

# **AGRICULTURA DE PRECISÃO**

Grãos

**Conhecimentos  
Gerais**

**Engenharia  
&  
Criatividade**

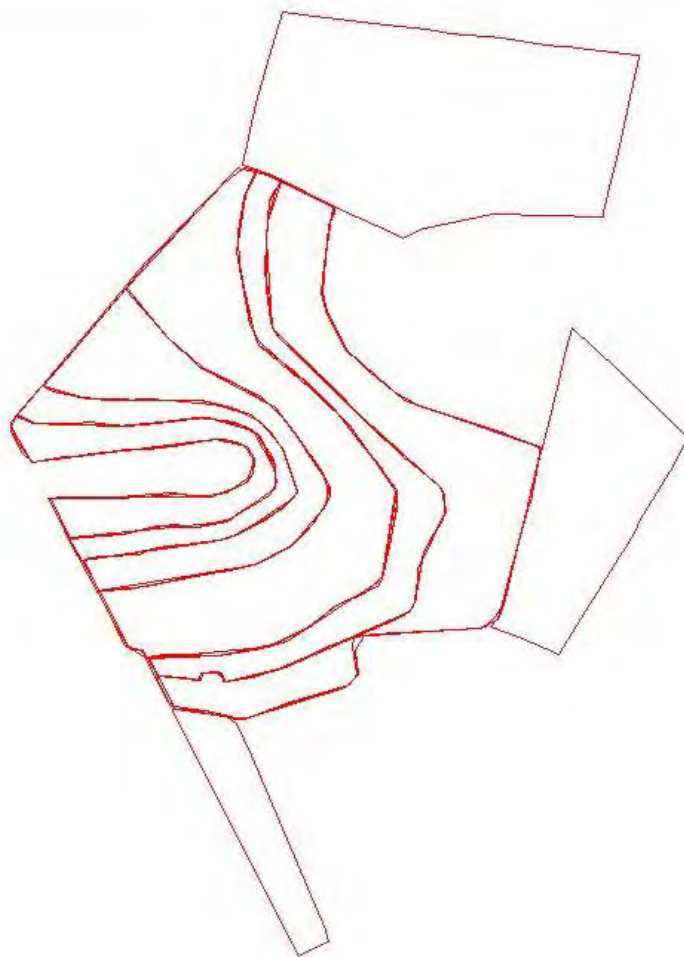
**SIG**

**Visão  
Espacializada**

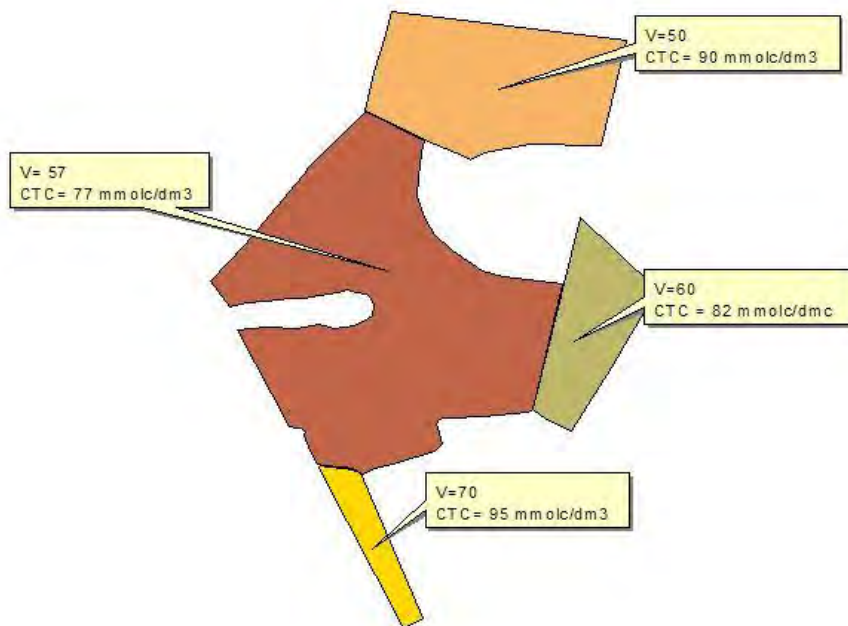
**Conhecimentos  
Específicos**

# **VISÃO DA FORMA TRADICIONAL**





1; 03



1:15000



### Field Boundary

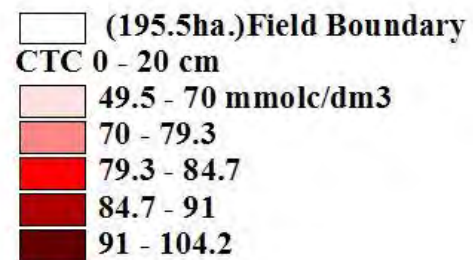
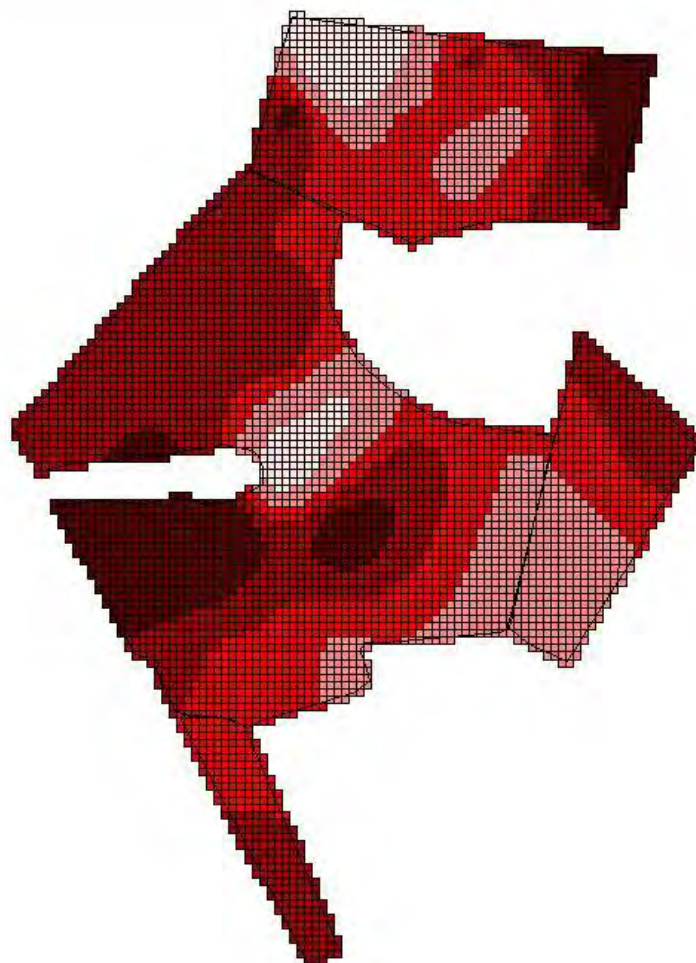
	<b>1</b>	<b>(115.9 ha.)</b>
	<b>2</b>	<b>(8.7 ha.)</b>
	<b>3</b>	<b>(22.3 ha.)</b>
	<b>4</b>	<b>(48.6 ha.)</b>

