

Trial report

**Variety testing of**

***Poa pratensis, Festuca arundinacea and  
Dactylis glomerata***

Second year harvest

AGRONOVA - Gefion Field Trials



2010

Fulbyvej 15  
4180 Sorø  
Denmark  
Phone: (+45) 57865000  
phv@gefion.dk

# Index

|   |           |
|---|-----------|
| <b>1. INTRODUCTION.....</b>   | <b>3</b>  |
| <b>2. TRIAL 2008.541.00 <i>POA PRATENSIS</i> (KENTUCKY BLUEGRASS) .....</b> | <b>4</b>  |
| 2.1 VARIETIES.....  | 4         |
| 2.2 SITE DESCRIPTION.....   | 4         |
| 2.3 RESULTS .....   | 5         |
| <b>3. TRIAL 2008.543.00 <i>FESTUCA ARUNDINACEA</i> (TALL FESCUE) .....</b>  | <b>7</b>  |
| 3.1 VARIETIES.....  | 7         |
| 3.2 SITE DESCRIPTION.....   | 7         |
| 3.3 RESULTS .....   | 7         |
| <b>4. TRIAL 2008.544.00 <i>DACTYLIS GLOMERATA</i> (ORCHARD GRASS) .....</b> | <b>9</b>  |
| 4.1 VARIETIES.....  | 9         |
| 4.2 SITE DESCRIPTION.....   | 9         |
| 4.3 RESULTS .....   | 10        |
| <b>5. TRIAL COMMENTS .....</b>  | <b>12</b> |
| <b>6. APPENDIX 1. SINGLE PLOT DATA.....</b>                                 | <b>13</b> |
| <b>7. APPENDIX 2. CLIMATIC DATA.....</b>                                    | <b>17</b> |

## 1. Introduction

This report contains the results of four variety testing trials in *Poa pratensis*, *Festuca arundinacea* and *Dactylis glomerata*. All yields “per ha” are adjusted to a water content of 13 %.

The location of the trials was near Ringsted, Denmark.

| <b>Trial number by<br/>Agronova</b> | <b>Species</b>             |
|-------------------------------------|----------------------------|
| 2008.541.00                         | <i>Poa pratensis</i>       |
| 2008.543.00                         | <i>Festuca arundinacea</i> |
| 2008.544.00                         | <i>Dactylis glomerata</i>  |

The trials have been carried out by the GEP-unit at Agronova, Gefion in 2010 for Barenbrug, Holland.

08 December 2010

---

Peter Hvid  
Agronova –  
Gefion Field Trials

## 2. Trial 2008.541.00 *Poa pratensis* (Kentucky Bluegrass)

### 2.1 Varieties

| Trt No. | Treatment Name |
|---------|----------------|
| 1       | BARIMPALA      |
| 2       | BARTENDER      |
| 3       | BARIRIS        |
| 4       | BARON          |

### 2.2 Site description

Basic information for trial 2008.541.00 *Poa pratensis*

|                      |  |  |  |
|----------------------|--|--|--|
| <b>Trial host</b>    | Ny Lellinge<br>Gefion  |  |  |
| <b>Soil analysis</b> | Coarse sand: 36 %  | Rt: 6,7                                |  |
|                      | Silt: 16,4 %   | Pt: 2,1                                |  |
|                      | Humus: 2,2 %   | Kt: 10                                 |  |
|                      | Fine sand: 35,9 %  | Mgt: 4,7                               |  |
|                      | Clay: 9,5 %  |  |  |
| <b>Previous crop</b> | Spring barley 2008 <i>Poa pratensis</i> 2009   |  |  |
| <b>Drilling date</b> | 16-04-2008   | <b>Seed rate</b>                       | 7 kg/ha                                |
| <b>Fertilizer</b>    | date<br>type<br>rate   | 09-10-2009<br>NPKS 22-3-10-5<br>300 kg | 22-03-2010<br>NPKS 22-3-10-5<br>400 kg |
| <b>Pesticides</b>    | 09-10-2009: 0,05 DFF + 1 tbl Express + 1,0 Boxer + 0,02 Hussar OD<br>05-05-2010: 0,08 Primus + 0,05 DFF +1,5 Ariane FG<br>02-06: 0,5 I Zenit |  |  |

## 2.3 Results

To ensure full maturity at harvest all plots were swathed on the 12<sup>th</sup> of July. The trial was harvested on the 16<sup>th</sup> of July.

In the following table results from harvest, seed analysis and analysis of variance is given. Analysis was done by Student-Newman-Keuls test where different letters indicate statistical significant difference at 95% level.

### Variety testing of *Poa pratensis* for Barenbrug

Trial ID: 2008.541.00      Protocol ID: 2008.541.00  
 Location: Ny Lellinge      Study Director: Peter Hvid  
 Investigator: Peter Hvid

| Crop Code            | POAPR           | POAPR           | POAPR           | POAPR           |
|----------------------|-----------------|-----------------|-----------------|-----------------|
| BBCH Scale           | BGRM            | BGRM            | BGRM            | BGRM            |
| Crop Scientific Name | Poa pratensis   | Poa pratensis   | Poa pratensis   | Poa pratensis   |
| Crop Name            | Kentucky blueg> | Kentucky blueg> | Kentucky blueg> | Kentucky blueg> |
| Part Rated           | GRAIN C         | GRAIN C         | GRAIN C         | GRAIN C         |
| Rating Date          | Jul-16-2010     | Jul-16-2010     | Jul-16-2010     | Jul-16-2010     |
| Rating Type          | YIELD           | MOICON          | WEIGHT LOSS     | YIELD           |
| Rating Unit          | KG              | %               | %               | kg/ha           |
| Sample Size, Unit    | 21,85 M2        | 1 PLOT          | 1 PLOT          | 1 PLOT          |
| Crop Stage Majority  | 91              | 91              | 91              | 91              |
| Crop Stage Scale     | BBCH            | BBCH            | BBCH            | BBCH            |
| Footnote Number      |                 |                 |                 | 2               |
| SE Name              | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     |
| ARM Action Codes     |                 |                 |                 | T2              |
| Number of Decimals   | 1               | 2               | 2               | 0               |
| Trt Treatment No     |                 |                 |                 |                 |
| Name                 | 9               | 10              | 11              | 13              |
| 1 BARIMPALA          | 4,6 ab          | 12,33           | 29,10           | 1511 b          |
| 2 BARTENDER          | 5,3 a           | 16,23           | 18,60           | 1887 a          |
| 3 BARIRIS            | 3,8 b           | 12,12           | 27,20           | 1286 b          |
| 4 BARON              | 5,2 a           | 13,19           | 17,20           | 1974 a          |
| LSD (P=.05)          | 0,93            | .               | .               | 337,0           |
| Standard Deviation   | 0,68            | .               | .               | 244,5           |
| CV                   | 14,31           | .               | .               | 14,69           |
| Bartlett's X2        | 2,835           | .               | .               | 3,686           |
| P(Bartlett's X2)     | 0,418           | .               | .               | 0,297           |
| Replicate F          | 0,773           |                 |                 | 0,741           |
| Replicate Prob(F)    | 0,5633          |                 |                 | 0,5818          |
| Treatment F          | 4,951           |                 |                 | 8,705           |
| Treatment Prob(F)    | 0,0183          |                 |                 | 0,0024          |

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Crop Code  
 POAPR, BGRM, Poa pratensis, = US  
 Part Rated  
 GRAIN = grain  
 C = Crop is Part Rated

Rating Type

YIELD = yield

MOICON = moisture content

Rating Unit

KG = kilogram

% = percent

kg/ha = kilograms per hectare

M2 = square meter

PLOT = total plot

Crop Stage Scale

BBCH = BBCH uniform plant stages

ARM Action CodesT2 =  $[C12] - ([C12] * @MVAVGREP([C11]) / 100)$ 

Footnote 2: Yield adjusted for water and purity

### 3. Trial 2008.543.00 *Festuca arundinacea* (Tall Fescue)

#### 3.1 Varieties

| Trt No. | Treatment Name   |
|---------|------------------|
| 1       | BARLEROY         |
| 2       | ANGELA           |
| 3       | BARCESAR         |
| 4       | BTR 4 (Barverde) |
| 5       | Labarinth        |

#### 3.2 Site description

Basic information for trial 2008.543.00 *Festuca arundinacea*

|                      |   |                                 |  |
|----------------------|---|---------------------------------|--|
| <b>Trial host</b>    | Ny Lellinge<br>Gefion   |                                 |  |
| <b>Soil analysis</b> | Coarse sand: 36 %   | Rt: 6,7                         |  |
|                      | Silt: 16,4 %  | Pt: 2,1                         |  |
|                      | Humus: 2,2 %  | Kt: 10                          |  |
|                      | Fine sand: 35,9 %   | Mgt: 4,7                        |  |
|                      | Clay: 9,5 %   |                                 |  |
| <b>Previous crop</b> | Spring barley 2008 <i>Festuca arundinacea</i> 2009  |                                 |  |
| <b>Drilling date</b> | 16-04-2008  | <b>Seed rate</b>                | 8 kg/ha                                |
| <b>Fertilizer</b>    | date<br>type<br>rate  | 25-09-2009<br>NS 28-5<br>240 Kg | 22-03-2010<br>NPKS 22-3-10-5<br>650 kg |
| <b>Pesticides</b>    | 09-10-2009: 0,05 DFF + 1 tbl Express + 1 Boxer<br>05-05-2010: 0,08 Primus +0,05 DFF + 1,5 Ariane FG<br>17-05-2010: 1,25 Cycocel + 0,4 Moddus M<br>02-06-2010: 0,5 Zenit |                                 |  |

#### 3.3 Results

To ensure full maturity at harvest all plots were swathed at the 21<sup>th</sup> of July. The trial was harvested on the 29<sup>th</sup> of July.

