

# Trial Junami 2010

## CAF Overzande

Basic Fertilizer 50kg/N/Ha 175kg K/Ha 225 kg kieserite/Ha

The objects are:

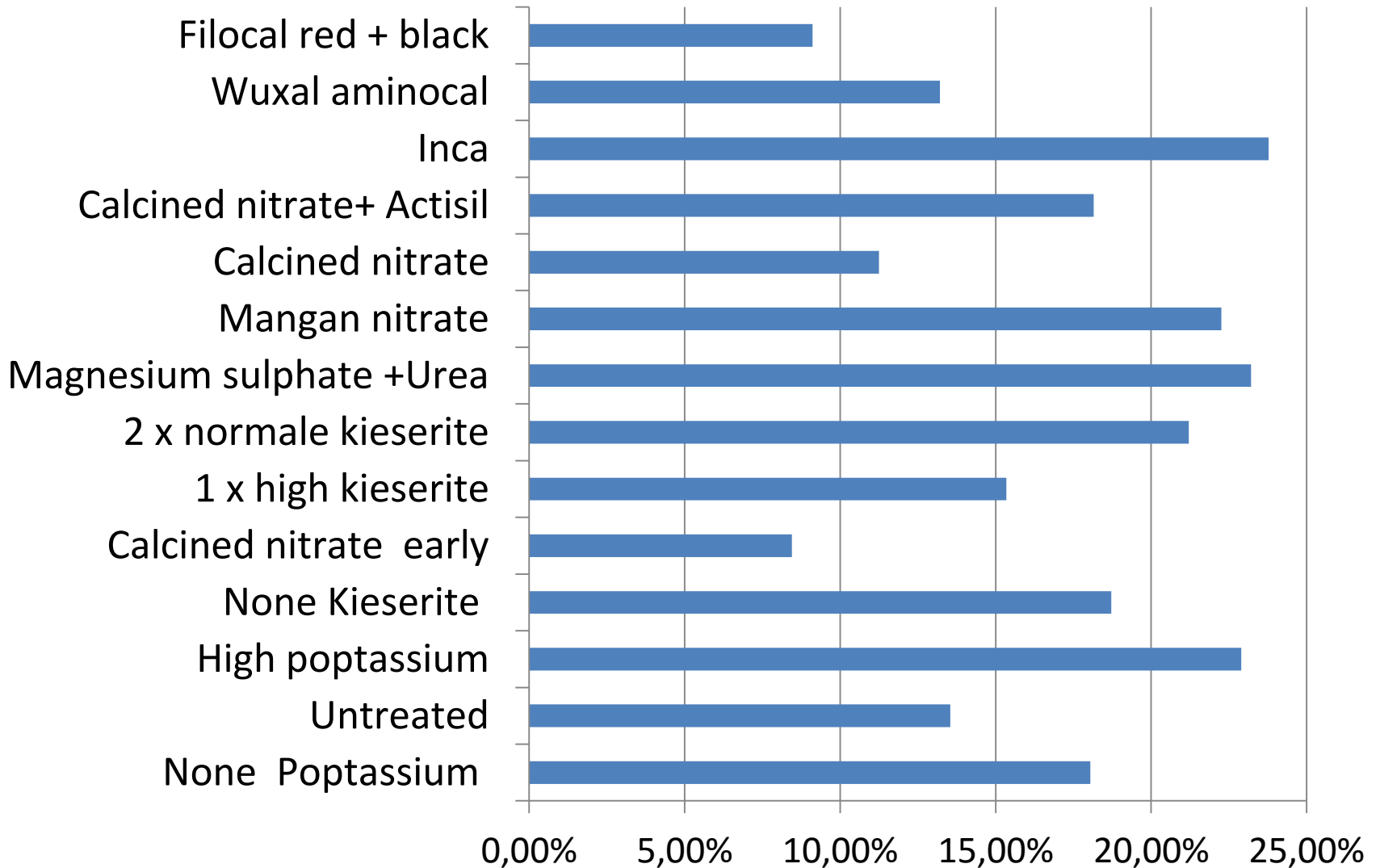
|    |                           |    |           |                        |
|----|---------------------------|----|-----------|------------------------|
| 1  | Filocal                   | 14 | Sprayings | 3 L red + 3 L black/Ha |
| 2  | Wuxal Aminocal            | 10 | X         | 7 L / Ha               |
| 3  | Inca                      | 3  | X         | 1,5 L Ha               |
| 4  | Calcined nitrate+ Actisil | 10 | X         | 5 Kg/Ha                |
| 5  | Calcined nitrate          | 10 | X         | 5 Kg/Ha                |
| 6  | Mangan nitrate            | 14 | X         | 3 L /Ha                |
| 7  | Magnesium sulphate +Urea  | 14 | X         | 5 Kg/Ha + 3Kg/ Ha      |
| 8  | 2 x normale kieserite     | 2  | x Gift    | 2 x 225 Kg/Ha          |
| 9  | 1 x high kieserite        | 1  | x Gift    | 1 x 450 Kg/Ha          |
| 10 | Calcined nitrate early    | 14 | Sprayings | 5 Kg/ Ha               |
| 11 | None Kieserite            |    |           |                        |
| 12 | High Poptassium           | 1  | x Gift    | 1 x 350 Kg/Ha          |
| 13 | Untreated                 |    |           | Basic Fertilizer       |
| 14 | None Poptassium           |    |           |                        |

