

Trial report

Variety testing of

***Dactylis glomerata, Festuca arundinacea,
Festuca rubra, Lolium perenne and
Poa pratensis***

First year harvest

AGRONOVA - Gefion Field Trials



2009

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Index

| | |
|---|-----------|
| 1. INTRODUCTION | 3 |
| 2. TRIAL 2008.541.00 <i>POA PRATENSIS</i> (KENTUCKY BLUEGRASS)..... | 4 |
| 2.1 VARIETIES..... | 4 |
| 2.2 SITE DESCRIPTION | 4 |
| 2.3 RESULTS | 5 |
| 3. TRIAL 2008.542.00 <i>FESTUCA RUBRA</i> (RED FESCUE)..... | 6 |
| 3.1 VARIETIES..... | 6 |
| 3.2 SITE DESCRIPTION | 6 |
| 3.3 RESULTS | 7 |
| 4. TRIAL 2008.543.00 <i>FESTUCA ARUNDINACEA</i> (TALL FESCUE)..... | 7 |
| 4.1 VARIETIES..... | 8 |
| 4.2 SITE DESCRIPTION | 8 |
| 4.3 RESULTS | 8 |
| 5. TRIAL 2008.544.00 <i>DACTYLIS GLOMERATA</i> (ORCHARD GRASS)..... | 9 |
| 5.1 VARIETIES..... | 10 |
| 5.2 SITE DESCRIPTION | 10 |
| 5.3 RESULTS | 10 |
| 6. TRIAL 2008.545.00 <i>LOLIUM PERENNE</i> (PERENNIAL RYEGRASS)..... | 11 |
| 6.1 VARIETIES..... | 12 |
| 6.2 SITE DESCRIPTION | 12 |
| 6.3 RESULTS | 13 |
| 7. TRIAL COMMENTS..... | 14 |
| 8. APPENDIX 1. SINGLE PLOT DATA | 15 |
| 9. APPENDIX 2. CLIMATIC DATA..... | 23 |

1. Introduction

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

The location of the trials was near Ringsted, Denmark.

| Trial number by Agronova | Species |
|---------------------------------|----------------------------|
| 2008.541.00 | <i>Poa pratensis</i> |
| 2008.542.00 | <i>Festuca rubra</i> |
| 2008.543.00 | <i>Festuca arundinacea</i> |
| 2008.544.00 | <i>Dactylis glomerata</i> |
| 2008.545.00 | <i>Lolium perenne</i> |

The trials have been carried out by the GEP-unit at Agronova, Gefion in 2009 for Barenbrug, Holland.

01 March 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*

| | | | |
|----------------------|--|----------------------------------|--------------------------------------|
| Trial host | Ny Lellinge Gefion | | |
| Soil analysis | 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 % | | |
| Previous crop | Spring barley | | |
| Drilling date | 16-04-2008 | Seed rate | 7 kg/ha |
| Fertilizer | date type rate | 06-10-2008 NS 28-4 70 kg N | 11-03-2009 NPK 22-3-10 90 kg N |
| Pesticides | 15-09-2008: 0,05 DFF + 1 tbl Express 08-05-2009: 0,05 Hussar OD + 0,5 Oil | | |

2.3 Results

To ensure full maturity at harvest all plots were swathed on the 26th of June. The trial was harvested on the 3rd of July under dry conditions.

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 <i>Poa pratensis</i> for Barenbrug | | | | |
|---|--------------|----------------------------|--------------|--------------|
| Trial ID: 2008.541.00 | | Protocol ID: 2008.541.00 | | |
| Location: Ny Lellinge | | Study Director: Peter Hvid | | |
| | | Investigator: Agronova | | |
| Crop Code | POAPR | POAPR | POAPR | POAPR |
| BBCH Scale | BGRM | BGRM | BGRM | BGRM |
| Crop Name | Kentucky bl> | Kentucky bl> | Kentucky bl> | Kentucky bl> |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN C |
| Rating Date | 3/7/09 | 3/7/09 | 3/7/09 | 3/7/09 |
| Rating Data Type | YIELD | MOICON | WEIGHT LOSS | YIELD |
| Rating Unit | KG | % | % | kg/ha |
| Sample Size | 21,85 | 1 | 1 | 1 |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT |
| Crop Stage | 90 | 90 | 90 | 90 |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | 2 |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | 443 DP-1 | 443 DP-1 | 443 DP-1 | 443 DP-1 |
| ARM Action Codes | | | | T2 |
| Number of Decimals | 1 | 2 | 2 | 0 |
| Trt Treatment | | | | |
| No. Name | 1 | 3 | 4 | 6 |
| 1 BARIMPALA | 4,0 a | 7,80 | 31,30 | 1320 a |
| 2 BARTENDER | 3,1 b | 9,10 | 36,40 | 955 b |
| 3 BARIRIS | 3,1 b | 11,30 | 34,56 | 940 b |
| 4 BARON | 3,2 b | 9,60 | 28,61 | 1100 b |
| LSD (P=.05) | 0,58 | . | . | 186,5 |
| Standard Deviation | 0,42 | . | . | 135,3 |
| CV | 12,55 | . | . | 12,54 |
| Bartlett's X2 | 8,279 | . | . | 8,554 |
| P(Bartlett's X2) | 0,041* | . | . | 0,036* |
| Replicate F | 1,575 | | | 1,626 |
| Replicate Prob(F) | 0,2436 | | | 0,2313 |
| Treatment F | 4,712 | | | 8,454 |
| Treatment Prob(F) | 0,0214 | | | 0,0027 |

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.

ARM Action Codes

T2 = [C5]-([C5]*@MVAVGREP([C4])/100)

Footnote 2: Yield adjusted for water and purity

3. Trial 2008.542.00 *Festuca rubra* (Red Fescue)

3.1 Varieties

| Trt No. | Treatment Name |
|---------|----------------|
| 1 | RF 09A |
| 2 | BARUSTIC |
| 3 | JASA |
| 4 | BOSSANOVA |
| 5 | SWING |
| 6 | POLKA |
| 7 | RF09B |
| 8 | BARCAYENNE |
| 9 | BARPEARL |

3.2 Site description

Basic information for trial 2008.542.00 *Festuca rubra*

| | | | |
|----------------------|---|----------------------------------|--------------------------------------|
| Trial host | Ny Lellinge Gefion | | |
| Soil analysis | 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 % | | |
| Previous crop | Spring barley | | |
| Drilling date | 16-04-2008 | Seed rate | 7 kg/ha |
| Fertilizer | date type rate | 06-10-2008 NS 28-4 80 kg N | 11-03-2009 NPK 22-3-10 72 kg N |
| Pesticides | 15-09-2008: 0,05 DFF + 1 tbl Express 12-05-2009: 0,4 Moddus + 1,25 CCC | | |

3.3 Results

The trial was harvested on the 14th 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 <i>Festuca rubra</i> for Barenbrug | | | | |
|---|-------------|----------------------------|-------------|-------------|
| Trial ID: 2008.542.00 | | Protocol ID: 2008.542.00 | | |
| Location: Ny Lellinge | | Study Director: Peter Hvid | | |
| | | Investigator: Agronova | | |
| Crop Code | FESRU | FESRU | FESRU | FESRU |
| BBCH Scale | BGRM | BGRM | BGRM | BGRM |
| Crop Name | Red fescue | Red fescue | Red fescue | Red fescue |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN C |
| Rating Date | 14/7/09 | 14/7/09 | 14/7/09 | 14/7/09 |
| Rating Data Type | YIELD | MOICON | Weight Loss | YIELD |
| Rating Unit | KG | % | % | kg/ha |
| Sample Size | 21,85 | 1 | 1 | 1 |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT |
| Crop Stage | 90 | 90 | 90 | 90 |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | 2 |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | 454 DP-1 | 454 DP-1 | 454 DP-1 | 454 DP-1 |
| ARM Action Codes | | | | T2 |
| Number of Decimals | 2 | 1 | 2 | 1 |
| Trt Treatment | | | | |
| No. Name | 1* | 2 | 3 | 5* |
| 1 RF09A | 5,50 bc | 18,8 | 13,52 | 2031,7 bc |
| 2 BARUSTIC | 7,33 a | 15,5 | 14,51 | 2786,8 a |
| 3 JASA | 6,05 abc | 16,1 | 14,18 | 2291,6 abc |
| 4 BOSSANOVA | 6,08 abc | 14,4 | 9,36 | 2479,5 abc |
| 5 SWING | 5,00 c | 16,2 | 11,71 | 1946,1 c |
| 6 POLKA | 6,33 abc | 16,7 | 8,34 | 2543,8 ab |
| 7 RF09B | 6,80 ab | 15,4 | 10,95 | 2694,9 a |
| 8 BARCAYENNE | 3,50 d | 12,2 | 9,59 | 1461,5 d |
| 9 BARPEARL | 7,00 ab | 16,3 | 10,71 | 2752,0 a |
| LSD (P=.05) | 1,040 | . | . | 411,64 |
| Standard Deviation | 0,700 | . | . | 277,08 |
| CV | 11,75 | . | . | 11,88 |
| Bartlett's X2 | 20,805 | . | . | 20,96 |
| P(Bartlett's X2) | 0,008* | . | . | 0,007* |
| Replicate F | 0,513 | | | 0,494 |
| Replicate Prob(F) | 0,6786 | | | 0,6909 |
| Treatment F | 11,247 | | | 10,290 |
| 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.

* Yield data not homogeneous

ARM Action Codes

T2 = [C4]-([C4]*@MVAVGREP([C3])/100)

Footnote 2: Yield adjusted for water and purity

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4. Trial 2008.543.00 *Festuca arundinacea* (Tall Fescue)

4.1 Varieties

| Trt No. | Treatment Name |
|---------|----------------|
| 1 | BARLEROY |
| 2 | ANGELA |
| 3 | BARCESAR |
| 4 | TF09A |
| 5 | TF09B |
| 6 | TF09C |
| 7 | Labarinth |

4.2 Site description

Basic information for trial 2008.543.00 *Festuca arundinacea*

| | | | |
|----------------------|---|----------------------------------|---------------------------------------|
| Trial host | Ny Lellinge Gefion | | |
| Soil analysis | 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 % | | |
| Previous crop | Spring barley | | |
| Drilling date | 16-04-2008 | Seed rate | 8 kg/ha |
| Fertilizer | date type rate | 06-10-2008 NS 28-4 60 kg N | 11-03-2009 NPK 22-3-10 153 kg N |
| Pesticides | 15-09-2008: 0,05 DFF + 1 tbl Express 12-05-2009: 0,4 Moddus + 1,25 CCC | | |

4.3 Results

To ensure full maturity at harvest all plots were swathed at the 19th of July. The trial was harvested on the 29th of July after a longer period of unstable weather.