In the following table results from harvest, seed analysis and analysis of variance is given. Analysis was done by Student-Newman-Keuls test where different letters indicate statistical significant difference at 95% level.

Variety testing of *Festuca arundinacea*

Trial ID: 2008.543.00  
Location: Ny Lellinge

Protocol ID: 2008.543.00  
Study Director: Peter Hvid  
Investigator: Peter Hvid

| Crop Code            | FESAR           | FESAR           | FESAR           | FESAR           |
|----------------------|-----------------|-----------------|-----------------|-----------------|
| BBCH Scale           | BGRM            | BGRM            | BGRM            | BGRM            |
| Crop Scientific Name | Festuca arundi> | Festuca arundi> | Festuca arundi> | Festuca arundi> |
| Crop Name            | Tall fescue     | Tall fescue     | Tall fescue     | Tall fescue     |
| Part Rated           | GRAIN C         | GRAIN C         | GRAIN C         | GRAIN C         |
| Rating Date          | Jul-29-2010     | Jul-29-2010     | Jul-29-2010     | Jul-29-2010     |
| Rating Type          | YIELD           | MOICON          | WEIGHT LOSS     | YIELD           |
| Rating Unit          | KG              | %               | %               | kg/ha           |
| Sample Size, Unit    | 22,2 M2         | 1 plot          | 1 plot          | 1 plot          |
| Crop Stage Majority  | 91              | 91              | 91              | 91              |
| Crop Stage Scale     | BBCH            | BBCH            | BBCH            | BBCH            |
| Footnote Number      |                 |                 |                 | 2               |
| SE Name              | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     |
| ARM Action Codes     |                 |                 |                 | T2              |
| Number of Decimals   | 2               | 2               | 1               | 1               |
| Trt Treatment        |                 |                 |                 |                 |
| No. Name             | 6               | 7               | 8               | 10              |
| 1 BARLEROY           | 4,60 a          | 16,67           | 17,5            | 1636,5 a        |
| 2 ANGELA             | 5,61 a          | 17,51           | 17,2            | 1982,1 a        |
| 3 BARCESAR           | 4,83 a          | 17,21           | 15,8            | 1741,5 a        |
| 4 BTR 4 (Barverde)   | 2,51 b          | 15,58           | 15,3            | 927,4 b         |
| 5 Labarinth          | 4,60 a          | 20,29           | 15,4            | 1605,2 a        |
| LSD (P=.05)          | 0,771           | .               | .               | 272,42          |
| Standard Deviation   | 0,519           | .               | .               | 183,37          |
| CV                   | 11,16           | .               | .               | 11,2            |
| Bartlett's X2        | 9,086           | .               | .               | 9,044           |
| P(Bartlett's X2)     | 0,169           | .               | .               | 0,171           |
| Replicate F          | 0,795           |                 |                 | 0,765           |
| Replicate Prob(F)    | 0,5125          |                 |                 | 0,5282          |
| Treatment F          | 15,783          |                 |                 | 14,666          |
| Treatment Prob(F)    | 0,0001          |                 |                 | 0,0001          |

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

|   |  |
|---|--|
| Crop Code                                       | FESAR, BGRM, Festuca arundinacea, = US                 |
| Part Rated                                      | GRAIN = grain  |
|   | C = Crop is Part Rated                                 |
| Rating Type                                     | YIELD = yield  |
|   | MOICON = moisture content                              |
| Rating Unit                                     | KG = kilogram  |
|   | % = percent  |
|   | kg/ha = kilograms per hectare                          |
|   | M2 = square meter                                      |
|   | plot = total plot                                      |
| Crop Stage Scale                                | BBCH = BBCH uniform plant stages                       |
| Plant-Eval Interval                             | 834 DP-1 = 1 Apr-16-2008                               |
| ARM Action Codes                                | TY3 = $450.4504 * [C6] * (100 - @MVAVGREP([C7])) / 87$ |
|   | T2 = $[C9] - ([C9] * @MVAVGREP([C8]) / 100)$           |
| Footnote 2: Yield adjusted for water and purity |  |

## 4. Trial 2008.544.00 *Dactylis glomerata* (Orchard Grass)

### 4.1 Varieties

| Trt No. | Treatment Name |
|---------|----------------|
| 1       | OBERON         |
| 2       | BARAULA        |
| 3       | INTENSIV       |
| 4       | BARLEMAS       |

### 4.2 Site description

Basic information for trial 2008.544.00 *Dactylis glomerata*

|                      |   |                                 |  |
|----------------------|---|---------------------------------|--|
| <b>Trial host</b>    | Ny Lellinge<br>Gefion   |                                 |  |
| <b>Soil analysis</b> | Coarse sand: 36 %   | Rt: 6,7                         |  |
|                      | Silt: 16,4 %  | Pt: 2,1                         |  |
|                      | Humus: 2,2 %  | Kt: 10                          |  |
|                      | Fine sand: 35,9 %   | Mgt: 4,7                        |  |
|                      | Clay: 9,5 %   |                                 |  |
| <b>Previous crop</b> | Spring barley 2008 <i>Dactylis glomerata</i> 2009   |                                 |  |
| <b>Drilling date</b> | 16-04-2008  | <b>Seed rate</b>                | 8 kg/ha                                |
| <b>Fertilizer</b>    | date<br>type<br>rate  | 25-09-2009<br>NS 28-5<br>240 Kg | 22-03-2010<br>NPKS 22-3-10-5<br>650 kg |
| <b>Pesticides</b>    | 16-09-2009: 0,05 DFF + 1 tbl Express + 1 Boxer<br>05-05-2010: 0,08 Primus +0,05 DFF +1,5 Ariane FG<br>17-05-2010: 1,25 Cycocel + 0,4 Moddus<br>02-06-2010 0,5 Zenit |                                 |  |



% = percent

kg/ha = kilograms per hectare

M2 = square meter

plot = total plot

Crop Stage Scale

BBCH = BBCH uniform plant stages

Plant-Eval Interval

467 DP-1 = 1 Apr-16-2008

832 DP-1 = 1 Apr-16-2008

ARM Action Codes

TY3 =  $457.6659 * [C6] * (100 - @MVAVGREP([C7])) / 87$

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

## 5. Trial comments

### Weather conditions for production of grass for seed in Denmark, 2009-2010

August and September was dry which affected the growth rate of the grasses. October was mild and wet which favoured the grasses.

The winter was colder than normal. Most precipitation fell as snow which covered the ground from mid December until the 1<sup>st</sup> of March. The spring came late as the soil was very cold and wet caused by the long winter. As a result, the average temperatures in spring were lower than what we have seen in the later years. Especially May was cold. The flowering condition for the grasses was average in 2010. The harvest of grass seeds was troublesome. The early crops were harvested under good conditions, but later the summer became very wet which made harvest difficult. All together, conditions for grass seed production for harvest in 2010 were acceptable although below optimum.

### *Poa pratensis* (Kentucky bluegrass)

Differences between varieties in yield were from (average) 1286-1974 kg/ha, with BARIRIS as the lowest yielding and BARON as the highest yielding. There was significant difference between the two varieties. The yield of BARIRIS was statistically similar to the yield of BARIMPALA and the yield of BARON was statistically similar to the yield of BARTENDER.

### *Festuca arundinacea* (Tall fescue)

Differences between varieties in yield were from (average) 927-1982 kg/ha, with BTR 4 (Barverde) as lowest yielding and ANGELA as highest yielding. There was significant difference between the yields of the two varieties. The remaining varieties were statistically similar to ANGELA.

### *Dactylis glomerata* (Orchard grass)

Differences between varieties in yield were from (average) 1260-1896 kg/ha, with Baraula as lowest yielding and OBERON as highest yielding. There was no significant difference between the yields of the varieties.

