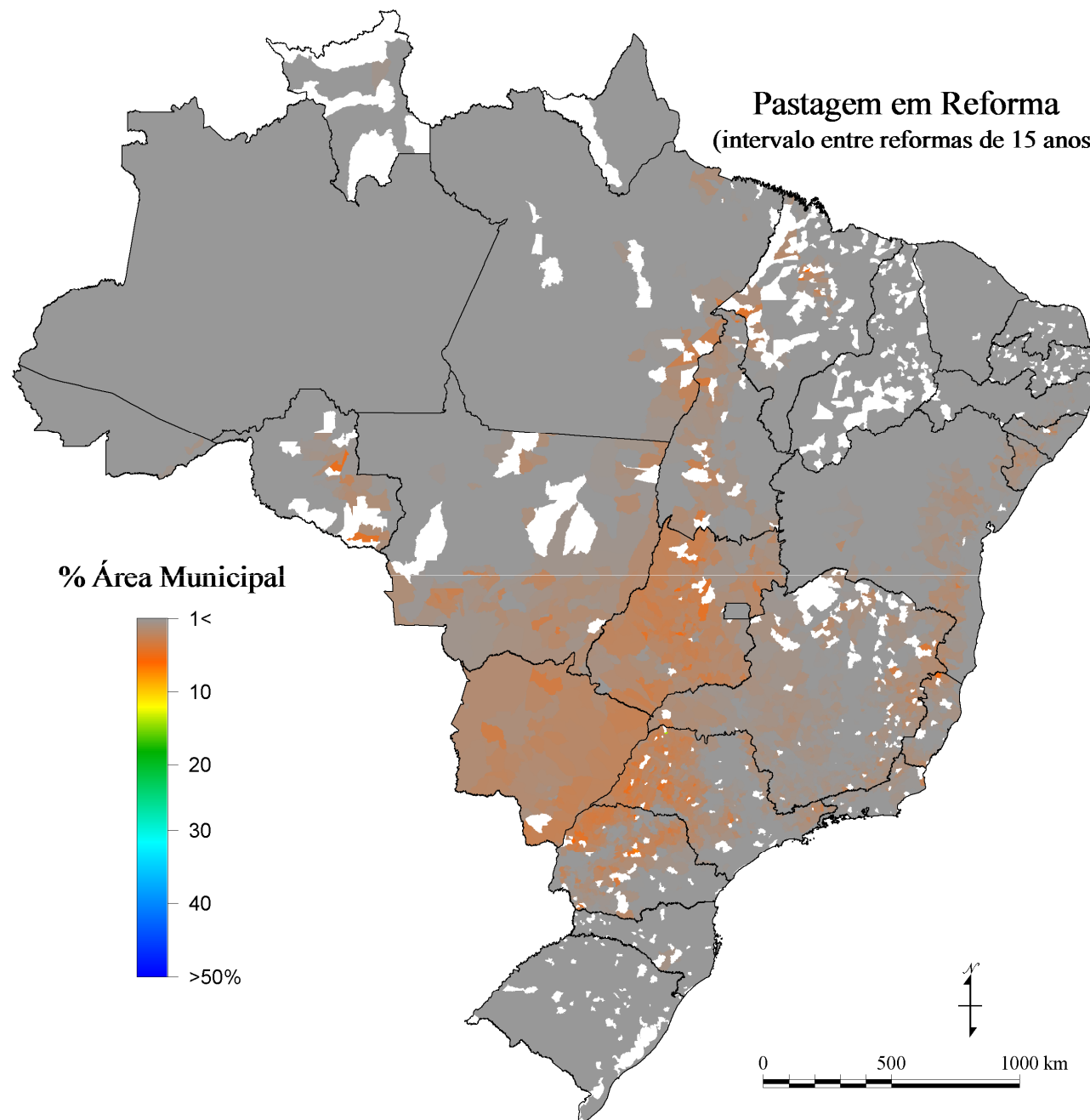
Renovação ou plantio de pasto

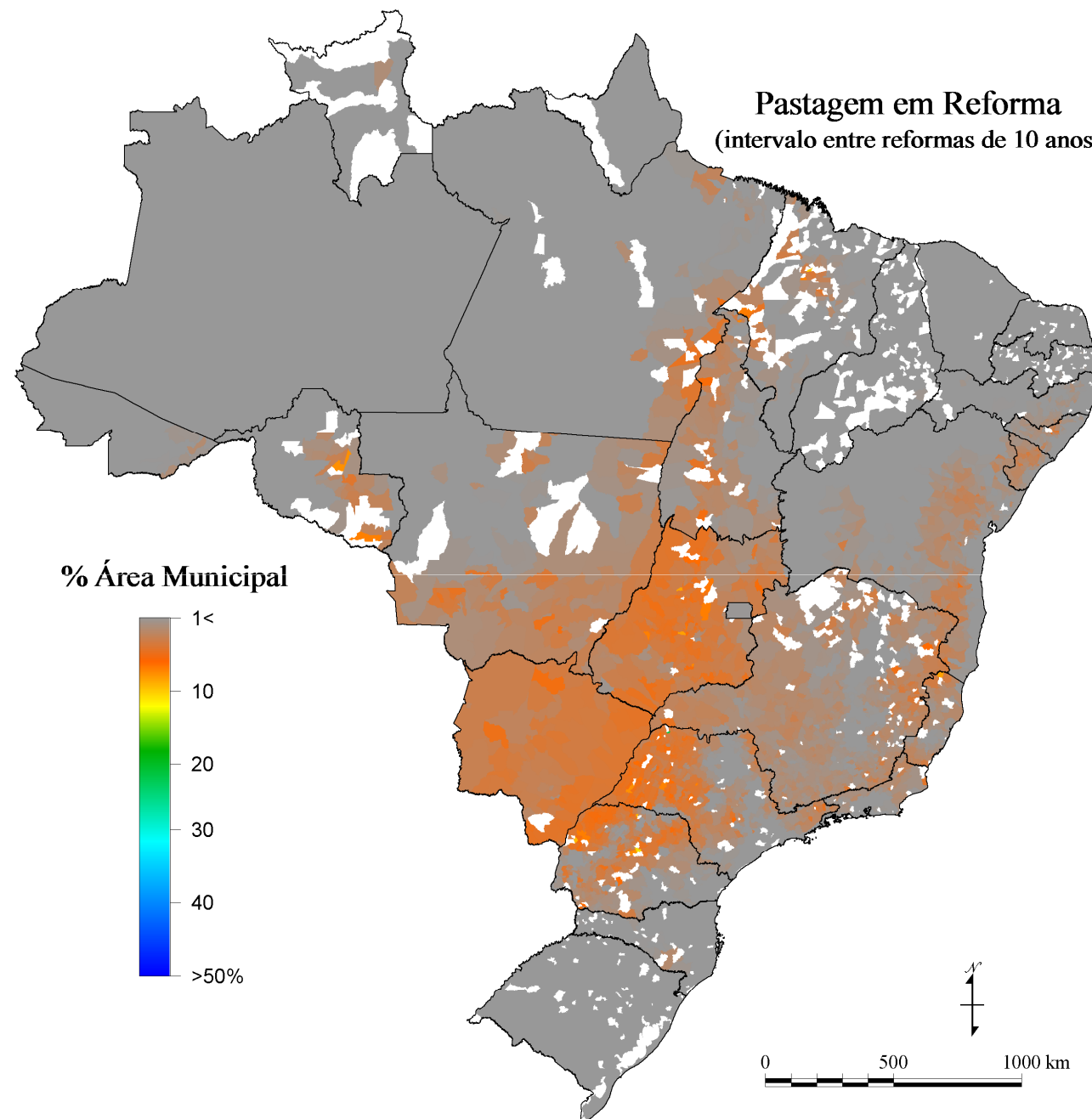


Canteiro coletor (valor padrão)