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

Protocol ID: 2008.543.00

| | | | | |
|------------------------|-------------|--|-------------|-------------|
| Location: Ny Lellinge | | Study Director: Peter Hvid Investigator: Agronova | | |
| Crop Code | FESAR | FESAR | FESAR | FESAR |
| BBCH Scale | BGRM | BGRM | BGRM | BGRM |
| Crop Name | Tall fescue | Tall fescue | Tall fescue | Tall fescue |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN C |
| Rating Date | 29/7/09 | 29/7/09 | 29/7/09 | 29/7/09 |
| Rating Data Type | YIELD | MOICON | WEIGHT LOSS | YIELD |
| Rating Unit | KG | % | % | kg/ha |
| Sample Size | 23,3 | 1 | 1 | 1 |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT |
| Crop Stage | 90 | 90 | 90 | 90 |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | 2 |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | 469 DP-1 | 469 DP-1 | 469 DP-1 | 469 DP-1 |
| ARM Action Codes | | | | T2 |
| Number of Decimals | 2 | 1 | 2 | 1 |
| Trt Treatment No. Name | 1 | 2 | 3 | 5 |
| 1 BARLEROY | 4,62 a | 14,0 | 9,56 | 1773,6 ab |
| 2 ANGELA | 3,24 b | 11,6 | 11,53 | 1248,1 c |
| 3 BARCESAR | 4,75 a | 12,1 | 7,54 | 1905,4 a |
| 4 TF09A | 3,97 a | 12,0 | 10,59 | 1539,0 b |
| 5 TF09B | 1,22 c | 19,0 | 25,25 | 363,7 d |
| 6 TF09C | 4,41 a | 11,8 | 11,67 | 1695,8 ab |
| 7 Labarinth | 4,57 a | 13,4 | 12,78 | 1702,8 ab |
| LSD (P=.05) | 0,606 | . | . | 230,23 |
| Standard Deviation | 0,408 | . | . | 154,97 |
| CV | 10,67 | . | . | 10,61 |
| Bartlett's X2 | 9,006 | . | . | 9,665 |
| P(Bartlett's X2) | 0,173 | . | . | 0,139 |
| Replicate F | 0,262 | | | 0,222 |
| Replicate Prob(F) | 0,8515 | | | 0,8800 |
| Treatment F | 38,279 | | | 46,203 |
| 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.

| |
|---|
| ARM Action Codes |
| T2 = [C4]-([4]*@MVAVGREP([C3])/100) |
| Footnote 2: Yield adjusted for water and purity |

5. Trial 2008.544.00 *Dactylis glomerata* (Orchard Grass)

5.1 Varieties

| Trt No. | Treatment Name |
|---------|----------------|
| 1 | OBERON |
| 2 | BARAULA |
| 3 | DAC09A |
| 4 | INTENSIV |
| 5 | BARLEMAS |

5.2 Site description

Basic information for trial 2008.544.00 *Dactylis glomerata*

| | | | |
|----------------------|--------------------------------------|----------------------------------|---------------------------------------|
| Trial host | Ny Lellinge Gefion | | |
| Soil analysis | 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 % | | |
| Previous crop | Spring barley | | |
| Drilling date | 16-04-2008 | Seed rate | 8 kg/ha |
| Fertilizer | date type rate | 06-10-2008 NS 28-4 60 kg N | 11-03-2009 NPK 22-3-10 142 kg N |
| Pesticides | 15-09-2008: 0,05 DFF + 1 tbl Express | | |

5.3 Results

To ensure full maturity at harvest all plots were swathed on the 7th of July. The trial was harvested on the 14th of July under wet conditions.

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 <i>Dactylis glomerata</i> | | | | |
|---|--------------|----------------------------|--------------|--------------|
| Trial ID: 2008.544.00 | | Protocol ID: 2008.544.00 | | |
| Location: Ny Lellinge | | Study Director: Peter Hvid | | |
| | | Investigator: Agronova | | |
| Crop Code | DACGL | DACGL | DACGL | DACGL |
| BBCH Scale | BGRM | BGRM | BGRM | BGRM |
| Crop Name | Orchard gra> | Orchard gra> | Orchard gra> | Orchard gra> |
| Part Rated | GRAIN | GRAIN | GRAIN | GRAIN |
| Rating Date | 14/7/09 | 14/7/09 | 14/7/09 | 14/7/09 |
| Rating Data Type | YIELD | MOICON | Weight Loss | YIELD |
| Rating Unit | KG | % | % | kg/ha |
| Sample Size | 21,85 | 1 | 1 | 1 |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT |
| Crop Stage | 90 | 90 | 90 | 90 |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | 2 |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | 454 DP-1 | 454 DP-1 | 454 DP-1 | 454 DP-1 |
| ARM Action Codes | | | | T2 |
| Number of Decimals | 2 | 1 | 2 | 1 |
| Trt Treatment | | | | |
| No. Name | 1 | 2 | 3 | 5 |
| 1 OBERON | 4,09 b | 24,3 | 19,51 | 1310,2 b |
| 2 BARAULA | 4,44 b | 26,1 | 10,58 | 1542,6 a |
| 3 DAC09A | 4,34 b | 28,0 | 18,54 | 1339,0 b |
| 4 INTENSIV | 4,38 b | 25,9 | 14,29 | 1461,7 ab |
| 5 BARLEMAS | 5,10 a | 29,7 | 14,34 | 1615,6 a |
| LSD (P=.05) | 0,494 | . | . | 163,68 |
| Standard Deviation | 0,321 | . | . | 106,23 |
| CV | 7,18 | . | . | 7,31 |
| Bartlett's X2 | 5,331 | . | . | 5,679 |
| P(Bartlett's X2) | 0,255 | . | . | 0,224 |
| Replicate F | 2,163 | | | 2,092 |
| Replicate Prob(F) | 0,1454 | | | 0,1547 |
| Treatment F | 5,548 | | | 6,019 |
| Treatment Prob(F) | 0,0091 | | | 0,0068 |

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.

6. Trial 2008.545.00 *Lolium perenne* (Perennial Ryegrass)

6.1 Varieties

| Trt No. | Treatment name |
|---------|----------------|
| 1 | BARMARGA |
| 2 | BARDORADO |
| 3 | ALTESSE |
| 4 | BARFRISO |
| 5 | BARGOLD |
| 6 | BARTWINGO |
| 7 | ROMANCE |
| 8 | BARFORMA |
| 9 | BARLUPO |
| 10 | PORTSTEWART |
| 11 | TYRELLA |
| 12 | BARMAXIMA |
| 13 | BARSAXO |
| 14 | NAVAN |

6.2 Site description

Basic information for trial 2008.545.00 *Lolium perenne*

| | | | |
|----------------------|--------------------------------------|---------------------------------------|----------|
| Trial host | Ny Lellinge Gefion | | |
| Soil analysis | 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 % | | |
| Previous crop | Spring barley | | |
| Drilling date | 16-04-2008 | Seed rate | 10 kg/ha |
| Fertilizer | date type rate | 11-03-2009 NPK 22-3-10 163 kg N | |
| Pesticides | 15-09-2008: 0,05 DFF + 1 tbl Express | | |

6.3 Results

The trial was harvested on the 7th of August.

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 <i>Lolium perenne</i> for Barenbrug | | | | |
|--|--------------|----------------------------|--------------|--------------|
| Trial ID: 2008.545.00 | | Protocol ID: 2008.545.00 | | |
| Location: Ny Lellinge | | Study Director: Peter Hvid | | |
| | | Investigator: Agronova | | |
| Crop Code | LOLPE | LOLPE | LOLPE | LOLPE |
| BBCH Scale | BGRM | BGRM | BGRM | BGRM |
| Crop Name | Perennial r> | Perennial r> | Perennial r> | Perennial r> |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN |
| Rating Date | 7/8/09 | 7/8/09 | 7/8/09 | 7/8/09 |
| Rating Data Type | YIELD | MOICON | Weight Loss | YIELD |
| Rating Unit | KG | % | % | kg/ha |
| Sample Size | 25,74 | 1 | 1 | 1 |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT |
| Crop Stage | 90 | 90 | 90 | 90 |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | 2 |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | 449 DP-1 | 449 DP-1 | 449 DP-1 | 449 DP-1 |
| ARM Action Codes | | | | T2 |
| Number of Decimals | 2 | 1 | 2 | 1 |
| Trt Treatment | | | | |
| No. Name | 1* | 2 | 3 | 5* |
| 1 BARMARGA | 4,55 b | 22,5 | 21,76 | 1230,7 cd |
| 2 BARDORADO | 4,88 b | 17,7 | 20,38 | 1427,2 bcd |
| 3 ALTESSE | 4,84 b | 19,2 | 16,54 | 1458,2 bcd |
| 4 BARFRISO | 4,82 b | 17,9 | 18,72 | 1436,3 bcd |
| 5 BARGOLD | 4,61 b | 18,5 | 23,42 | 1284,1 cd |
| 6 BARTWINGO | 4,71 b | 19,0 | 18,05 | 1394,7 bcd |
| 7 ROMANCE | 5,41 ab | 15,6 | 19,10 | 1649,5 bc |
| 8 BARFORMA | 4,88 b | 17,5 | 14,38 | 1538,5 bcd |
| 9 BARLUPO | 4,64 b | 19,5 | 17,23 | 1380,6 bcd |
| 10 PORTSTEWART | 5,26 b | 19,9 | 15,63 | 1587,4 bcd |
| 11 TYRELLA | 4,49 b | 24,8 | 21,03 | 1190,0 d |
| 12 BARMAXIMA | 6,33 a | 16,6 | 16,99 | 1957,7 a |
| 13 BARSAXO | 5,40 ab | 16,3 | 14,64 | 1721,2 ab |
| 14 NAVAN | 4,57 b | 18,2 | 17,76 | 1372,9 bcd |
| LSD (P=.05) | 0,805 | . | . | 247,88 |
| Standard Deviation | 0,564 | . | . | 173,46 |
| CV | 11,38 | . | . | 11,77 |
| Bartlett's X2 | 31,477 | . | . | 34,346 |
| P(Bartlett's X2) | 0,003* | . | . | 0,001* |
| Replicate F | 0,222 | | | 0,206 |
| Replicate Prob(F) | 0,8806 | | | 0,8914 |
| Treatment F | 3,149 | | | 5,603 |
| Treatment Prob(F) | 0,0028 | | | 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.
*Yield data not homogeneous

ARM Action Codes

T2 = [C4]-([C4]*@MVAVGREP([C3])/100)

Footnote 2: Yield adjusted for water and purity

7. Trial comments

Weather conditions for production of grass for seed in Denmark, 2008-2009

Generally autumn was warm and sunny with 7 % more precipitation than normal and grasses continued to grow longer than normal. Compared to normal, winter was rather warm with an average temperature of 1,5 °C, with 34 % less precipitation than normal (106 mm). Generally spring was favourable for grass seed production but it was very dry in April and the crops were beginning to be short of water. May received average precipitation and in June a large weather system was responsible for a precipitation event of 88 mm within 24 hours. However, the conditions for flowering were good with long periods of dry weather. The harvest season was very hot and dry in the beginning, but later precipitation occurred which made the harvest difficult to some degree.