## 6. Appendix 1. Single plot data

### Variety testing of *Poa pratensis* for Barenbrug

Trial ID: 2008.541.00 Protocol ID: 2008.541.00  
 Location: Ny Lellinge Study Director: Peter Hvid  
 Investigator: Peter Hvid

| Crop Code            | POAPR           | POAPR           | POAPR           | POAPR           |      |
|----------------------|-----------------|-----------------|-----------------|-----------------|------|
| BBCH Scale           | BGRM            | BGRM            | BGRM            | BGRM            |      |
| Crop Scientific Name | Poa pratensis   | Poa pratensis   | Poa pratensis   | Poa pratensis   |      |
| Crop Name            | Kentucky blueg> | Kentucky blueg> | Kentucky blueg> | Kentucky blueg> |      |
| Part Rated           | GRAIN C         | GRAIN C         | GRAIN C         | GRAIN C         |      |
| Rating Date          | Jul-16-2010     | Jul-16-2010     | Jul-16-2010     | Jul-16-2010     |      |
| Rating Type          | YIELD           | MOICON          | WEIGHT LOSS     | YIELD           |      |
| Rating Unit          | KG              | %               | %               | kg/ha           |      |
| Sample Size, Unit    | 21,85 M2        | 1 PLOT          | 1 PLOT          | 1 PLOT          |      |
| Crop Stage Majority  | 91              | 91              | 91              | 91              |      |
| Crop Stage Scale     | BBCH            | BBCH            | BBCH            | BBCH            |      |
| Footnote Number      |                 |                 |                 | 2               |      |
| SE Name              | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     |      |
| ARM Action Codes     |                 |                 |                 | T2              |      |
| Number of Decimals   | 1               | 2               | 2               | 0               |      |
| Trt Treatment No     |                 |                 |                 |                 |      |
| Name                 |                 |                 |                 |                 |      |
| Plot                 | 9               | 10              | 11              | 13              |      |
| 1 BARIMPALA          | 102             | 4,1             | 12,33           | 29,10           | 1341 |
|                      | 301             | 4,7             |                 |                 | 1537 |
|                      | 303             | 5,4             |                 |                 | 1766 |
|                      | 503             | 4,8             |                 |                 | 1570 |
|                      | 701             | 4,1             |                 |                 | 1341 |
| Mean =               |                 | 4,6             | 12,33           | 29,10           | 1511 |
| 2 BARTENDER          | 101             | 4,9             | 16,23           | 18,60           | 1758 |
|                      | 302             | 5,1             |                 |                 | 1829 |
|                      | 403             | 5,6             |                 |                 | 2009 |
|                      | 502             | 5,8             |                 |                 | 2081 |
|                      | 603             | 4,9             |                 |                 | 1758 |
| Mean =               |                 | 5,3             | 16,23           | 18,60           | 1887 |
| 3 BARIRIS            | 201             | 3,3             | 12,12           | 27,20           | 1111 |
|                      | 203             | 4,8             |                 |                 | 1615 |
|                      | 402             | 3,6             |                 |                 | 1212 |
|                      | 501             | 3,5             |                 |                 | 1178 |
|                      | 602             | 3,9             |                 |                 | 1313 |
| Mean =               |                 | 3,8             | 12,12           | 27,20           | 1286 |
| 4 BARON              | 103             | 5,8             | 13,19           | 17,20           | 2193 |
|                      | 202             | 6,4             |                 |                 | 2420 |
|                      | 401             | 4,2             |                 |                 | 1588 |
|                      | 601             | 4,3             |                 |                 | 1626 |
|                      | 702             | 5,4             |                 |                 | 2042 |
| Mean =               |                 | 5,2             | 13,19           | 17,20           | 1974 |

Crop Code  
 POAPR, BGRM, Poa pratensis, = US

Part Rated

GRAIN = grain

C = Crop is Part Rated

Rating Type

YIELD = yield

MOICON = moisture content

Rating Unit

KG = kilogram

% = percent

kg/ha = kilograms per hectare

M2 = square meter

PLOT = total plot

Crop Stage Scale

BBCH = BBCH uniform plant stages

ARM Action Codes

T2 = [C12]-([C12]\*@MVAVGREP([C11])/100)

Footnote 2: Yield adjusted for water and purity

**Variety testing of *Festuca arundinacea***

Trial ID: 2008.543.00

Protocol ID: 2008.543.00

Location: Ny Lellinge

Study Director: Peter Hvid

Investigator: Peter Hvid

| Crop Code            | FESAR           | FESAR           | FESAR           | FESAR           |        |
|----------------------|-----------------|-----------------|-----------------|-----------------|--------|
| BBCH Scale           | BGRM            | BGRM            | BGRM            | BGRM            |        |
| Crop Scientific Name | Festuca arundi> | Festuca arundi> | Festuca arundi> | Festuca arundi> |        |
| Crop Name            | Tall fescue     | Tall fescue     | Tall fescue     | Tall fescue     |        |
| Part Rated           | GRAIN C         | GRAIN C         | GRAIN C         | GRAIN C         |        |
| Rating Date          | Jul-29-2010     | Jul-29-2010     | Jul-29-2010     | Jul-29-2010     |        |
| Rating Type          | YIELD           | MOICON          | WEIGHT LOSS     | YIELD           |        |
| Rating Unit          | KG              | %               | %               | kg/ha           |        |
| Sample Size, Unit    | 22,2 M2         | 1 plot          | 1 plot          | 1 plot          |        |
| Crop Stage Majority  | 91              | 91              | 91              | 91              |        |
| Crop Stage Scale     | BBCH            | BBCH            | BBCH            | BBCH            |        |
| Footnote Number      |                 |                 |                 | 2               |        |
| SE Name              | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     |        |
| ARM Action Codes     |                 |                 |                 | T2              |        |
| Number of Decimals   | 2               | 2               | 1               | 1               |        |
| Trt Treatment        |                 |                 |                 |                 |        |
| No. Name             | Plot            | 6               | 7               | 8               | 10     |
| 1 BARLEROY           | 103             | 5,11            | 16,67           | 17,5            | 1818,9 |
|                      | 201             | 4,42            |                 |                 | 1573,3 |
|                      | 307             | 4,28            |                 |                 | 1523,4 |
|                      | 401             | 4,58            |                 |                 | 1630,2 |
|                      | Mean =          | 4,60            | 16,67           | 17,5            | 1636,5 |
| 2 ANGELA             | 102             | 5,88            | 17,51           | 17,2            | 2079,4 |
|                      | 205             | 4,40            |                 |                 | 1556,0 |
|                      | 303             | 6,85            |                 |                 | 2422,4 |
|                      | 406             | 5,29            |                 |                 | 1870,7 |
|                      | Mean =          | 5,61            | 17,51           | 17,2            | 1982,1 |

|                    |        |      |       |      |        |
|--------------------|--------|------|-------|------|--------|
| 3 BARCESAR         | 107    | 4,88 | 17,21 | 15,8 | 1761,3 |
|                    | 203    | 4,90 |       |      | 1768,5 |
|                    | 305    | 4,49 |       |      | 1620,6 |
|                    | 403    | 5,03 |       |      | 1815,5 |
|                    | Mean = | 4,83 |       |      | 17,21  |
| 4 BTR 4 (Barverde) | 105    | 2,86 | 15,58 | 15,3 | 1058,8 |
|                    | 202    | 2,68 |       |      | 992,2  |
|                    | 306    | 1,92 |       |      | 710,8  |
|                    | 404    | 2,56 |       |      | 947,8  |
|                    | Mean = | 2,51 |       |      | 15,58  |
| 5 Labarinth        | 106    | 4,17 | 20,29 | 15,4 | 1456,0 |
|                    | 204    | 4,79 |       |      | 1672,4 |
|                    | 302    | 4,57 |       |      | 1595,6 |
|                    | 405    | 4,86 |       |      | 1696,9 |
|                    | Mean = | 4,60 |       |      | 20,29  |

Crop Code

FESAR, BGRM, Festuca arundinacea, = US

Part Rated

GRAIN = grain

C = Crop is Part Rated

Rating Type

YIELD = yield

MOICON = moisture content

Rating Unit

KG = kilogram

% = percent

kg/ha = kilograms per hectare

M2 = square meter

plot = total plot

Crop Stage Scale

BBCH = BBCH uniform plant stages

Plant-Eval Interval

834 DP-1 = 1 Apr-16-2008

ARM Action CodesTY3 =  $450.4504 * [C6] * (100 - @MVAVGREP([C7])) / 87$ T2 =  $[C9] - ([C9] * @MVAVGREP([C8]) / 100)$ 

Footnote 2: Yield adjusted for water and purity

**Variety testing of *Dactylis glomerata***

Trial ID: 2008.544.00      Protocol ID: 2008.543.00  
 Location: Ny Lellinge      Study Director: Peter Hvid  
 Investigator: Peter Hvid

