

| Druh       | Náhodně přiřazené číslo (funkce NÁHČÍSLO) | Pořadí rostlin |
|------------|---|----------------|
| Slunečnice | 0.924774587                               | 1              |
| Slunečnice | 0.166354959                               | 2              |
| Slunečnice | 0.76751784                                | 3              |
| Slunečnice | 0.193184883                               | 4              |
| Slunečnice | 0.471381305                               | 5              |
| Slunečnice | 0.621798679                               | 6              |
| Slunečnice | 0.782992903                               | 7              |
| Slunečnice | 0.160809135                               | 8              |
| Slunečnice | 0.236261642                               | 9              |
| Slunečnice | 0.171530878                               | 10             |

| Vzestupně seřazená náhodná čísla | Číslo rostliny | Id. rostliny |
|----------------------------------|----------------|--------------|
| 0.021943621                      | 10             | LL5          |
| 0.103950385                      | 3              | SL3          |
| 0.197013977                      | 7              | LL2          |
| 0.292187476                      | 8              | LL3          |
| 0.333027486                      | 2              | SL2          |
| 0.37034859                       | 5              | SL5          |
| 0.462295654                      | 4              | SL4          |
| 0.572262219                      | 1              | SL1          |
| 0.879140581                      | 6              | LL1          |
| 0.887973073                      | 9              | LL4          |

## Měření 1 (22.10.)

| Id. rostliny | Výška rostliny (cm) | Průměr stonku (mm) | Počet listů |
|--------------|---------------------|--------------------|-------------|
| SL1          | 12.5                | 4.9                | 8           |
| SL2          | 11                  | 4.07               | 7           |
| SL3          | 10.5                | 4.9                | 8           |
| SL4          | 12                  | 5.88               | 8           |
| SL5          | 12.5                | 4.98               | 8           |
| LL1          | 14.5                | 4.58               | 8           |
| LL2          | 10.5                | 4.55               | 8           |
| LL3          | 13.5                | 3.7                | 9           |
| LL4          | 12                  | 3.84               | 8           |
| LL5          | 11.3                | 4.26               | 8           |
| průměr SL    | 11.7                | 4.946              | 7.8         |
| SD SL        | 0.908295106         | 0.641311157        | 0.447213595 |
| průměr LL    | 12.36               | 4.186              | 8.2         |
| SD LL        | 1.627267649         | 0.402839919        | 0.447213595 |

## Měření 2 (29.10.)

| Výška rostliny (cm) | Průměr stonku (mm) | Počet listů |
|---------------------|--------------------|-------------|
| 18.7                | 5.92               | 12          |
| 18.3                | 5.68               | 11          |
| 17                  | 5.92               | 11          |
| 18                  | 6.15               | 10          |
| 17.6                | 7.14               | 11          |
| 17.3                | 4.65               | 8           |
| 12.5                | 5.35               | 8           |
| 14.5                | 4.16               | 9           |
| 13.5                | 4.35               | 8           |
| 15                  | 4.81               | 8           |
| 17.92               | 6.162              | 11          |
| 0.65345237          | 0.571419286        | 0.7071068   |
| 14.56               | 4.664              | 8.2         |
| 1.807761046         | 0.459543252        | 0.4472136   |

| Id. rostliny | Měření 1 (22.10.) |                       | Měření           |
|--------------|-------------------|-----------------------|------------------|
|              | Theta Probe (mV)  | Vodní potenciál (Mpa) | Theta Probe (mV) |
| SL1          | 820               | 0.000976324           | 190              |
| SL2          | 823               | 0.000968653           | 262              |
| SL3          | 855               | 0.000892042           | 239              |
| SL4          | 824               | 0.000966116           | 260              |
| SL5          | 883               | 0.000832064           | 198              |
| LL1          | 817               | 0.000984084           | 674              |
| LL2          | 819               | 0.000978901           | 686              |
| LL3          | 878               | 0.000842333           | 692              |
| LL4          | 829               | 0.000953573           | 773              |
| LL5          | 806               | 0.001013324           | 653              |
| průměr SL    | 841               | 0.00092704            | 229.8            |
| SD SL        | 27.44995446       | 6.31126E-05           | 34.01764248      |
| průměr LL    | 829.8             | 0.000954443           | 695.6            |
| SD LL        | 28.15492852       | 6.61687E-05           | 45.76352259      |