All together, conditions at the trial site were favourable for grass seed production except for lack of rain in spring.

Poa pratensis (Kentucky bluegrass)

Differences between varieties in yield were from (average) 940-1320 kg/ha, with Bariris as the lowest yielding and Barimpala as the highest yielding. However, there was no significant difference in yield between Bartender, Bariris and Baron.

Festuca rubra (Red fescue)

Differences between varieties in yield were from (average) 1462-2787 kg/ha, with Barcayenne as lowest yielding and Barustic as highest yielding. The yield of Barustic did not differ significantly from Jasa, Bossanova, Polka, RF09B and Barpearl.

Festuca arundinacea (Tall fescue)

Differences between varieties in yield were from (average) 364-1905 kg/ha, with TF09B as lowest yielding and Barcesar as highest yielding. The yield of Barcesar did not differ significantly from Barleroy, TF09C and Labarinth. BTR 4 yielded significantly lower than all other tested varieties followed by Angela and TF09A.

Dactylis glomerata (Orchardgrass)

Differences between varieties in yield were from (average) 1310-1616 kg/ha, with Oberon as lowest yielding and Barlemas as highest yielding. Baraula and Intensiv did not differ significantly from Barlemas. Intensiv and DAC09A did not differ significantly from Oberon.

Lolium perenne (Perennial ryegrass)

Differences between varieties in yield were from (average) 1190-1958 kg/ha, with Tyrella as lowest yielding and Barmaxima as highest yielding.

Barmaxima yielded together with Barsaxo significantly more than all other tested varieties. The yield of all varieties except Barmaxima, Barsaxo and Tyrella did not differ significantly.

| Variety testing of <i>Poa pratensis</i> for Barenbrug | | | | |
|---|--|----------------------------|--|--|
| Trial ID: 2008.541.00 | | Protocol ID: 2008.541.00 | | |
| Location: Ny Lellinge | | Study Director: Peter Hvid | | |
| | | Investigator: Agronova | | |

| Crop Code | POAPR | POAPR | POAPR | POAPR | |
|---------------------|--------------|--------------|--------------|--------------|------|
| BBCH Scale | BGRM | BGRM | BGRM | BGRM | |
| Crop Name | Kentucky bl> | Kentucky bl> | Kentucky bl> | Kentucky bl> | |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN C | |
| Rating Date | 3/7/09 | 3/7/09 | 3/7/09 | 3/7/09 | |
| Rating Data Type | YIELD | MOICON | WEIGHT LOSS | YIELD | |
| Rating Unit | KG | % | % | kg/ha | |
| Sample Size | 21,85 | 1 | 1 | 1 | |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT | |
| Crop Stage | 90 | 90 | 90 | 90 | |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH | |
| Footnote Number | | | | 2 | |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | |
| Plant-Eval Interval | 443 DP-1 | 443 DP-1 | 443 DP-1 | 443 DP-1 | |
| ARM Action Codes | | | | T2 | |
| Number of Decimals | 1 | 2 | 2 | 0 | |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 3 | 4 | 6 |
| 1 BARIMPALA | 102 | 3,7 | 7,80 | 31,30 | 1233 |
| | 301 | 4,9 | | | 1633 |
| | 303 | 4,2 | | | 1399 |
| | 503 | 3,5 | | | 1166 |
| | 701 | 3,5 | | | 1166 |
| | Mean = | 4,0 | 7,80 | 31,30 | 1320 |
| 2 BARTENDER | 101 | 3,1 | 9,10 | 36,40 | 943 |
| | 302 | 3,2 | | | 973 |
| | 403 | 3,1 | | | 943 |
| | 502 | 3,3 | | | 1004 |
| | 603 | 3,0 | | | 912 |
| | Mean = | 3,1 | 9,10 | 36,40 | 955 |
| 3 BARIRIS | 201 | 4,0 | 11,30 | 34,56 | 1221 |
| | 203 | 2,8 | | | 855 |
| | 402 | 3,0 | | | 916 |
| | 501 | 3,1 | | | 947 |
| | 602 | 2,5 | | | 763 |
| | Mean = | 3,1 | 11,30 | 34,56 | 940 |
| 4 BARON | 103 | 3,3 | 9,60 | 28,61 | 1120 |
| | 202 | 3,4 | | | 1154 |
| | 401 | 3,7 | | | 1256 |
| | 601 | 3,0 | | | 1018 |
| | 702 | 2,8 | | | 951 |
| | Mean = | 3,2 | 9,60 | 28,61 | 1100 |

ARM Action Codes

$$T2 = [C5] - ([C5] * @MVAVGREP([C4]) / 100)$$

Footnote 2: Yield adjusted for water and purity

Variety testing of *Festuca rubra* for Barenbrug

Trial ID: 2008.542.00
Location: Ny Lellinge

Protocol ID: 2008.542.00
Study Director: Peter Hvid
Investigator: Agronova

| Crop Code | FESRU | FESRU | FESRU | FESRU | |
|---------------------|-------------|-------------|-------------|-------------|--------|
| BBCH Scale | BGRM | BGRM | BGRM | BGRM | |
| Crop Name | Red fescue | Red fescue | Red fescue | Red fescue | |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN C | |
| Rating Date | 14/7/09 | 14/7/09 | 14/7/09 | 14/7/09 | |
| Rating Data Type | YIELD | MOICON | Weight Loss | YIELD | |
| Rating Unit | KG | % | % | kg/ha | |
| Sample Size | 21,85 | 1 | 1 | 1 | |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT | |
| Crop Stage | 90 | 90 | 90 | 90 | |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH | |
| Footnote Number | | | | 2 | |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | |
| Plant-Eval Interval | 454 DP-1 | 454 DP-1 | 454 DP-1 | 454 DP-1 | |
| ARM Action Codes | | | | T2 | |
| Number of Decimals | 2 | 1 | 2 | 1 | |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 2 | 3 | 5 |
| 1 RF09A | 103 | | 18,8 | 13,52 | . |
| | 204 | 5,30 | | | 1957,8 |
| | 405 | 5,60 | | | 2068,7 |
| | 506 | 5,60 | | | 2068,7 |
| | Mean = | 5,50 | 18,8 | 13,52 | 2031,7 |
| 2 BARUSTIC | 102 | | 15,5 | 14,51 | . |
| | 304 | 7,00 | | | 2660,1 |
| | 401 | 7,40 | | | 2812,1 |
| | 601 | 7,60 | | | 2888,1 |
| | Mean = | 7,33 | 15,5 | 14,51 | 2786,8 |
| 3 JASA | 202 | 5,70 | 16,1 | 14,18 | 2159,0 |
| | 301 | 6,00 | | | 2272,6 |
| | 501 | 6,40 | | | 2424,2 |
| | 606 | 6,10 | | | 2310,5 |
| | Mean = | 6,05 | 16,1 | 14,18 | 2291,6 |
| 4 BOSSANOVA | 201 | 5,80 | 14,4 | 9,36 | 2367,3 |
| | 306 | 6,70 | | | 2734,6 |
| | 503 | 6,00 | | | 2448,9 |
| | 605 | 5,80 | | | 2367,3 |
| | Mean = | 6,08 | 14,4 | 9,36 | 2479,5 |
| 5 SWING | 104 | | 16,2 | 11,71 | . |
| | 302 | 4,90 | | | 1907,1 |
| | 502 | 5,00 | | | 1946,1 |
| | 603 | 5,10 | | | 1985,0 |
| | Mean = | 5,00 | 16,2 | 11,71 | 1946,1 |
| 6 POLKA | 101 | | 16,7 | 8,34 | . |
| | 205 | 6,00 | | | 2409,9 |
| | 402 | 6,00 | | | 2409,9 |
| | 504 | 7,00 | | | 2811,6 |
| | Mean = | 6,33 | 16,7 | 8,34 | 2543,8 |

| | | | | | |
|---------------------|--------|-------------|-------------|-------------|-------------|
| Crop Code | | FESRU | FESRU | FESRU | FESRU |
| BBCH Scale | | BGRM | BGRM | BGRM | BGRM |
| Crop Name | | Red fescue | Red fescue | Red fescue | Red fescue |
| Part Rated | | GRAIN C | GRAIN C | GRAIN C | GRAIN C |
| Rating Date | | 14/7/09 | 14/7/09 | 14/7/09 | 14/7/09 |
| Rating Data Type | | YIELD | MOICON | Weight Loss | YIELD |
| Rating Unit | | KG | % | % | kg/ha |
| Sample Size | | 21,85 | 1 | 1 | 1 |
| Sample Size Unit | | M2 | PLOT | PLOT | PLOT |
| Crop Stage | | 90 | 90 | 90 | 90 |
| Crop Stage Scale | | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | | 2 |
| SE Name | | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | | 454 DP-1 | 454 DP-1 | 454 DP-1 | 454 DP-1 |
| ARM Action Codes | | | | | T2 |
| Number of Decimals | | 2 | 1 | 2 | 1 |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 2 | 3 | 5 |
| 7 RF09B | 106 | | 15,4 | 10,95 | . |
| | 303 | 6,70 | | | 2655,3 |
| | 404 | 6,00 | | | 2377,9 |
| | 602 | 7,70 | | | 3051,6 |
| | Mean = | 6,80 | 15,4 | 10,95 | 2694,9 |
| 8 Barcayenne | 203 | 3,50 | 12,2 | 9,59 | 1461,5 |
| | 305 | 3,30 | | | 1378,0 |
| | 403 | 4,00 | | | 1670,3 |
| | 604 | 3,20 | | | 1336,3 |
| | Mean = | 3,50 | 12,2 | 9,59 | 1461,5 |
| 9 BARPEARL | 105 | | 16,3 | 10,71 | . |
| | 206 | 6,00 | | | 2358,9 |
| | 406 | 9,00 | | | 3538,3 |
| | 505 | 6,00 | | | 2358,9 |
| | Mean = | 7,00 | 16,3 | 10,71 | 2752,0 |