| Crop Code            |        | DACGL           | DACGL           | DACGL           | DACGL           |
|----------------------|--------|-----------------|-----------------|-----------------|-----------------|
| BBCH Scale           |        | BGRM            | BGRM            | BGRM            | BGRM            |
| Crop Scientific Name |        | Dactylis glome> | Dactylis glome> | Dactylis glome> | Dactylis glome> |
| Crop Name            |        | Orchard grass   | Orchard grass   | Orchard grass   | Orchard grass   |
| Part Rated           |        | GRAIN -         | GRAIN -         | GRAIN -         | GRAIN -         |
| Rating Date          |        | Jul-27-2009     | Jul-27-2010     | Jul-27-2009     | Jul-27-2009     |
| Rating Type          |        | YIELD           | MOICON          | Weight Loss     | YIELD           |
| Rating Unit          |        | KG              | %               | %               | kg/ha           |
| Sample Size, Unit    |        | 21,85 M2        | 1 plot          | 1 plot          | 1 PLOT          |
| Crop Stage Majority  |        | 91              | 91              | 91              | 91              |
| Crop Stage Scale     |        | BBCH            | BBCH            | BBCH            | BBCH            |
| Footnote Number      |        |                 |                 |                 | 2               |
| SE Name              |        | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     | GRAIN YIELD     |
| ARM Action Codes     |        |                 |                 |                 | T2              |
| Number of Decimals   |        | 2               | 1               | 2               | 1               |
| Trt Treatment        |        |                 |                 |                 |                 |
| No. Name             | Plot   | 6               | 7               | 8               | 10              |
| 1 OBERON             | 101    | 4,48            | 11,3            | 10,81           | 1864,9          |
|                      | 203    | 5,24            |                 |                 | 2181,2          |
|                      | 206    | 4,40            |                 |                 | 1831,6          |
|                      | 305    | 4,10            |                 |                 | 1706,7          |
|                      | Mean = | 4,56            | 11,3            | 10,81           | 1896,1          |
| 2 BARAULA            | 105    | 4,08            | 15,4            | 11,33           | 1609,3          |
|                      | 202    | 4,11            |                 |                 | 1621,1          |
|                      | 207    | 4,89            |                 |                 | 1928,8          |
|                      | 304    | 4,28            |                 |                 | 1688,2          |
|                      | Mean = | 4,34            | 15,4            | 11,33           | 1711,8          |
| 3 INTENSIV           | 103    | 4,57            | 10,2            | 9,09            | 1963,7          |
|                      | 201    | 4,01            |                 |                 | 1723,1          |
|                      | 205    | 4,28            |                 |                 | 1839,1          |
|                      | 302    | 4,35            |                 |                 | 1869,2          |
|                      | Mean = | 4,30            | 10,2            | 9,09            | 1848,8          |
| 4 BARLEMAS           | 104    | 4,75            | 11,5            | 11,60           | 1954,7          |
|                      | 107    | 4,22            |                 |                 | 1736,6          |
|                      | 301    | 5,58            |                 |                 | 2296,2          |
|                      | 306    | 3,54            |                 |                 | 1456,7          |
|                      | Mean = | 4,52            | 11,5            | 11,60           | 1861,0          |

Crop Code  
 DACGL, BGRM, *Dactylis glomerata*, = US  
 Part Rated  
 GRAIN = grain  
 C = Crop is Part Rated  
 Rating Type  
 YIELD = yield  
 MOICON = moisture content