1:23000

**VISÃO**

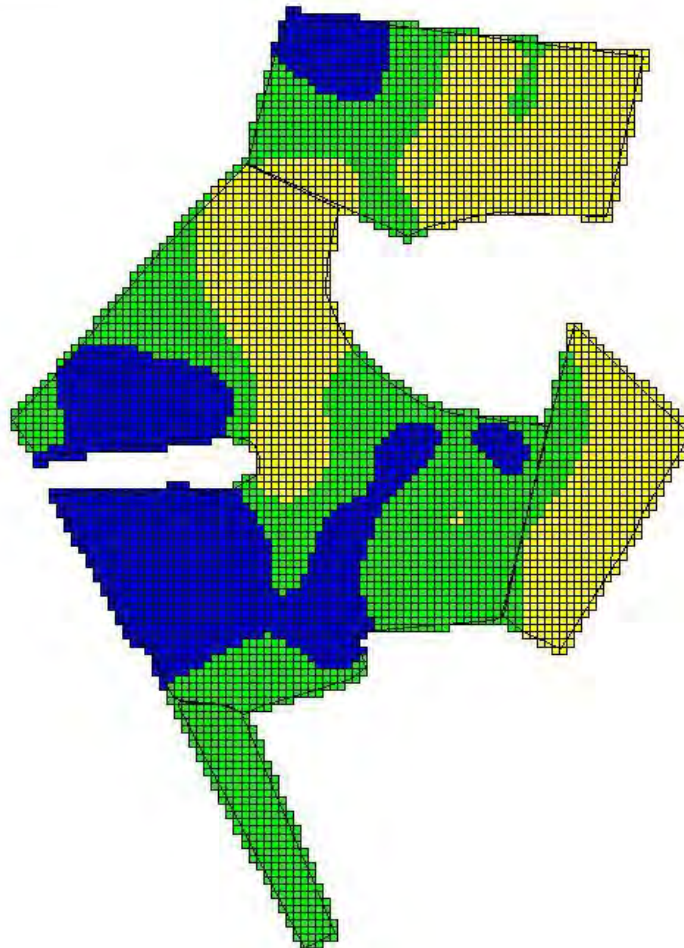
Agricultura de Precisão

1; 03



1:15000

1; 03



(195.5ha.)Field Boundary

V 0 - 20 cm

15 - 25 %

25 - 50

50 - 60

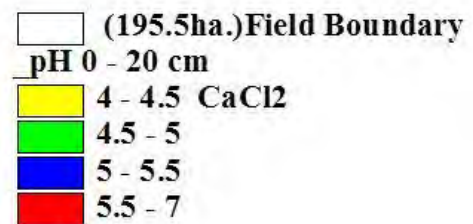
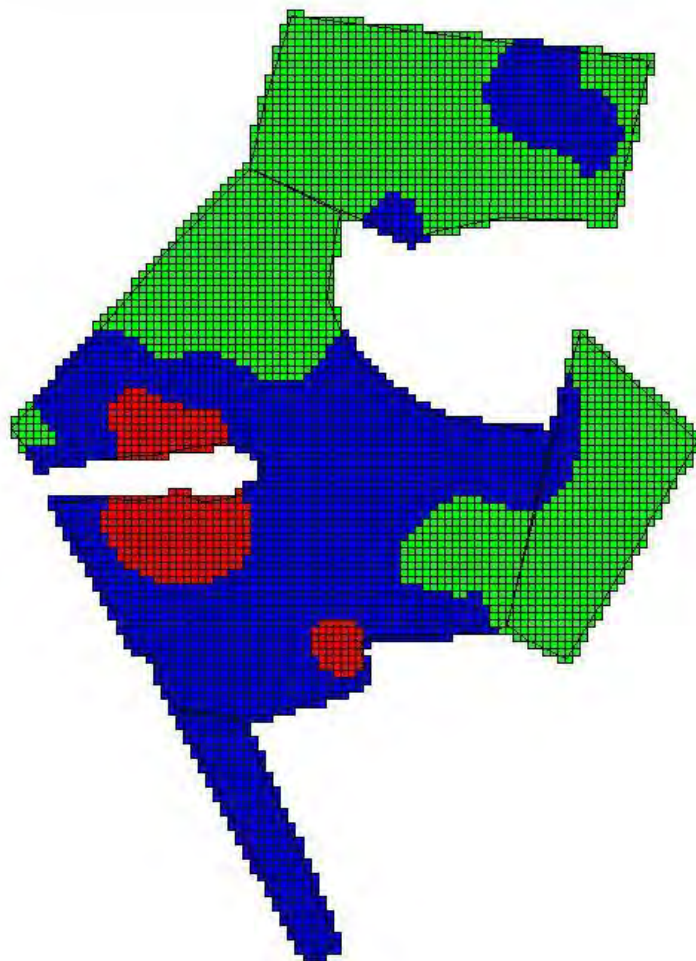
60 - 75