ARM Action Codes

$$T2 = [C4] - ([C4] * @MVAVGREP([C3]) / 100)$$

Footnote 2: Yield adjusted for water and purity

Plot 101, 102, 103, 104, 105, 106 was omitted from data due to fertilizer problem

Variety testing of *Festuca arundinacea*

Trial ID: 2008.543.00
Location: Ny Lellinge

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

| Crop Code | FESAR | FESAR | FESAR | FESAR | |
|---------------------|-------------|-------------|-------------|-------------|--------|
| BBCH Scale | BGRM | BGRM | BGRM | BGRM | |
| Crop Name | Tall fescue | Tall fescue | Tall fescue | Tall fescue | |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN C | |
| Rating Date | 29/7/09 | 29/7/09 | 29/7/09 | 29/7/09 | |
| Rating Data Type | YIELD | MOICON | WEIGHT LOSS | YIELD | |
| Rating Unit | KG | % | % | kg/ha | |
| Sample Size | 23,3 | 1 | 1 | 1 | |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT | |
| Crop Stage | 90 | 90 | 90 | 90 | |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH | |
| Footnote Number | | | | 2 | |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | |
| Plant-Eval Interval | 469 DP-1 | 469 DP-1 | 469 DP-1 | 469 DP-1 | |
| ARM Action Codes | | | | T2 | |
| Number of Decimals | 2 | 1 | 2 | 1 | |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 2 | 3 | 5 |
| 1 BARLEROY | 103 | 4,73 | 14,0 | 9,56 | 1814,9 |
| | 201 | 4,53 | | | 1738,1 |
| | 307 | 4,51 | | | 1730,5 |
| | 401 | 4,72 | | | 1811,0 |
| | Mean = | 4,62 | 14,0 | 9,56 | 1773,6 |
| 2 ANGELA | 102 | 2,46 | 11,6 | 11,53 | 949,1 |
| | 205 | 3,82 | | | 1473,8 |
| | 303 | 2,92 | | | 1126,6 |
| | 406 | 3,74 | | | 1442,9 |
| | Mean = | 3,24 | 11,6 | 11,53 | 1248,1 |
| 3 BARCESAR | 107 | 5,12 | 12,1 | 7,54 | 2052,8 |
| | 203 | 4,56 | | | 1828,2 |
| | 305 | 4,88 | | | 1956,5 |
| | 403 | 4,45 | | | 1784,1 |
| | Mean = | 4,75 | 12,1 | 7,54 | 1905,4 |
| 4 TF09A | 101 | 4,02 | 12,0 | 10,59 | 1560,3 |
| | 207 | 4,17 | | | 1618,6 |
| | 304 | 3,52 | | | 1366,3 |
| | 402 | 4,15 | | | 1610,8 |
| | Mean = | 3,97 | 12,0 | 10,59 | 1539,0 |
| 5 TF09B | 105 | 1,18 | 19,0 | 25,25 | 352,5 |
| | 202 | 1,16 | | | 346,5 |
| | 306 | 0,87 | | | 259,9 |
| | 404 | 1,66 | | | 495,8 |
| | Mean = | 1,22 | 19,0 | 25,25 | 363,7 |
| 6 TF09C | 104 | 3,96 | 11,8 | 11,67 | 1521,9 |
| | 206 | 4,48 | | | 1721,8 |
| | 301 | 5,11 | | | 1963,9 |
| | 407 | 4,10 | | | 1575,7 |
| | Mean = | 4,41 | 11,8 | 11,67 | 1695,8 |
| 7 Labarinth | 106 | 4,64 | 13,4 | 12,78 | 1728,9 |
| | 204 | 4,30 | | | 1602,2 |
| | 302 | 4,77 | | | 1777,4 |
| | 405 | 4,57 | | | 1702,8 |
| | Mean = | 4,57 | 13,4 | 12,78 | 1702,8 |

ARM Action Codes

T2 = [C4]-([4]*@MVAVGREP([C3])/100)

Footnote 2: Yield adjusted for water and purity

Variety testing of *Dactylis glomerata*

Trial ID: 2008.544.00
Location: Ny Lellinge

Protocol ID: 2008.544.00
Study Director: Peter Hvid
Investigator: Agronova

| Crop Code | | DACGL | DACGL | DACGL | DACGL |
|---------------------|--------|--------------|--------------|--------------|--------------|
| BBCH Scale | | BGRM | BGRM | BGRM | BGRM |
| Crop Name | | Orchard gra> | Orchard gra> | Orchard gra> | Orchard gra> |
| Part Rated | | GRAIN | GRAIN | GRAIN | GRAIN |
| Rating Date | | 14/7/09 | 14/7/09 | 14/7/09 | 14/7/09 |
| Rating Data Type | | YIELD | MOICON | Weight Loss | YIELD |
| Rating Unit | | KG | % | % | kg/ha |
| Sample Size | | 21,85 | 1 | 1 | 1 |
| Sample Size Unit | | M2 | PLOT | PLOT | PLOT |
| Crop Stage | | 90 | 90 | 90 | 90 |
| Crop Stage Scale | | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | | 2 |
| SE Name | | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | | 454 DP-1 | 454 DP-1 | 454 DP-1 | 454 DP-1 |
| ARM Action Codes | | | | | T2 |
| Number of Decimals | | 2 | 1 | 2 | 1 |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 2 | 3 | 5 |
| 1 OBERON | 101 | 4,61 | 24,3 | 19,51 | 1477,6 |
| | 203 | 3,43 | | | 1099,4 |
| | 206 | 4,33 | | | 1387,9 |
| | 305 | 3,98 | | | 1275,7 |
| | Mean = | 4,09 | 24,3 | 19,51 | 1310,2 |
| 2 BARAULA | 105 | 4,15 | 26,1 | 10,58 | 1442,6 |
| | 202 | 4,64 | | | 1613,0 |
| | 207 | 4,83 | | | 1679,0 |
| | 304 | 4,13 | | | 1435,7 |
| | Mean = | 4,44 | 26,1 | 10,58 | 1542,6 |
| 3 DAC09A | 102 | 4,48 | 28,0 | 18,54 | 1382,2 |
| | 106 | 4,41 | | | 1360,6 |
| | 204 | 4,24 | | | 1308,2 |
| | 303 | 4,23 | | | 1305,1 |
| | Mean = | 4,34 | 28,0 | 18,54 | 1339,0 |
| 4 INTENSIV | 103 | 4,83 | 25,9 | 14,29 | 1613,7 |
| | 201 | 4,20 | | | 1403,2 |
| | 205 | 4,61 | | | 1540,2 |
| | 302 | 3,86 | | | 1289,6 |
| | Mean = | 4,38 | 25,9 | 14,29 | 1461,7 |
| 5 BARLEMAS | 104 | 5,42 | 29,7 | 14,34 | 1717,0 |
| | 107 | 4,95 | | | 1568,1 |
| | 301 | 4,95 | | | 1568,1 |
| | 306 | 5,08 | | | 1609,3 |
| | Mean = | 5,10 | 29,7 | 14,34 | 1615,6 |

ARM Action Codes

T2 = [C4]-([C4]*@MVAVGREP([C3])/100)

Footnote 2: Adjusted for water and purity

Variety testing of *Lolium perenne* for Barenbrug

Trial ID: 2008.545.00
Location: Ny Lellinge

Protocol ID: 2008.545.00
Study Director: Peter Hvid
Investigator: Agronova

| Crop Code | | LOLPE | LOLPE | LOLPE | LOLPE |
|---------------------|--------|--------------|--------------|--------------|--------------|
| BBCH Scale | | BGRM | BGRM | BGRM | BGRM |
| Crop Name | | Perennial r> | Perennial r> | Perennial r> | Perennial r> |
| Part Rated | | GRAIN C | GRAIN C | GRAIN C | GRAIN C |
| Rating Date | | 7/8/09 | 7/8/09 | 7/8/09 | 7/8/09 |
| Rating Data Type | | YIELD | MOICON | Weight Loss | YIELD |
| Rating Unit | | KG | % | % | kg/ha |
| Sample Size | | 25,74 | 1 | 1 | 1 |
| Sample Size Unit | | M2 | PLOT | PLOT | PLOT |
| Crop Stage | | 90 | 90 | 90 | 90 |
| Crop Stage Scale | | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | | 2 |
| SE Name | | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | | 449 DP-1 | 449 DP-1 | 449 DP-1 | 449 DP-1 |
| ARM Action Codes | | | | | T2 |
| Number of Decimals | | 2 | 1 | 2 | 1 |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 2 | 3 | 5 |
| 1 BARMARGA | 206 | 4,22 | 22,5 | 21,76 | 1142,7 |
| | 405 | 4,29 | | | 1161,6 |
| | 603 | 5,21 | | | 1410,7 |
| | 707 | 4,46 | | | 1207,6 |
| | Mean = | 4,55 | 22,5 | 21,76 | 1230,7 |
| 2 BARDORADO | 101 | 4,36 | 17,7 | 20,38 | 1275,8 |
| | 402 | 4,90 | | | 1433,8 |
| | 505 | 5,23 | | | 1530,4 |
| | 703 | 5,02 | | | 1468,9 |
| | Mean = | 4,88 | 17,7 | 20,38 | 1427,2 |
| 3 ALTESSE | 204 | 4,99 | 19,2 | 16,54 | 1502,7 |
| | 407 | 4,36 | | | 1313,0 |
| | 605 | 5,15 | | | 1550,8 |
| | 801 | 4,87 | | | 1466,5 |
| | Mean = | 4,84 | 19,2 | 16,54 | 1458,2 |
| 4 BARFRISO | 106 | 4,48 | 17,9 | 18,72 | 1335,0 |
| | 307 | 4,92 | | | 1466,1 |
| | 507 | 4,50 | | | 1340,9 |
| | 803 | 5,38 | | | 1603,2 |
| | Mean = | 4,82 | 17,9 | 18,72 | 1436,3 |
| 5 BARGOLD | 105 | 4,64 | 18,5 | 23,42 | 1293,2 |
| | 305 | 4,52 | | | 1259,7 |
| | 606 | 4,45 | | | 1240,2 |
| | 806 | 4,82 | | | 1343,4 |
| | Mean = | 4,61 | 18,5 | 23,42 | 1284,1 |
| 6 BARTWINGO | 205 | 4,89 | 19,0 | 18,05 | 1449,5 |
| | 401 | 4,64 | | | 1375,4 |
| | 503 | 4,77 | | | 1413,9 |
| | 702 | 4,52 | | | 1339,8 |
| | Mean = | 4,71 | 19,0 | 18,05 | 1394,7 |