## 7. Appendix 2. Climatic data

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 01.07.2009 | 20.7     | 15.5          | 24.6          | 1.8               | 4.1             |
| 02.07.2009 | 21.2     | 15.5          | 26.0          | 0.0               | 4.8             |
| 03.07.2009 | 20.3     | 13.0          | 25.7          | 0.0               | 3.6             |
| 04.07.2009 | 22.7     | 18.4          | 27.3          | 0.0               | 5.5             |
| 05.07.2009 | 18.1     | 13.3          | 21.1          | 0.2               | 1.6             |
| 06.07.2009 | 18.4     | 14.6          | 22.2          | 1.0               | 3.7             |
| 07.07.2009 | 17.6     | 12.4          | 21.6          | 1.1               | 4.6             |
| 08.07.2009 | 16.9     | 13.4          | 20.7          | 2.1               | 4.4             |
| 09.07.2009 | 15.1     | 11.2          | 18.8          | 0.7               | 4.1             |
| 10.07.2009 | 14.2     | 12.5          | 16.9          | 8.3               | 2.3             |
| 11.07.2009 | 14.9     | 11.0          | 17.7          | 0.7               | 3.7             |
| 12.07.2009 | 16.3     | 14.4          | 18.7          | 4.3               | 3.4             |
| 13.07.2009 | 17.9     | 14.2          | 21.6          | 0.3               | 4.6             |
| 14.07.2009 | 18.8     | 13.3          | 23.7          | 0.0               | 4.0             |
| 15.07.2009 | 20.3     | 14.6          | 25.3          | 0.3               | 4.3             |
| 16.07.2009 | 18.7     | 11.8          | 23.1          | 0.0               | 4.6             |
| 17.07.2009 | 20.1     | 18.1          | 23.2          | 1.2               | 3.7             |
| 18.07.2009 | 17.5     | 15.0          | 20.2          | 5.3               | 1.6             |
| 19.07.2009 | 16.0     | 12.1          | 18.7          | 2.7               | 2.1             |
| 20.07.2009 | 15.5     | 12.8          | 18.4          | 2.7               | 3.3             |
| 21.07.2009 | 16.7     | 11.3          | 20.5          | 0.1               | 3.0             |
| 22.07.2009 | 19.0     | 16.2          | 22.1          | 6.2               | 1.8             |
| 23.07.2009 | 17.9     | 13.3          | 21.6          | 7.6               | 2.2             |
| 24.07.2009 | 16.6     | 12.6          | 20.9          | 4.1               | 3.4             |
| 25.07.2009 | 16.0     | 12.8          | 18.5          | 2.8               | 2.8             |
| 26.07.2009 | 16.3     | 13.9          | 18.7          | 0.5               | 2.8             |
| 27.07.2009 | 19.6     | 15.2          | 24.0          | 0.3               | 3.0             |
| 28.07.2009 | 17.6     | 11.5          | 22.8          | 0.0               | 3.6             |
| 29.07.2009 | 19.8     | 16.3          | 23.1          | 0.0               | 3.6             |
| 30.07.2009 | 16.4     | 11.8          | 20.3          | 3.2               | 3.0             |
| 31.07.2009 | 15.6     | 8.4           | 20.8          | 0.1               | 3.1             |
| 01.08.2009 | 17.9     | 13.5          | 21.4          | 0.0               | 3.9             |
| 02.08.2009 | 20.1     | 16.9          | 24.7          | 1.2               | 3.1             |
| 03.08.2009 | 16.5     | 15.5          | 17.6          | 6.3               | 0.9             |
| 04.08.2009 | 17.4     | 12.5          | 22.1          | 0.6               | 3.1             |
| 05.08.2009 | 19.2     | 13.2          | 24.7          | 0.0               | 4.6             |
| 06.08.2009 | 19.6     | 14.7          | 24.2          | 0.0               | 4.4             |
| 07.08.2009 | 19.9     | 16.6          | 23.9          | 0.0               | 4.5             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 08.08.2009 | 20.9     | 16.5          | 25.3          | 0.0               | 4.3             |
| 09.08.2009 | 21.5     | 17.9          | 26.9          | 0.9               | 3.8             |
| 10.08.2009 | 19.7     | 15.4          | 24.8          | 4.4               | 2.9             |
| 11.08.2009 | 17.7     | 15.2          | 21.1          | 1.9               | 2.2             |
| 12.08.2009 | 16.7     | 13.3          | 19.9          | 1.6               | 2.9             |
| 13.08.2009 | 15.8     | 11.9          | 20.4          | 0.6               | 3.4             |
| 14.08.2009 | 16.2     | 12.8          | 19.8          | 0.9               | 3.8             |
| 15.08.2009 | 17.8     | 13.3          | 21.9          | 4.2               | 2.3             |
| 16.08.2009 | 18.8     | 15.4          | 22.5          | 0.2               | 3.2             |
| 17.08.2009 | 16.5     | 12.8          | 19.8          | 3.7               | 2.2             |
| 18.08.2009 | 15.1     | 9.9           | 19.5          | 0.0               | 3.9             |
| 19.08.2009 | 17.6     | 13.2          | 21.1          | 0.0               | 3.9             |
| 20.08.2009 | 21.2     | 18.6          | 23.5          | 1.0               | 4.2             |
| 21.08.2009 | 18.1     | 13.6          | 21.3          | 0.0               | 1.3             |
| 22.08.2009 | 15.5     | 9.5           | 20.2          | 0.0               | 3.2             |
| 23.08.2009 | 17.2     | 13.4          | 20.6          | 0.0               | 3.1             |
| 24.08.2009 | 18.9     | 16.6          | 22.3          | 0.0               | 2.6             |
| 25.08.2009 | 18.8     | 15.0          | 22.1          | 1.4               | 2.7             |
| 26.08.2009 | 17.2     | 15.0          | 20.7          | 0.0               | 3.0             |
| 27.08.2009 | 20.9     | 16.9          | 25.2          | 0.0               | 3.6             |
| 28.08.2009 | 17.3     | 13.7          | 22.5          | 0.2               | 1.6             |
| 29.08.2009 | 14.7     | 11.8          | 18.1          | 1.4               | 2.8             |
| 30.08.2009 | 14.4     | 11.3          | 17.8          | 1.9               | 2.4             |
| 31.08.2009 | 17.0     | 14.3          | 18.8          | 0.4               | 1.7             |
| 01.09.2009 | 19.6     | 14.9          | 24.4          | 3.8               | 3.6             |
| 02.09.2009 | 16.3     | 13.1          | 18.8          | 0.2               | 2.4             |
| 03.09.2009 | 15.6     | 14.1          | 16.9          | 9.1               | 0.9             |
| 04.09.2009 | 15.3     | 13.6          | 17.5          | 1.9               | 1.7             |
| 05.09.2009 | 13.9     | 11.6          | 15.6          | 2.9               | 1.3             |
| 06.09.2009 | 15.7     | 13.9          | 18.2          | 1.4               | 2.2             |
| 07.09.2009 | 16.4     | 14.3          | 18.3          | 0.0               | 2.4             |
| 08.09.2009 | 18.3     | 14.3          | 23.2          | 0.0               | 3.2             |
| 09.09.2009 | 17.7     | 14.1          | 23.5          | 0.5               | 2.3             |
| 10.09.2009 | 14.6     | 10.1          | 19.2          | 0.1               | 2.4             |
| 11.09.2009 | 14.4     | 9.8           | 19.3          | 0.0               | 2.2             |
| 12.09.2009 | 14.3     | 10.6          | 17.4          | 0.4               | 2.5             |
| 13.09.2009 | 14.5     | 12.6          | 15.9          | 1.0               | 1.7             |
| 14.09.2009 | 14.7     | 12.3          | 17.8          | 0.0               | 2.4             |
| 15.09.2009 | 12.7     | 7.1           | 17.4          | 0.0               | 2.1             |
| 16.09.2009 | 13.0     | 8.0           | 18.2          | 0.0               | 2.5             |
| 17.09.2009 | 11.2     | 5.3           | 17.2          | 0.0               | 2.0             |
| 18.09.2009 | 12.3     | 6.7           | 18.1          | 0.0               | 2.5             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 19.09.2009 | 14.8     | 10.2          | 19.4          | 0.0               | 2.7             |
| 20.09.2009 | 15.3     | 8.9           | 22.1          | 0.0               | 2.4             |
| 21.09.2009 | 14.4     | 8.8           | 17.0          | 0.0               | 2.1             |
| 22.09.2009 | 16.0     | 14.2          | 18.3          | 0.4               | 1.7             |
| 23.09.2009 | 14.0     | 10.4          | 17.5          | 0.2               | 1.5             |
| 24.09.2009 | 13.7     | 10.8          | 17.1          | 0.2               | 1.7             |
| 25.09.2009 | 14.7     | 11.1          | 17.9          | 0.0               | 2.3             |
| 26.09.2009 | 14.9     | 14.1          | 16.2          | 0.0               | 0.7             |
| 27.09.2009 | 15.2     | 14.4          | 16.1          | 0.4               | 0.7             |
| 28.09.2009 | 13.7     | 10.6          | 16.0          | 1.5               | 0.8             |
| 29.09.2009 | 9.3      | 5.6           | 12.6          | 0.2               | 1.9             |
| 30.09.2009 | 10.5     | 5.6           | 12.3          | 0.8               | 1.4             |
| 01.10.2009 | 8.7      | 4.9           | 11.9          | 0.6               | 1.6             |
| 02.10.2009 | 8.0      | 5.8           | 10.9          | 6.9               | 1.5             |
| 03.10.2009 | 11.7     | 9.6           | 12.8          | 15.8              | 0.3             |
| 04.10.2009 | 10.2     | 7.7           | 12.2          | 0.5               | 1.5             |
| 05.10.2009 | 9.6      | 6.9           | 12.5          | 0.0               | 1.6             |
| 06.10.2009 | 12.5     | 5.9           | 14.2          | 3.7               | 1.8             |
| 07.10.2009 | 10.7     | 5.1           | 14.8          | 0.7               | 1.3             |
| 08.10.2009 | 9.0      | 5.7           | 12.6          | 1.2               | 1.0             |
| 09.10.2009 | 7.3      | 3.4           | 11.0          | 0.1               | 1.4             |
| 10.10.2009 | 8.9      | 3.6           | 11.0          | 1.9               | 0.6             |
| 11.10.2009 | 7.8      | 6.1           | 8.5           | 1.0               | 0.2             |
| 12.10.2009 | 5.8      | 3.2           | 8.4           | 1.1               | 1.3             |
| 13.10.2009 | 4.0      | 1.4           | 6.9           | 0.0               | 1.2             |
| 14.10.2009 | 3.8      | 1.4           | 6.7           | 0.0               | 0.9             |
| 15.10.2009 | 3.7      | -0.7          | 7.5           | 0.2               | 1.3             |
| 16.10.2009 | 4.7      | 3.0           | 6.2           | 6.9               | 0.2             |
| 17.10.2009 | 6.0      | 2.3           | 8.5           | 0.1               | 0.8             |
| 18.10.2009 | 5.9      | 1.7           | 8.4           | 0.1               | 1.2             |
| 19.10.2009 | 8.0      | 6.5           | 10.3          | 0.0               | 0.7             |
| 20.10.2009 | 7.2      | 3.4           | 10.4          | 0.0               | 1.2             |
| 21.10.2009 | 7.8      | 6.5           | 10.0          | 0.0               | 0.8             |
| 22.10.2009 | 8.5      | 7.4           | 9.0           | 0.0               | 0.2             |
| 23.10.2009 | 7.8      | 7.3           | 8.6           | 1.6               | 0.2             |
| 24.10.2009 | 7.9      | 7.4           | 8.4           | 2.7               | 0.2             |
| 25.10.2009 | 10.4     | 8.2           | 12.0          | 2.8               | 0.3             |
| 26.10.2009 | 10.7     | 9.6           | 11.8          | 8.0               | 0.3             |
| 27.10.2009 | 8.0      | 5.2           | 10.2          | 0.0               | 0.5             |
| 28.10.2009 | 7.3      | 5.5           | 8.7           | 5.9               | 0.3             |
| 29.10.2009 | 5.6      | 4.2           | 7.2           | 0.0               | 0.4             |
| 30.10.2009 | 6.1      | 4.0           | 8.1           | 0.0               | 0.5             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 31.10.2009 | 5.8      | 5.0           | 7.2           | 0.0               | 0.3             |
| 01.11.2009 | 5.8      | 5.0           | 6.4           | 3.4               | 0.4             |
| 02.11.2009 | 6.2      | 4.5           | 7.0           | 15.9              | 0.1             |
| 03.11.2009 | 5.0      | 4.1           | 6.7           | 1.5               | 0.1             |
| 04.11.2009 | 2.8      | 2.2           | 3.3           | 9.5               | 0.0             |
| 05.11.2009 | 5.7      | 3.0           | 7.2           | 2.6               | 0.2             |
| 06.11.2009 | 7.6      | 7.1           | 8.1           | 0.7               | 0.1             |
| 07.11.2009 | 7.0      | 6.3           | 8.4           | 0.0               | 0.6             |
| 08.11.2009 | 6.5      | 5.6           | 7.1           | 0.5               | 0.1             |
| 09.11.2009 | 5.2      | 4.9           | 5.8           | 9.8               | 0.1             |
| 10.11.2009 | 6.1      | 5.5           | 6.6           | 1.4               | 0.1             |
| 11.11.2009 | 5.4      | 4.4           | 6.2           | 3.5               | 0.1             |
| 12.11.2009 | 4.9      | 4.3           | 5.6           | 1.4               | 0.1             |
| 13.11.2009 | 7.8      | 5.9           | 10.3          | 10.6              | 0.1             |
| 14.11.2009 | 9.6      | 8.7           | 10.4          | 1.6               | 0.3             |
| 15.11.2009 | 8.4      | 6.0           | 10.4          | 4.0               | 0.3             |
| 16.11.2009 | 8.5      | 7.9           | 9.4           | 2.6               | 0.3             |
| 17.11.2009 | 8.9      | 8.4           | 9.5           | 0.0               | 0.2             |
| 18.11.2009 | 8.9      | 8.5           | 9.4           | 8.0               | 0.1             |
| 19.11.2009 | 9.6      | 8.1           | 11.7          | 0.1               | 0.2             |
| 20.11.2009 | 10.7     | 7.7           | 12.9          | 0.1               | 0.6             |
| 21.11.2009 | 8.4      | 7.3           | 10.0          | 0.3               | 0.5             |
| 22.11.2009 | 9.4      | 8.5           | 10.4          | 3.1               | 0.1             |
| 23.11.2009 | 8.3      | 8.0           | 8.9           | 2.4               | 0.1             |
| 24.11.2009 | 8.9      | 7.4           | 10.6          | 3.4               | 0.5             |
| 25.11.2009 | 9.8      | 8.1           | 11.6          | 1.1               | 0.2             |
| 26.11.2009 | 7.8      | 6.3           | 8.8           | 3.4               | 0.1             |
| 27.11.2009 | 6.5      | 5.1           | 7.2           | 2.4               | 0.1             |
| 28.11.2009 | 6.5      | 5.9           | 7.5           | 6.2               | 0.2             |
| 29.11.2009 | 7.2      | 5.8           | 8.1           | 0.4               | 0.3             |
| 30.11.2009 | 5.3      | 3.8           | 6.7           | 0.7               | 0.1             |
| 01.12.2009 | 1.3      | -2.1          | 4.2           | 0.0               | 0.2             |
| 02.12.2009 | 0.5      | -2.0          | 2.1           | 0.3               | 0.2             |
| 03.12.2009 | 5.0      | 3.9           | 5.4           | 1.5               | 0.1             |
| 04.12.2009 | 4.7      | 3.1           | 5.7           | 0.8               | 0.1             |
| 05.12.2009 | 4.0      | 3.4           | 4.4           | 1.0               | 0.2             |
| 06.12.2009 | 5.8      | 4.7           | 7.1           | 5.8               | 0.1             |
| 07.12.2009 | 6.1      | 5.8           | 6.5           | 0.2               | 0.1             |
| 08.12.2009 | 5.4      | 4.1           | 6.2           | 0.0               | 0.2             |
| 09.12.2009 | 5.3      | 4.9           | 5.9           | 0.6               | 0.1             |
| 10.12.2009 | 5.0      | 4.1           | 5.3           | 6.2               | 0.0             |
| 11.12.2009 | 2.8      | 2.4           | 3.5           | 0.1               | 0.2             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 12.12.2009 | 1.0      | -0.2          | 2.2           | 0.0               | 0.1             |
| 13.12.2009 | 0.3      | -1.3          | 1.4           | 0.1               | 0.3             |
| 14.12.2009 | -0.4     | -1.8          | 0.2           | 0.0               | 0.1             |
| 15.12.2009 | 1.2      | -0.3          | 1.9           | 2.2               | 0.1             |
| 16.12.2009 | -0.4     | -2.6          | 1.5           | 6.2               | 0.1             |
| 17.12.2009 | -4.0     | -5.2          | -1.9          | 1.1               | 0.1             |
| 18.12.2009 | -3.0     | -4.0          | -2.3          | 0.3               | 0.1             |
| 19.12.2009 | -5.8     | -7.6          | -4.4          | 0.5               | 0.1             |
| 20.12.2009 | -5.9     | -7.2          | -5.3          | 0.1               | 0.2             |
| 21.12.2009 | -4.2     | -6.7          | -0.3          | 0.0               | 0.1             |
| 22.12.2009 | 0.3      | -1.6          | 1.8           | 2.6               | 0.1             |
| 23.12.2009 | 0.8      | 0.1           | 1.3           | 0.0               | 0.1             |
| 24.12.2009 | 1.0      | -0.8          | 2.3           | 0.8               | 0.1             |
| 25.12.2009 | 2.1      | 0.9           | 3.7           | 9.9               | 0.0             |
| 26.12.2009 | 3.3      | 2.3           | 4.3           | 1.4               | 0.2             |
| 27.12.2009 | 3.3      | 2.8           | 3.9           | 1.2               | 0.0             |
| 28.12.2009 | 1.1      | -1.2          | 3.1           | 0.5               | 0.3             |
| 29.12.2009 | -0.5     | -2.2          | 2.6           | 0.0               | 0.3             |
| 30.12.2009 | -1.4     | -3.1          | -0.1          | 0.0               | 0.1             |
| 31.12.2009 | -4.6     | -7.0          | -2.1          | 0.0               | 0.1             |
| 01.01.2010 | -6.2     | -7.6          | -5.2          | 0.1               | 0.1             |
| 02.01.2010 | -5.4     | -9.6          | -2.9          | 0.4               | 0.2             |
| 03.01.2010 | -7.0     | -9.4          | -5.5          | 0.1               | 0.1             |