2 (29.10.)

$$y = 87,299.22x^{-2.16}$$

Vodní potenciál (Mpa)

0.022978632

0.011478923

0.013998854

0.011670501

0.021020117

0.001491168

0.001435396

0.001408649

0.001109083

0.001596686

0.016229406

0.005404374

0.001408197

0.000182086

## Měření 1 (22.10.)

| Id. rostliny | A ( $\mu\text{mol m}^{-2} \text{s}^{-1}$ ) | gs ( $\text{mmol m}^{-2} \text{s}^{-1}$ ) | WUE ( $\mu\text{mol CO}_2 \text{ mmol H}_2\text{O}$ ) |
|--------------|--|---|---|
| SL1          | 31.9                                       | 757                                       | 3.73  |
| SL2          | 29.3                                       | 715                                       | 3.45  |
| SL3          | 26.6                                       | 478                                       | 3.69  |
| SL4          | 28.7                                       | 642                                       | 3.54  |
| SL5          | 25.9                                       | 357                                       | 4.16  |
| LL1          | 21.9                                       | 397                                       | 3.28  |
| LL2          | 28.5                                       | 622                                       | 3.58  |
| LL3          | 27.7                                       | 453                                       | 3.93  |
| LL4          | 25.6                                       | 446                                       | 3.7   |
| LL5          | 23.1                                       | 318                                       | 3.94  |
| průměr SL    | 28.48                                      | 589.8                                     | 3.714   |
| SD SL        | 2.377393531                                | 168.1151391                               | 0.273733447   |
| průměr LL    | 25.36                                      | 447.2                                     | 3.686   |
| SD LL        | 2.849210417                                | 111.5827048                               | 0.274007299   |

Měření 2 (29.10.)

| A (umol m <sup>-2</sup> s <sup>-1</sup> ) | gs (mmol m <sup>-2</sup> s <sup>-1</sup> ) | WUE (umol CO <sub>2</sub> mmol H <sub>2</sub> O) |
|---|--|--|
| 17.7                                      | 179  | 4.21   |
| 20.2                                      | 287  | 3.56   |
| 9.5                                       | 86   | 3.94   |
| 4.4                                       | 50   | 2.95   |
| 0.9                                       | 61   | 0.49   |
| 3.7                                       | 31   | 3.74   |
| 6.8                                       | 86   | 2.85   |
| 6.6                                       | 127  | 1.99   |
| 9.6                                       | 158  | 2.53   |
| 7.4                                       | 95   | 2.88   |

|     | gs  |
|-----|-----|
| LL1 | 397 |
| SL1 | 757 |
| SL2 | 715 |
| LL2 | 622 |
| SL3 | 478 |
| LL3 | 453 |
| SL4 | 642 |
| LL4 | 446 |
| SL5 | 357 |
| LL5 | 318 |

stejný list C

|             |            |             |
|-------------|------------|-------------|
| 10.54       | 132.6      | 3.03        |
| 8.311016785 | 100.1414   | 1.496612842 |
| 6.82        | 99.4       | 2.798       |
| 2.112344669 | 47.6266732 | 0.636686736 |

| c | ExcelTime |
|---|-----------|
| R | 45594.6   |
| R | 45594.6   |
| R | 45594.61  |
| R | 45594.61  |
| R | 45594.61  |
| R | 45594.61  |
| R | 45594.62  |
| R | 45594.62  |
| R | 45594.62  |
| R | 45594.63  |



| A    | WUE  |
|------|------|
| 21.9 | 3.28 |
| 31.9 | 3.73 |
| 29.3 | 3.45 |
| 28.5 | 3.58 |
| 26.6 | 3.69 |
| 27.7 | 3.93 |
| 28.7 | 3.54 |
| 25.6 | 3.7  |
| 25.9 | 4.16 |
| 23.1 | 3.94 |