1:15000

**AP**   
**AGRI**  
SOLUÇÕES EM AGRICULTURA DE PRECISÃO



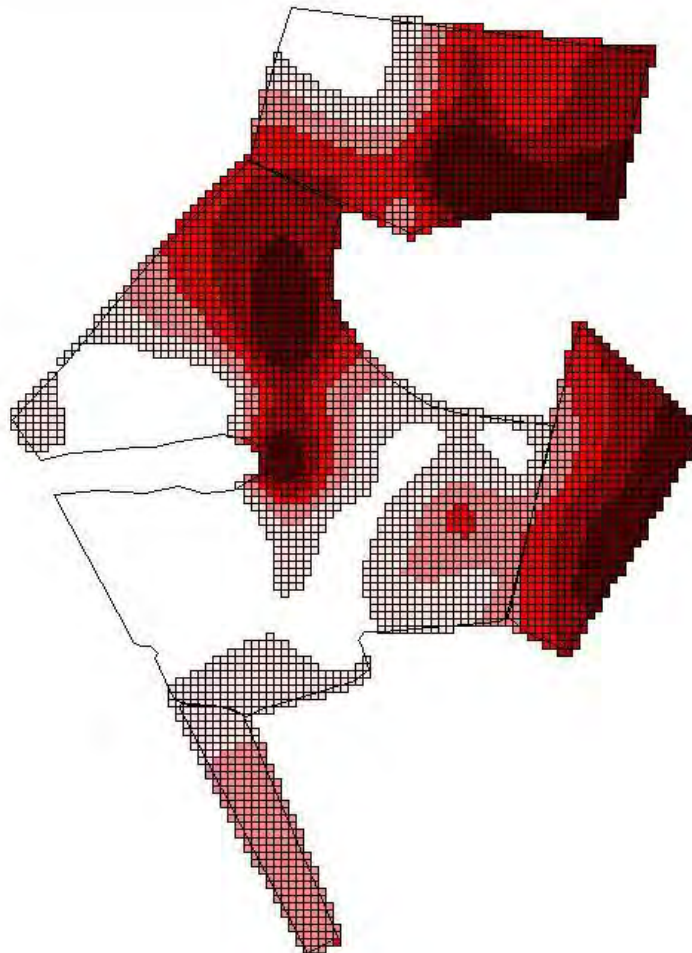
1; 03



1:15000

**AP**   
**AGRI**  
SOLUÇÕES EM AGRICULTURA DE PRECISÃO

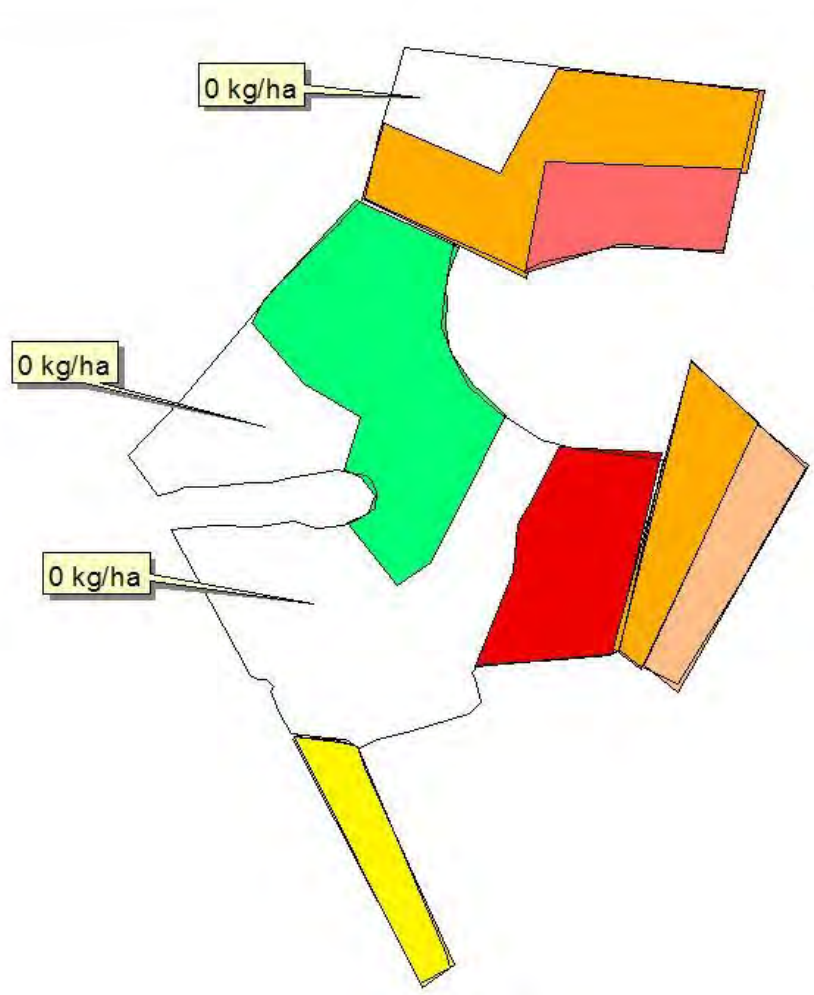
1; 03










□ (195.5ha.) Field Boundary  
Recommendation - Calcario generico  
□ 50 - 394.4  
□ 394.4 - 809.9  
□ 809.9 - 1175.3  
□ 1175.3 - 1517.1  
□ 1517.1 - 2533.9

1:15000

**AP**   
**AGRI**  
SOLUÇÕES EM AGRICULTURA DE PRECISÃO

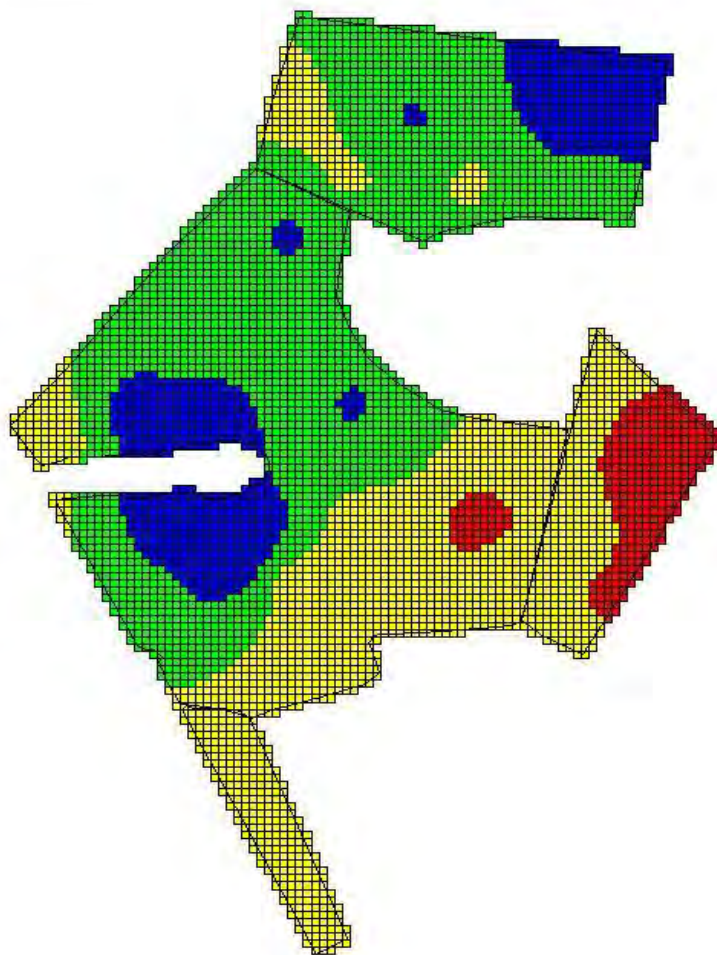


	(195.5ha.) Field Boundary
<b>Doses de Calcario Dolomítico</b>	
	400 (18.8 ha.)
	600 (7.1 ha.)
	1000 (39.3 ha.)
	1200 (29.6 ha.)
	1500 (10.7 ha.)
	1600 (12.9 ha.)