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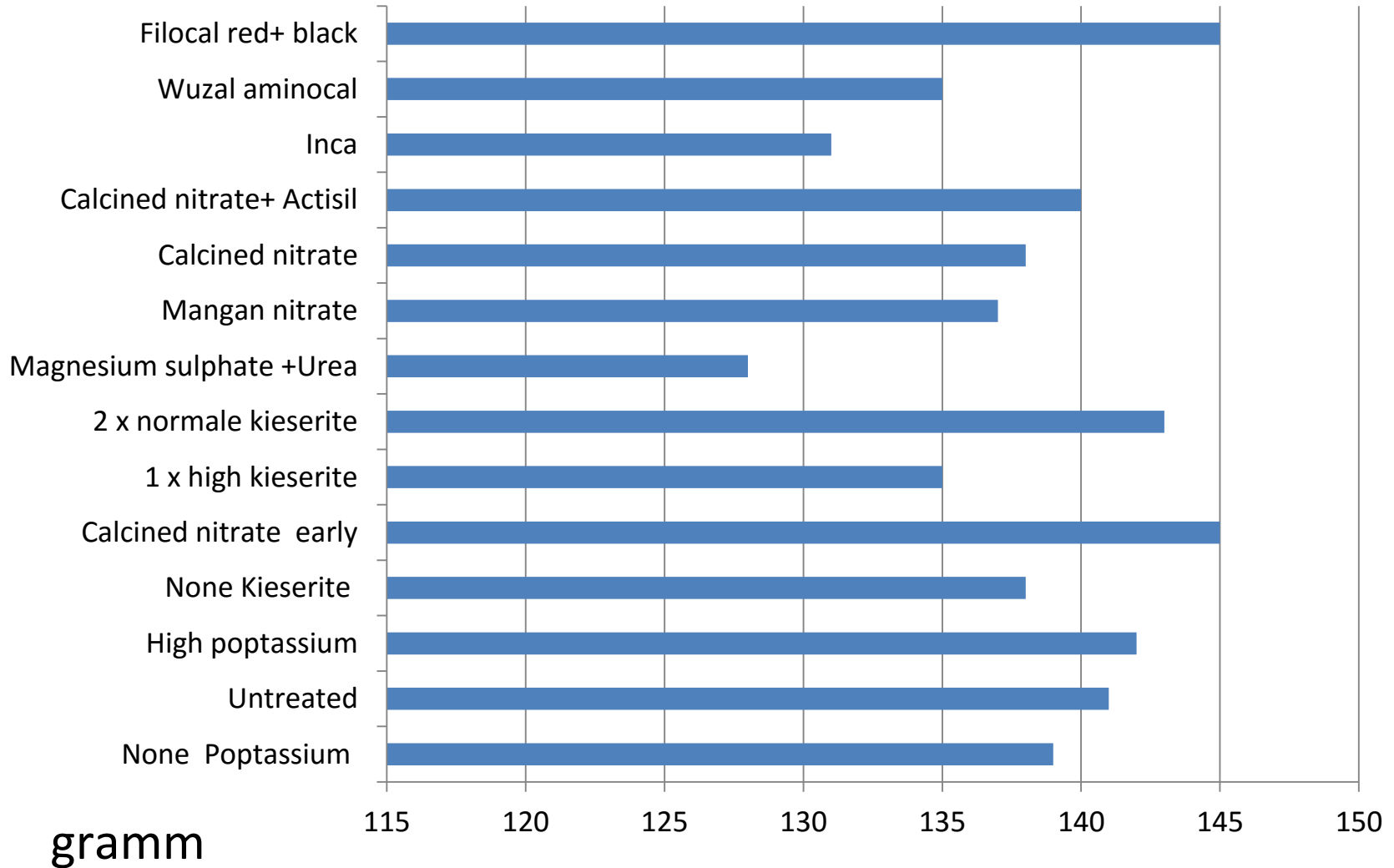
## CAF Overzande