| Comment | A    |
|---------|------|
| SL1     | 17.7 |
| LL1     | 3.7  |
| SL2     | 20.2 |
| LL2     | 6.8  |
| SL3     | 9.5  |
| LL3     | 6.6  |
| SL4     | 4.4  |
| LL4     | 9.6  |
| SL5     | 0.9  |
| LL5     | 7.4  |

| Comment | CO2r  | CO2a  | CO2d  | H2Or | H2Oa  | H2Od | PARi | PARe |
|---------|-------|-------|-------|------|-------|------|------|------|
| SL1     | 449.3 | 427.4 | -21.9 | 13.2 | 17.82 | 4.62 | 1801 | 183  |
| LL1     | 449.9 | 445.2 | -4.7  | 13.2 | 14.29 | 1.09 | 1800 | 88   |
| SL2     | 450   | 424.6 | -25.4 | 13.2 | 19.42 | 6.22 | 1800 | 139  |
| LL2     | 450.3 | 441.5 | -8.8  | 13.3 | 15.93 | 2.63 | 1800 | 46   |
| SL3     | 450   | 438.2 | -11.8 | 13.3 | 15.96 | 2.66 | 1800 | 39   |
| LL3     | 449.5 | 440.5 | -9    | 13.2 | 16.84 | 3.64 | 1800 | 56   |
| SL4     | 449.7 | 444   | -5.7  | 13.3 | 14.95 | 1.65 | 1800 | 75   |
| LL4     | 449.7 | 437   | -12.7 | 13.3 | 17.5  | 4.2  | 1800 | 31   |
| SL5     | 450   | 448   | -2    | 13.4 | 15.41 | 2.01 | 1800 | 29   |
| LL5     | 450.1 | 440.5 | -9.6  | 13.5 | 16.33 | 2.83 | 1801 | 28   |

| gs  | WUE  |
|-----|------|
| 179 | 4.21 |
| 31  | 3.74 |
| 287 | 3.56 |
| 86  | 2.85 |
| 86  | 3.94 |
| 127 | 1.99 |
| 50  | 2.95 |
| 158 | 2.53 |
| 61  | 0.49 |
| 95  | 2.88 |

| Red | Green | Blue | White | Tamb | Tcuv | Tleaf | Aleaf | Flow |
|-----|-------|------|-------|------|------|-------|-------|------|
| 38  | 37    | 25   | 0     | 26.3 | 27.3 | 29.8  | 2.5   | 300  |
| 38  | 37    | 25   | 0     | 26.2 | 27.2 | 31    | 2.5   | 300  |
| 38  | 37    | 25   | 0     | 26   | 27   | 29.2  | 2.5   | 300  |
| 38  | 37    | 25   | 0     | 25.9 | 26.9 | 30.4  | 2.5   | 300  |
| 38  | 37    | 25   | 0     | 25.3 | 27.2 | 30.5  | 2.5   | 300  |
| 38  | 37    | 25   | 0     | 25.2 | 26.9 | 30.3  | 2.5   | 300  |
| 38  | 37    | 25   | 0     | 24.9 | 27   | 30.6  | 2.5   | 299  |
| 38  | 37    | 25   | 0     | 24.6 | 26.9 | 29.9  | 2.5   | 299  |
| 38  | 37    | 25   | 0     | 24.6 | 27   | 30.8  | 2.5   | 300  |
| 38  | 37    | 25   | 0     | 24.3 | 27.1 | 30.3  | 2.5   | 300  |