| | | | | | |
|---------------------|--------|--------------|--------------|--------------|--------------|
| Crop Code | | LOLPE | LOLPE | LOLPE | LOLPE |
| BBCH Scale | | BGRM | BGRM | BGRM | BGRM |
| Crop Name | | Perennial r> | Perennial r> | Perennial r> | Perennial r> |
| Part Rated | | GRAIN C | GRAIN C | GRAIN C | GRAIN |
| Rating Date | | 7/8/09 | 7/8/09 | 7/8/09 | 7/8/09 |
| Rating Data Type | | YIELD | MOICON | Weight Loss | YIELD |
| Rating Unit | | KG | % | % | kg/ha |
| Sample Size | | 25,74 | 1 | 1 | 1 |
| Sample Size Unit | | M2 | PLOT | PLOT | PLOT |
| Crop Stage | | 90 | 90 | 90 | 90 |
| Crop Stage Scale | | BBCH | BBCH | BBCH | BBCH |
| Footnote Number | | | | | 2 |
| SE Name | | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD |
| Plant-Eval Interval | | 449 DP-1 | 449 DP-1 | 449 DP-1 | 449 DP-1 |
| ARM Action Codes | | | | | T2 |
| Number of Decimals | | 2 | 1 | 2 | 1 |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 2 | 3 | 5 |
| 7 ROMANCE | 103 | 5,43 | 15,6 | 19,10 | 1655,6 |
| | 302 | 5,15 | | | 1570,3 |
| | 501 | 4,95 | | | 1509,3 |
| | 802 | 6,11 | | | 1863,0 |
| | Mean = | 5,41 | 15,6 | 19,10 | 1649,5 |
| 8 BARFORMA | 107 | 4,81 | 17,5 | 14,38 | 1517,2 |
| | 304 | 5,01 | | | 1580,3 |
| | 602 | 4,79 | | | 1510,9 |
| | 705 | 4,90 | | | 1545,6 |
| | Mean = | 4,88 | 17,5 | 14,38 | 1538,5 |
| 9 BARLUPO | 201 | 4,17 | 19,5 | 17,23 | 1240,7 |
| | 306 | 5,05 | | | 1502,6 |
| | 506 | 4,72 | | | 1404,4 |
| | 804 | 4,62 | | | 1374,6 |
| | Mean = | 4,64 | 19,5 | 17,23 | 1380,6 |
| 10 PORTSTEWART | 203 | 5,83 | 19,9 | 15,63 | 1759,4 |
| | 404 | 4,99 | | | 1505,9 |
| | 607 | 4,81 | | | 1451,6 |
| | 805 | 5,41 | | | 1632,6 |
| | Mean = | 5,26 | 19,9 | 15,63 | 1587,4 |
| 11 TYRELLA | 207 | 4,16 | 24,8 | 21,03 | 1103,2 |
| | 303 | 4,74 | | | 1257,0 |
| | 604 | 4,73 | | | 1254,3 |
| | 807 | 4,32 | | | 1145,6 |
| | Mean = | 4,49 | 24,8 | 21,03 | 1190,0 |
| 12 BARMAXIMA | 202 | 5,87 | 16,6 | 16,99 | 1814,7 |
| | 403 | 7,97 | | | 2463,9 |
| | 601 | 5,79 | | | 1790,0 |
| | 704 | 5,70 | | | 1762,2 |
| | Mean = | 6,33 | 16,6 | 16,99 | 1957,7 |
| 13 BARSAXO | 104 | 6,42 | 16,3 | 14,64 | 2048,3 |
| | 301 | 3,60 | | | 1148,6 |
| | 504 | 5,84 | | | 1863,2 |
| | 701 | 5,72 | | | 1824,9 |
| | Mean = | 5,40 | 16,3 | 14,64 | 1721,2 |

| | | | | | |
|---------------------|--------------|--------------|--------------|--------------|--------|
| Crop Code | LOLPE | LOLPE | LOLPE | LOLPE | |
| BBCH Scale | BGRM | BGRM | BGRM | BGRM | |
| Crop Name | Perennial r> | Perennial r> | Perennial r> | Perennial r> | |
| Part Rated | GRAIN C | GRAIN C | GRAIN C | GRAIN | |
| Rating Date | 7/8/09 | 7/8/09 | 7/8/09 | 7/8/09 | |
| Rating Data Type | YIELD | MOICON | Weight Loss | YIELD | |
| Rating Unit | KG | % | % | kg/ha | |
| Sample Size | 25,74 | 1 | 1 | 1 | |
| Sample Size Unit | M2 | PLOT | PLOT | PLOT | |
| Crop Stage | 90 | 90 | 90 | 90 | |
| Crop Stage Scale | BBCH | BBCH | BBCH | BBCH | |
| Footnote Number | | | | 2 | |
| SE Name | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | GRAIN YIELD | |
| Plant-Eval Interval | 449 DP-1 | 449 DP-1 | 449 DP-1 | 449 DP-1 | |
| ARM Action Codes | | | | T2 | |
| Number of Decimals | 2 | 1 | 2 | 1 | |
| Trt Treatment | | | | | |
| No. Name | Plot | 1 | 2 | 3 | 5 |
| 14 NAVAN | 102 | 4,27 | 18,2 | 17,76 | 1282,7 |
| | 406 | 4,71 | | | 1414,9 |
| | 502 | 4,37 | | | 1312,8 |
| | 706 | 4,93 | | | 1481,0 |
| Mean = | | 4,57 | 18,2 | 17,76 | 1372,9 |