| g/Kg                           | early Leaf-analysis |       |      | late Leaf-analysis |       |      | Fruit-analysis |      |      |
|--------------------------------|---------------------|-------|------|--------------------|-------|------|----------------|------|------|
|                                | K                   | Ca    | Mg   | K                  | Ca    | Mg   | K              | Ca   | Mg   |
| • Filocal                      | 16,38               | 12,8  | 2,32 | 14,3               | 17,01 | 1,29 | 8,08           | 0,15 | 0,28 |
| • Wuxal Aminocal               | 16,65               | 10,54 | 2,04 | 14,37              | 17,04 | 1,3  | 7,5            | 0,16 | 0,22 |
| • Inca                         | 17,01               | 13,5  | 2,68 | 13,74              | 15,58 | 1,38 | 8,21           | 0,11 | 0,28 |
| • Calcined nitrate+ Actisil    | 16,48               | 11,97 | 2,28 | 13,87              | 16,76 | 1,68 | 7,97           | 0,17 | 0,28 |
| • Calcined nitrate             | 15,85               | 10,85 | 2,26 | 14,09              | 18,37 | 1,36 | 7,91           | 0,12 | 0,26 |
| • Mangan nitrate               | 16,88               | 10,68 | 2,22 | 13,46              | 15,51 | 1,73 | 7,95           | 0,14 | 0,27 |
| • Magnesium sulphate<br>+ Urea | 16,51               | 10,39 | 2,31 | 13,11              | 15,19 | 2,13 | 7,88           | 0,15 | 0,28 |
| • 2 x normale kieserite        | 16,97               | 10,55 | 2,00 | 15,14              | 16,23 | 1,25 | 8,18           | 0,18 | 0,29 |
| • 1 x high kieserite           | 13,81               | 10,48 | 2,04 | 13,81              | 18,34 | 1,75 | 7,91           | 0,11 | 0,28 |
| • Calcined nitrate early       | 17,36               | 11,02 | 1,94 | 13,80              | 19,76 | 1,56 | 7,93           | 0,16 | 0,28 |
| • None Kieserite               | 16,74               | 10,95 | 2,06 | 14,09              | 15,75 | 1,31 | 7,96           | 0,1  | 0,27 |
| • High poptassium              | 16,76               | 10,95 | 2,06 | 14,37              | 15,01 | 1,32 | 8,00           | 0,1  | 0,28 |
| • Untreated                    | 16,21               | 12,2  | 2,3  | 13,8               | 17,06 | 1,4  | 7,98           | 0,15 | 0,28 |
| • None Poptassium              | 16,5                | 13,06 | 2,42 | 13,7               | 15,91 | 1,41 | 7,99           | 0,12 | 0,28 |