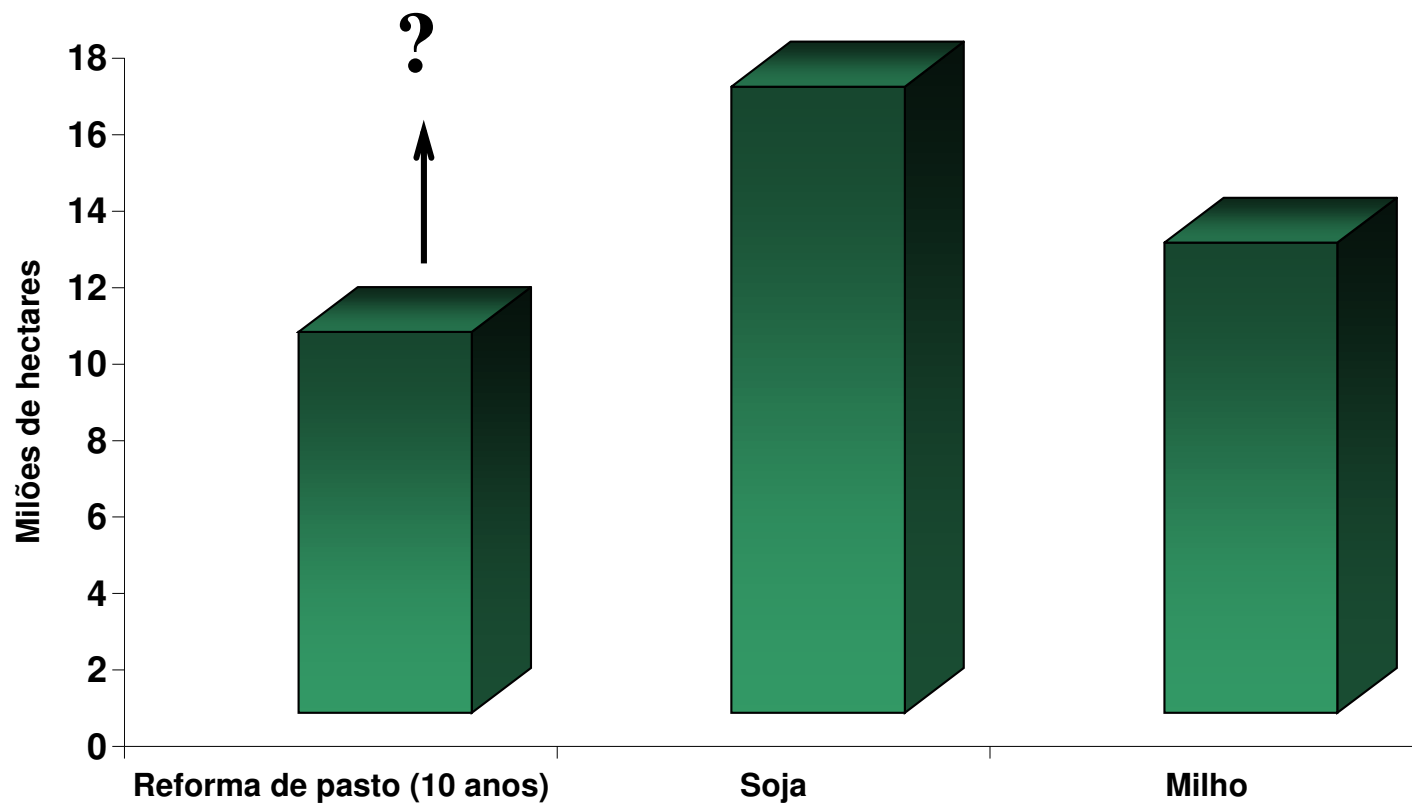


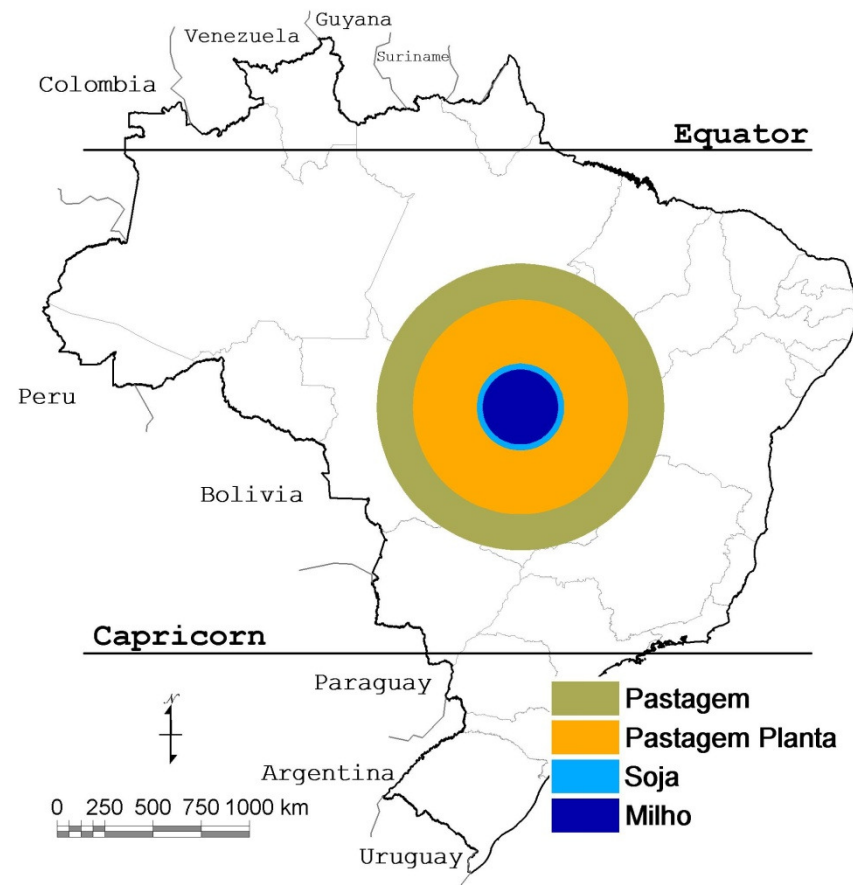