| Patm | RH    | Ci  | gs  | VPD  | A    | E    | WUE  | rb  |
|------|-------|-----|-----|------|------|------|------|-----|
| 998  | 49.1  | 246 | 179 | 2.41 | 17.7 | 4.2  | 4.21 | 0.4 |
| 998  | 39.61 | 235 | 31  | 3.06 | 3.7  | 0.99 | 3.74 | 0.4 |
| 998  | 54.46 | 289 | 287 | 2.11 | 20.2 | 5.67 | 3.56 | 0.4 |
| 998  | 44.94 | 294 | 86  | 2.75 | 6.8  | 2.39 | 2.85 | 0.4 |
| 998  | 44.24 | 241 | 86  | 2.77 | 9.5  | 2.41 | 3.94 | 0.4 |
| 999  | 47.51 | 337 | 127 | 2.63 | 6.6  | 3.31 | 1.99 | 0.4 |
| 998  | 41.93 | 287 | 50  | 2.9  | 4.4  | 1.49 | 2.95 | 0.4 |
| 998  | 49.37 | 319 | 158 | 2.47 | 9.6  | 3.8  | 2.53 | 0.4 |
| 998  | 43.22 | 402 | 61  | 2.9  | 0.9  | 1.82 | 0.49 | 0.4 |
| 998  | 45.53 | 296 | 95  | 2.68 | 7.4  | 2.57 | 2.88 | 0.4 |



| Id. rostliny | Měření 1 (22.10.) | Měření 2 (29.10.)          |
|--------------|-------------------|----------------------------|
|              | Fv/Fm             | Fv/Fm                      |
| SL1          | 0.69              | 0.81                       |
| SL2          | 0.81              | 0.79                       |
| SL3          | 0.82              | 0.81                       |
| SL4          | 0.83              | 0.8                        |
| SL5          | 0.84              | 0.79                       |
| LL1          | 0.79              | 0.81                       |
| LL2          | 0.83              | 0.8                        |
| LL3          | 0.78              | 0.63 stejný list QY i gazo |
| LL4          | 0.82              | 0.83                       |
| LL5          | 0.8               | 0.78                       |
| průměr SL    | 0.798             | 0.8                        |
| SD SL        | 0.061400326       | 0.01                       |
| průměr LL    | 0.804             | 0.77                       |
| SD LL        | 0.020736441       | 0.080311892                |

| Varianta  | Opakování | Měření 1 (22.10.) | Měření 2 (29.10.) |
|-----------|-----------|-------------------|-------------------|
|           |           | Ozářenost (PPFD)  | Ozářenost (PPFD)  |
| SL        | 1         | 126.7             | 132.6             |
| SL        | 2         | 100               | 130.7             |
| SL        | 3         | 135.9             | 148.5             |
| LL        | 1         | 0                 | 0                 |
| LL        | 2         | 0                 | 0                 |
| LL        | 3         | 0                 | 0                 |
| průměr SL |           | 120.8666667       | 137.2666667       |
| SD SL     |           | 18.64734119       | 9.774627018       |
| průměr LL |           | 0                 | 0                 |
| SD LL     |           | 0                 | 0                 |

| Id. rostliny | referenční koncentrace CO2 (ppm) | koncentrace CO2 (ppm) | Měření (29.10.)    |                  |
|--------------|----------------------------------|-----------------------|--------------------|------------------|
|              |                                  |                       | $\Delta$ CO2 (ppm) | průtok (l.min-1) |
| SL1          | 568.08                           | 596.47                | 28.39              | 0.25             |
| SL2          | 562.16                           | 598.84                | 36.68              | 0.25             |
| SL3          | 562.16                           | 612.44                | 50.28              | 0.25             |
| SL4          |                                  |                       | 0                  |                  |
| SL5          |                                  |                       | 0                  |                  |
| LL1          | 568.08                           | 569.26                | 1.18               | 0.25             |
| LL2          | 562.16                           | 564.52                | 2.36               | 0.25             |
| LL3          | 562.72                           | 563.34                | 0.62               | 0.25             |
| LL4          |                                  |                       | 0                  |                  |
| LL5          |                                  |                       | 0                  |                  |