# Bitterpit Junami in %



# Fruit weight Junami in gramm



# Trial Junami 2010

## CAF Overzande

- Yield difference in € (Magnesium sulphate +Urea )  
production 35000/kg/Ha)

|                            | Bitterpit<br>% | Fruit weight<br>in gramm | Returns<br>in Kg | Difference<br>à € 0,70/kg |
|----------------------------|----------------|--------------------------|------------------|---------------------------|
| • Magnesium sulphate +Urea | 23,21 %        | 128                      | 0                | € 0,00                    |
| • Untreated                | 13,54 %        | 141                      | 7280             | 5100,00                   |
| • Filocal                  | 9,11 %         | 145                      | 8940             | 6258,00                   |

# Trail calcium Fertilizer

## By apple (Kanzi) in 2008 CAF

### Objecten

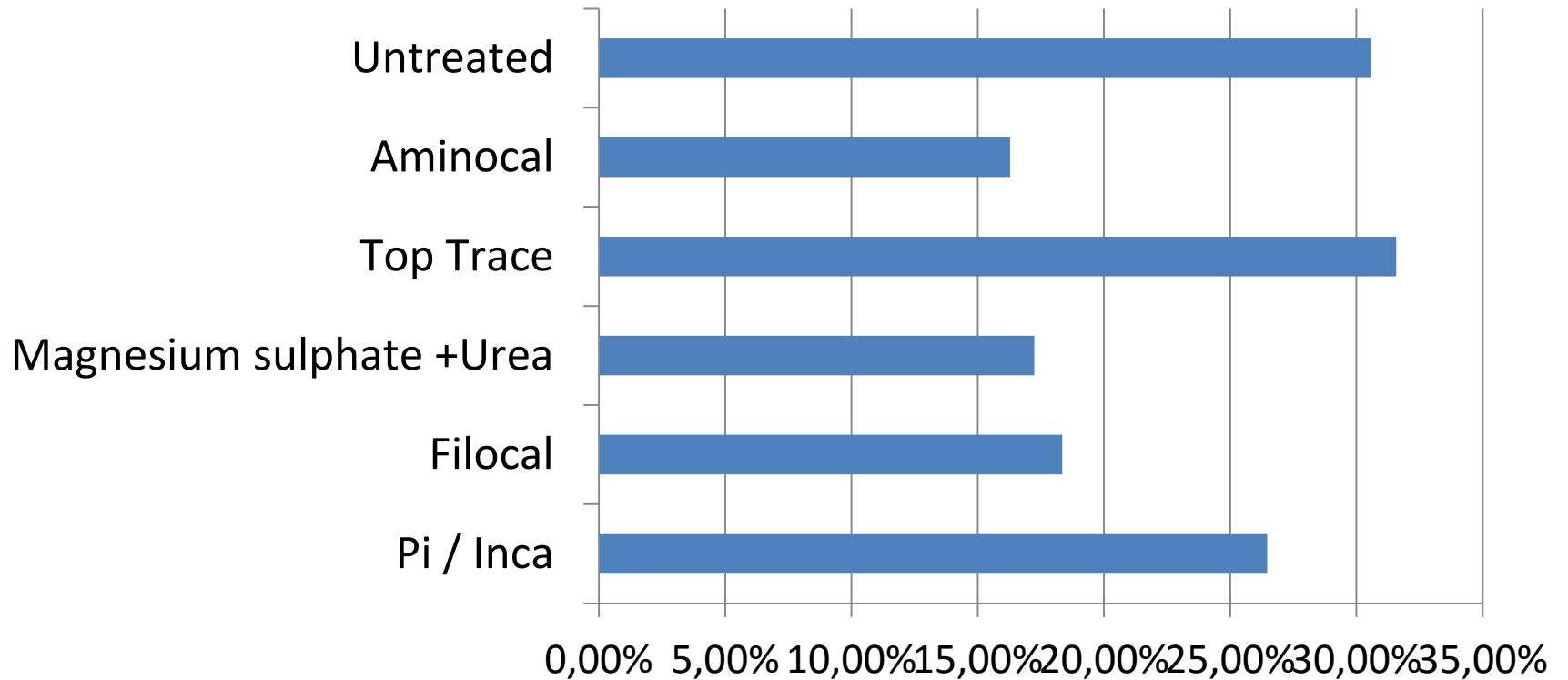
|   |                          |    |          |    |                   |
|---|--------------------------|----|----------|----|-------------------|
| 1 | Untreated                |    |          |    |                   |
| 2 | Aminocal                 | 10 | Spraying |    | 8 L/Ha            |
| 3 | Top Trace Ca+Mg          | 10 | X        |    | 5 L/Ha            |
| 4 | Magnesium sulphate +Urea | 5  | X        | 5X | 5 Kg/Ha / 5 Kg/Ha |
| 5 | Filocal red + black      | 10 | X        |    | 3 L/Ha + 3 L/Ha   |
| 6 | Pi/ Inca                 | 3  | X        |    | 1,5/ Ha           |