1:15000



1; 03



□ (195.5ha.)Field Boundary

K 0 - 20 cm

■ 0.2 - 0.5 mmol/dm<sup>3</sup>

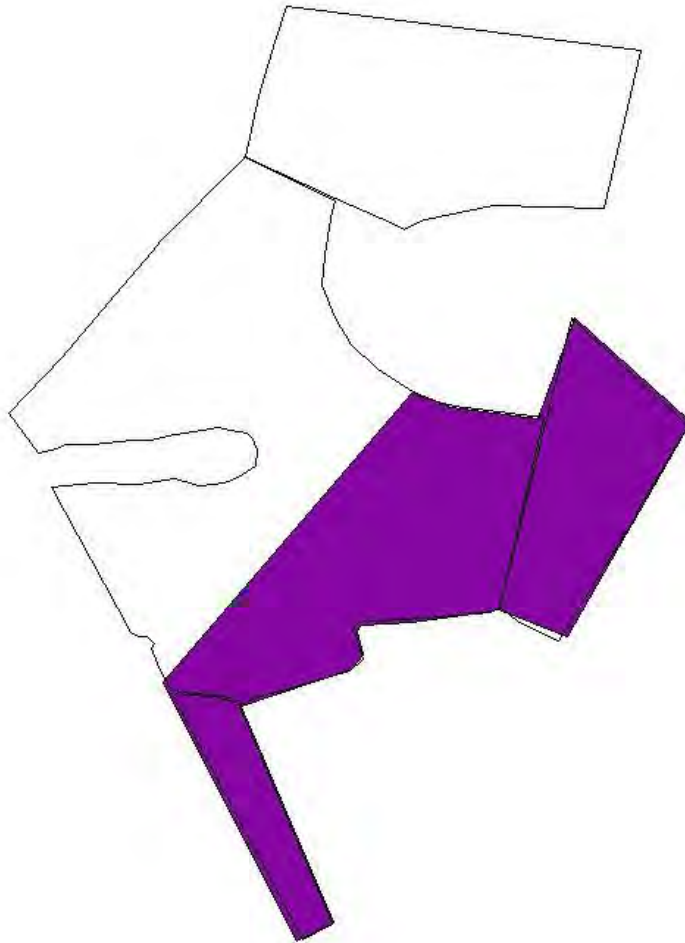
■ 0.5 - 0.9



■ 0.9 - 1.3

■ 1.3 - 2.7

1:15000

1; 03

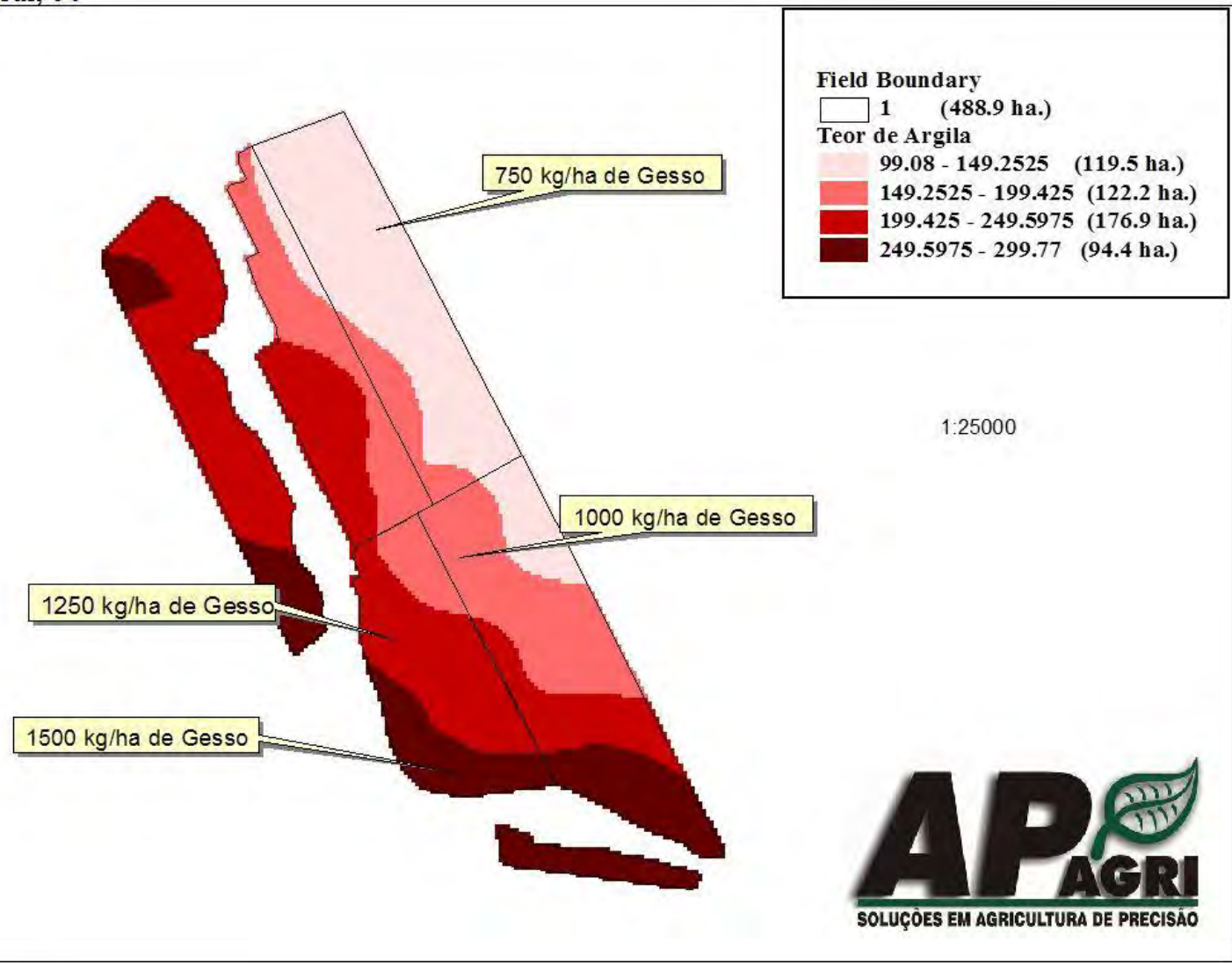


 (195.5ha.)Field Boundary  
 (76.0ha.)Zona de Aplicacao de kCl

1:15000

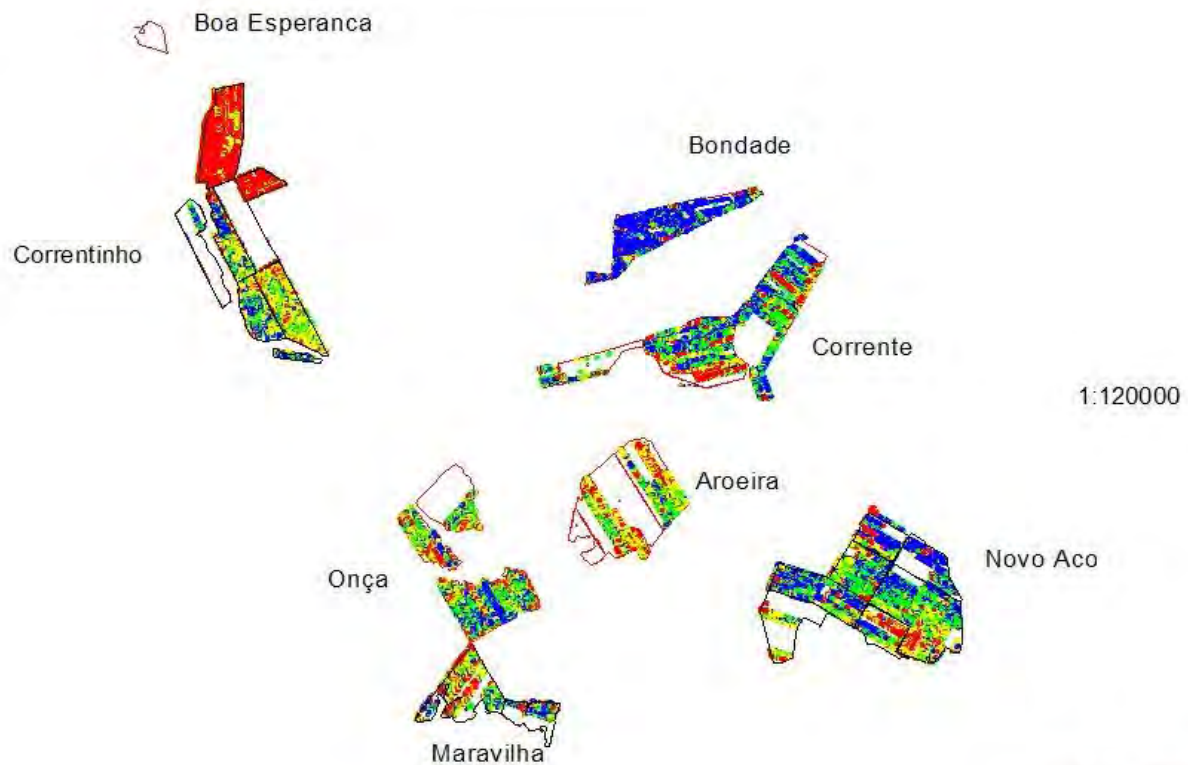
**AP**   
**AGRI**  
SOLUÇÕES EM AGRICULTURA DE PRECISÃO

Geral; 04



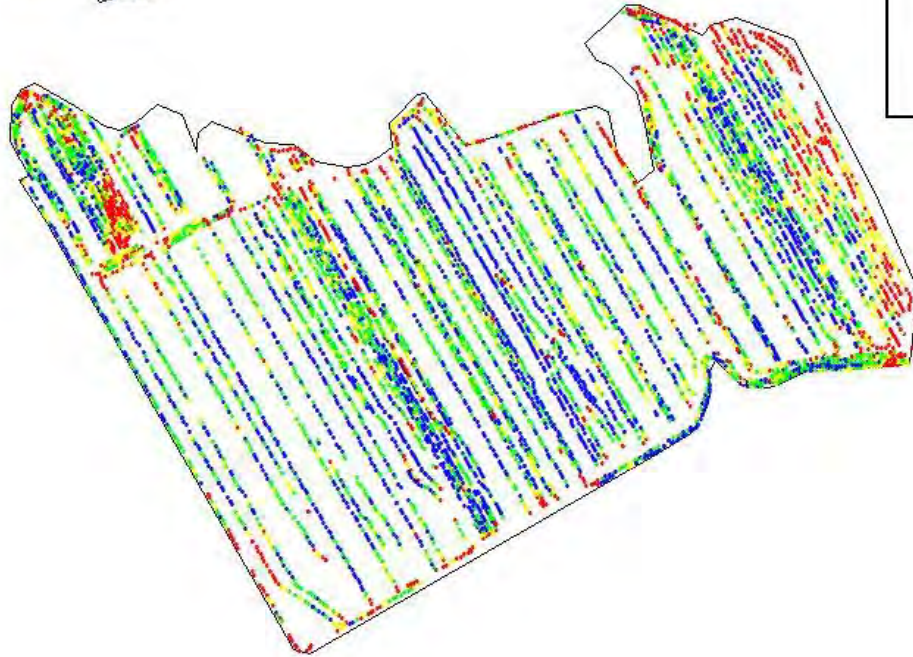
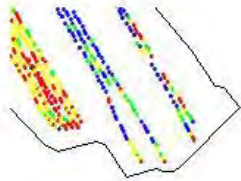
# MAPAS DE PRODUTIVIDADE