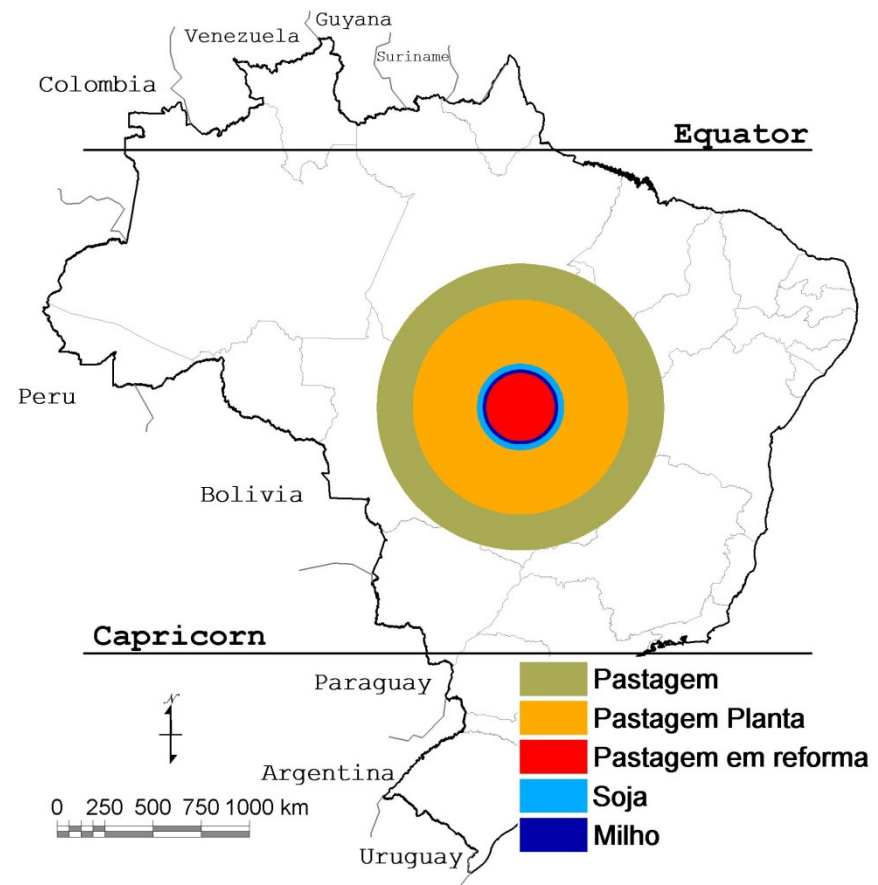


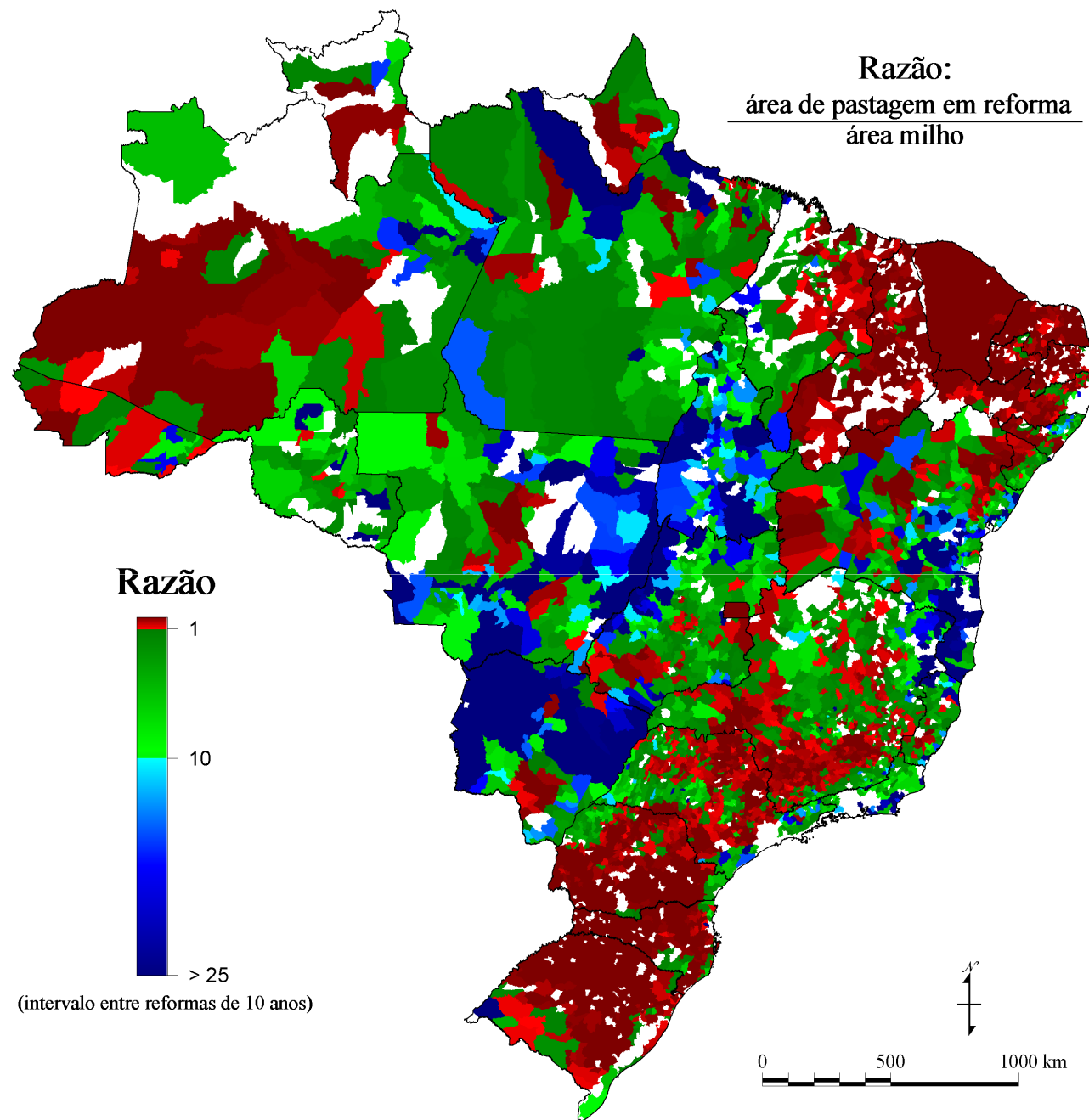