# Trial calcium Fertilizer by apple (Kanzi) in 2008 CAF

| g/Kg                             | early leaf analysis |      | late Leaf-analysis |      | Fruit-analysis |       |
|----------------------------------|---------------------|------|--------------------|------|----------------|-------|
|                                  | Ca                  | Mg   | Ca                 | Mg   | Ca             | Mg    |
| • 1 Untreated                    | 17,19               | 2,67 | 17,11              | 1,69 | 7,58           | 9,67  |
| • 2 Aminocal                     | 17,57               | 2,62 | 17,20              | 1,61 | 9,76           | 10,57 |
| • 3 Top Trace                    | 16,94               | 2,55 | 17,27              | 1,70 | 8,65           | 10,83 |
| • 4 Magnesium sulphate +<br>Urea | 18,07               | 2,83 | 17,31              | 1,87 | 7,54           | 10,29 |
| • 5 Filocal                      | 18,24               | 2,80 | 18,56              | 1,89 | 8,22           | 11,21 |
| • 6 Pi / Inca                    | 17,96               | 2,67 | 17,81              | 1,73 | 8,04           | 12,64 |
| •                                |                     |      |                    |      |                |       |

# Trial calcium Fertilizer

## Apple (Kanzi) 2008 CAF % lenticel braek-down





# Trail Filocal by Elstar

## Randwijk 2001/2002/2003

| Object 1<br>Leaf-Fertilizer<br>program Fruitconsult | Object 2<br>Filocal         | Object 3<br>Untreated |
|---|-----------------------------|-----------------------|
| / Ha.   |                             |                       |
| +/- 12 sprayings                                    |                             |                       |
| GA 4/7                    1,5 L                     | 2 x 3 L red/3 L black / Ha  |                       |
| Ureum                    40 kg                      | 8 X 6 L red/ 3 L black / Ha |                       |
| MAP                    11 kg                        | 3 x 1 L Filocal Blue /Ha    |                       |
| MgSO4                    40 kg                      |                             |                       |
| MKP                    6 kg                         |                             |                       |
| KNO3                    10 kg                       |                             |                       |
| Zinc                    1 L                         |                             |                       |
| Solibor                    5 kg                     |                             |                       |
| Mangan                    2,5 L                     |                             |                       |
| +/- 6 sprayings Calcium                             |                             |                       |
| CaCl                    30 kg                       |                             |                       |
| Aminosol                    3 L                     |                             |                       |
| Mangan                    1,5 L                     |                             |                       |
| Zinc                    1 L                         |                             |                       |
|   |                             |                       |
|   |                             |                       |

# Trail Filocal by Elstar

## Randwijk 2001/2002/2003

### Leaf-analysis 2001

| % dry matter       | N             | P     | K   | Ca   | Mg    |
|--------------------|---------------|-------|-----|------|-------|
| Object 1 FCI       | 2.43          | 0.234 | 1.9 | 1.37 | 0.206 |
| Object 2 Filocal   | 2.47          | 0.22  | 1.7 | 1.56 | 0.231 |
| Object 3 Untreated | none Analysis |       |     |      |       |

### Leaf-analysis 2002

| % dry matter       | N    | P     | K    | Ca   | Mg    |
|--------------------|------|-------|------|------|-------|
| Object 1 FCI       | 2.10 | 0.238 | 1.45 | 1.79 | 0.214 |
| Object 2 Filocal   | 2.10 | 0.223 | 1.33 | 1.64 | 0.21  |
| Object 3 Untreated | 2.17 | 0.222 | 1.34 | 1.60 | 0.214 |