průměr SL  
SD SL

průměr LL  
SD LL

| průtok (l.h-1) | m (g) | T (°C) | k (umol.ul-1) | Vr (umol.g-1.h-1) |
|----------------|-------|--------|---------------|-------------------|
| 15             | 4.72  | 20     | 0.041560903   | 3.74972682        |
| 15             | 3.49  | 20     | 0.041560903   | 6.552094239       |
| 15             | 6.75  | 20     | 0.041560903   | 4.643738242       |
| 0              | 5.43  |        | 0.044603986   | 0                 |
| 0              | 7.34  |        | 0.044603986   | 0                 |

|    |       |    |             |             |
|----|-------|----|-------------|-------------|
| 15 | 0.949 | 20 | 0.041560903 | 0.775161207 |
| 15 | 1.15  | 20 | 0.041560903 | 1.279353018 |
| 15 | 0.56  | 20 | 0.041560903 | 0.690207855 |
| 0  | 0.87  |    | 0.044603986 | 0           |
| 0  | 1.27  |    | 0.044603986 | 0           |

2.98911186  
2.910358502

0.548944416  
0.549387401



## Měření (29.10.)

| Id. rostliny | FW listy (g) | FW stonek (g) | FW kořeny (g) | DW listy (g) | DW stonek (g) | DW kořeny (g) |
|--------------|--------------|---------------|---------------|--------------|---------------|---------------|
| SL1          | 6.86         | 8.26          | 4.72          | 0.812        | 0.678         | 0.31          |
| SL2          | 5.74         | 6.91          | 3.49          | 0.636        | 0.47          | 0.24          |
| SL3          | 6.68         | 6.84          | 6.75          | 0.71         | 0.5           | 0.39          |
| SL4          | 7.44         | 7.74          | 5.43          | 0.825        | 0.61          | 0.376         |
| SL5          | 6.15         | 8.5           | 7.34          | 0.69         | 0.65          | 0.53          |
| LL1          | 3.13         | 3.98          | 0.949         | 0.24         | 0.16          | 0.06          |
| LL2          | 3.69         | 3.75          | 1.15          | 0.25         | 0.13          | 0.06          |
| LL3          | 2.58         | 3.33          | 0.56          | 0.19         | 0.13          | 0.03          |
| LL4          | 3.1          | 3.17          | 0.87          | 0.21         | 0.11          | 0.07          |
| LL5          | 3.53         | 3.63          | 1.27          | 0.22         | 0.13          | 0.05          |
| průměr SL    | 6.574        | 7.65          | 5.546         | 0.7346       | 0.5816        | 0.3692        |
| SD SL        | 0.65542353   | 0.75934182    | 1.548460526   | 0.081362153  | 0.092047814   | 0.10785731    |
| průměr LL    | 3.206        | 3.572         | 0.9598        | 0.222        | 0.132         | 0.054         |
| SD LL        | 0.43246965   | 0.324684462   | 0.274053279   | 0.023874673  | 0.017888544   | 0.01516575    |

| ) | Listová plocha (cm2) | sumaFW |
|---|----------------------|--------|
|   | 285.183              | 19.84  |
|   | 254.3445             | 16.14  |
|   | 273.913              | 20.27  |
|   | 304.796              | 20.61  |
|   | 258.183              | 21.99  |
|   |                      | 0      |
|   |                      | 0      |
|   | 139.309              | 8.059  |
|   | 142.031              | 8.59   |
|   | 127.294              | 6.47   |
|   | 119.514              | 7.14   |
|   | 142.926              | 8.43   |
|   | 275.2839             |        |
|   | 20.6260445           |        |
|   | 134.2148             |        |
|   | 10.33126148          |        |