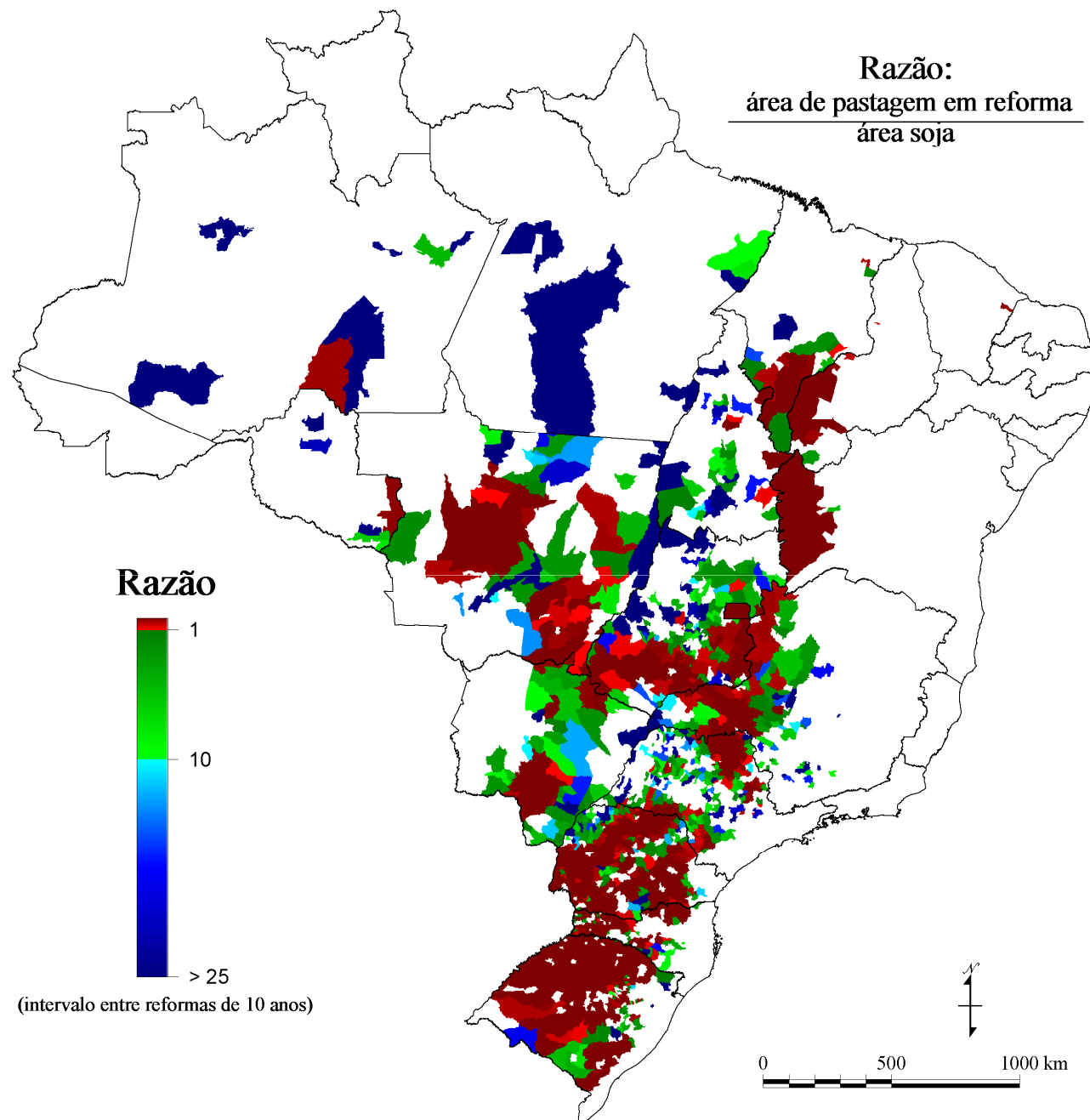
Uso da terra no Brasil (pasto em reforma 95/96, culturas 02)