Geral; 04





Geral; 04



20040049

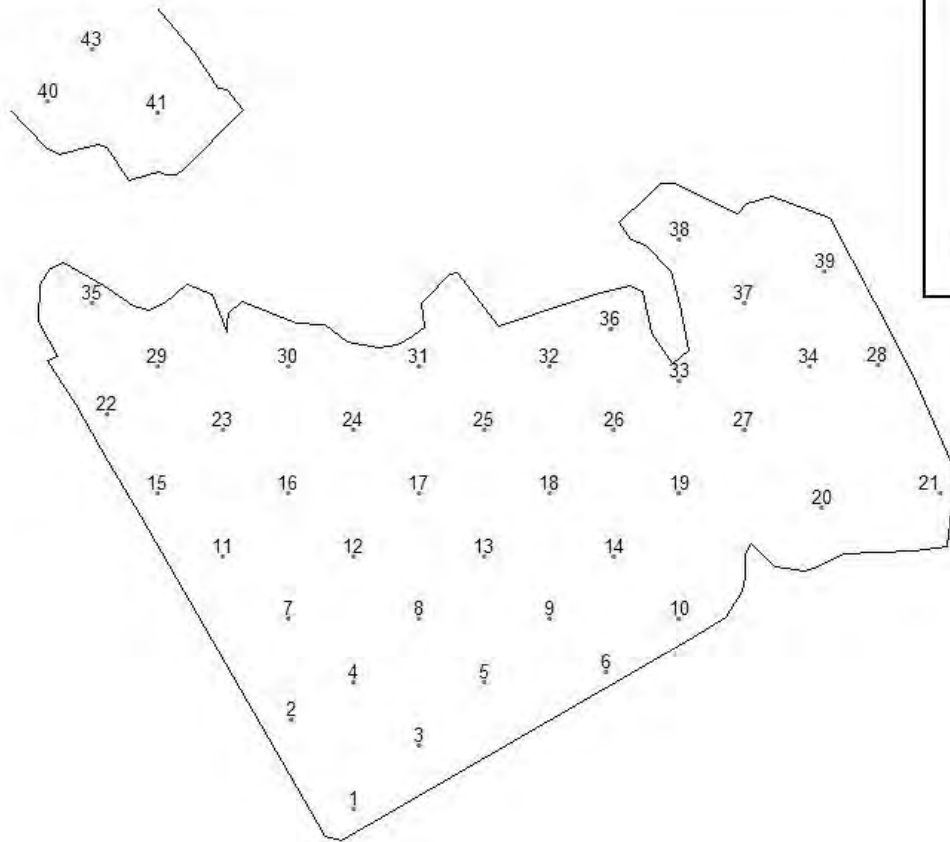
- 1261 - 2500
- 2500 - 3000
- 3000 - 3500
- 3500 - 4993