| 04.01.2010 | -1.3     | -3.0          | -0.2          | 1.8               | 0.1             |
| 05.01.2010 | -1.9     | -2.9          | -1.5          | 0.7               | 0.1             |
| 06.01.2010 | -3.6     | -5.7          | -2.0          | 0.3               | 0.2             |
| 07.01.2010 | -6.9     | -9.2          | -5.4          | 0.0               | 0.1             |
| 08.01.2010 | -8.0     | -9.4          | -6.5          | 0.0               | 0.2             |
| 09.01.2010 | -2.5     | -5.3          | -0.0          | 0.0               | 0.3             |
| 10.01.2010 | -0.7     | -1.3          | 0.0           | 0.0               | 0.2             |
| 11.01.2010 | -0.5     | -1.3          | 0.1           | 0.4               | 0.2             |
| 12.01.2010 | 0.1      | -0.3          | 1.0           | 1.1               | 0.1             |
| 13.01.2010 | 0.6      | -1.0          | 1.2           | 0.0               | 0.1             |
| 14.01.2010 | -1.2     | -1.5          | -0.9          | 0.0               | 0.1             |
| 15.01.2010 | -1.7     | -2.3          | -1.3          | 0.0               | 0.0             |
| 16.01.2010 | -2.0     | -3.3          | -1.0          | 0.0               | 0.1             |
| 17.01.2010 | -2.0     | -3.0          | -1.5          | 1.7               | 0.0             |
| 18.01.2010 | -1.9     | -2.7          | -1.4          | 0.0               | 0.1             |
| 19.01.2010 | -0.7     | -2.0          | 0.1           | 0.3               | 0.1             |
| 20.01.2010 | -1.3     | -2.7          | -0.2          | 0.1               | 0.1             |
| 21.01.2010 | -1.5     | -3.0          | -0.4          | 0.0               | 0.2             |
| 22.01.2010 | -3.4     | -4.2          | -2.9          | 0.0               | 0.1             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 23.01.2010 | -3.6     | -4.5          | -3.0          | 0.0               | 0.3             |
| 24.01.2010 | -4.1     | -4.5          | -3.5          | 0.0               | 0.3             |
| 25.01.2010 | -5.5     | -9.2          | -2.5          | 0.0               | 0.3             |
| 26.01.2010 | -5.0     | -10.6         | -2.7          | 0.1               | 0.4             |
| 27.01.2010 | -1.2     | -4.1          | 2.1           | 3.9               | 0.1             |
| 28.01.2010 | -1.4     | -5.3          | 1.4           | 0.0               | 0.5             |
| 29.01.2010 | -3.4     | -5.9          | -1.5          | 5.3               | 0.2             |
| 30.01.2010 | -9.5     | -14.5         | -6.0          | 1.3               | 0.3             |
| 31.01.2010 | -1.0     | -3.7          | 0.2           | 1.4               | 0.2             |
| 01.02.2010 | -3.7     | -7.7          | 0.2           | 0.5               | 0.2             |
| 02.02.2010 | -1.6     | -3.9          | 0.3           | 4.3               | 0.2             |
| 03.02.2010 | -2.1     | -5.1          | -1.2          | 0.1               | 0.4             |
| 04.02.2010 | -2.2     | -7.3          | -0.0          | 0.0               | 0.4             |
| 05.02.2010 | 0.1      | -0.9          | 0.7           | 0.0               | 0.3             |
| 06.02.2010 | -1.7     | -2.5          | -1.1          | 0.0               | 0.2             |
| 07.02.2010 | -3.6     | -5.2          | -2.1          | 0.0               | 0.2             |
| 08.02.2010 | -5.9     | -8.0          | -4.7          | 0.0               | 0.3             |
| 09.02.2010 | -3.9     | -5.8          | -3.0          | 0.2               | 0.4             |
| 10.02.2010 | -3.1     | -6.3          | -1.6          | 0.2               | 0.4             |
| 11.02.2010 | -5.4     | -8.2          | -2.5          | 0.0               | 0.6             |
| 12.02.2010 | -4.4     | -8.3          | -2.6          | 0.1               | 0.5             |
| 13.02.2010 | -3.4     | -4.2          | -2.9          | 0.3               | 0.3             |
| 14.02.2010 | -2.7     | -3.6          | -2.1          | 0.2               | 0.4             |
| 15.02.2010 | -1.8     | -3.2          | -0.4          | 0.1               | 0.3             |
| 16.02.2010 | -1.5     | -2.5          | -1.0          | 0.2               | 0.4             |
| 17.02.2010 | -0.8     | -1.1          | -0.7          | 0.0               | 0.3             |
| 18.02.2010 | -0.2     | -0.6          | 0.3           | 1.7               | 0.2             |
| 19.02.2010 | 0.7      | 0.2           | 1.2           | 2.6               | 0.5             |
| 20.02.2010 | 0.1      | -3.7          | 1.6           | 0.4               | 0.5             |
| 21.02.2010 | -7.1     | -11.1         | -4.6          | 0.8               | 0.5             |
| 22.02.2010 | -0.9     | -2.3          | -0.2          | 1.5               | 0.4             |
| 23.02.2010 | -3.4     | -4.5          | -2.2          | 0.0               | 0.5             |
| 24.02.2010 | -1.4     | -4.8          | -0.2          | 1.6               | 0.5             |
| 25.02.2010 | 1.2      | 0.0           | 2.4           | 4.0               | 0.3             |
| 26.02.2010 | 2.1      | 1.5           | 2.5           | 1.3               | 0.6             |
| 27.02.2010 | 2.5      | 2.0           | 2.8           | 0.8               | 0.3             |
| 28.02.2010 | 2.3      | 1.7           | 3.6           | 5.5               | 0.8             |
| 01.03.2010 | 0.9      | 0.6           | 1.3           | 0.4               | 0.3             |
| 02.03.2010 | -0.4     | -3.4          | 2.4           | 1.3               | 0.7             |
| 03.03.2010 | -1.1     | -4.2          | 2.1           | 0.1               | 0.8             |
| 04.03.2010 | -2.5     | -4.8          | -0.2          | 0.0               | 1.0             |
| 05.03.2010 | -3.8     | -8.0          | -0.3          | 0.0               | 0.7             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 06.03.2010 | -2.4     | -5.2          | 1.6           | 0.0               | 0.8             |
| 07.03.2010 | -1.8     | -5.5          | 1.5           | 0.0               | 0.7             |
| 08.03.2010 | -1.9     | -4.2          | 1.9           | 0.0               | 0.8             |
| 09.03.2010 | -2.8     | -4.5          | -1.5          | 0.0               | 0.3             |
| 10.03.2010 | -1.3     | -2.6          | -0.8          | 0.0               | 0.3             |
| 11.03.2010 | 1.2      | -0.3          | 2.0           | 0.0               | 0.4             |
| 12.03.2010 | 1.5      | 0.0           | 3.3           | 0.1               | 0.3             |
| 13.03.2010 | 2.9      | 0.0           | 5.5           | 0.2               | 1.2             |
| 14.03.2010 | 0.3      | -2.2          | 2.7           | 0.3               | 1.0             |
| 15.03.2010 | 0.0      | -3.0          | 3.3           | 0.0               | 1.3             |
| 16.03.2010 | 1.4      | -2.3          | 3.4           | 0.0               | 1.5             |
| 17.03.2010 | 4.0      | 2.4           | 5.8           | 1.2               | 0.9             |
| 18.03.2010 | 7.4      | 3.2           | 10.9          | 0.0               | 1.6             |
| 19.03.2010 | 7.5      | 5.1           | 9.6           | 0.2               | 0.6             |
| 20.03.2010 | 7.8      | 5.8           | 9.2           | 8.2               | 0.3             |
| 21.03.2010 | 6.2      | 4.5           | 7.9           | 0.0               | 1.2             |
| 22.03.2010 | 5.4      | 3.7           | 8.0           | 0.8               | 1.3             |
| 23.03.2010 | 5.7      | 1.3           | 8.3           | 0.1               | 1.2             |
| 24.03.2010 | 4.3      | 0.5           | 7.3           | 0.0               | 1.2             |
| 25.03.2010 | 6.4      | 3.0           | 9.9           | 0.0               | 1.5             |
| 26.03.2010 | 10.1     | 4.7           | 15.5          | 11.6              | 1.8             |
| 27.03.2010 | 6.3      | 4.6           | 7.9           | 1.9               | 0.4             |
| 28.03.2010 | 6.0      | 4.4           | 8.0           | 0.0               | 1.1             |
| 29.03.2010 | 4.3      | -0.2          | 7.0           | 0.0               | 0.7             |
| 30.03.2010 | 6.3      | 3.0           | 8.4           | 3.2               | 2.0             |
| 31.03.2010 | 6.3      | 3.0           | 9.4           | 1.2               | 1.5             |
| 01.04.2010 | 4.6      | 2.8           | 6.6           | 0.7               | 1.3             |
| 02.04.2010 | 5.3      | 2.4           | 10.0          | 0.0               | 2.2             |
| 03.04.2010 | 5.1      | 3.7           | 7.8           | 0.4               | 1.6             |
| 04.04.2010 | 3.9      | 3.2           | 4.9           | 11.2              | 0.4             |
| 05.04.2010 | 5.3      | 2.9           | 7.4           | 0.4               | 0.7             |
| 06.04.2010 | 6.4      | 3.1           | 9.9           | 0.0               | 1.4             |
| 07.04.2010 | 6.5      | 3.7           | 10.9          | 0.0               | 1.7             |
| 08.04.2010 | 7.8      | 4.1           | 11.6          | 0.3               | 1.9             |
| 09.04.2010 | 6.9      | 3.3           | 9.7           | 0.0               | 0.9             |
| 10.04.2010 | 6.9      | 3.9           | 9.4           | 0.0               | 2.4             |
| 11.04.2010 | 7.0      | 2.7           | 12.1          | 0.0               | 2.2             |
| 12.04.2010 | 5.6      | 0.7           | 10.5          | 0.0               | 1.8             |
| 13.04.2010 | 7.6      | 3.3           | 11.9          | 0.0               | 2.6             |
| 14.04.2010 | 6.0      | -0.3          | 11.9          | 0.0               | 1.8             |
| 15.04.2010 | 8.7      | 4.2           | 13.3          | 0.0               | 2.0             |
| 16.04.2010 | 6.9      | 3.7           | 10.5          | 0.0               | 1.9             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 17.04.2010 | 7.4      | 4.7           | 10.8          | 0.0               | 1.7             |
| 18.04.2010 | 7.9      | 2.0           | 12.4          | 0.0               | 2.4             |
| 19.04.2010 | 5.3      | 1.2           | 8.3           | 0.0               | 2.7             |
| 20.04.2010 | 4.3      | 2.3           | 6.3           | 4.2               | 1.2             |
| 21.04.2010 | 3.6      | 1.1           | 5.9           | 2.0               | 1.7             |
| 22.04.2010 | 5.5      | 2.1           | 8.8           | 0.2               | 2.6             |
| 23.04.2010 | 6.1      | 2.4           | 9.1           | 0.3               | 2.0             |
| 24.04.2010 | 5.7      | 1.2           | 10.8          | 0.0               | 2.0             |
| 25.04.2010 | 8.1      | 5.8           | 11.4          | 0.0               | 2.2             |
| 26.04.2010 | 10.6     | 7.9           | 13.4          | 0.2               | 2.4             |
| 27.04.2010 | 9.9      | 6.0           | 12.9          | 0.0               | 1.9             |
| 28.04.2010 | 12.2     | 8.2           | 15.5          | 0.0               | 3.3             |
| 29.04.2010 | 15.4     | 9.9           | 20.0          | 0.1               | 2.8             |
| 30.04.2010 | 10.7     | 7.9           | 12.9          | 4.8               | 0.9             |
| 01.05.2010 | 8.9      | 4.2           | 12.0          | 0.5               | 2.0             |
| 02.05.2010 | 7.8      | 2.9           | 11.3          | 0.0               | 3.1             |
| 03.05.2010 | 7.8      | 6.1           | 10.4          | 0.0               | 2.0             |
| 04.05.2010 | 6.4      | 3.7           | 9.2           | 0.5               | 2.9             |
| 05.05.2010 | 6.6      | 3.1           | 9.2           | 0.0               | 2.3             |
| 06.05.2010 | 6.6      | 4.3           | 8.7           | 1.5               | 2.2             |
| 07.05.2010 | 6.3      | 4.8           | 7.6           | 8.1               | 0.3             |
| 08.05.2010 | 5.9      | 5.2           | 6.7           | 0.1               | 0.6             |
| 09.05.2010 | 6.9      | 3.2           | 8.6           | 1.2               | 1.1             |
| 10.05.2010 | 7.3      | 4.6           | 9.7           | 0.0               | 2.5             |
| 11.05.2010 | 7.4      | 5.8           | 9.1           | 1.7               | 1.4             |
| 12.05.2010 | 6.6      | 5.2           | 7.6           | 20.2              | 0.4             |
| 13.05.2010 | 8.2      | 7.3           | 9.5           | 0.1               | 1.1             |
| 14.05.2010 | 9.0      | 7.6           | 10.7          | 0.1               | 1.1             |
| 15.05.2010 | 8.3      | 7.4           | 9.9           | 19.3              | 0.4             |
| 16.05.2010 | 8.5      | 7.5           | 9.4           | 0.4               | 0.8             |
| 17.05.2010 | 10.3     | 7.2           | 13.8          | 0.0               | 3.7             |
| 18.05.2010 | 12.4     | 9.0           | 15.1          | 0.4               | 2.9             |
| 19.05.2010 | 15.5     | 12.0          | 19.4          | 4.0               | 3.2             |
| 20.05.2010 | 15.3     | 12.2          | 18.9          | 1.0               | 2.6             |
| 21.05.2010 | 15.9     | 12.8          | 19.6          | 0.1               | 3.1             |
| 22.05.2010 | 15.4     | 12.4          | 19.4          | 0.0               | 2.8             |
| 23.05.2010 | 13.5     | 9.6           | 17.0          | 0.0               | 3.1             |
| 24.05.2010 | 10.7     | 7.5           | 14.1          | 2.1               | 1.7             |
| 25.05.2010 | 9.4      | 5.2           | 12.4          | 0.2               | 3.7             |
| 26.05.2010 | 9.9      | 5.7           | 13.5          | 0.0               | 3.7             |
| 27.05.2010 | 9.5      | 3.9           | 13.1          | 0.9               | 2.0             |
| 28.05.2010 | 9.9      | 7.2           | 14.0          | 5.3               | 2.5             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 29.05.2010 | 11.5     | 9.1           | 14.9          | 0.0               | 3.9             |
| 30.05.2010 | 10.4     | 9.5           | 11.2          | 15.4              | 0.9             |
| 31.05.2010 | 12.8     | 10.4          | 16.5          | 0.1               | 2.2             |
| 01.06.2010 | 11.6     | 10.7          | 12.5          | 5.3               | 1.0             |
| 02.06.2010 | 15.4     | 10.5          | 19.4          | 0.0               | 3.2             |
| 03.06.2010 | 13.4     | 8.3           | 17.2          | 0.0               | 3.1             |
| 04.06.2010 | 15.6     | 9.2           | 21.1          | 0.0               | 4.7             |
| 05.06.2010 | 15.7     | 9.1           | 19.7          | 0.0               | 3.3             |
| 06.06.2010 | 15.8     | 12.2          | 20.3          | 9.6               | 4.3             |
| 07.06.2010 | 11.9     | 10.0          | 13.9          | 17.8              | 1.1             |
| 08.06.2010 | 14.2     | 12.0          | 17.5          | 1.4               | 3.4             |
| 09.06.2010 | 14.0     | 12.5          | 16.6          | 3.1               | 2.1             |
| 10.06.2010 | 13.2     | 10.9          | 14.6          | 6.3               | 1.0             |
| 11.06.2010 | 13.9     | 10.2          | 18.5          | 7.7               | 1.8             |
| 12.06.2010 | 12.4     | 10.7          | 15.3          | 1.5               | 3.3             |
| 13.06.2010 | 11.7     | 8.5           | 14.2          | 0.1               | 2.9             |
| 14.06.2010 | 12.0     | 7.0           | 15.0          | 0.0               | 3.1             |
| 15.06.2010 | 11.6     | 7.7           | 15.4          | 1.4               | 3.8             |
| 16.06.2010 | 14.1     | 7.6           | 18.9          | 0.0               | 3.2             |
| 17.06.2010 | 14.2     | 10.4          | 18.4          | 0.0               | 3.2             |
| 18.06.2010 | 12.3     | 8.0           | 16.2          | 0.0               | 3.6             |
| 19.06.2010 | 11.0     | 7.6           | 13.9          | 2.5               | 2.7             |
| 20.06.2010 | 12.5     | 8.1           | 16.3          | 0.6               | 3.3             |
| 21.06.2010 | 13.6     | 8.5           | 17.7          | 0.2               | 3.4             |
| 22.06.2010 | 15.1     | 11.0          | 18.6          | 0.0               | 4.8             |
| 23.06.2010 | 15.2     | 10.6          | 19.6          | 0.0               | 4.3             |
| 24.06.2010 | 17.8     | 13.4          | 22.1          | 0.0               | 5.0             |
| 25.06.2010 | 16.1     | 10.7          | 19.3          | 0.0               | 4.0             |
| 26.06.2010 | 13.2     | 7.6           | 17.4          | 0.0               | 3.0             |
| 27.06.2010 | 15.9     | 9.4           | 20.5          | 0.0               | 4.7             |
| 28.06.2010 | 17.4     | 11.5          | 21.8          | 0.0               | 3.5             |
| 29.06.2010 | 19.4     | 14.7          | 23.5          | 1.0               | 5.2             |
| 30.06.2010 | 15.4     | 9.1           | 19.6          | 0.0               | 3.7             |
| 01.07.2010 | 17.0     | 12.3          | 21.5          | 0.0               | 3.4             |
| 02.07.2010 | 19.8     | 16.9          | 22.6          | 0.0               | 5.1             |
| 03.07.2010 | 20.5     | 14.0          | 25.7          | 0.0               | 5.4             |
| 04.07.2010 | 19.6     | 12.9          | 24.3          | 0.0               | 4.1             |
| 05.07.2010 | 18.8     | 12.1          | 23.2          | 0.2               | 4.2             |
| 06.07.2010 | 15.0     | 10.2          | 18.7          | 0.0               | 2.9             |
| 07.07.2010 | 17.4     | 14.5          | 21.2          | 4.2               | 4.9             |
| 08.07.2010 | 19.7     | 15.3          | 24.3          | 0.1               | 4.0             |
| 09.07.2010 | 22.0     | 18.7          | 25.6          | 0.0               | 4.8             |