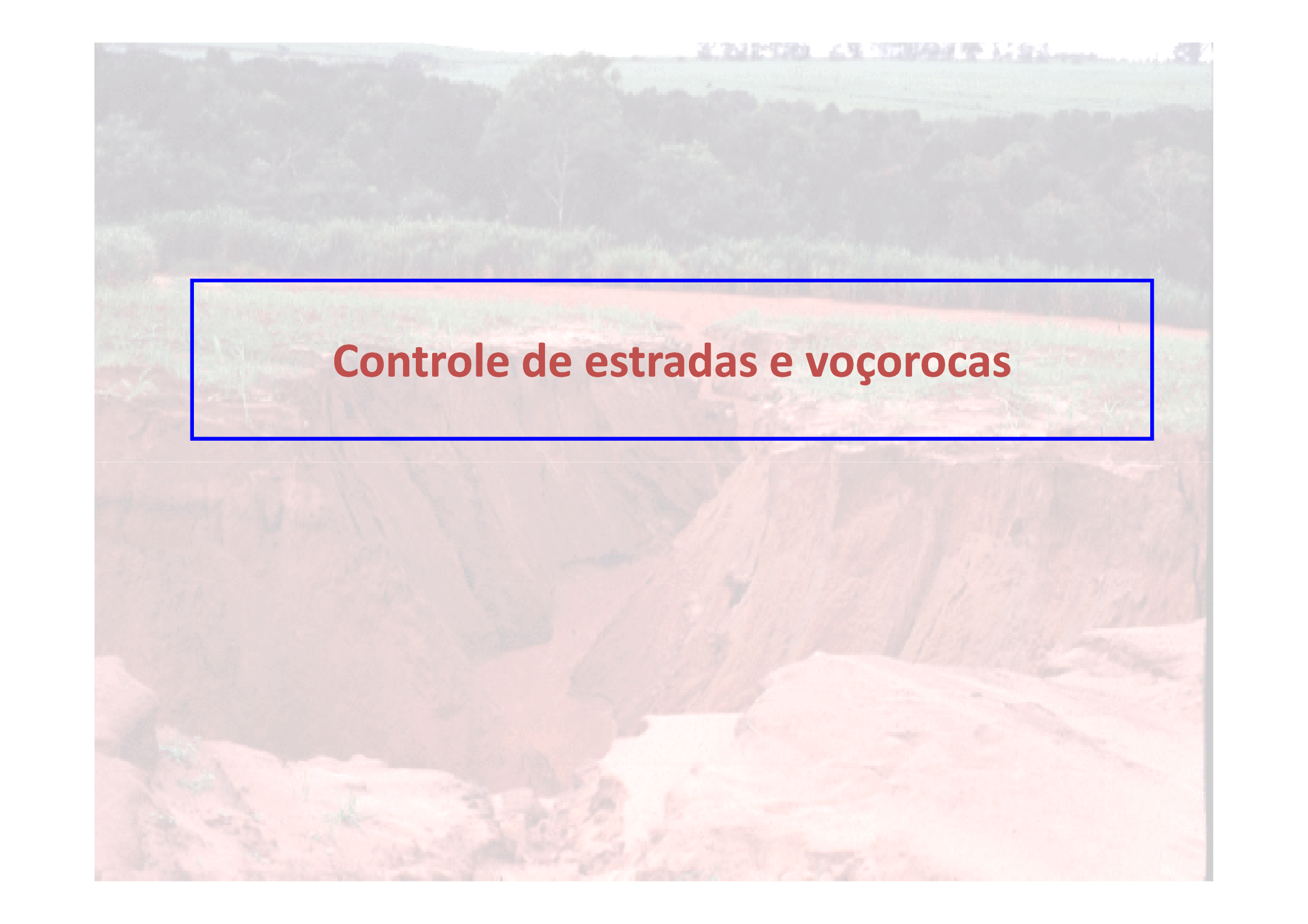










The background image shows a landscape with a road cut. A large, deep erosion gully has formed in the red soil, with steep, exposed walls. The top of the road cut is covered with sparse green vegetation. In the distance, there is a line of trees and a clear sky.

Controle de estradas e voçorocas









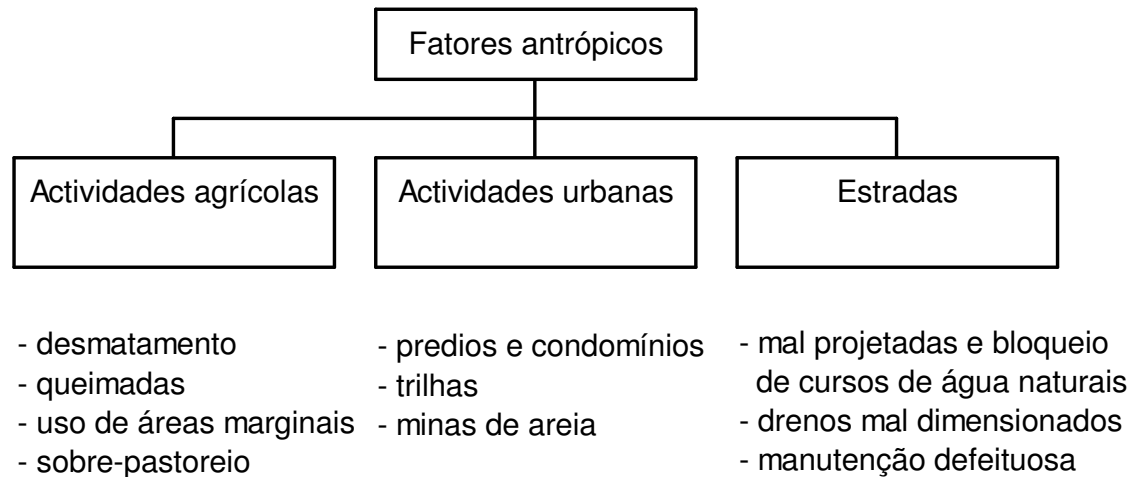








Controle de voçorocas



Avaliação da situação atual:

- fonte e quantidade de enxurrada
- cabeças da voçoroca
- propriedades dos solos
- Microbacia hidrográfica e declividade do canal da voçoroca
- padrão de drenagem
- vegetação
- características da chuva
- uso da terra atual
- capacidade de uso da terra

Identificar as necessidades de conservação para as diferentes unidades de relevo

Proteger as cabeceiras das voçorocas com cercas ou cercas vivas

Desviar a água da enxurrada para fora da voçoroca

Mudar o uso da terra na microbacia que alimenta a voçoroca

- uso de coberturas vegetativas
- reflorestamento

Instalar estruturas de engenharia

- paliçadas de madeira ou pedra
- diques
- gabiões
- pneus

Voçoroca de Avaré (SP)





















2006







1996

2006











1996



2006

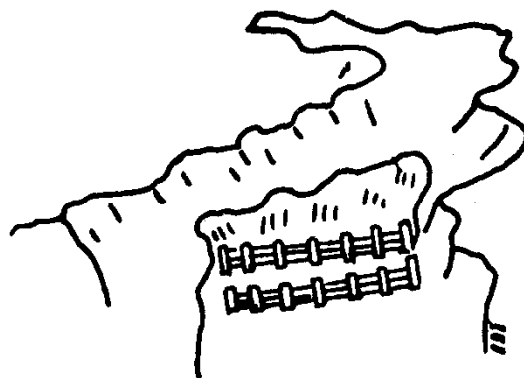




(A) BARRAGEM DE PEDRA



(B) BARRAGEM DE TI



(C) BARRAGEM DE TOCOS DE ÁRVORES E DE FOLHAS DE PLANTAS LENHASAS

Figura 8.28. Barragens para controle de voçorocas.