□ (375.8ha.) Field Boundary

1:13000

**AP**   
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SOLUÇÕES EM AGRICULTURA DE PRECISÃO

**Geral; 04**

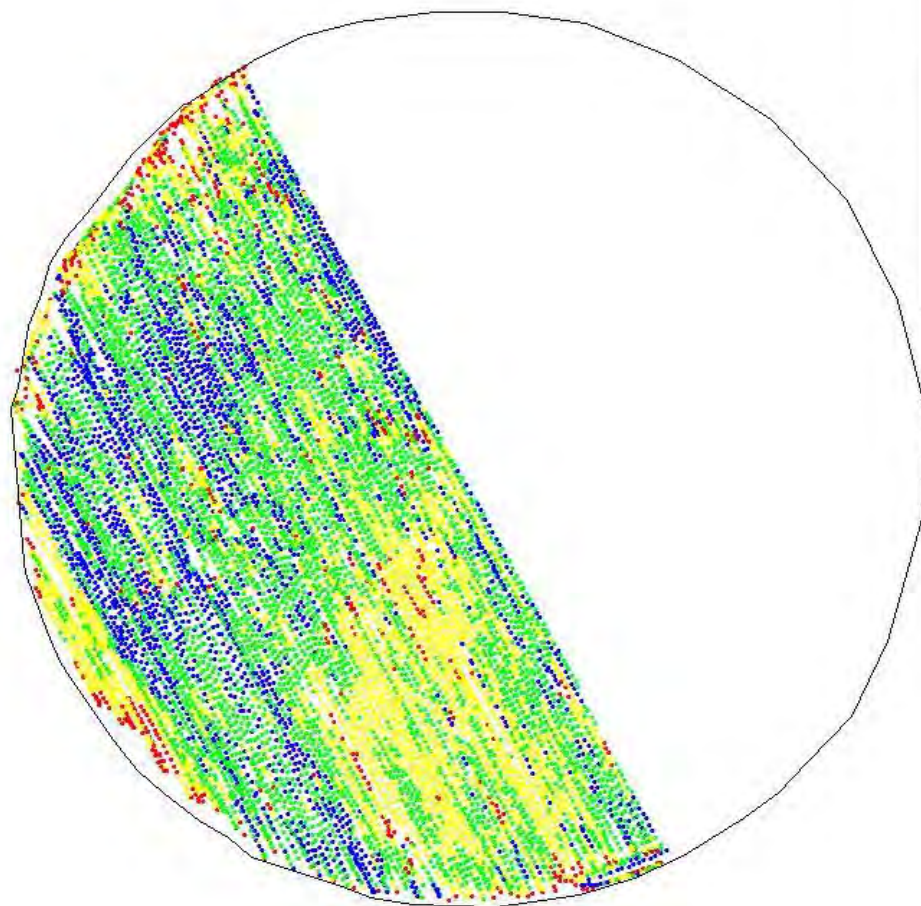


Field Boundary\_sample  
(375.8ha.)Field Boundary

1:13000

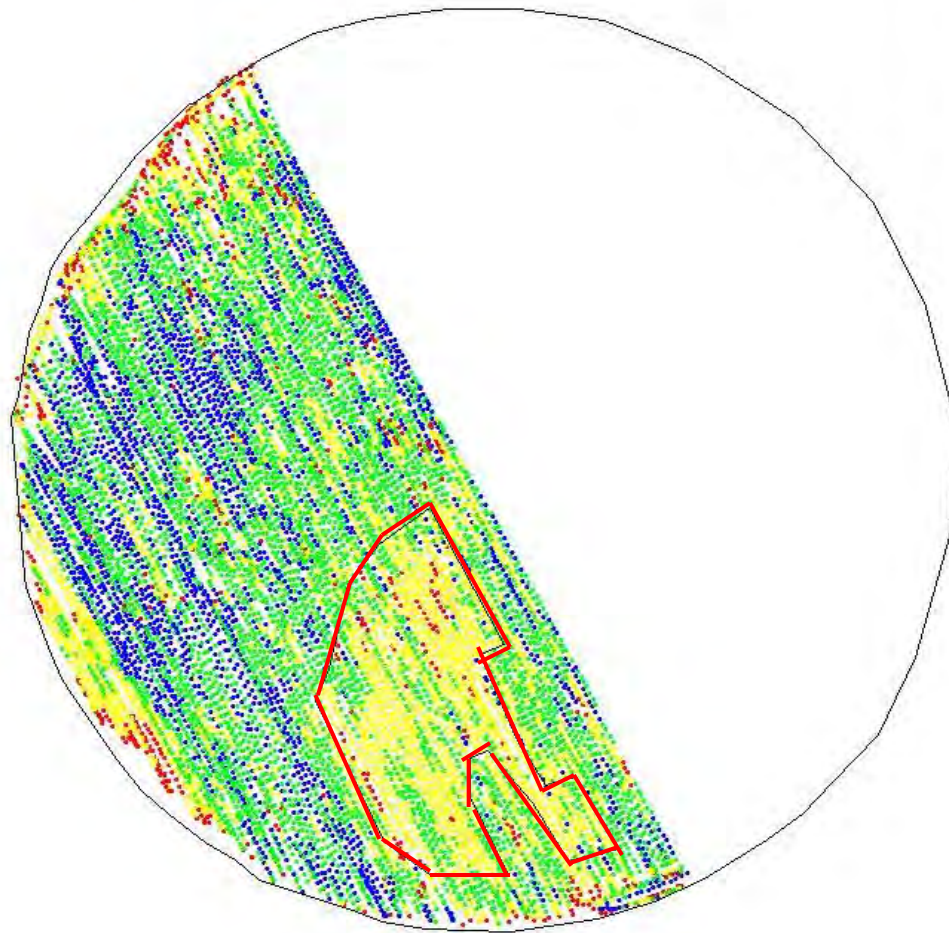


Pivo 110 ha; 03



- (110.1ha.)Field Boundary  
produtividade milho
- 3321 - kg/ha
  - 5849 - 7351
  - 7352 - 8355
  - 8356 - 11138

Pivo 110 ha; 03



Graphic Polygons  
(110.1ha.)Field Boundary  
produtividade milho

- 3321 - kg/ha
- 5849 - 7351
- 7352 - 8355
- 8356 - 11138

1:7000

# Parceiros APagri

- Proest – Chapadão do Céu – GO
- Precisão – Uberaba - MG
- Grupo de Produtores – Palmital - SP
- Terra Brasileira - Balsas – Ma
- Agropaulista – Cristalina - GO
- Agroguarani - Naranjal - PY
- Agricultores(Balsas/Rio Verde/Jatai/Luziania)

# Estratégia – Proest

## Chapadão do Céu - GO

- Equilíbrio de Bases.

- Produtos Utilizados:

Calcário Dolomítico.

Calcário Magnesiano.

Calcário Calcítico.

Gesso.

Fósforo.

Cloreto de Potássio.



# T 37B; 04 (107.57 ha)

Calcario calcico

Calcario magnesiano



100 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 Meters

Calcario calcico	
900 Kg/ha	(19.7 ha.)
1600	(15.9 ha.)
2200	(9.2 ha.)
2800	(2.8 ha.)

Date: Jun 29, 2004  
Field Name: T 37B; 04  
Farm Name: Amanhai  
Client Name: Roberto R C Filho  
Total Hectares: 107.57  
Field Boundary Start Location:  
Latitude: -18.33063282  
Longitude: -52.59314872

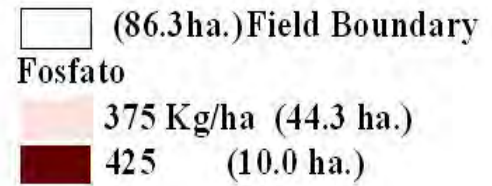
Calcario magnesiano	
1800 Kg/ha	(17.2 ha.)
2250	(23.4 ha.)
2500	(17.6 ha.)
2800	(14.7 ha.)



T8; 04




Farm Name: Novo Milenio  
Client Name: Renato Shneider






Farm Name: Novo Milenio  
Client Name: Renato Shneider




 (86.3ha.) Field Boundary

Kcl

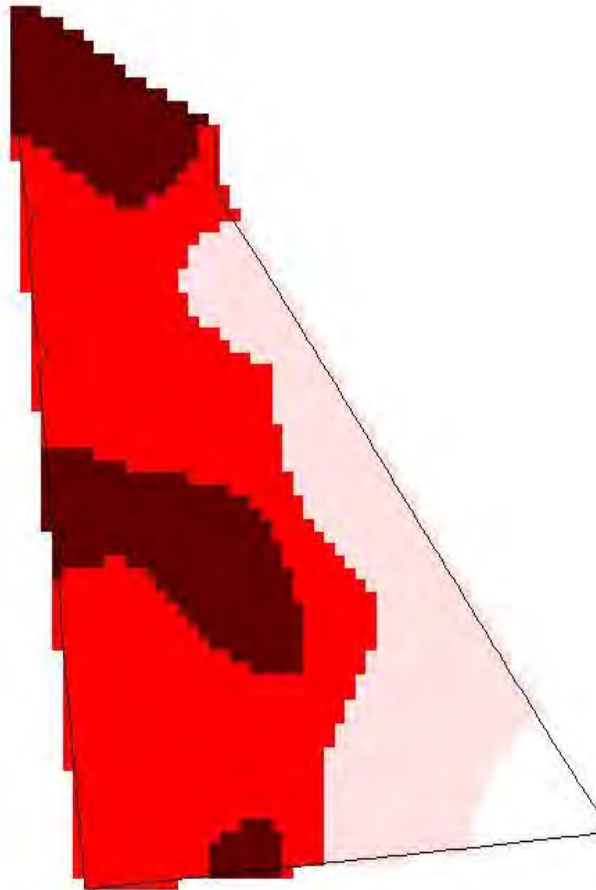
 50 Kg/ha (42.2 ha.)

 110 (36.4 ha.)


 350 (7.3 ha.)




T8; 04





Farm Name: Novo Milenio  
Client Name: Renato Shneider

 (86.3ha.) Field Boundary

Magnesiano

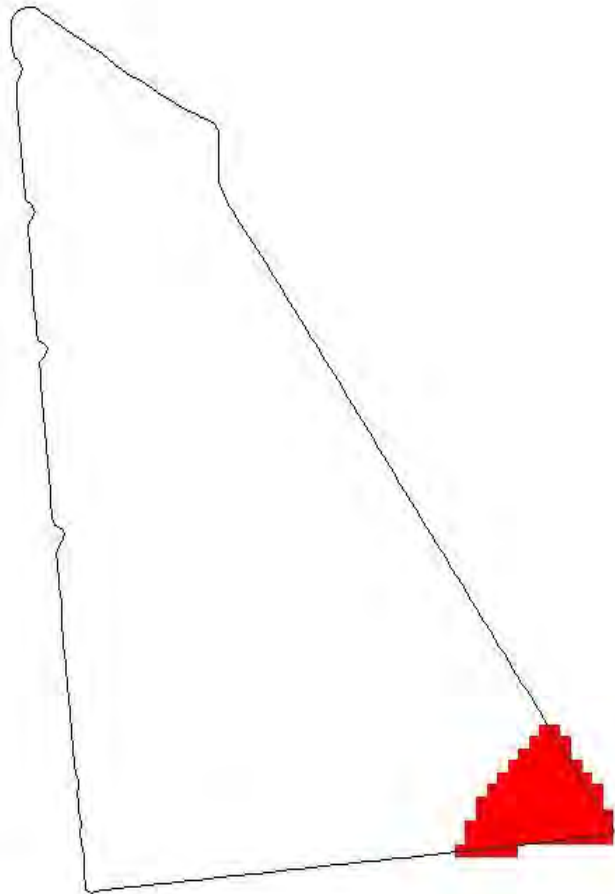
 2000 Kg/ha (24.2 ha.)

 2700 (44.2 ha.)

 3200 (19.3 ha.)