| Time             | 1. Air_Temp[oC]@2m | 2. Air_RH[%]@2m |
|------------------|--------------------|-----------------|
| 10/22/2024 16:00 | 21.58670044        | 49.0521431      |
| 10/23/2024       | 16.33099937        | 82.40140533     |
| 10/23/2024 0:15  | 16.20120049        | 82.64762878     |
| 10/23/2024 0:30  | 16.08839989        | 82.94039154     |
| 10/23/2024 0:45  | 15.97560024        | 83.2464447      |
| 10/23/2024 1:00  | 15.94180012        | 83.67047119     |
| 10/23/2024 1:15  | 16.16740036        | 82.40982056     |
| 10/23/2024 1:30  | 16.4211998         | 81.87913513     |
| 10/23/2024 1:45  | 16.5678997         | 81.7431488      |
| 10/23/2024 2:00  | 16.6243            | 81.68563843     |
| 10/23/2024 2:15  | 16.61870003        | 81.55010986     |
| 10/23/2024 2:30  | 16.57920074        | 82.59277344     |
| 10/23/2024 2:45  | 16.4946003         | 83.590271       |
| 10/23/2024 3:00  | 16.39870071        | 84.31638336     |
| 10/23/2024 3:15  | 16.30279922        | 84.3664856      |
| 10/23/2024 3:30  | 16.21820068        | 85.09754944     |
| 10/23/2024 3:45  | 16.12789917        | 84.83595276     |
| 10/23/2024 4:00  | 16.05459976        | 86.54983521     |
| 10/23/2024 4:15  | 15.98130035        | 86.08287048     |
| 10/23/2024 4:30  | 15.91919994        | 88.19783783     |
| 10/23/2024 4:45  | 15.85149956        | 87.31532288     |
| 10/23/2024 5:00  | 15.84589958        | 86.68288422     |
| 10/23/2024 5:15  | 16.07150078        | 85.99514771     |
| 10/23/2024 5:30  | 16.29710007        | 85.51519012     |
| 10/23/2024 5:45  | 16.42690086        | 85.54544067     |
| 10/23/2024 6:00  | 16.43250084        | 84.44684601     |
| 10/23/2024 6:15  | 16.4211998         | 84.8920517      |
| 10/23/2024 6:30  | 16.86129951        | 84.12650299     |
| 10/23/2024 6:45  | 17.4932003         | 82.08581543     |
| 10/23/2024 7:00  | 18.04059982        | 80.37955475     |
| 10/23/2024 7:15  | 18.45829964        | 78.91776276     |
| 10/23/2024 7:30  | 18.9776001         | 77.67638397     |
| 10/23/2024 7:45  | 19.36709976        | 77.01340485     |
| 10/23/2024 8:00  | 19.57040024        | 76.46793365     |
| 10/23/2024 8:15  | 19.62689972        | 76.55841064     |
| 10/23/2024 8:30  | 19.58169937        | 77.4108963      |
| 10/23/2024 8:45  | 19.47439957        | 78.23931122     |
| 10/23/2024 9:00  | 19.35020065        | 79.06787872     |
| 10/23/2024 9:15  | 19.27120018        | 79.49097443     |
| 10/23/2024 9:30  | 19.20339966        | 80.40969086     |
| 10/23/2024 9:45  | 19.25419998        | 81.31488037     |
| 10/23/2024 10:00 | 19.3220005         | 81.50595856     |
| 10/23/2024 10:15 | 19.38969994        | 81.52788544     |
| 10/23/2024 10:30 | 19.5590992         | 81.57765961     |
| 10/23/2024 10:45 | 19.77370071        | 81.73356628     |
| 10/23/2024 11:00 | 20.22540092        | 82.22602844     |
| 10/23/2024 11:15 | 20.64340019        | 65.06312561     |
| 10/23/2024 11:30 | 20.25370026        | 62.73075104     |
| 10/23/2024 11:45 | 20.2989006         | 63.82515717     |

|                  |             |             |
|------------------|-------------|-------------|
| 10/23/2024 12:00 | 20.37789917 | 64.49719238 |
| 10/23/2024 12:15 | 20.42880058 | 64.92475128 |
| 10/23/2024 12:30 | 20.53610039 | 62.36495209 |
| 10/23/2024 12:45 | 20.63209915 | 59.05270386 |
| 10/23/2024 13:00 | 20.65469933 | 62.85240936 |
| 10/23/2024 13:15 | 20.60950089 | 62.4358139  |
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