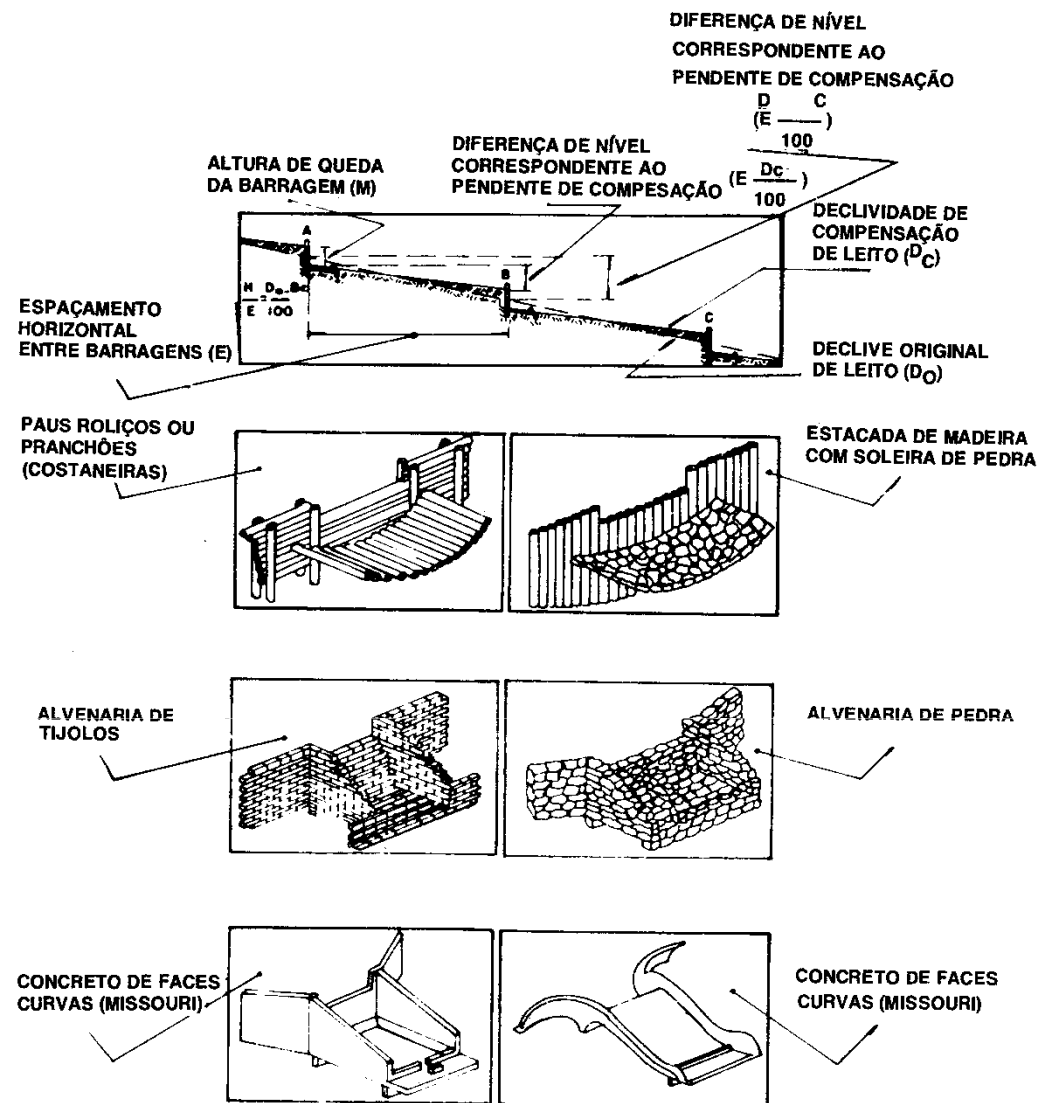


Figura 8.29. Estruturas para barragens de redução de declividade no leito vegetado de canais escoadouros (desenho de J.Q.A. Marques)