T8; 04

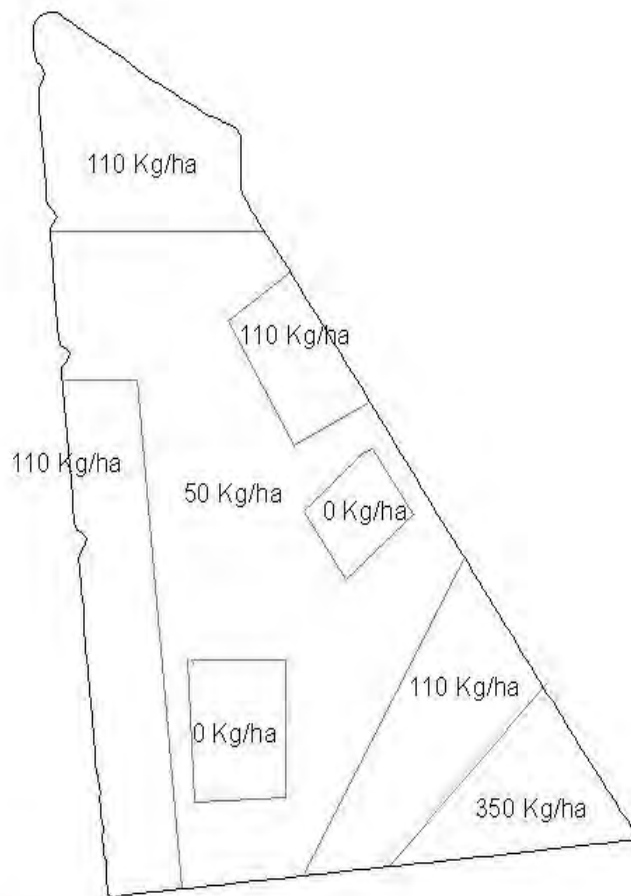



□ (86.3ha.) Field Boundary  
Calcitico  
■ 1000 Kg/ha

Farm Name: Novo Milenio  
Client Name: Renato Shneider



Farm Name: Novo Milenio  
Client Name: Renato Shneider



 (86.3ha.) Field Boundary  
Linhas KCl



# **Estratégia Precisão Assessoria Agronômica. Uberaba - MG**

- **Correções com base nos trabalhos EMBRAPA – CPAC.**

- **Produtos Utilizados:**

Calcário(Magnesiano, Calcítico, Dolomítico).

Silicato de Ca e Mg.

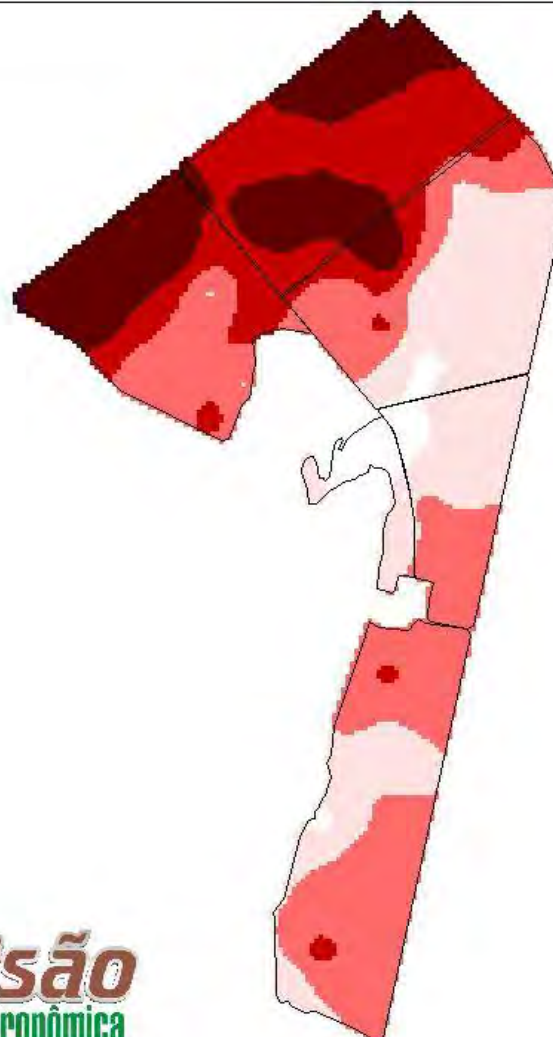
Gesso.

Fósforo.

Cloreto de Potássio.



Paraiso; 04



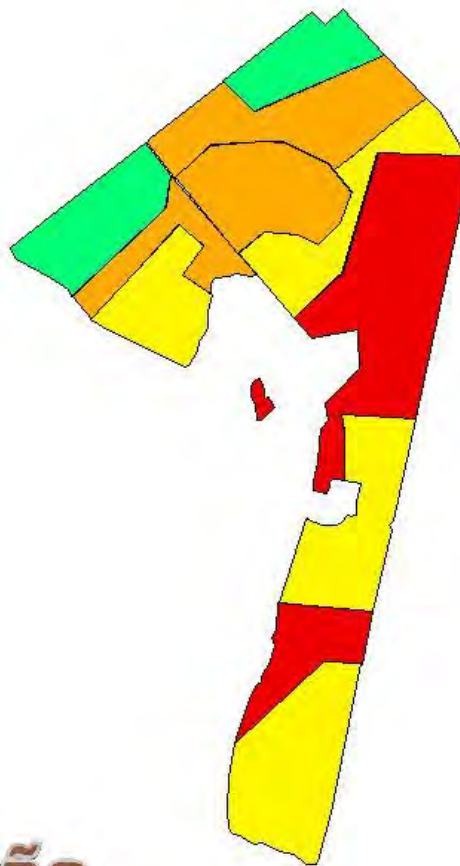
- (423.6ha.) Field Boundary  
Recommendation - Calcario generico
- 500 - 1191
  - 1191 - 2101.4
  - 2101.4 - 2925.7
  - 2925.7 - 3881.1

1:25000





 **Precisão**  
Assessoria Agronômica

**AP**   
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Paraiso; 04

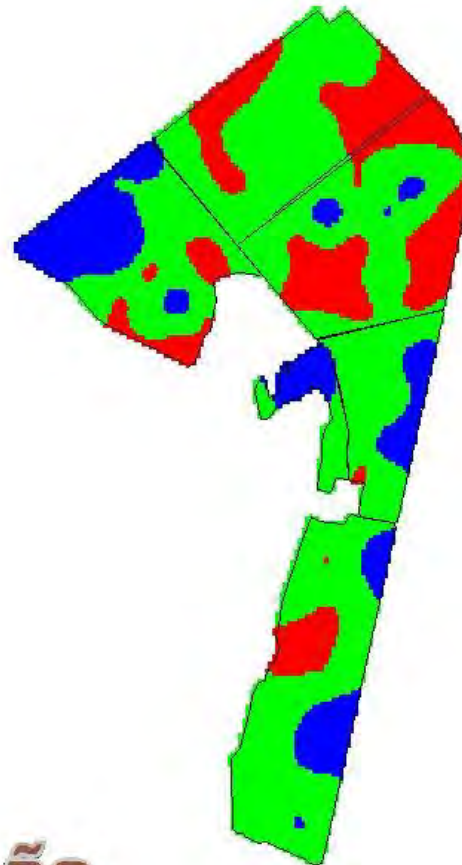


**Calcario Dolomítico**

	900	(105.4 ha.)
	1800	(149.5 ha.)
	2900	(103.9 ha.)
	3300	(55.9 ha.)