ARM Action Codes

$$T2 = [C4] - ([C4] * @MVAVGREP([C3]) / 100)$$

Footnote 2: Yield adjusted for water and purity

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 01.07.2008 | 15.2 | 9.0 | 19.7 | 0.0 | 4.2 |
| 02.07.2008 | 17.5 | 13.2 | 21.5 | 0.0 | 3.4 |
| 03.07.2008 | 19.1 | 12.6 | 24.4 | 0.0 | 3.5 |
| 04.07.2008 | 17.7 | 11.4 | 23.3 | 0.0 | 3.4 |
| 05.07.2008 | 20.7 | 15.6 | 25.7 | 0.2 | 5.1 |
| 06.07.2008 | 18.6 | 13.7 | 23.6 | 5.3 | 3.6 |
| 07.07.2008 | 17.1 | 12.0 | 20.6 | 1.5 | 4.0 |
| 08.07.2008 | 15.6 | 11.7 | 18.5 | 8.9 | 2.7 |
| 09.07.2008 | 16.2 | 12.6 | 20.2 | 1.4 | 4.2 |
| 10.07.2008 | 17.5 | 16.0 | 20.3 | 15.1 | 3.2 |
| 11.07.2008 | 17.6 | 13.3 | 20.8 | 0.4 | 3.7 |
| 12.07.2008 | 15.6 | 9.8 | 20.1 | 0.8 | 4.0 |
| 13.07.2008 | 16.4 | 13.2 | 19.9 | 0.1 | 4.7 |
| 14.07.2008 | 16.6 | 14.4 | 18.7 | 0.2 | 2.9 |
| 15.07.2008 | 18.8 | 15.1 | 22.1 | 0.1 | 3.1 |
| 16.07.2008 | 15.4 | 11.8 | 18.7 | 0.7 | 3.2 |
| 17.07.2008 | 15.3 | 13.0 | 19.1 | 2.5 | 2.9 |
| 18.07.2008 | 15.5 | 13.2 | 18.7 | 3.1 | 2.3 |
| 19.07.2008 | 16.0 | 14.3 | 18.5 | 6.2 | 2.1 |
| 20.07.2008 | 14.3 | 10.4 | 18.0 | 0.6 | 3.7 |
| 21.07.2008 | 13.2 | 10.4 | 15.6 | 4.4 | 2.0 |
| 22.07.2008 | 16.2 | 10.3 | 21.0 | 0.0 | 4.3 |
| 23.07.2008 | 15.7 | 10.4 | 19.9 | 0.0 | 2.7 |
| 24.07.2008 | 19.5 | 15.6 | 23.9 | 0.0 | 3.3 |
| 25.07.2008 | 20.0 | 15.1 | 24.7 | 0.0 | 3.3 |
| 26.07.2008 | 20.7 | 15.7 | 26.1 | 0.0 | 3.4 |
| 27.07.2008 | 20.9 | 14.2 | 26.7 | 0.0 | 3.3 |
| 28.07.2008 | 21.0 | 13.9 | 26.5 | 0.0 | 3.3 |
| 29.07.2008 | 21.1 | 16.0 | 26.1 | 0.0 | 3.3 |
| 30.07.2008 | 19.0 | 12.7 | 23.5 | 0.0 | 3.2 |
| 31.07.2008 | 20.2 | 13.8 | 25.8 | 0.0 | 3.2 |
| 01.08.2008 | 21.6 | 17.1 | 25.8 | 3.6 | 4.4 |
| 02.08.2008 | 19.2 | 16.6 | 22.7 | 2.0 | 3.7 |
| 03.08.2008 | 18.6 | 16.1 | 22.0 | 16.8 | 2.8 |
| 04.08.2008 | 16.1 | 14.7 | 18.2 | 28.0 | 2.0 |
| 05.08.2008 | 16.2 | 11.9 | 19.1 | 12.9 | 2.4 |
| 06.08.2008 | 17.1 | 16.1 | 18.9 | 13.8 | 1.7 |
| 07.08.2008 | 20.8 | 17.8 | 25.7 | 18.8 | 4.1 |
| 08.08.2008 | 17.4 | 14.3 | 19.7 | 4.9 | 2.4 |
| 09.08.2008 | 16.5 | 13.4 | 20.1 | 5.0 | 3.5 |
| 10.08.2008 | 15.9 | 13.5 | 17.9 | 3.8 | 0.8 |
| 11.08.2008 | 17.6 | 14.6 | 21.2 | 1.4 | 3.5 |
| 12.08.2008 | 16.8 | 14.3 | 18.1 | 1.9 | 1.4 |
| 13.08.2008 | 16.8 | 13.9 | 20.7 | 3.0 | 3.1 |
| 14.08.2008 | 15.8 | 12.4 | 19.2 | 2.9 | 2.6 |
| 15.08.2008 | 15.9 | 11.4 | 19.3 | 0.0 | 2.7 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 16.08.2008 | 16.7 | 12.8 | 20.9 | 0.2 | 3.4 |
| 17.08.2008 | 15.2 | 9.7 | 19.9 | 0.0 | 3.5 |
| 18.08.2008 | 15.6 | 13.1 | 18.3 | 1.1 | 1.8 |
| 19.08.2008 | 18.3 | 15.5 | 21.9 | 0.6 | 2.5 |
| 20.08.2008 | 17.3 | 15.3 | 19.7 | 1.7 | 2.1 |
| 21.08.2008 | 17.3 | 15.3 | 19.7 | 1.2 | 2.8 |
| 22.08.2008 | 17.2 | 14.2 | 20.8 | 12.7 | 2.9 |
| 23.08.2008 | 14.6 | 14.1 | 15.1 | 27.9 | 0.3 |
| 24.08.2008 | 15.9 | 14.1 | 18.2 | 0.6 | 2.3 |
| 25.08.2008 | 16.2 | 14.2 | 19.0 | 0.2 | 1.6 |
| 26.08.2008 | 17.5 | 15.9 | 20.6 | 4.3 | 1.2 |
| 27.08.2008 | 16.7 | 14.9 | 17.7 | 2.8 | 0.8 |
| 28.08.2008 | 16.2 | 14.7 | 18.1 | 3.3 | 2.2 |
| 29.08.2008 | 14.5 | 9.3 | 18.6 | 0.0 | 3.1 |
| 30.08.2008 | 15.0 | 9.3 | 20.0 | 0.0 | 2.3 |
| 31.08.2008 | 16.8 | 13.2 | 20.0 | 0.0 | 2.3 |
| 01.09.2008 | 16.5 | 12.3 | 18.6 | 0.1 | 2.3 |
| 02.09.2008 | 17.3 | 14.0 | 19.3 | 1.3 | 2.4 |
| 03.09.2008 | 14.2 | 11.4 | 16.8 | 2.5 | 1.8 |
| 04.09.2008 | 14.9 | 12.2 | 18.0 | 0.1 | 2.7 |
| 05.09.2008 | 16.3 | 13.5 | 19.0 | 9.4 | 2.7 |
| 06.09.2008 | 17.7 | 14.7 | 20.8 | 0.8 | 2.0 |
| 07.09.2008 | 16.7 | 13.1 | 20.8 | 0.1 | 2.3 |
| 08.09.2008 | 15.9 | 13.8 | 18.4 | 1.8 | 2.0 |
| 09.09.2008 | 15.4 | 11.8 | 18.2 | 0.2 | 2.2 |
| 10.09.2008 | 15.4 | 10.6 | 18.4 | 0.4 | 1.0 |
| 11.09.2008 | 14.7 | 12.0 | 17.4 | 0.0 | 1.3 |
| 12.09.2008 | 12.5 | 10.3 | 14.5 | 0.0 | 1.4 |
| 13.09.2008 | 12.0 | 8.8 | 15.5 | 0.0 | 2.6 |
| 14.09.2008 | 12.4 | 8.7 | 15.4 | 0.0 | 2.3 |
| 15.09.2008 | 12.2 | 10.0 | 14.5 | 0.0 | 2.4 |
| 16.09.2008 | 10.6 | 7.7 | 12.5 | 0.7 | 1.6 |
| 17.09.2008 | 10.7 | 7.9 | 13.5 | 0.1 | 2.1 |
| 18.09.2008 | 9.5 | 7.5 | 11.8 | 0.0 | 1.5 |
| 19.09.2008 | 10.0 | 6.5 | 13.7 | 0.0 | 1.5 |
| 20.09.2008 | 12.3 | 9.7 | 16.2 | 0.2 | 1.3 |
| 21.09.2008 | 12.7 | 10.9 | 15.4 | 0.0 | 2.0 |
| 22.09.2008 | 11.8 | 10.3 | 13.3 | 2.5 | 0.5 |
| 23.09.2008 | 13.2 | 11.1 | 15.9 | 0.2 | 1.3 |
| 24.09.2008 | 11.9 | 9.6 | 15.7 | 0.0 | 1.8 |
| 25.09.2008 | 9.6 | 5.2 | 15.1 | 0.0 | 1.6 |
| 26.09.2008 | 12.4 | 5.9 | 16.4 | 0.0 | 2.0 |
| 27.09.2008 | 13.8 | 11.1 | 17.5 | 0.1 | 2.2 |
| 28.09.2008 | 11.8 | 8.8 | 14.5 | 0.0 | 1.7 |
| 29.09.2008 | 11.2 | 8.6 | 13.9 | 0.5 | 1.5 |
| 30.09.2008 | 10.6 | 9.3 | 12.5 | 6.4 | 1.0 |
| 01.10.2008 | 9.6 | 8.3 | 11.1 | 7.4 | 0.8 |
| 02.10.2008 | 10.6 | 9.3 | 12.5 | 2.9 | 1.3 |
| 03.10.2008 | 10.1 | 8.9 | 12.0 | 1.1 | 1.1 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 04.10.2008 | 9.0 | 6.8 | 11.3 | 6.0 | 1.7 |
| 05.10.2008 | 8.3 | 5.7 | 10.4 | 8.3 | 0.3 |
| 06.10.2008 | 8.0 | 3.0 | 13.9 | 0.0 | 1.1 |
| 07.10.2008 | 10.0 | 2.8 | 13.0 | 0.9 | 1.7 |
| 08.10.2008 | 12.2 | 10.0 | 13.6 | 0.2 | 1.5 |
| 09.10.2008 | 11.4 | 9.0 | 14.0 | 0.1 | 1.5 |
| 10.10.2008 | 12.6 | 10.6 | 14.1 | 0.1 | 1.0 |
| 11.10.2008 | 13.1 | 11.8 | 14.3 | 0.4 | 0.7 |
| 12.10.2008 | 12.6 | 10.5 | 14.9 | 0.1 | 1.1 |
| 13.10.2008 | 13.9 | 10.8 | 15.9 | 1.2 | 1.1 |
| 14.10.2008 | 11.0 | 8.0 | 14.7 | 0.1 | 1.3 |
| 15.10.2008 | 11.8 | 9.7 | 13.1 | 9.1 | 0.3 |
| 16.10.2008 | 8.7 | 7.1 | 12.0 | 3.7 | 0.6 |
| 17.10.2008 | 8.2 | 5.9 | 11.8 | 0.0 | 1.2 |
| 18.10.2008 | 9.7 | 7.0 | 10.5 | 4.8 | 0.4 |
| 19.10.2008 | 11.3 | 9.2 | 12.5 | 1.0 | 1.3 |
| 20.10.2008 | 12.0 | 10.5 | 13.1 | 0.2 | 1.2 |
| 21.10.2008 | 9.8 | 6.7 | 13.2 | 2.1 | 0.3 |
| 22.10.2008 | 8.3 | 6.2 | 10.6 | 0.8 | 0.6 |
| 23.10.2008 | 9.2 | 5.0 | 11.6 | 0.3 | 1.2 |
| 24.10.2008 | 8.9 | 7.4 | 9.8 | 3.5 | 0.3 |
| 25.10.2008 | 9.6 | 5.9 | 12.1 | 1.3 | 1.1 |
| 26.10.2008 | 10.3 | 9.4 | 11.2 | 7.7 | 0.1 |
| 27.10.2008 | 7.6 | 5.5 | 9.7 | 1.1 | 0.5 |
| 28.10.2008 | 6.3 | 3.8 | 9.1 | 1.6 | 0.8 |