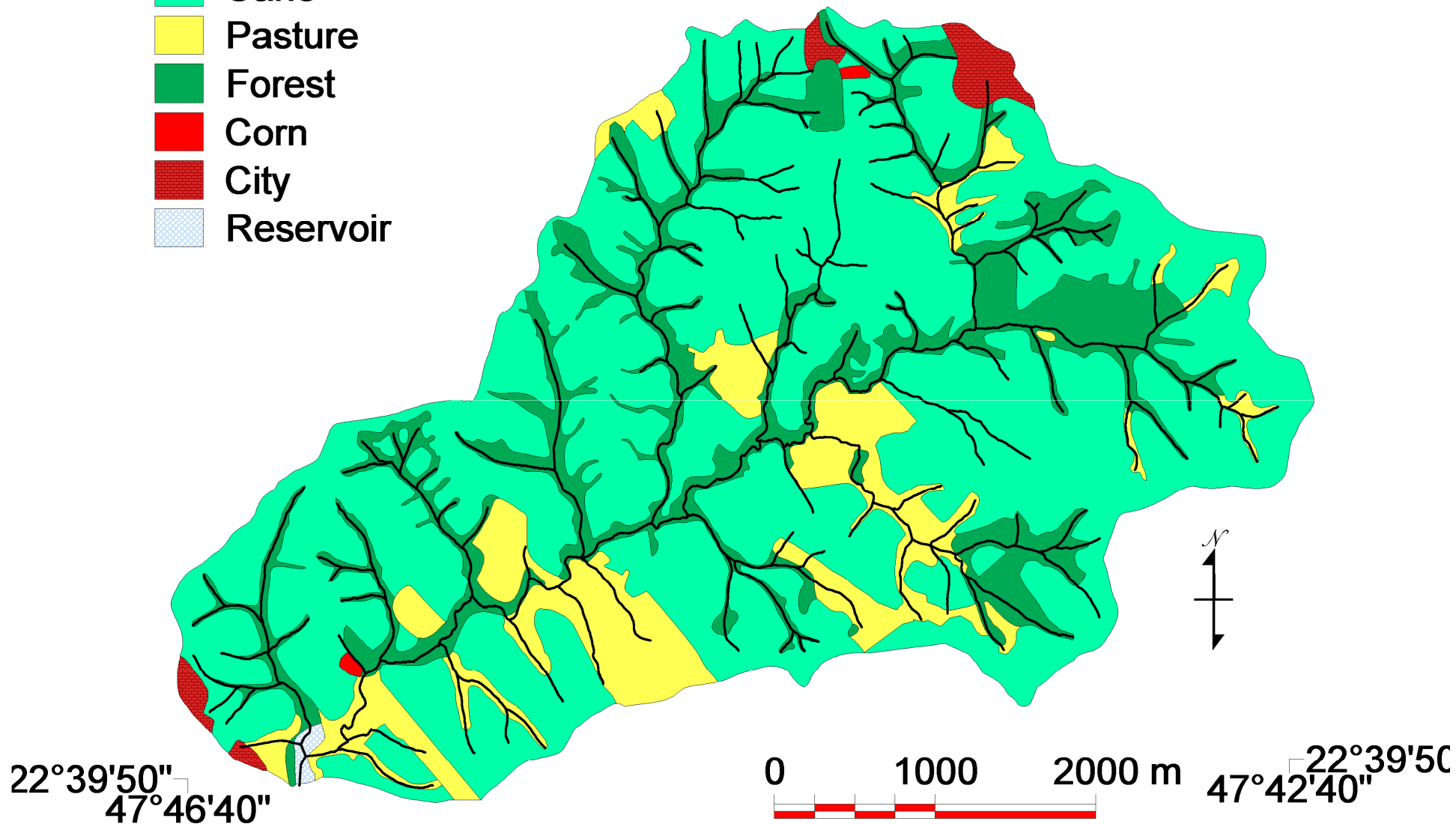


Planejamento Conservacionista

47°46'40"
22°37'1"

47°42'40"
22°37'1"

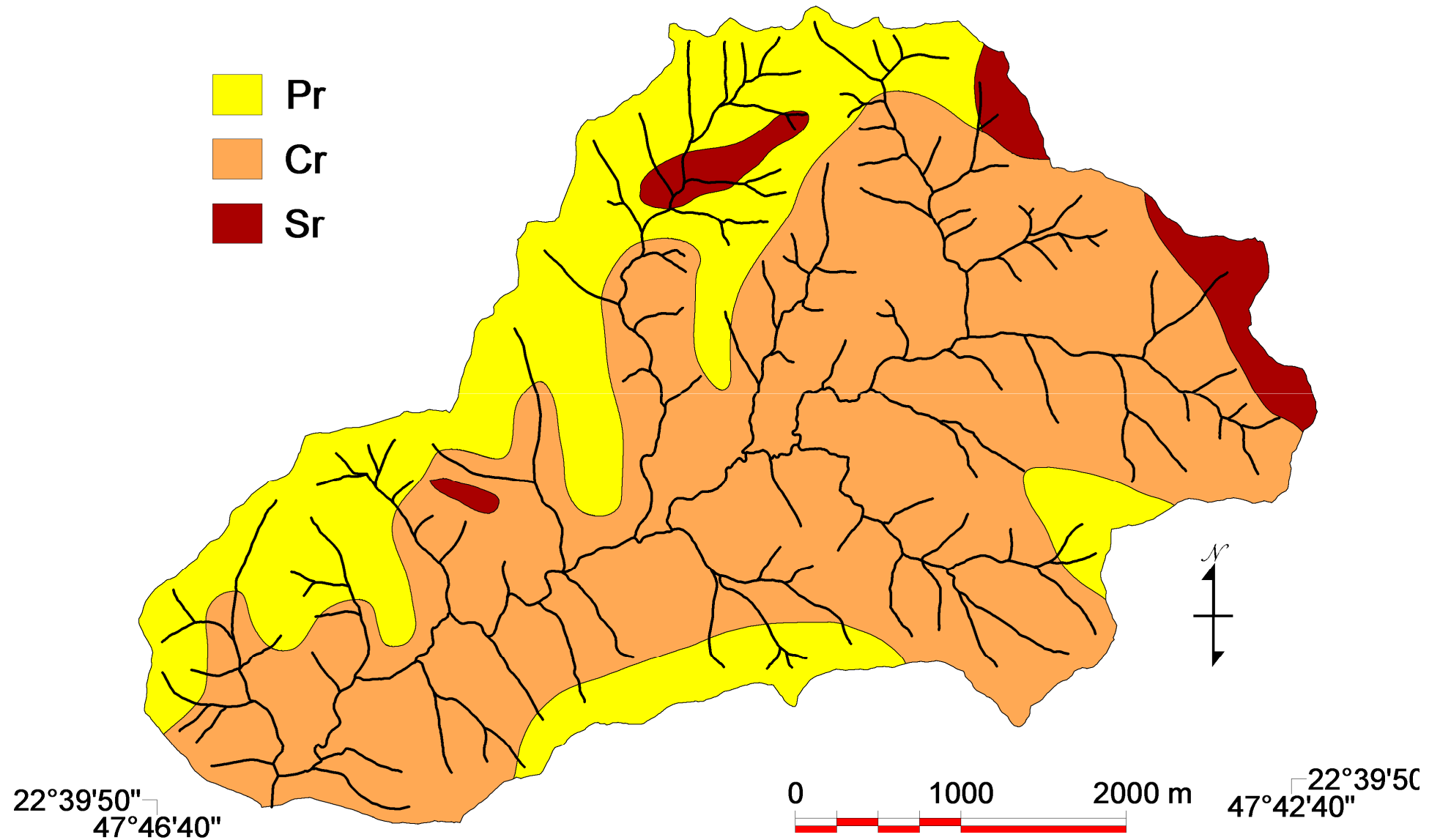
- Cane
- Pasture
- Forest
- Corn
- City
- Reservoir



47°46'40"
22°37'1"

47°42'40"
22°37'1"

Pr
Cr
Sr



47°46'40"
22°37'1"

47°42'40"
22°37'1"