1:30000

Paraiso; 04



(423.6ha.)Field Boundary

P 0-20cm

< 16

16 - 40

> 40

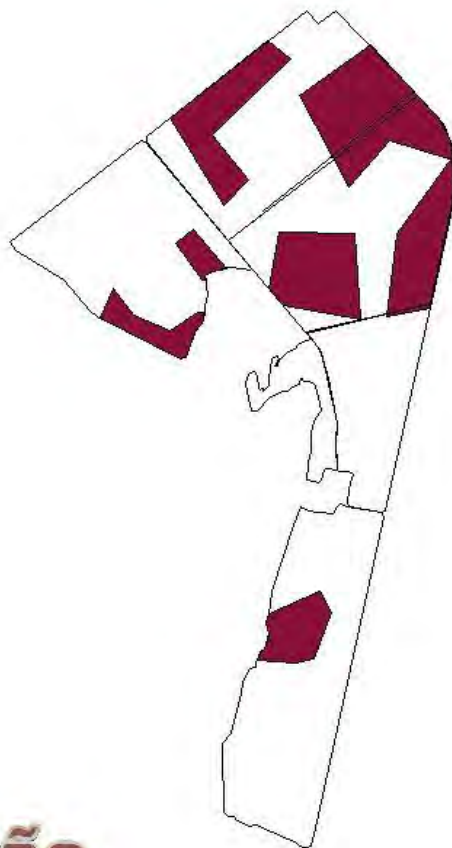
1:30000



 **Precisão**  
Assessoria Agronômica

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Paraiso; 04



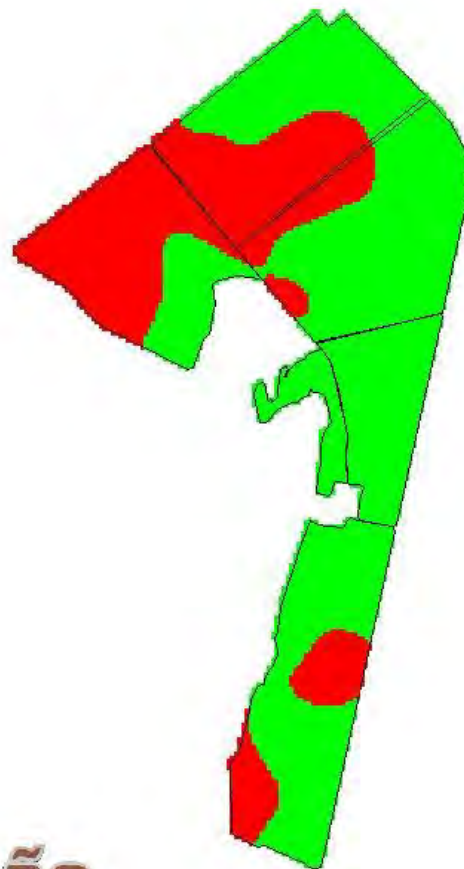
 (423.6ha.) Field Boundary  
 (112.6ha.) Fosfatagem

1:30000

 **Precisão**  
Assessoria Agronômica

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Paraiso; 04

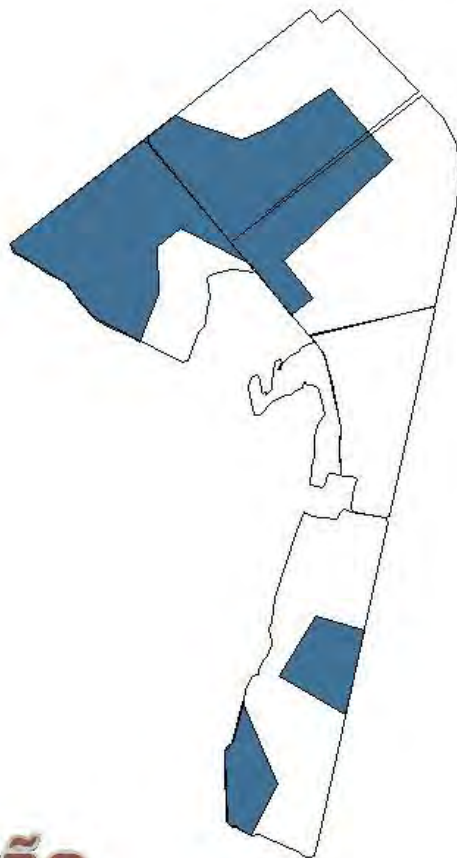


□ (423.6ha.)Field Boundary  
m 20-40cm  
■ <20%  
■ > 20

1:30000



Paraiso; 04

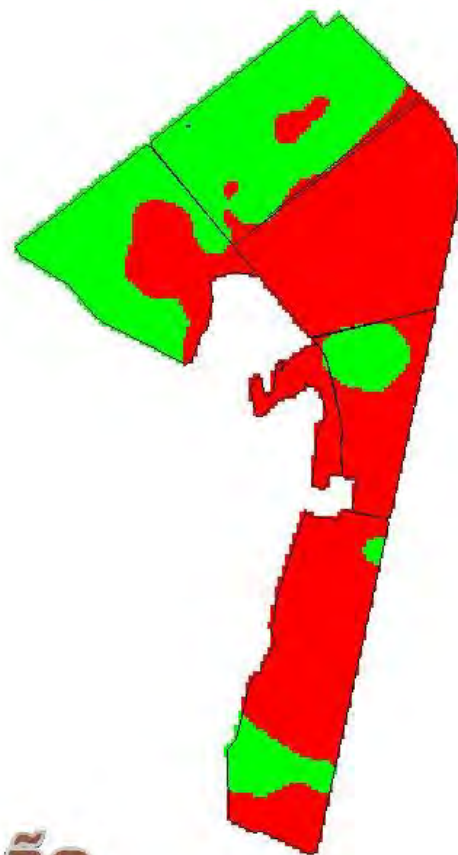


(423.6ha.) Field Boundary  
(158.8ha.) Gesso

1:30000



Paraiso; 04



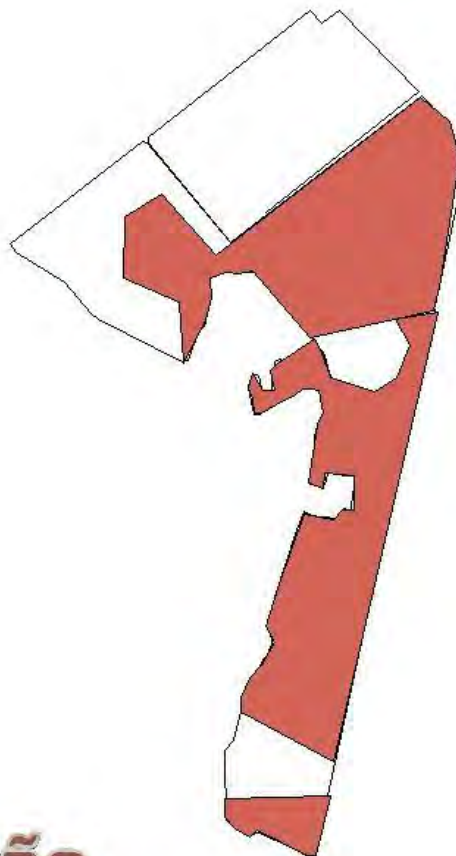
□ (423.6ha.)Field Boundary  
K 0-20cm  
■  $< 1.5 \text{ mmol/dm}^3$   
■  $1.5 - 3$   
■  $> 3$

1:30000

 **Precisão**  
Assessoria Agronômica

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Paraiso; 04



(247.2ha.) Zona de Aplicação de Cloreto  
(423.6ha.) Field Boundary

1:30000

 **Precisão**  
Assessoria Agronômica

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SOLUÇÕES EM AGRICULTURA DE PRECISÃO

**Conhecimentos  
Gerais**

**Engenharia  
&  
Criatividade**

**Agricultura  
de Precisão**

**Visão  
Espacializada**

**Conhecimentos  
Específicos**

# MUITO OBRIGADO!

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3 6 2004