| Date       | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 10.07.2010 | 24.1     | 18.6          | 29.7          | 0.0               | 4.9             |
| 11.07.2010 | 23.4     | 16.7          | 28.5          | 1.8               | 4.7             |
| 12.07.2010 | 23.1     | 19.5          | 27.7          | 19.8              | 4.9             |
| 13.07.2010 | 19.0     | 13.6          | 21.8          | 2.6               | 3.1             |
| 14.07.2010 | 22.2     | 19.4          | 24.9          | 0.2               | 5.3             |
| 15.07.2010 | 19.9     | 13.6          | 24.0          | 0.2               | 4.2             |
| 16.07.2010 | 22.0     | 18.6          | 25.7          | 0.6               | 5.4             |
| 17.07.2010 | 19.0     | 13.0          | 22.0          | 0.5               | 2.9             |
| 18.07.2010 | 16.4     | 10.6          | 21.1          | 3.0               | 4.2             |
| 19.07.2010 | 19.0     | 14.7          | 23.5          | 0.0               | 4.3             |
| 20.07.2010 | 20.7     | 15.4          | 24.8          | 0.0               | 3.5             |
| 21.07.2010 | 22.1     | 18.7          | 25.1          | 0.8               | 4.5             |
| 22.07.2010 | 20.4     | 16.4          | 23.7          | 0.0               | 3.3             |
| 23.07.2010 | 19.1     | 16.2          | 23.1          | 0.0               | 3.4             |
| 24.07.2010 | 18.0     | 15.5          | 20.6          | 0.0               | 3.0             |
| 25.07.2010 | 16.5     | 11.9          | 20.9          | 0.0               | 4.2             |
| 26.07.2010 | 17.7     | 13.4          | 21.4          | 0.0               | 4.3             |
| 27.07.2010 | 18.2     | 13.2          | 22.2          | 0.6               | 2.6             |
| 28.07.2010 | 18.9     | 15.8          | 22.3          | 5.5               | 3.3             |
| 29.07.2010 | 17.6     | 14.7          | 21.1          | 8.0               | 2.4             |
| 30.07.2010 | 15.1     | 12.1          | 16.6          | 3.8               | 1.4             |
| 31.07.2010 | 19.7     | 16.4          | 23.9          | 0.4               | 4.0             |
| 01.08.2010 | 19.8     | 17.1          | 23.0          | 1.2               | 2.8             |
| 02.08.2010 | 17.3     | 12.9          | 21.6          | 0.6               | 2.5             |
| 03.08.2010 | 16.2     | 10.0          | 20.2          | 0.0               | 3.1             |
| 04.08.2010 | 17.3     | 14.4          | 20.8          | 4.8               | 3.3             |
| 05.08.2010 | 18.8     | 15.9          | 22.6          | 1.2               | 2.8             |
| 06.08.2010 | 18.0     | 15.4          | 21.8          | 0.1               | 2.6             |
| 07.08.2010 | 20.1     | 16.6          | 24.1          | 0.1               | 3.5             |
| 08.08.2010 | 16.7     | 15.7          | 17.9          | 23.5              | 0.6             |
| 09.08.2010 | 15.4     | 9.8           | 19.5          | 0.0               | 2.8             |
| 10.08.2010 | 18.9     | 15.1          | 21.5          | 0.1               | 4.1             |
| 11.08.2010 | 17.1     | 11.2          | 20.5          | 5.0               | 1.5             |
| 12.08.2010 | 17.1     | 15.7          | 19.4          | 27.8              | 1.5             |
| 13.08.2010 | 17.4     | 14.3          | 21.5          | 0.7               | 3.0             |
| 14.08.2010 | 17.6     | 16.3          | 18.7          | 27.6              | 0.8             |
| 15.08.2010 | 19.8     | 17.8          | 22.1          | 0.5               | 2.1             |
| 16.08.2010 | 18.8     | 15.2          | 21.3          | 2.0               | 1.7             |
| 17.08.2010 | 15.9     | 15.4          | 17.1          | 32.0              | 0.5             |
| 18.08.2010 | 15.4     | 11.7          | 18.2          | 4.3               | 1.3             |
| 19.08.2010 | 16.2     | 12.0          | 20.3          | 0.1               | 3.0             |
| 20.08.2010 | 18.7     | 15.2          | 21.2          | 0.1               | 2.7             |