| 29.10.2008 | 3.7 | 0.6 | 7.6 | 0.0 | 0.5 |
| 30.10.2008 | 4.2 | 2.9 | 4.9 | 1.6 | 0.1 |
| 31.10.2008 | 3.2 | -0.4 | 7.6 | 0.2 | 0.9 |
| 01.11.2008 | 5.0 | 1.6 | 6.3 | 0.0 | 0.3 |
| 02.11.2008 | 8.3 | 6.3 | 8.9 | 0.1 | 0.4 |
| 03.11.2008 | 8.7 | 7.9 | 9.9 | 0.1 | 0.4 |
| 04.11.2008 | 8.6 | 8.5 | 8.7 | 0.5 | 0.1 |
| 05.11.2008 | 7.8 | 7.2 | 8.5 | 0.1 | 0.1 |
| 06.11.2008 | 9.1 | 8.4 | 9.8 | 0.2 | 0.1 |
| 07.11.2008 | 8.9 | 7.9 | 9.9 | 6.5 | 0.1 |
| 08.11.2008 | 9.1 | 7.9 | 10.8 | 0.1 | 0.6 |
| 09.11.2008 | 8.1 | 7.1 | 9.3 | 3.0 | 0.3 |
| 10.11.2008 | 10.1 | 8.3 | 13.0 | 9.7 | 0.3 |
| 11.11.2008 | 8.9 | 7.5 | 10.5 | 4.6 | 0.2 |
| 12.11.2008 | 7.7 | 5.5 | 8.6 | 1.1 | 0.2 |
| 13.11.2008 | 7.4 | 5.1 | 9.1 | 2.7 | 0.5 |
| 14.11.2008 | 10.1 | 7.1 | 11.6 | 3.1 | 0.1 |
| 15.11.2008 | 9.8 | 8.1 | 10.9 | 0.5 | 0.1 |
| 16.11.2008 | 5.5 | 1.1 | 7.7 | 1.3 | 0.4 |
| 17.11.2008 | 3.4 | -0.1 | 6.3 | 0.3 | 0.5 |
| 18.11.2008 | 4.8 | 2.3 | 6.9 | 7.1 | 0.1 |
| 19.11.2008 | 8.1 | 3.5 | 9.7 | 3.4 | 0.1 |
| 20.11.2008 | 5.4 | 1.5 | 8.1 | 0.6 | 0.4 |
| 21.11.2008 | 0.5 | -1.3 | 2.9 | 1.6 | 0.5 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 22.11.2008 | 0.5 | -0.9 | 1.5 | 0.3 | 0.4 |
| 23.11.2008 | -1.5 | -4.5 | 1.4 | 0.8 | 0.3 |
| 24.11.2008 | -0.4 | -3.6 | 1.7 | 1.3 | 0.4 |
| 25.11.2008 | 0.7 | -2.6 | 2.3 | 0.3 | 0.3 |
| 26.11.2008 | 7.0 | 2.9 | 8.8 | 0.6 | 0.1 |
| 27.11.2008 | 7.6 | 7.0 | 8.6 | 0.3 | 0.1 |
| 28.11.2008 | 4.9 | 3.4 | 6.4 | 0.4 | 0.2 |
| 29.11.2008 | 2.7 | 1.3 | 4.5 | 6.4 | 0.0 |
| 30.11.2008 | 3.0 | 1.7 | 4.1 | 0.8 | 0.1 |
| 01.12.2008 | 3.7 | 2.3 | 4.6 | 16.3 | 0.1 |
| 02.12.2008 | 3.6 | 3.0 | 4.4 | 9.4 | 0.0 |
| 03.12.2008 | 1.2 | 0.2 | 2.8 | 4.6 | 0.1 |
| 04.12.2008 | 2.7 | 0.3 | 4.4 | 2.7 | 0.1 |
| 05.12.2008 | 4.7 | 4.4 | 5.4 | 2.7 | 0.2 |
| 06.12.2008 | 4.0 | 3.0 | 5.1 | 0.4 | 0.1 |
| 07.12.2008 | 3.4 | 1.4 | 4.6 | 0.4 | 0.2 |
| 08.12.2008 | 5.6 | 4.4 | 6.2 | 1.3 | 0.1 |
| 09.12.2008 | 3.2 | 1.9 | 5.0 | 7.7 | 0.0 |
| 10.12.2008 | 0.4 | -1.7 | 3.5 | 0.1 | 0.3 |
| 11.12.2008 | 0.4 | -1.0 | 1.5 | 2.2 | 0.1 |
| 12.12.2008 | 0.8 | -0.1 | 2.2 | 0.2 | 0.1 |
| 13.12.2008 | 3.0 | -0.3 | 4.9 | 0.1 | 0.0 |
| 14.12.2008 | 4.3 | 3.5 | 4.8 | 0.0 | 0.1 |
| 15.12.2008 | 3.4 | 3.2 | 3.7 | 0.0 | 0.0 |
| 16.12.2008 | 4.0 | 3.9 | 4.1 | 0.0 | 0.0 |
| 17.12.2008 | 3.3 | 2.8 | 3.9 | 0.2 | 0.1 |
| 18.12.2008 | 3.8 | 2.8 | 4.5 | 1.6 | 0.1 |
| 19.12.2008 | 4.2 | 2.4 | 6.2 | 4.0 | 0.2 |
| 20.12.2008 | 6.3 | 5.0 | 7.3 | 0.1 | 0.2 |
| 21.12.2008 | 6.2 | 3.6 | 8.2 | 2.0 | 0.2 |
| 22.12.2008 | 5.8 | 2.5 | 8.0 | 0.1 | 0.2 |
| 23.12.2008 | 2.8 | 0.5 | 5.1 | 0.6 | 0.2 |
| 24.12.2008 | 4.7 | 2.4 | 6.7 | 0.3 | 0.1 |
| 25.12.2008 | 0.9 | -0.6 | 2.5 | 0.0 | 0.2 |
| 26.12.2008 | -1.3 | -2.2 | -0.2 | 0.0 | 0.1 |
| 27.12.2008 | 1.4 | 0.5 | 1.8 | 0.1 | 0.1 |
| 28.12.2008 | -0.3 | -1.0 | 1.3 | 0.1 | 0.2 |
| 29.12.2008 | 0.5 | -2.4 | 2.0 | 0.4 | 0.1 |
| 30.12.2008 | -2.2 | -4.0 | -1.1 | 0.0 | 0.1 |
| 31.12.2008 | -1.6 | -3.6 | -0.2 | 0.0 | |
| 01.01.2009 | -2.6 | -6.1 | 0.0 | 0.0 | 0.2 |
| 02.01.2009 | -2.8 | -6.2 | -0.2 | 0.0 | 0.3 |
| 03.01.2009 | 1.0 | -1.2 | 3.1 | 0.8 | 0.1 |
| 04.01.2009 | -3.6 | -6.2 | -1.5 | 0.1 | 0.1 |
| 05.01.2009 | -6.1 | -8.0 | -3.7 | 0.0 | 0.3 |
| 06.01.2009 | -0.2 | -3.2 | 1.2 | 1.1 | 0.2 |
| 07.01.2009 | -3.4 | -8.5 | 0.7 | 0.0 | 0.3 |
| 08.01.2009 | 0.8 | -5.1 | 3.1 | 0.2 | 0.2 |
| 09.01.2009 | 3.8 | 2.9 | 4.9 | 0.0 | 0.4 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 10.01.2009 | 1.6 | -0.7 | 3.0 | 0.0 | 0.1 |
| 11.01.2009 | 1.3 | -1.1 | 3.5 | 0.0 | 0.3 |
| 12.01.2009 | 3.8 | 2.9 | 4.6 | 1.6 | 0.3 |
| 13.01.2009 | 3.7 | 3.0 | 4.5 | 0.8 | 0.0 |
| 14.01.2009 | 2.8 | 1.4 | 3.7 | 0.2 | 0.1 |
| 15.01.2009 | 0.4 | -1.7 | 2.4 | 0.0 | 0.1 |
| 16.01.2009 | 0.2 | -0.8 | 0.7 | 0.0 | 0.2 |
| 17.01.2009 | 0.3 | 0.0 | 0.9 | 0.2 | 0.2 |
| 18.01.2009 | 2.4 | 1.4 | 3.1 | 5.4 | 0.1 |
| 19.01.2009 | 2.3 | 1.8 | 3.8 | 4.1 | 0.1 |
| 20.01.2009 | 2.7 | 0.0 | 4.5 | 0.1 | 0.3 |
| 21.01.2009 | 1.2 | 0.1 | 3.6 | 0.1 | 0.4 |
| 22.01.2009 | 1.2 | 0.2 | 2.0 | 1.0 | 0.1 |
| 23.01.2009 | 1.3 | 0.5 | 2.9 | 3.3 | 0.1 |
| 24.01.2009 | 2.6 | 1.3 | 3.3 | 0.5 | 0.2 |
| 25.01.2009 | 1.9 | 0.7 | 2.9 | 0.0 | 0.1 |
| 26.01.2009 | 1.2 | 0.6 | 1.8 | 0.0 | 0.1 |
| 27.01.2009 | 1.3 | 0.8 | 2.2 | 0.0 | 0.2 |
| 28.01.2009 | -0.6 | -2.9 | 0.9 | 0.0 | 0.2 |
| 29.01.2009 | -2.4 | -3.1 | -2.0 | 0.0 | 0.1 |
| 30.01.2009 | 0.0 | -1.5 | 0.7 | 0.0 | 0.1 |
| 31.01.2009 | 0.1 | -2.6 | 1.5 | 0.1 | 0.2 |
| 01.02.2009 | -0.6 | -1.6 | 0.1 | 0.1 | 0.1 |
| 02.02.2009 | 0.6 | 0.1 | 1.1 | 0.1 | 0.1 |
| 03.02.2009 | 0.7 | 0.1 | 1.1 | 0.0 | 0.1 |
| 04.02.2009 | 0.6 | 0.2 | 1.2 | 2.9 | 0.1 |
| 05.02.2009 | 1.3 | 0.1 | 2.3 | 2.5 | 0.2 |
| 06.02.2009 | 3.0 | 1.1 | 4.4 | 0.2 | 0.2 |
| 07.02.2009 | 2.0 | 1.3 | 2.5 | 7.1 | 0.1 |
| 08.02.2009 | 1.2 | 0.6 | 2.3 | 0.1 | 0.5 |
| 09.02.2009 | 0.6 | 0.2 | 0.9 | 0.3 | 0.2 |
| 10.02.2009 | 0.6 | -0.6 | 1.8 | 3.5 | 0.2 |
| 11.02.2009 | -0.2 | -0.5 | 0.5 | 0.4 | 0.4 |
| 12.02.2009 | -2.0 | -5.4 | -0.2 | 0.0 | 0.6 |
| 13.02.2009 | -3.3 | -6.9 | -0.1 | 0.0 | 0.5 |
| 14.02.2009 | -1.7 | -4.2 | 1.0 | 0.0 | 0.5 |
| 15.02.2009 | -0.6 | -1.3 | 0.3 | 2.1 | 0.3 |
| 16.02.2009 | -1.7 | -4.3 | -0.6 | 1.2 | 0.4 |
| 17.02.2009 | -6.1 | -10.1 | -2.1 | 0.1 | 0.5 |
| 18.02.2009 | -2.8 | -9.3 | -0.3 | 1.7 | 0.5 |
| 19.02.2009 | -1.5 | -2.6 | -0.6 | 2.2 | 0.4 |
| 20.02.2009 | -0.7 | -1.2 | 0.1 | 0.4 | 0.3 |
| 21.02.2009 | 0.1 | -1.3 | 1.9 | 5.3 | 0.6 |
| 22.02.2009 | 3.6 | 1.0 | 5.2 | 0.3 | 0.7 |
| 23.02.2009 | 0.6 | -1.0 | 1.7 | 0.0 | 0.3 |
| 24.02.2009 | 1.9 | -1.8 | 3.7 | 0.1 | 1.1 |
| 25.02.2009 | 4.5 | 3.8 | 5.4 | 0.7 | 0.4 |
| 26.02.2009 | 4.1 | 1.4 | 6.2 | 1.6 | 0.5 |
| 27.02.2009 | 3.0 | 0.1 | 6.3 | 0.0 | 0.4 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 28.02.2009 | 1.5 | -0.3 | 2.7 | 0.1 | 0.6 |
| 01.03.2009 | 2.8 | 1.9 | 3.6 | 0.5 | 0.2 |
| 02.03.2009 | 3.5 | 2.3 | 4.4 | 3.0 | 0.3 |
| 03.03.2009 | 4.8 | 3.4 | 6.8 | 0.0 | 1.0 |
| 04.03.2009 | 3.7 | 2.9 | 5.5 | 0.1 | 0.7 |