### Fruit-analysis 2001

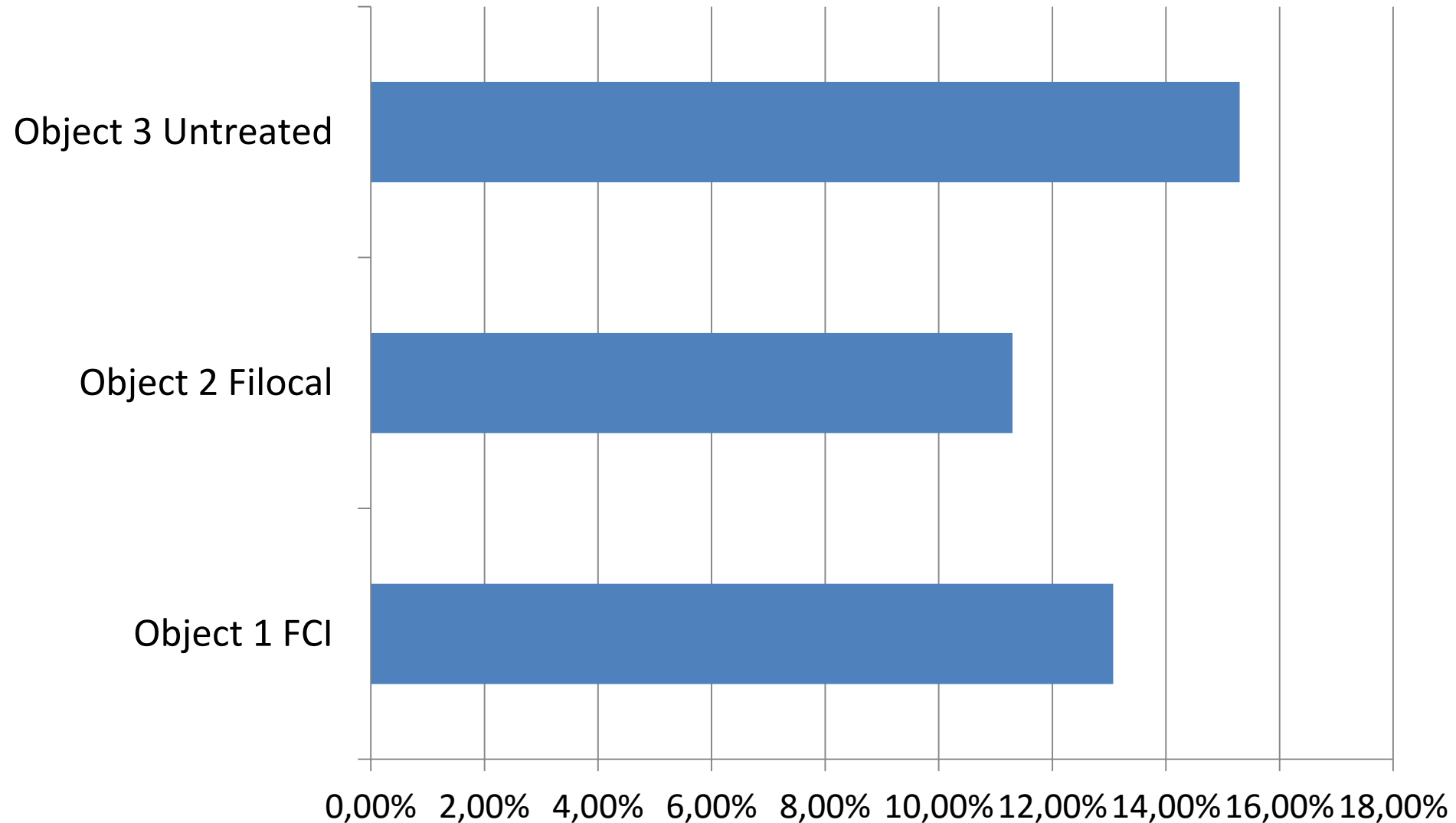
| % dry matter       | N             | P    | K     | Ca   | Mg   |
|--------------------|---------------|------|-------|------|------|
| Object 1 FCI       | 56.2          | 11.1 | 118.7 | 2.31 | 4.26 |
| Object 2 Filocal   | 56.1          | 11.5 | 118.7 | 2.39 | 3.75 |
| Object 3 Untreated | none Analysis |      |       |      |      |