| <b>Date</b> | <b>Temp, °C</b> | <b>Min. temp, °C</b> | <b>Max. temp, °C</b> | <b>Precipitation, mm</b> | <b>Evaporation, mm</b> |
|-------------|-----------------|----------------------|----------------------|--------------------------|------------------------|
| 21.08.2010  | 20.4            | 18.6                 | 23.1                 | 0.6                      | 3.0                    |
| 22.08.2010  | 17.4            | 11.6                 | 20.9                 | 9.7                      | 1.6                    |
| 23.08.2010  | 17.2            | 13.5                 | 18.6                 | 11.9                     | 1.9                    |
| 24.08.2010  | 15.5            | 12.9                 | 17.9                 | 1.4                      | 3.2                    |
| 25.08.2010  | 14.5            | 10.7                 | 17.6                 | 0.0                      | 2.8                    |
| 26.08.2010  | 13.0            | 8.9                  | 17.1                 | 0.0                      | 2.5                    |
| 27.08.2010  | 13.2            | 8.3                  | 17.6                 | 0.0                      | 2.3                    |
| 28.08.2010  | 13.0            | 7.6                  | 17.7                 | 0.8                      | 2.7                    |
| 29.08.2010  | 12.1            | 10.8                 | 13.3                 | 9.9                      | 1.5                    |
| 30.08.2010  | 12.8            | 8.7                  | 17.0                 | 1.5                      | 2.8                    |
| 31.08.2010  | 13.9            | 10.7                 | 17.9                 | 0.1                      | 3.0                    |