| 05.03.2009 | 3.9 | 2.5 | 5.3 | 0.0 | 0.6 |
| 06.03.2009 | 2.4 | 1.6 | 3.3 | 2.9 | 0.1 |
| 07.03.2009 | 2.4 | 1.3 | 3.7 | 0.9 | 0.2 |
| 08.03.2009 | 3.1 | 0.4 | 6.6 | 3.7 | 0.3 |
| 09.03.2009 | 2.9 | 1.1 | 4.6 | 2.6 | 0.5 |
| 10.03.2009 | 3.5 | 1.6 | 5.7 | 1.4 | 0.8 |
| 11.03.2009 | 2.1 | -2.2 | 5.5 | 0.0 | 0.9 |
| 12.03.2009 | 1.9 | -2.5 | 4.3 | 7.1 | 0.4 |
| 13.03.2009 | 5.0 | 3.0 | 6.8 | 0.7 | 0.5 |
| 14.03.2009 | 5.4 | 1.9 | 7.3 | 4.2 | 1.1 |
| 15.03.2009 | 5.2 | 3.5 | 6.6 | 0.1 | 0.4 |
| 16.03.2009 | 5.5 | 3.1 | 7.0 | 3.9 | 0.6 |
| 17.03.2009 | 5.8 | 2.7 | 8.7 | 0.0 | 1.3 |
| 18.03.2009 | 5.4 | 2.7 | 8.9 | 0.0 | 1.3 |
| 19.03.2009 | 3.0 | -1.9 | 7.4 | 0.0 | 1.2 |
| 20.03.2009 | 2.3 | -2.4 | 5.7 | 0.0 | 1.7 |
| 21.03.2009 | 3.7 | 1.6 | 4.7 | 0.0 | 0.4 |
| 22.03.2009 | 6.0 | 4.4 | 8.5 | 0.5 | 1.2 |
| 23.03.2009 | 2.9 | 1.0 | 4.7 | 4.4 | 0.7 |
| 24.03.2009 | -1.2 | -5.4 | 1.2 | 0.2 | 1.4 |
| 25.03.2009 | -0.8 | -2.6 | 0.8 | 0.0 | 1.6 |
| 26.03.2009 | 3.0 | -1.2 | 4.9 | 6.7 | 1.2 |
| 27.03.2009 | 4.9 | 3.6 | 6.5 | 0.7 | 1.3 |
| 28.03.2009 | 4.8 | 2.5 | 7.1 | 0.2 | 1.6 |
| 29.03.2009 | 4.2 | -0.1 | 8.8 | 0.1 | 1.4 |
| 30.03.2009 | 4.6 | 1.0 | 7.1 | 0.1 | 1.1 |
| 31.03.2009 | 7.3 | 5.2 | 9.7 | 0.0 | 1.3 |
| 01.04.2009 | 5.0 | -0.1 | 8.6 | 0.0 | 0.6 |
| 02.04.2009 | 3.2 | -1.0 | 8.3 | 0.0 | 1.8 |
| 03.04.2009 | 6.5 | 0.4 | 14.0 | 0.0 | 1.6 |
| 04.04.2009 | 10.0 | 3.3 | 15.2 | 0.0 | 1.8 |
| 05.04.2009 | 6.9 | 1.8 | 11.0 | 0.0 | 1.8 |
| 06.04.2009 | 7.8 | 3.0 | 11.6 | 0.0 | 2.6 |
| 07.04.2009 | 9.0 | 6.0 | 12.4 | 1.9 | 2.0 |
| 08.04.2009 | 9.5 | 6.6 | 13.3 | 2.8 | 2.1 |
| 09.04.2009 | 9.1 | 4.4 | 14.1 | 0.0 | 1.9 |
| 10.04.2009 | 9.4 | 6.6 | 13.5 | 0.0 | 1.9 |
| 11.04.2009 | 8.4 | 4.8 | 12.3 | 0.0 | 1.9 |
| 12.04.2009 | 7.3 | 4.0 | 11.6 | 0.0 | 1.9 |
| 13.04.2009 | 8.8 | 4.6 | 13.4 | 0.0 | 2.8 |
| 14.04.2009 | 10.3 | 6.8 | 15.4 | 0.0 | 2.9 |
| 15.04.2009 | 8.8 | 5.2 | 12.5 | 0.0 | 2.9 |
| 16.04.2009 | 7.4 | 3.4 | 11.0 | 0.0 | 2.8 |
| 17.04.2009 | 7.1 | 2.8 | 12.9 | 0.0 | 2.0 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 18.04.2009 | 7.3 | 3.1 | 12.6 | 0.0 | 2.0 |
| 19.04.2009 | 4.4 | -0.3 | 8.3 | 0.0 | 1.8 |
| 20.04.2009 | 9.2 | 4.6 | 14.3 | 0.0 | 2.1 |
| 21.04.2009 | 6.6 | 2.7 | 10.3 | 0.0 | 2.0 |
| 22.04.2009 | 6.9 | 1.9 | 9.9 | 0.0 | 1.2 |
| 23.04.2009 | 9.0 | 1.9 | 14.9 | 0.0 | 2.2 |
| 24.04.2009 | 10.1 | 3.6 | 15.6 | 0.0 | 2.3 |
| 25.04.2009 | 11.3 | 9.3 | 14.6 | 0.0 | 2.4 |
| 26.04.2009 | 13.7 | 9.5 | 18.2 | 0.0 | 3.4 |
| 27.04.2009 | 14.7 | 10.3 | 20.3 | 0.6 | 3.5 |
| 28.04.2009 | 12.5 | 7.6 | 16.5 | 0.0 | 2.4 |
| 29.04.2009 | 13.9 | 9.6 | 18.5 | 0.0 | 2.6 |
| 30.04.2009 | 12.1 | 6.0 | 18.4 | 0.0 | 2.5 |
| 01.05.2009 | 9.3 | 2.0 | 14.9 | 0.0 | 2.4 |
| 02.05.2009 | 10.8 | 7.9 | 14.9 | 0.0 | 2.5 |
| 03.05.2009 | 11.0 | 7.3 | 15.1 | 4.1 | 2.4 |
| 04.05.2009 | 9.4 | 7.0 | 12.4 | 3.4 | 2.4 |
| 05.05.2009 | 9.4 | 7.3 | 12.5 | 5.6 | 1.2 |
| 06.05.2009 | 9.1 | 5.8 | 11.9 | 0.6 | 1.9 |
| 07.05.2009 | 10.9 | 7.2 | 13.8 | 0.0 | 1.8 |
| 08.05.2009 | 12.0 | 6.4 | 18.0 | 4.9 | 3.0 |
| 09.05.2009 | 11.3 | 5.7 | 15.2 | 0.3 | 3.7 |
| 10.05.2009 | 11.3 | 4.7 | 15.4 | 0.0 | 2.6 |
| 11.05.2009 | 9.4 | 5.3 | 13.0 | 0.0 | 3.7 |
| 12.05.2009 | 9.9 | 4.4 | 14.6 | 0.0 | 2.6 |
| 13.05.2009 | 9.1 | 2.0 | 13.9 | 0.0 | 2.7 |
| 14.05.2009 | 9.9 | 6.1 | 12.8 | 0.1 | 2.8 |
| 15.05.2009 | 10.1 | 8.4 | 12.6 | 0.1 | 2.7 |
| 16.05.2009 | 7.8 | 6.7 | 8.7 | 7.1 | 0.6 |
| 17.05.2009 | 10.1 | 8.9 | 11.7 | 1.0 | 2.3 |
| 18.05.2009 | 13.0 | 6.8 | 18.2 | 0.2 | 4.0 |
| 19.05.2009 | 14.4 | 10.3 | 17.5 | 5.9 | 3.8 |
| 20.05.2009 | 13.4 | 7.7 | 17.5 | 0.0 | 3.0 |
| 21.05.2009 | 13.6 | 10.4 | 17.1 | 5.4 | 3.2 |
| 22.05.2009 | 10.9 | 8.4 | 14.6 | 3.8 | 2.6 |
| 23.05.2009 | 12.3 | 8.9 | 15.9 | 0.2 | 2.4 |
| 24.05.2009 | 12.5 | 10.5 | 16.2 | 0.7 | 2.5 |
| 25.05.2009 | 12.6 | 8.7 | 17.0 | 0.0 | 4.1 |
| 26.05.2009 | 15.9 | 11.6 | 22.3 | 4.3 | 3.6 |
| 27.05.2009 | 12.6 | 10.5 | 15.1 | 5.4 | 3.6 |
| 28.05.2009 | 12.5 | 10.1 | 14.4 | 0.3 | 4.3 |
| 29.05.2009 | 13.3 | 8.3 | 16.9 | 0.0 | 3.0 |
| 30.05.2009 | 16.1 | 12.1 | 21.0 | 0.0 | 4.6 |
| 31.05.2009 | 16.7 | 9.7 | 23.3 | 0.0 | 3.3 |
| 01.06.2009 | 17.9 | 10.9 | 24.1 | 0.0 | 3.4 |
| 02.06.2009 | 16.4 | 10.2 | 21.8 | 1.4 | 4.3 |
| 03.06.2009 | 10.6 | 5.2 | 13.8 | 1.9 | 3.9 |
| 04.06.2009 | 9.5 | 5.9 | 13.1 | 4.3 | 2.6 |
| 05.06.2009 | 8.5 | 2.9 | 12.9 | 1.3 | 3.4 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 06.06.2009 | 10.3 | 8.1 | 12.6 | 0.4 | 3.5 |
| 07.06.2009 | 10.6 | 8.5 | 13.3 | 0.6 | 3.0 |
| 08.06.2009 | 9.8 | 3.8 | 13.5 | 0.6 | 3.2 |
| 09.06.2009 | 11.8 | 10.6 | 13.5 | 5.3 | 2.0 |
| 10.06.2009 | 12.9 | 8.5 | 15.7 | 1.6 | 2.1 |
| 11.06.2009 | 11.2 | 9.7 | 12.7 | 66.1 | 0.7 |
| 12.06.2009 | 11.1 | 9.9 | 11.9 | 21.7 | 1.1 |
| 13.06.2009 | 12.5 | 7.8 | 16.8 | 0.0 | 3.1 |
| 14.06.2009 | 13.5 | 9.0 | 16.8 | 0.4 | 4.4 |
| 15.06.2009 | 12.1 | 6.0 | 16.2 | 0.0 | 3.1 |
| 16.06.2009 | 11.6 | 7.0 | 15.3 | 0.0 | 3.8 |
| 17.06.2009 | 13.7 | 11.1 | 16.8 | 0.8 | 4.8 |
| 18.06.2009 | 14.0 | 9.5 | 17.6 | 0.0 | 3.9 |
| 19.06.2009 | 13.2 | 10.8 | 15.8 | 2.9 | 3.6 |
| 20.06.2009 | 13.5 | 9.9 | 16.6 | 0.4 | 3.9 |
| 21.06.2009 | 12.6 | 7.8 | 16.4 | 0.8 | 3.3 |
| 22.06.2009 | 15.2 | 10.5 | 19.8 | 0.0 | 3.3 |
| 23.06.2009 | 16.9 | 12.5 | 20.8 | 0.0 | 3.4 |
| 24.06.2009 | 18.5 | 13.9 | 24.0 | 0.0 | 3.5 |
| 25.06.2009 | 18.6 | 15.8 | 21.2 | 0.1 | 3.5 |
| 26.06.2009 | 17.6 | 13.8 | 21.2 | 0.0 | 3.5 |
| 27.06.2009 | 16.2 | 11.5 | 20.6 | 0.0 | 4.4 |
| 28.06.2009 | 17.4 | 12.4 | 21.5 | 0.0 | 4.7 |
| 29.06.2009 | 17.6 | 13.0 | 20.8 | 0.0 | 2.8 |
| 30.06.2009 | 20.8 | 16.8 | 25.1 | 0.2 | 4.4 |
| 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 |

| Date | Temp, °C | Min. temp, °C | Max. temp, °C | Precipitation, mm | Evaporation, mm |
|------------|----------|---------------|---------------|-------------------|-----------------|
| 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 |
| 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 |