### Fruit-analysis 2002

| % dry matter       | N    | P    | K     | Ca   | Mg   |
|--------------------|------|------|-------|------|------|
| Object 1 FCI       | 68.2 | 17.0 | 166.9 | 4.12 | 6.30 |
| Object 2 Filocal   | 71.2 | 17.9 | 173.7 | 4.24 | 6.52 |
| Object 3 Untreated | 66.9 | 16.6 | 162.5 | 3.91 | 6.22 |

# Trial Filocal by Elstar

## Randwijk 02/2003 Skin russet in %



Mineralstoff - Analyse, 13. 10. 2010,

Mabo, Braeburn

| Probe  | % Tr. S. | mg Ca /<br>100g Fr. S. | mg Mg /<br>100g Fr. S. | mg K /<br>100g Fr. S. | mg P /<br>100g Fr. S. | K / Ca |
|--|----------|------------------------|------------------------|-----------------------|-----------------------|--------|
| <i>Fifocal</i><br>Ca Dünger<br>Vers. 1           | 16,14    | 4,26                   | 4,76                   | 97,8                  | 8,38                  | 22,95  |
| Ca Std.<br>Epsom<br>Calphos<br>CaCl <sub>2</sub> | 15,75    | 4,20                   | 4,51                   | 99,0                  | 8,28                  | 23,58  |

# Trail Duitland

## Spiess 1999

- Versuchsprotokoll

- Ergebnisse 1999

| Produkt            | Sorte       | Baum<br>kg | Fruchtgrößenanteile in % |       |       |       |
|--------------------|-------------|------------|--------------------------|-------|-------|-------|
|                    |             |            | <70.mm                   | 70-80 | 80-90 | >90mm |
| • 1 Unbehandelt    | Golden Del. | 18,1       | 43,3                     | 52,2  | 4,5   | -     |
| • 4 D.CombiG       | ..          | 18,8       | 34,6                     | 59,1  | 6,3   | -     |
| • 5 <i>Filocal</i> | ..          | 17,8       | 39,2                     | 57,4  | 3,4   | -     |
| • 1 Unbehandelt    | Jonagold    | 11,5       | 3,5                      | 42,3  | 43,6  | 10,6  |
| • 4 D. CombiG      | ..          | 22,8       | 2,5                      | 42,1  | 47,2  | 8,2   |
| • 5 <i>Filocal</i> | ..          | 21,7       | 1,5                      | 33,7  | 53,3  | 11,5  |
| • 1 Unbehandelt    | Idared      | 18,3       | 28,5                     | 55,5  | 18,7  | -     |
| • 4 D. Combi       | ..          | 17,3       | 17,3                     | 58,3  | 24,4  | -     |
| • 5 <i>Filocal</i> | ..          | 20,3       | 18,9                     | 58,3  | 22,8  | -     |

Um das Ergebnis nicht zu beeinflussen, wurde in der Versuchsfläche keinerlei Fruchtausdünnung durchgeführt

# Trail Duitsland

## Spiess 1999

### Fruchtberostung und Fruchtausfärbung

| Produkt        | Fruchtberostung |          | Fruchtausfärbung |         |        |
|----------------|-----------------|----------|------------------|---------|--------|
|                | Golden Del.     |          | Jonagold         |         |        |
|                | % WZ 1          | Ø WZ 1-4 | < 30 %           | 30-50 % | > 50 % |
| 1 Unbehandelt  | 64,0            | 1,42     | 13,3             | 44,5    | 42,2   |
| 4 Düng Combi G | 64,0            | 1,43     | 9,5              | 47,5    | 43,0   |
| 5 Filocal      | 78,0            | 1,24     | 6,2              | 47,0    | 46,8   |

Fruchtberostung : WZ 1 = ohne Berostung WZ 2 = schwache Berostung  
 WZ 3 = Stärkere Berostung WZ 4 = starke Berostung

Fruchtausfärbung : % - Anteil rote Deckfarbe